State of Oregon
Oregon Department of Geology and Mineral Industries
Ruarri Day-Stirrat, State Geologist

OPEN-FILE REPORT O-25-01

EARTHQUAKE AND TSUNAMI IMPACT ANALYSIS FOR THE OREGON COAST

Lincoln County Community Profiles

By Jonathan C. Allan[1] and Fletcher E. O'Brien[2]

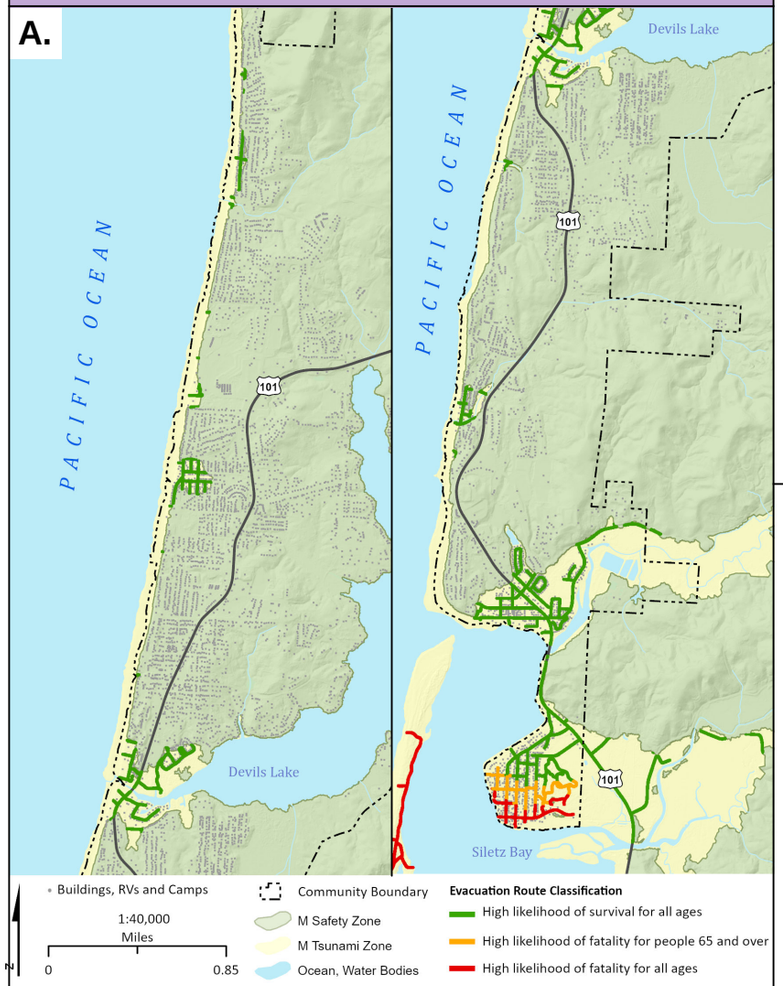
2025

[1]Oregon Department of Geology and Mineral Industries, Coastal Field Office, P.O. Box 1033, Newport, OR 97365
[2]Oregon Department of Geology and Mineral Industries, 800 NE Oregon Street, Suite 965, Portland, OR 97232

Lincoln City - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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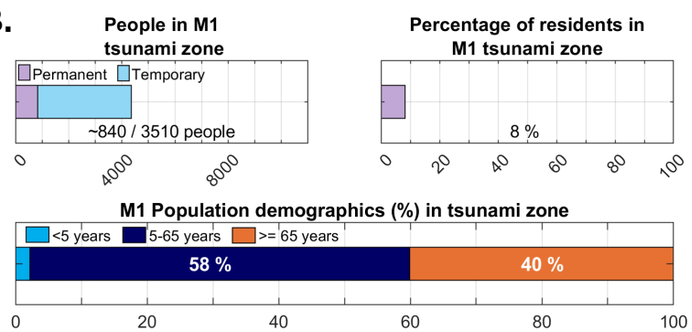

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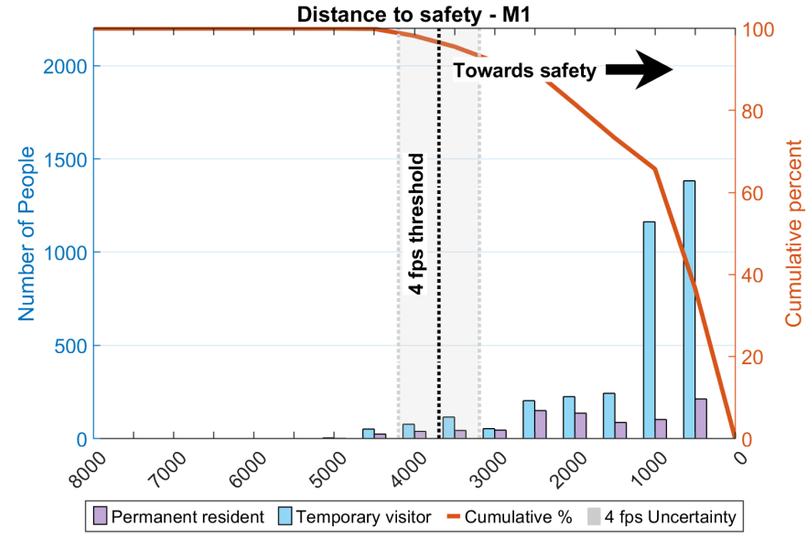

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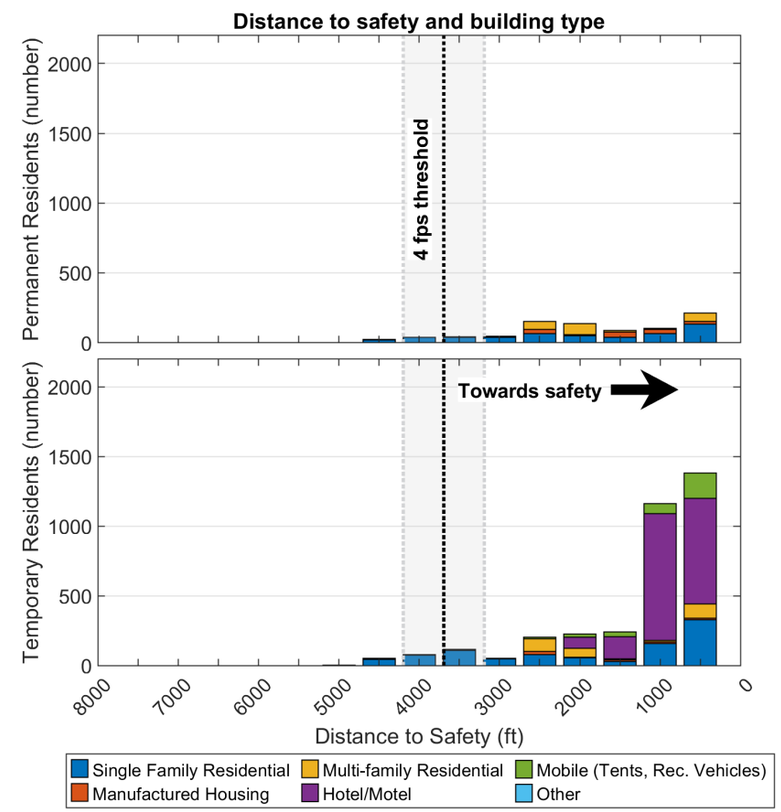

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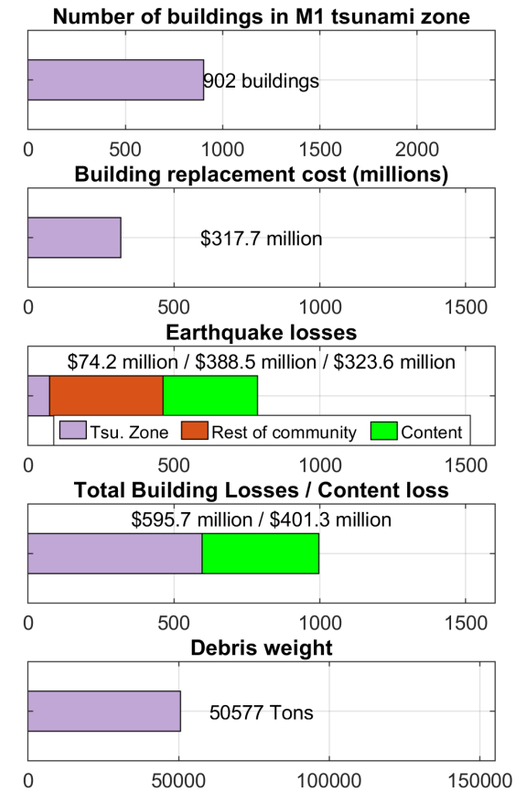

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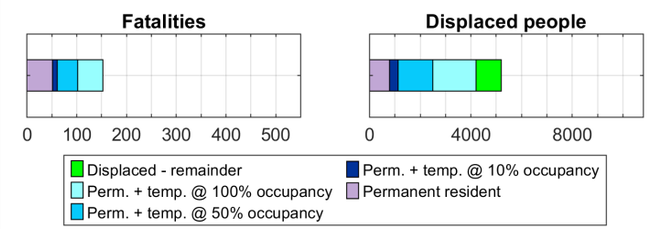
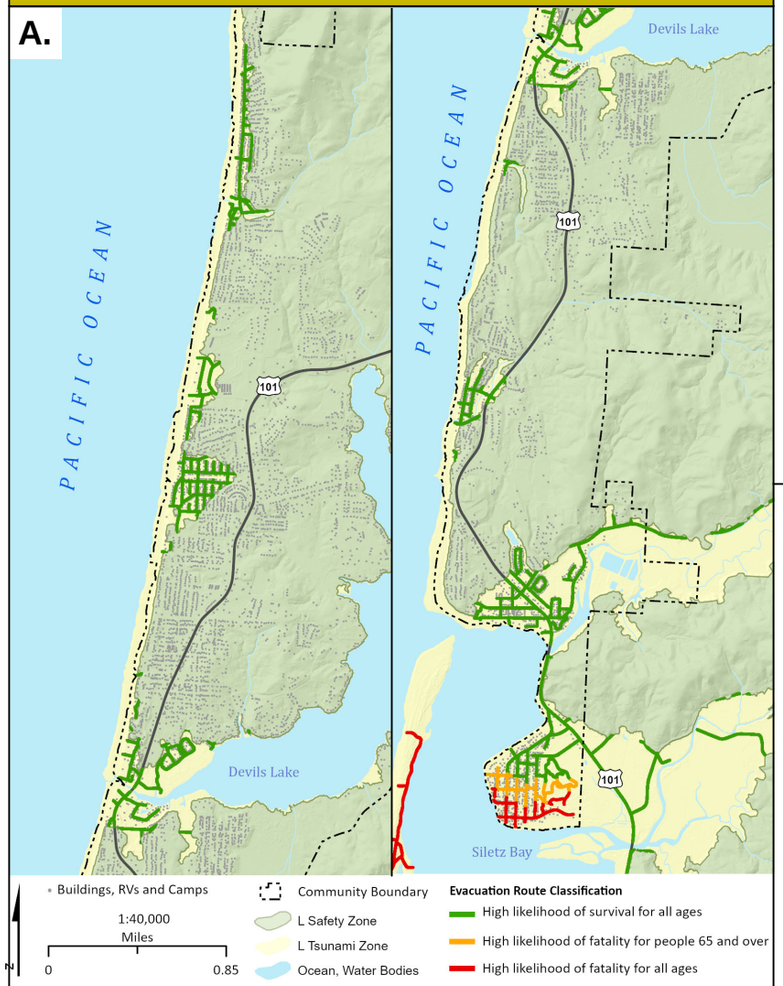


Description	Total
Earthquake Injuries (Entire Community)	290
Tsunami Injuries - Permanent + Temporary	150
Tsunami Fatalities - Permanent	50
Tsunami Fatalities - Temporary @ ~100% occupancy	100
Displaced Population - Permanent	1,200
Displaced Population - Permanent + Temporary	5,200

Lincoln City - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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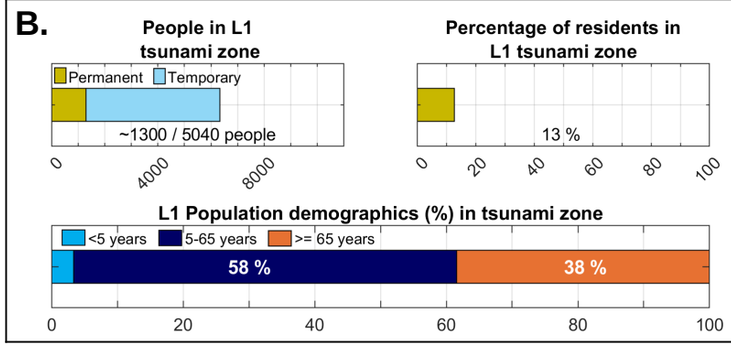

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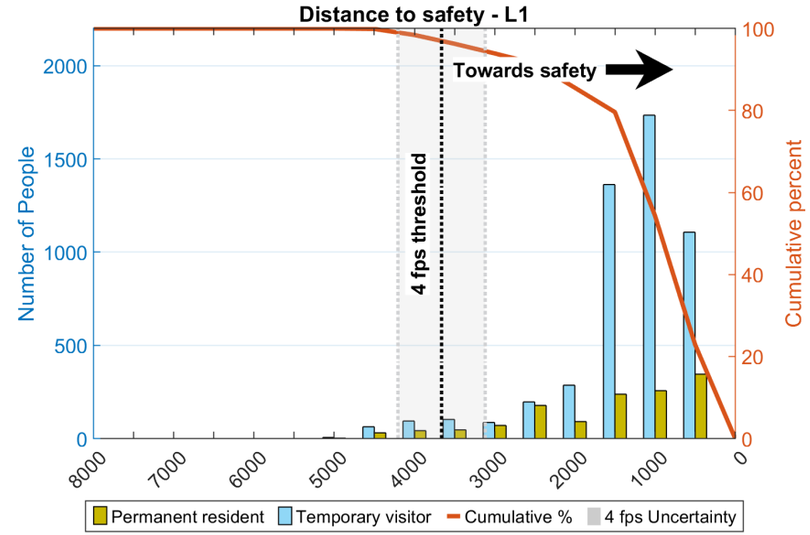

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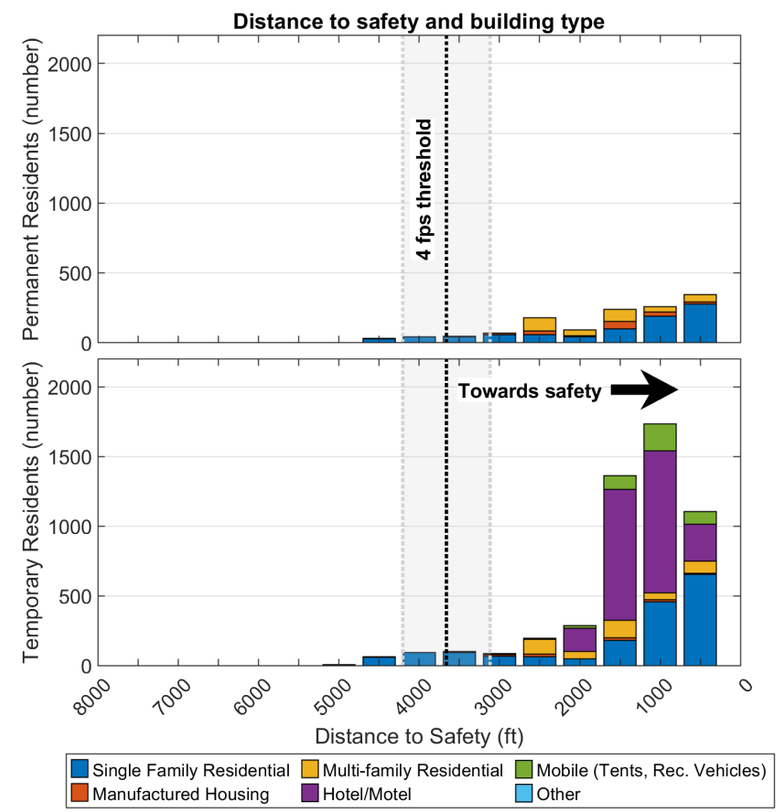

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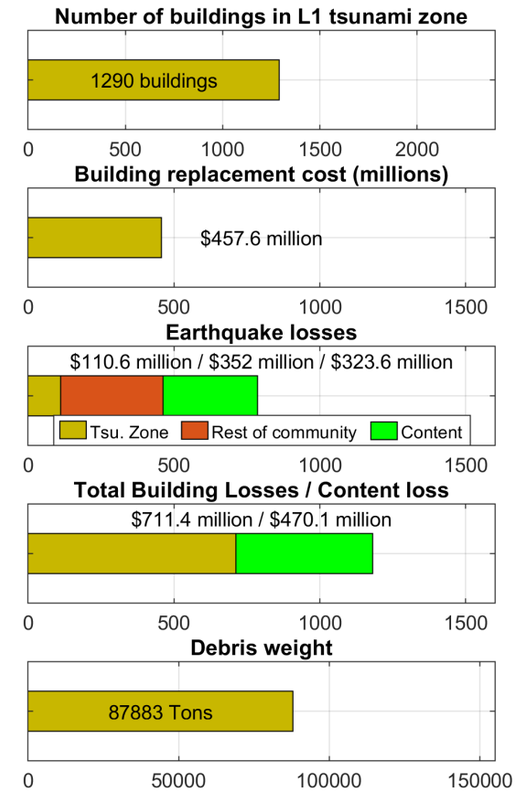

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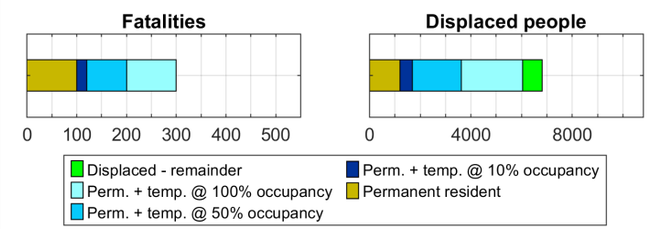
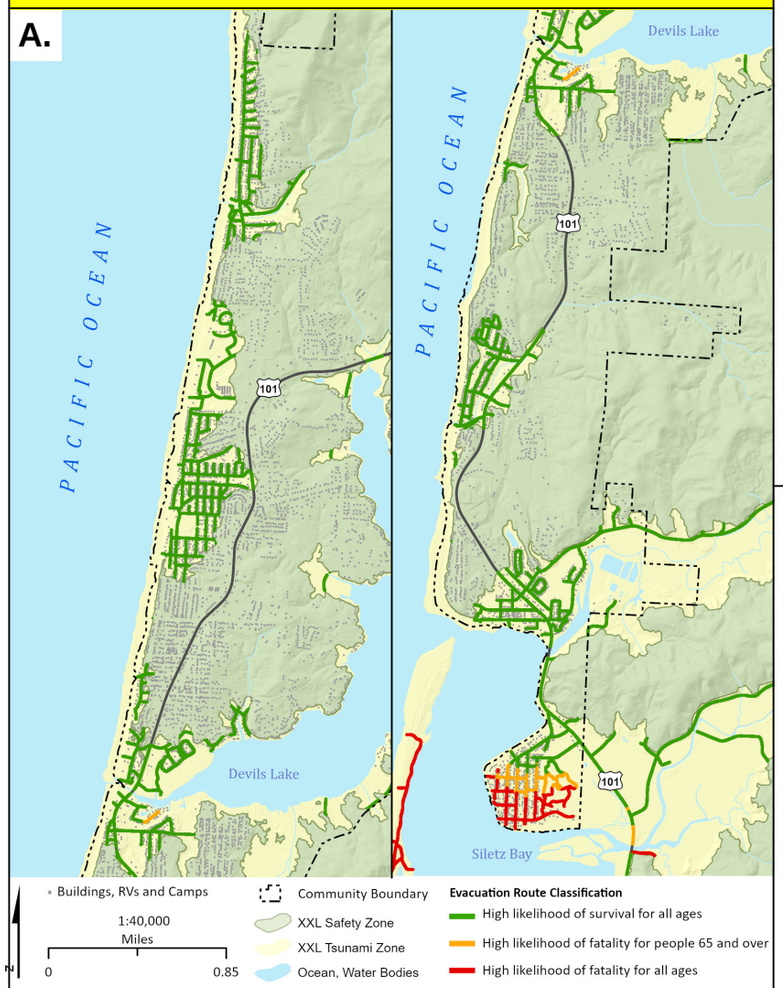


Description	Total
Earthquake Injuries (Entire Community)	290
Tsunami Injuries - Permanent + Temporary	70
Tsunami Fatalities - Permanent	100
Tsunami Fatalities - Temporary @ ~100% occupancy	200
Displaced Population - Permanent	1,610
Displaced Population - Permanent + Temporary	6,810

Lincoln City - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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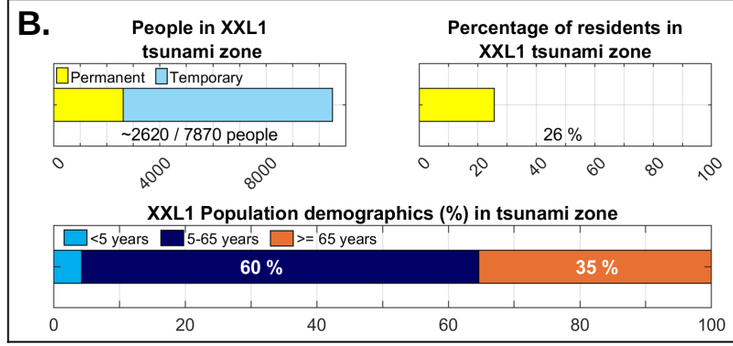

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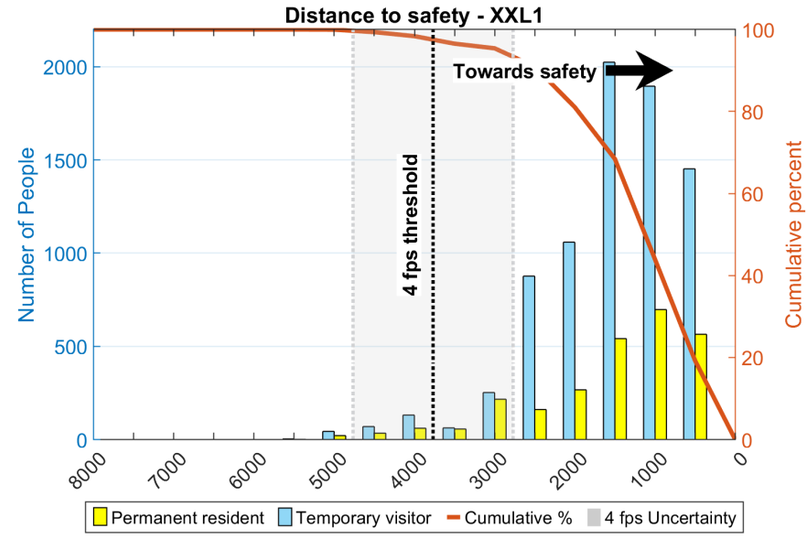

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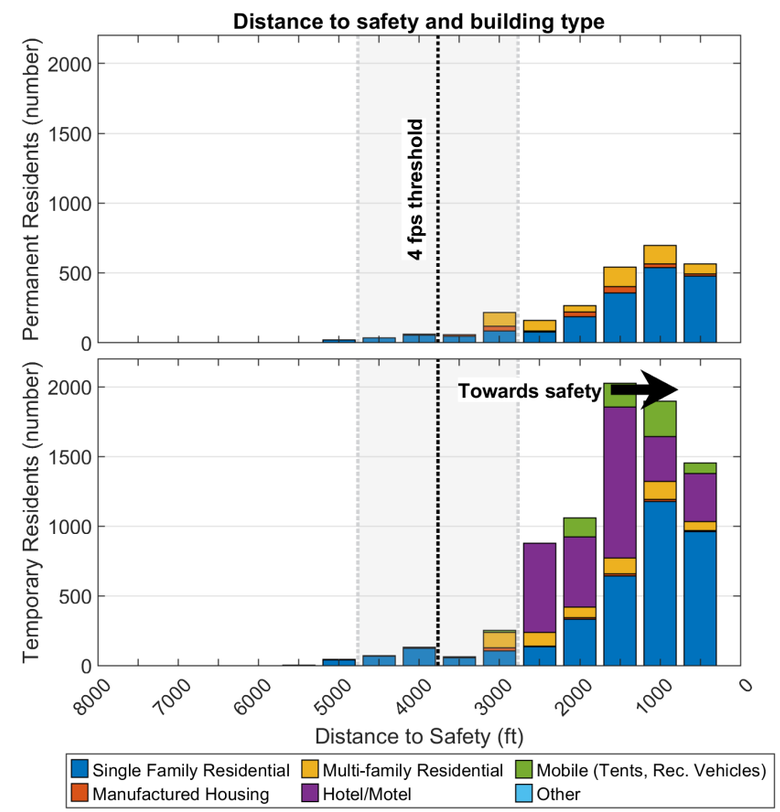

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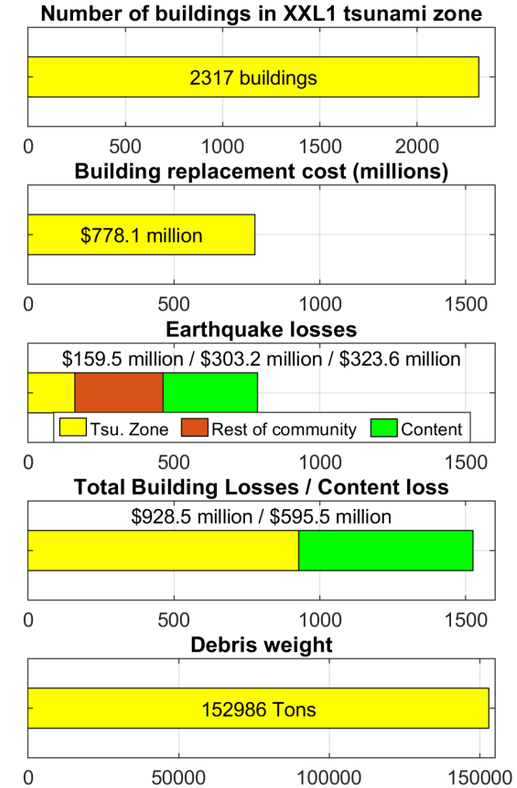

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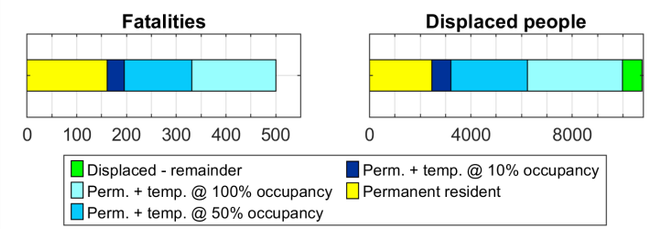
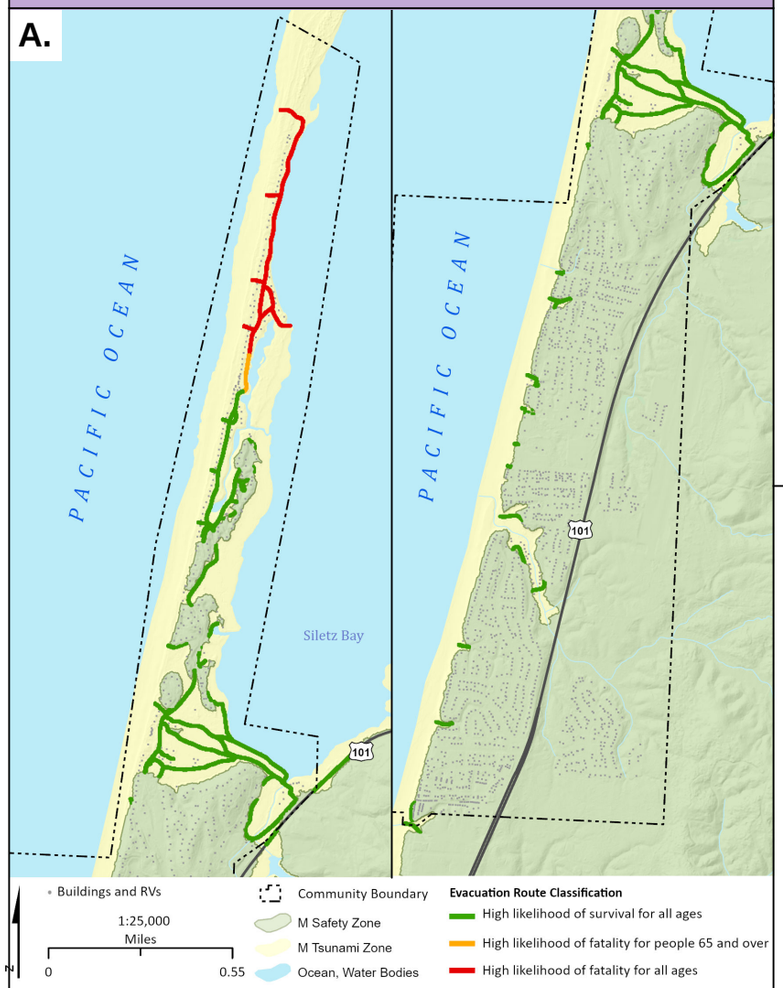


Description	Total
Earthquake Injuries (Entire Community)	290
Tsunami Injuries - Permanent + Temporary	100
Tsunami Fatalities - Permanent	160
Tsunami Fatalities - Temporary @ ~100% occupancy	340
Displaced Population - Permanent	2,850
Displaced Population - Permanent + Temporary	10,740

Gleneden Beach - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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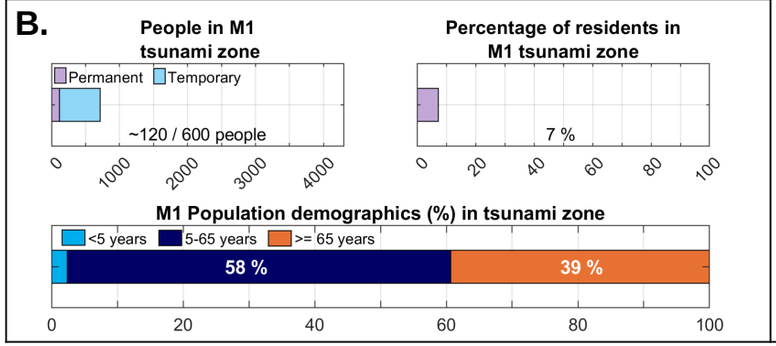

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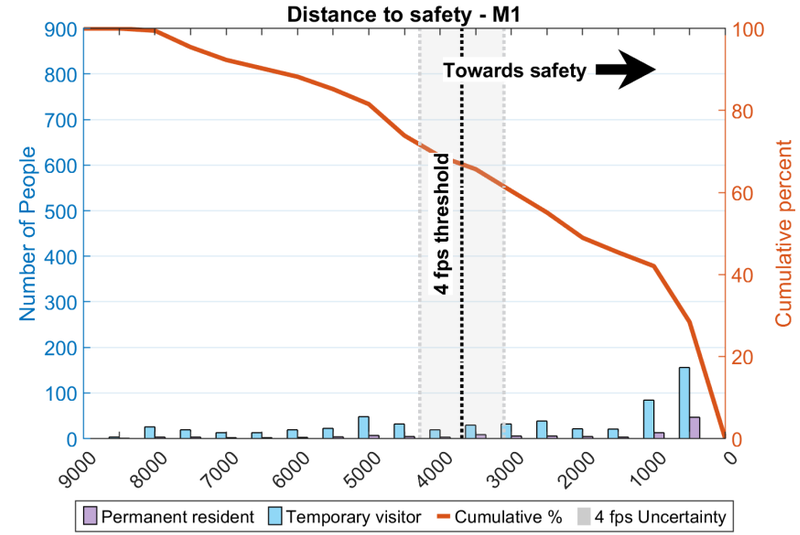

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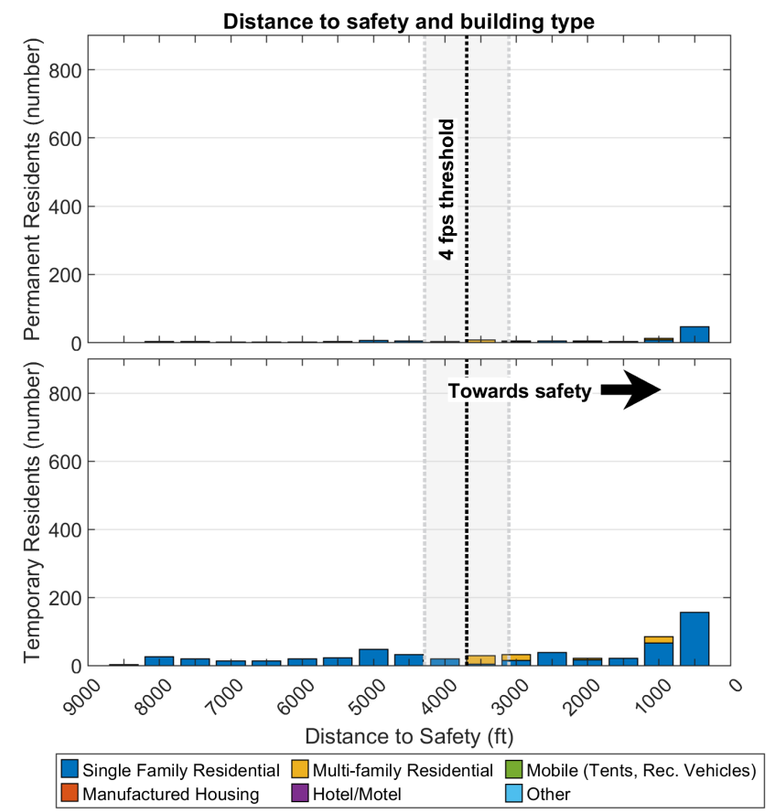

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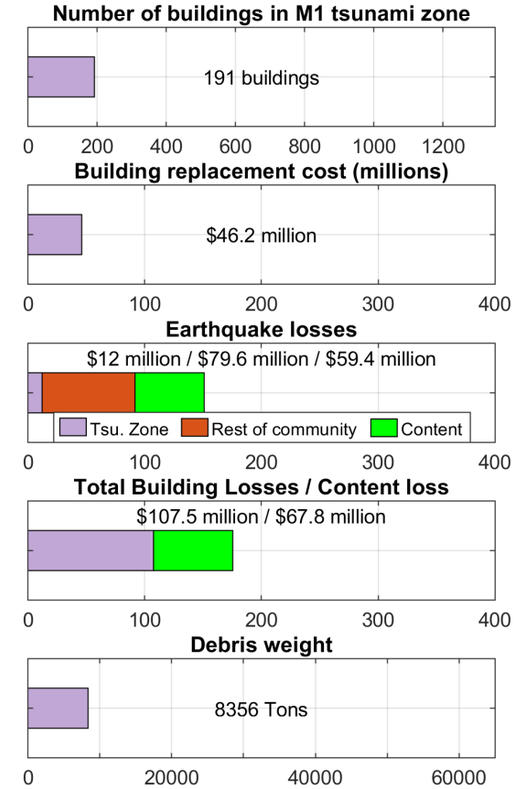

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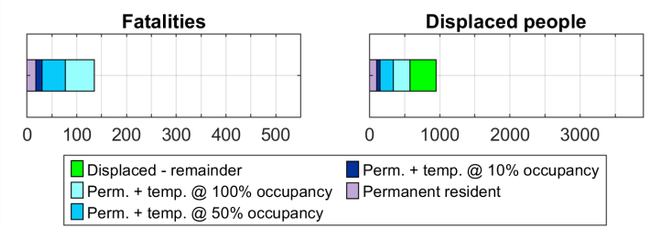
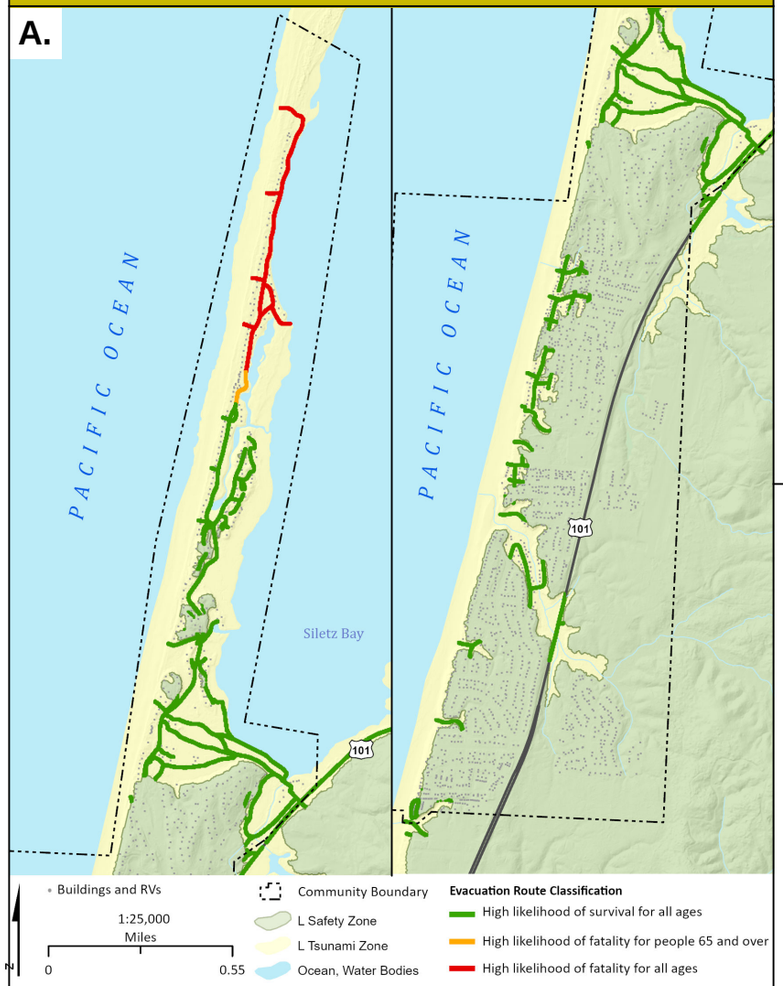


Description	Total
Earthquake Injuries (Entire Community)	90
Tsunami Injuries - Permanent + Temporary	130
Tsunami Fatalities - Permanent	20
Tsunami Fatalities - Temporary @ ~100% occupancy	120
Displaced Population - Permanent	290
Displaced Population - Permanent + Temporary	950

Gleneden Beach - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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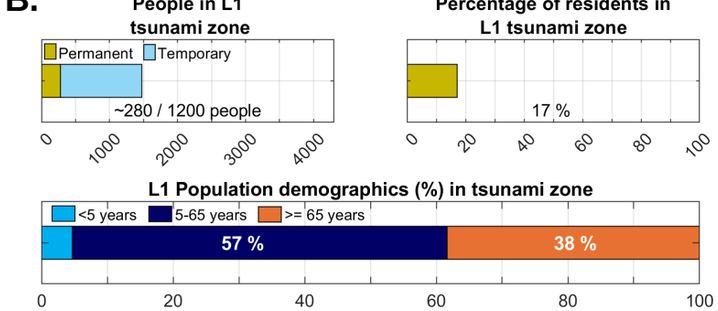

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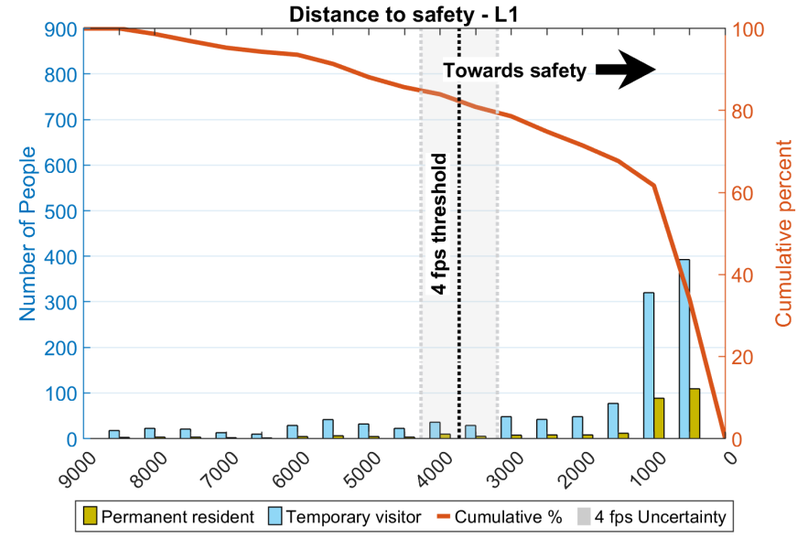

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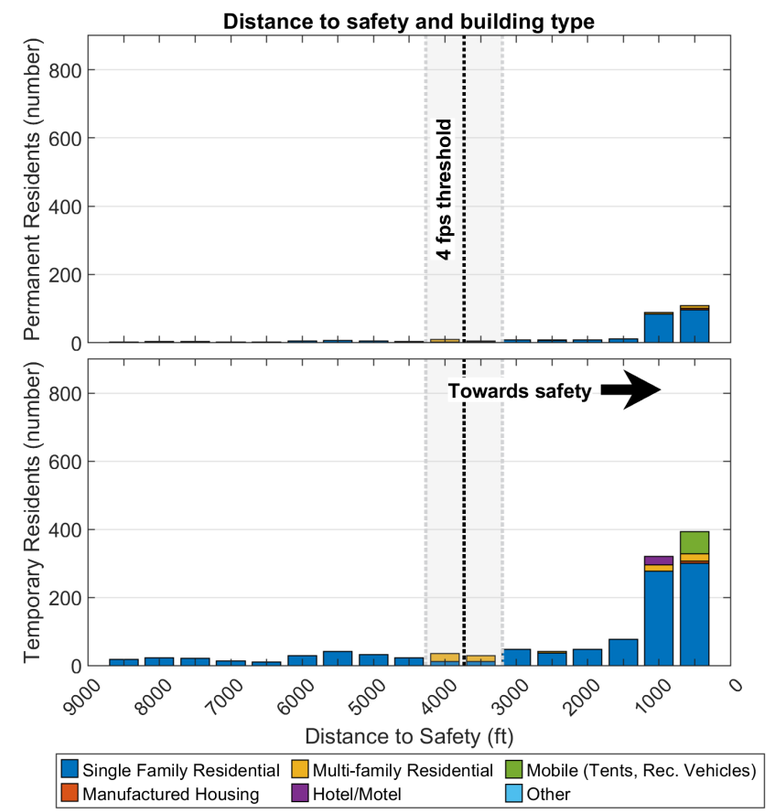

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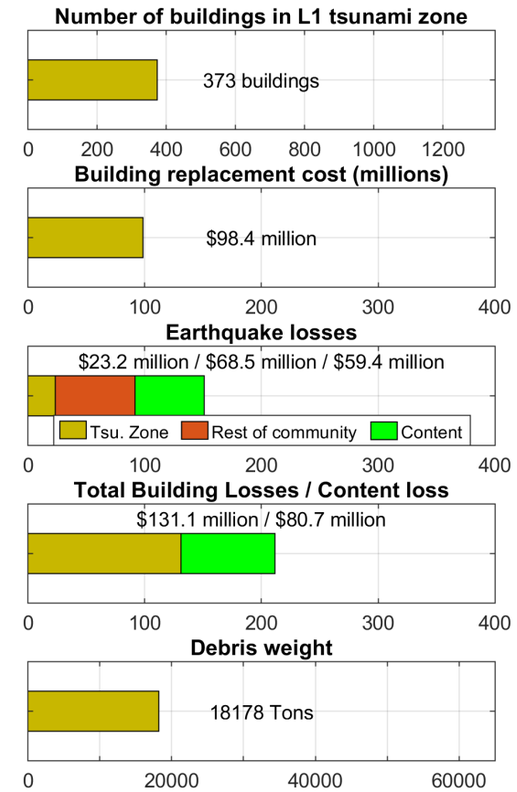

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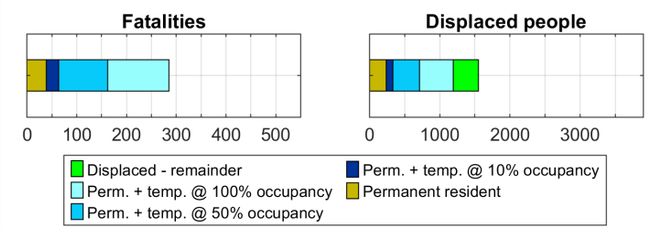
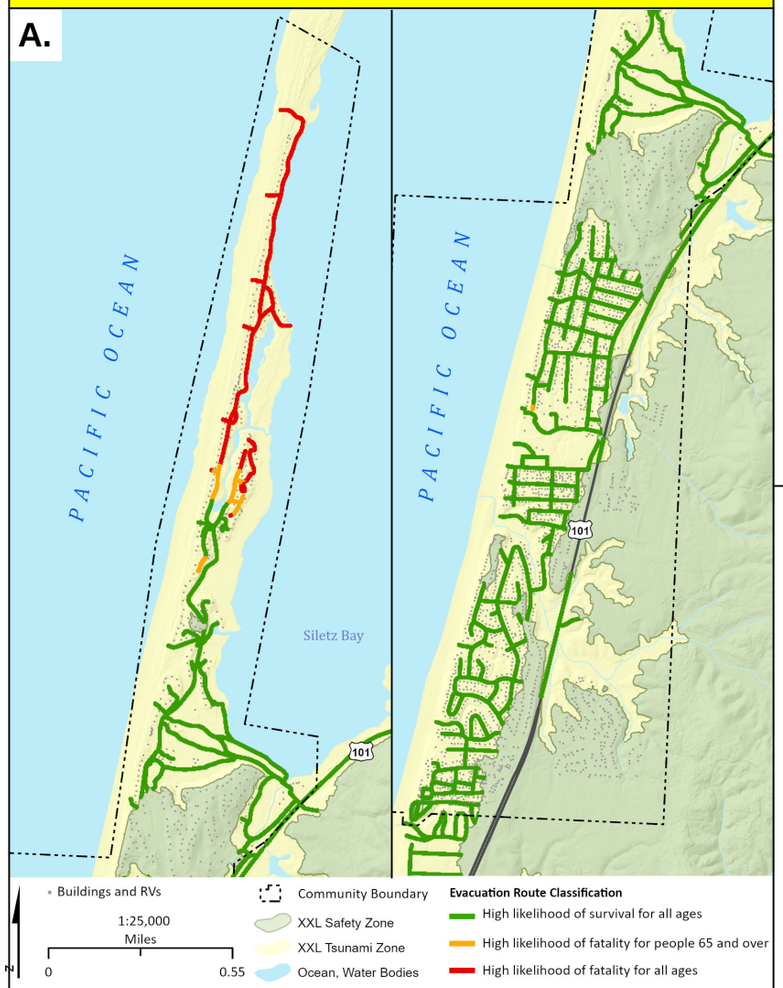


Description	Total
Earthquake Injuries (Entire Community)	90
Tsunami Injuries - Permanent + Temporary	20
Tsunami Fatalities - Permanent	40
Tsunami Fatalities - Temporary @ ~100% occupancy	250
Displaced Population - Permanent	420
Displaced Population - Permanent + Temporary	1,550

Gleneden Beach - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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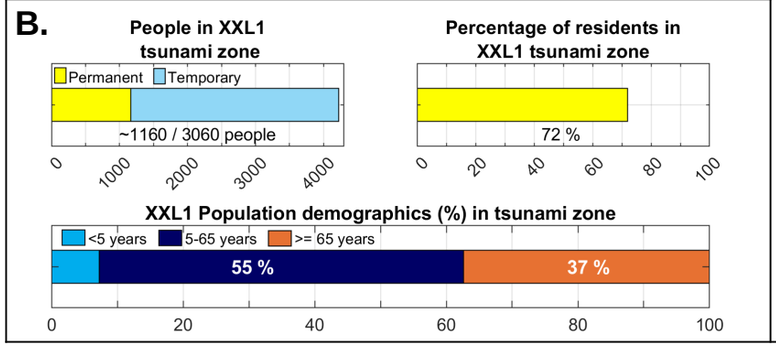

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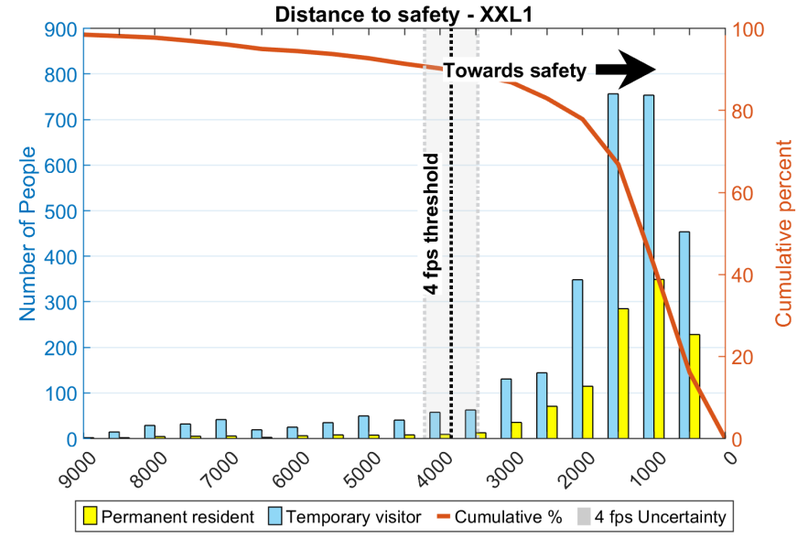

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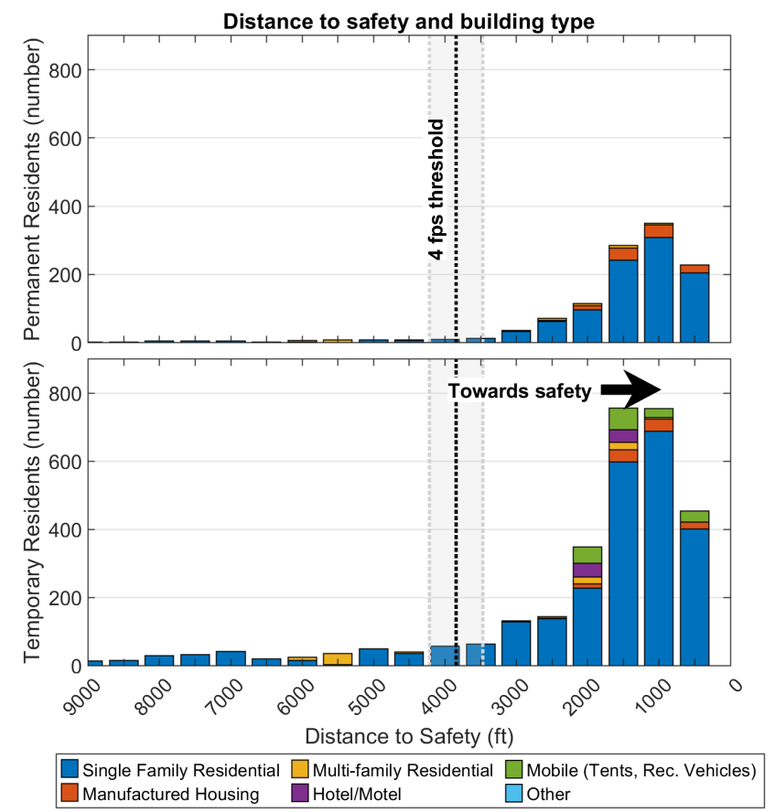

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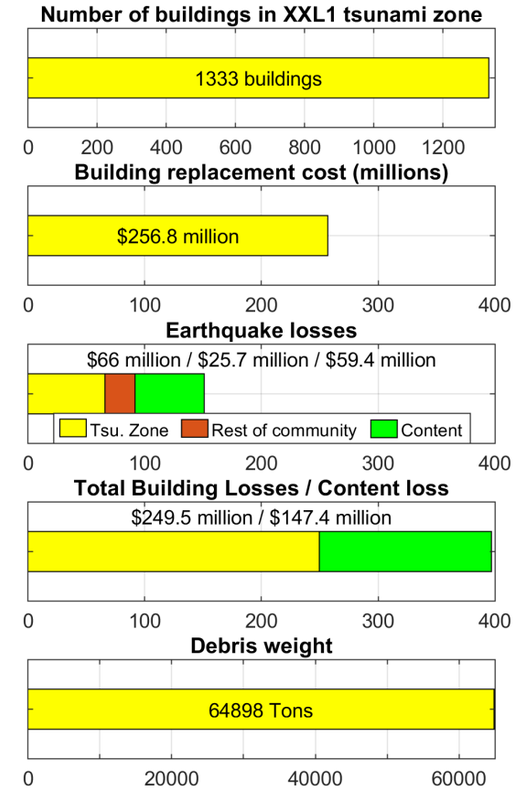

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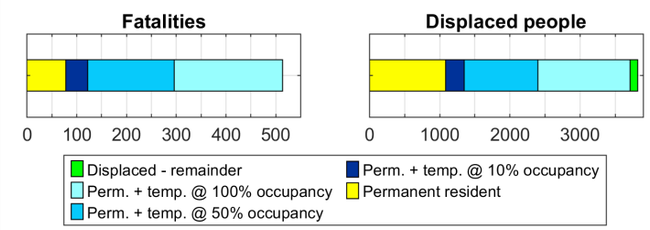
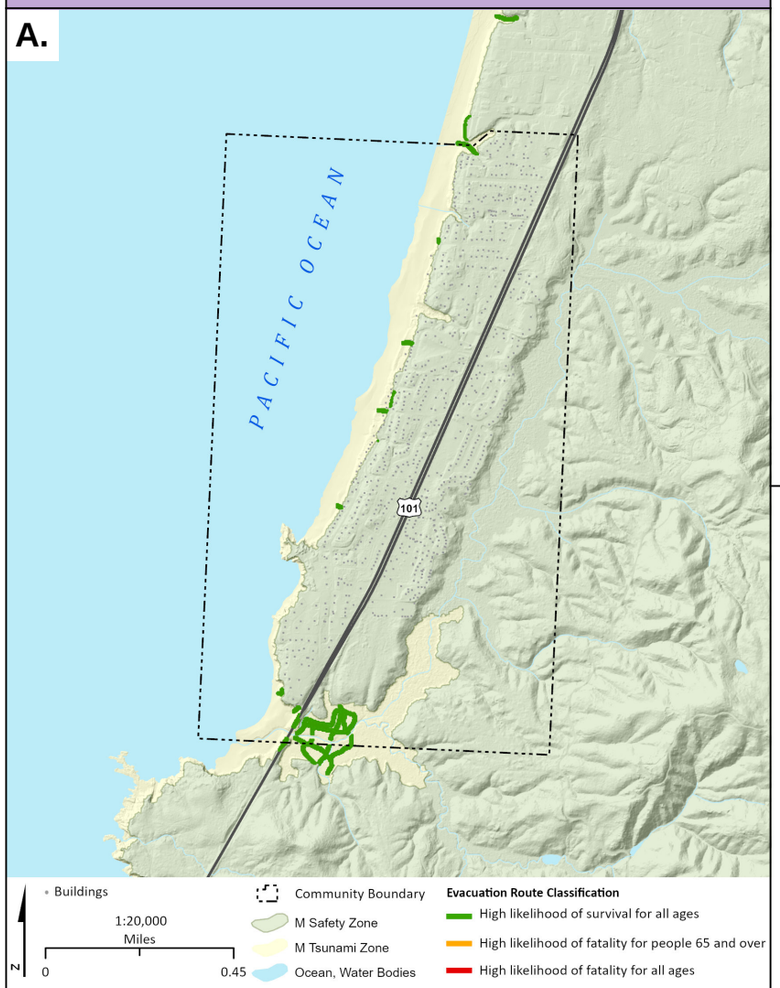


Description	Total
Earthquake Injuries (Entire Community)	90
Tsunami Injuries - Permanent + Temporary	50
Tsunami Fatalities - Permanent	80
Tsunami Fatalities - Temporary @ ~100% occupancy	440
Displaced Population - Permanent	1,160
Displaced Population - Permanent + Temporary	3,820

Lincoln Beach - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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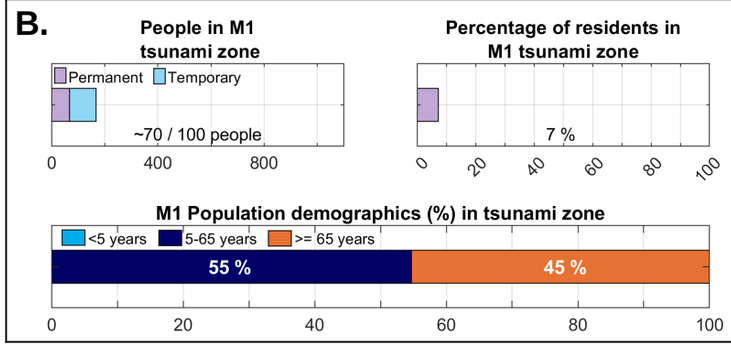

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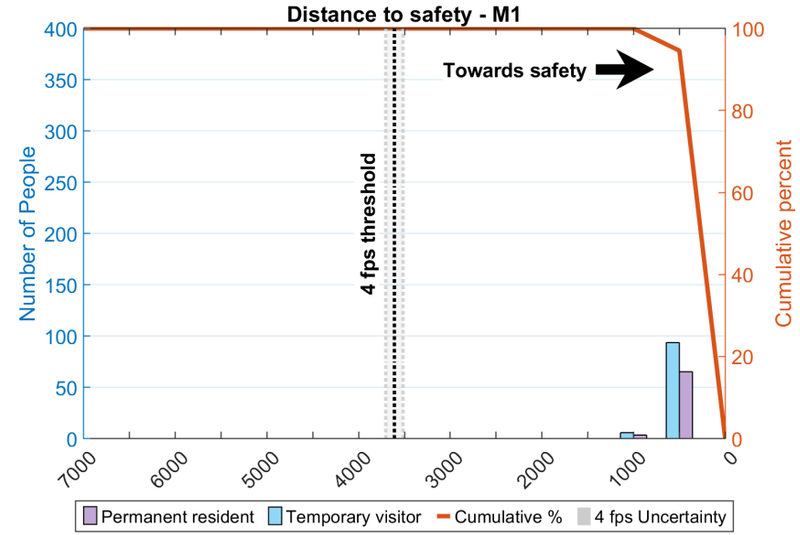

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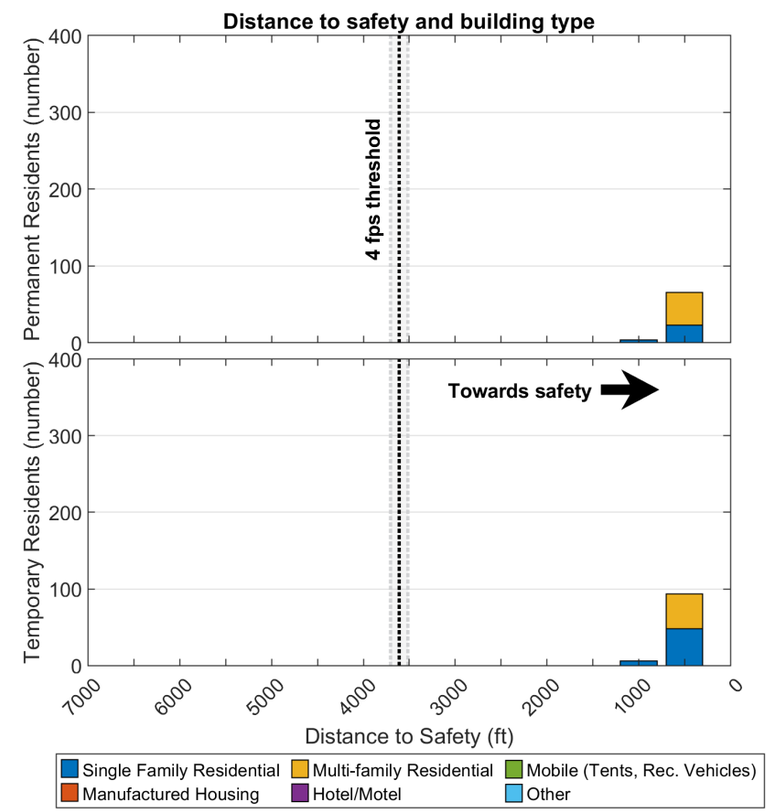

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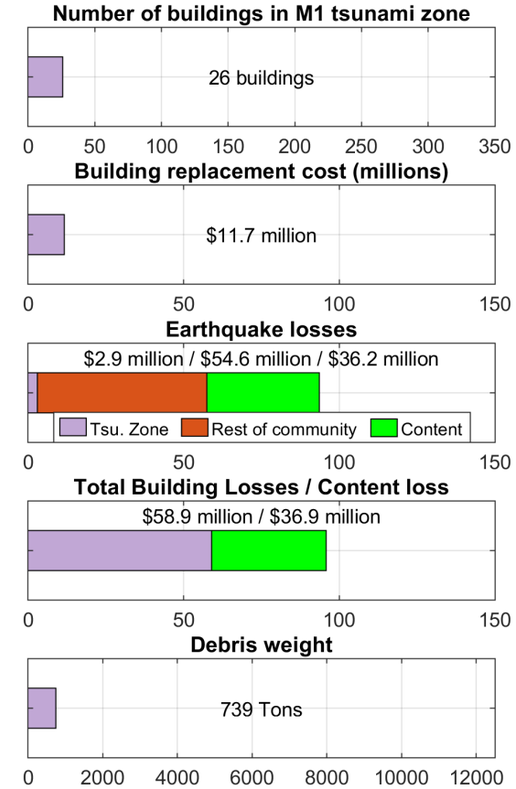

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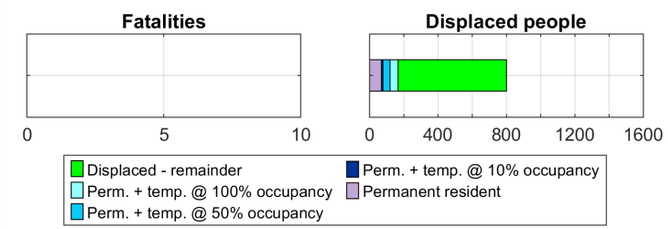
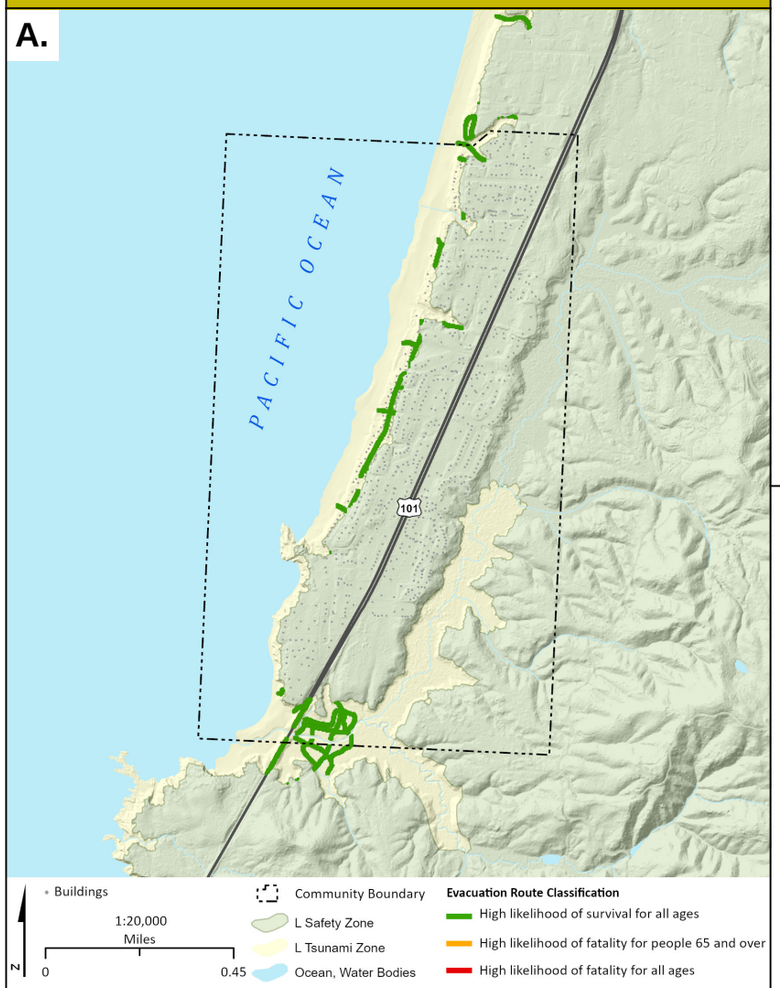


Description	Total
Earthquake Injuries (Entire Community)	70
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	390
Displaced Population - Permanent + Temporary	800

Lincoln Beach - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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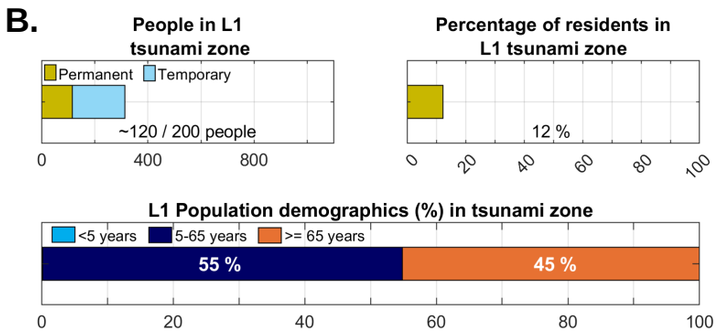

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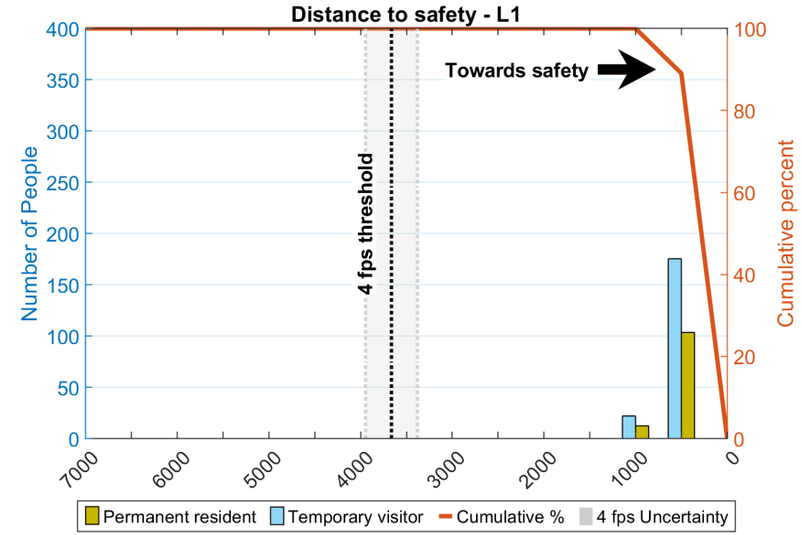

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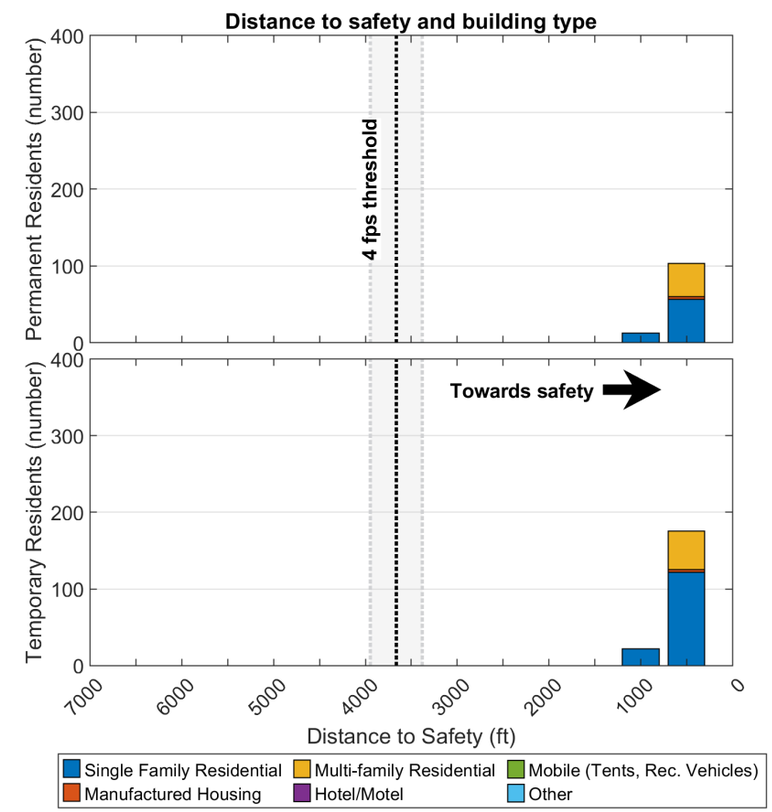

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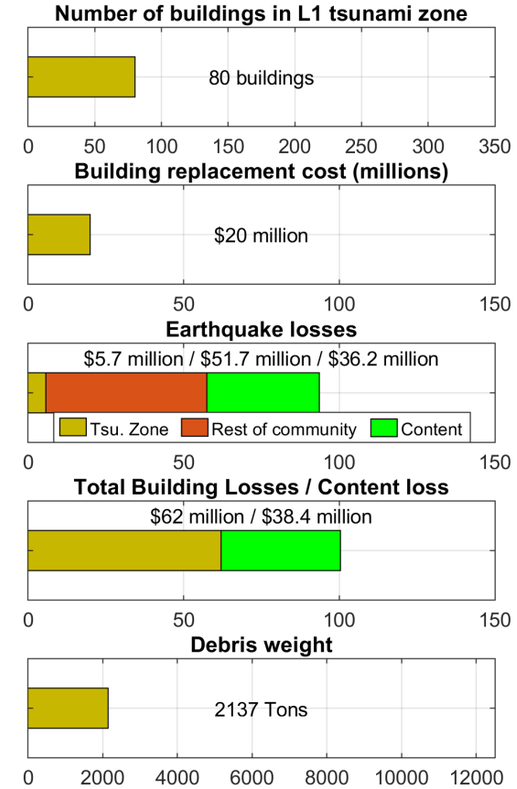

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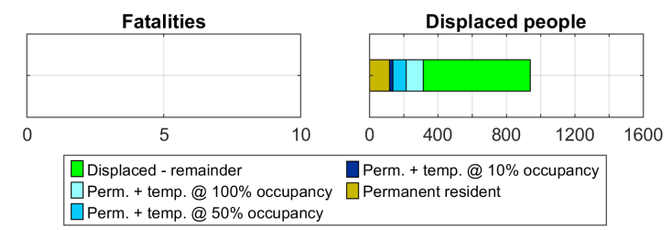
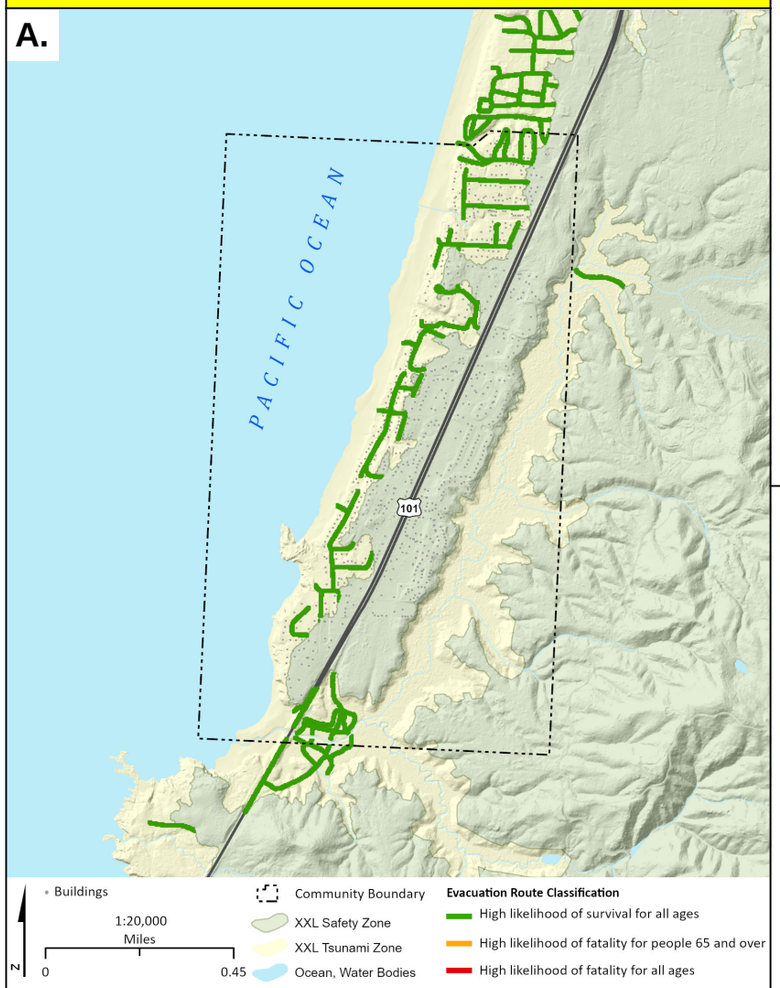


Description	Total
Earthquake Injuries (Entire Community)	70
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	430
Displaced Population - Permanent + Temporary	940

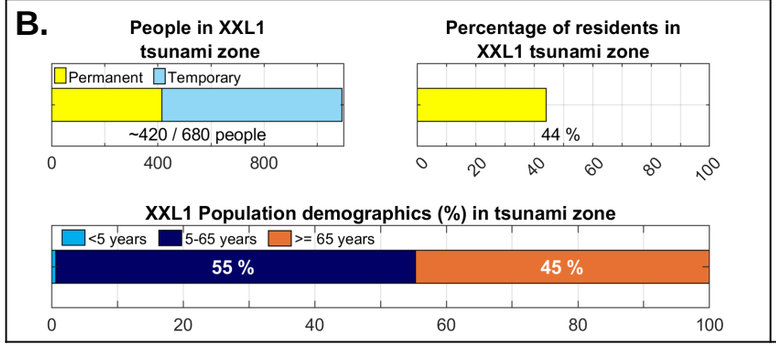
Lincoln Beach - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

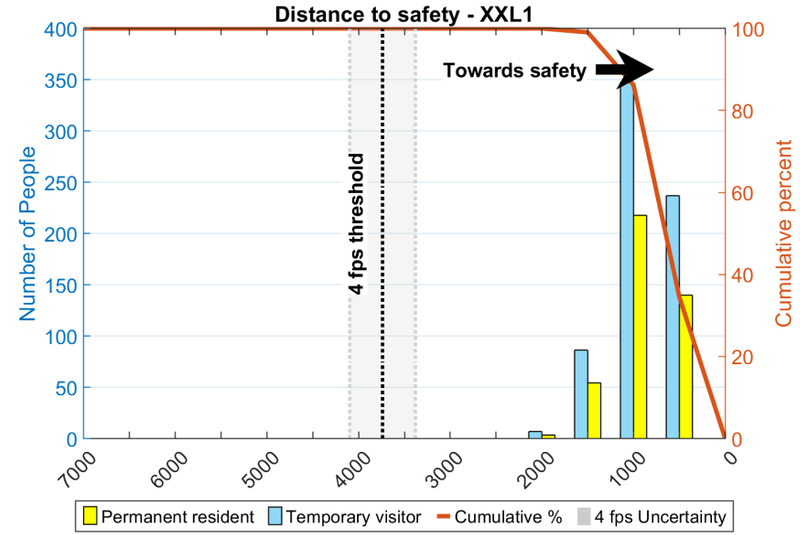
A.



B.



C.



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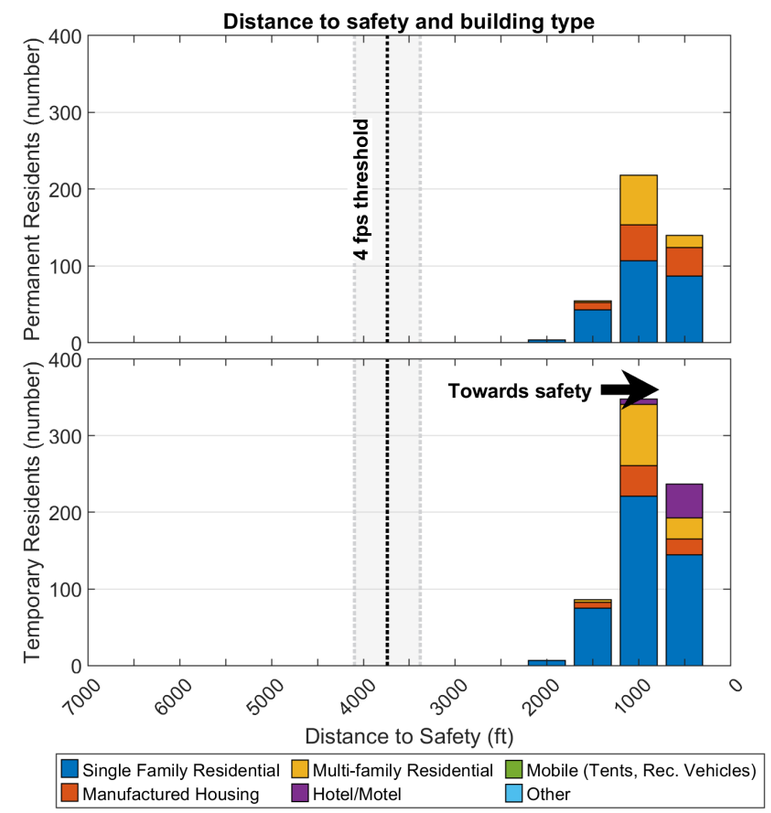

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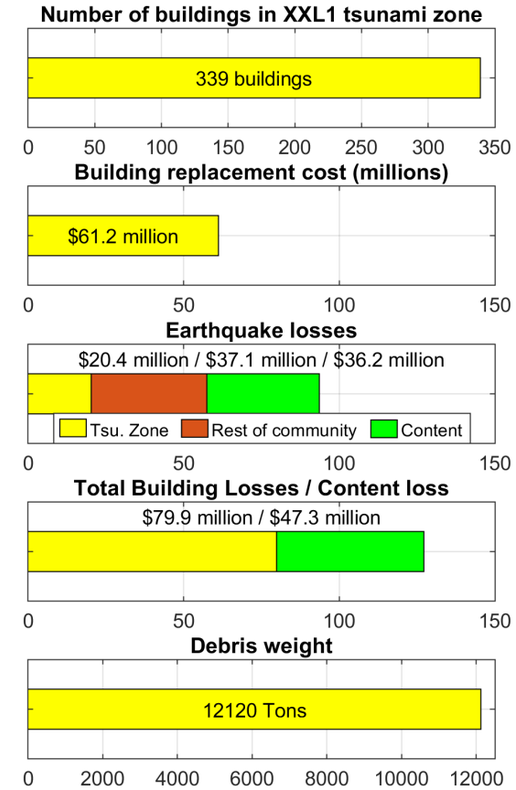
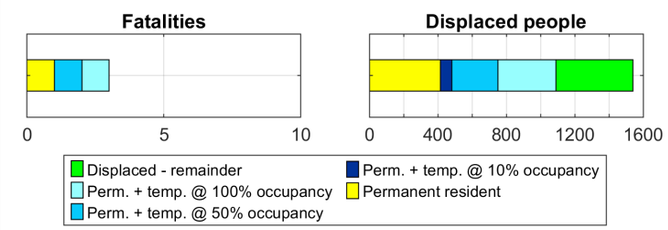


F.

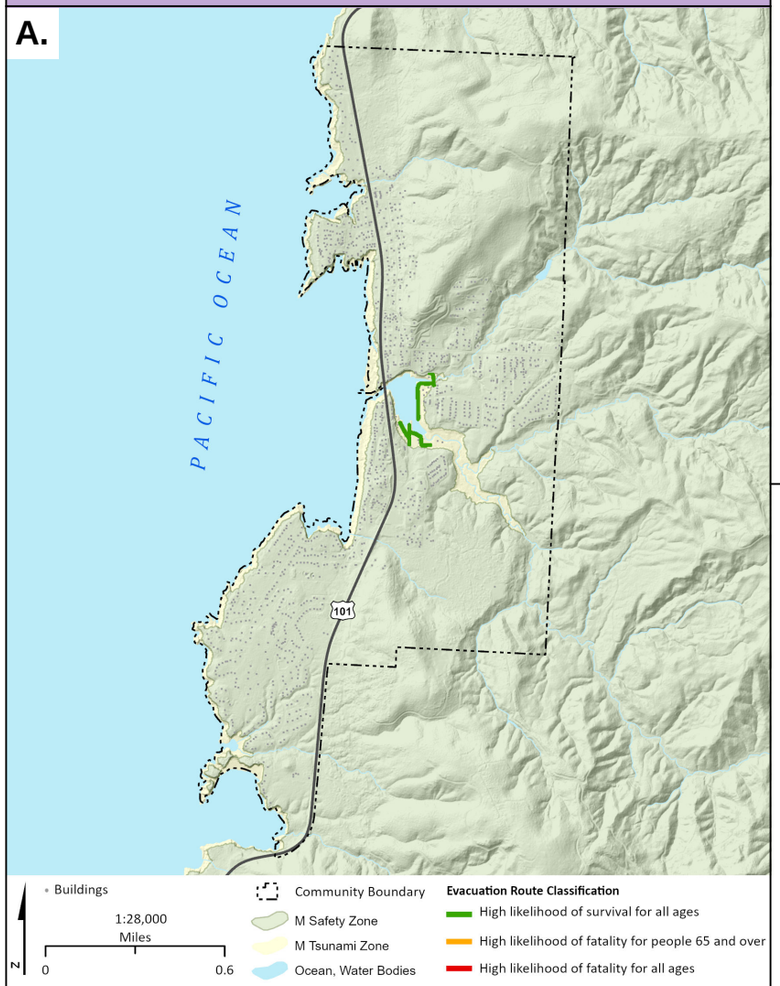


Description	Total
Earthquake Injuries (Entire Community)	70
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	640
Displaced Population - Permanent + Temporary	1,540

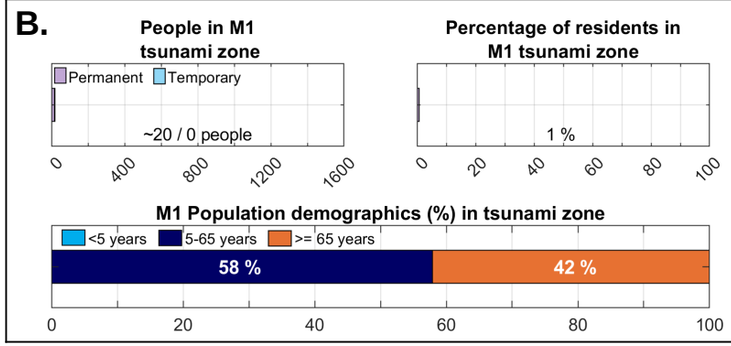
Depoe Bay - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

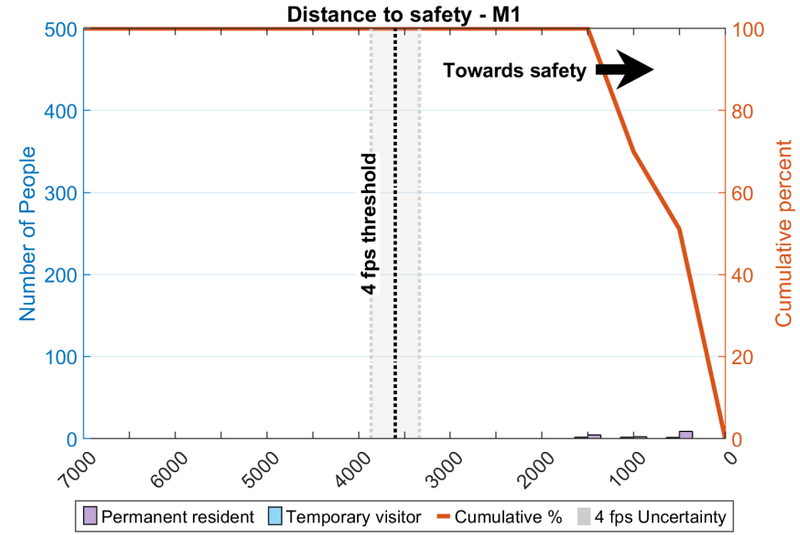
A.



B.



C.



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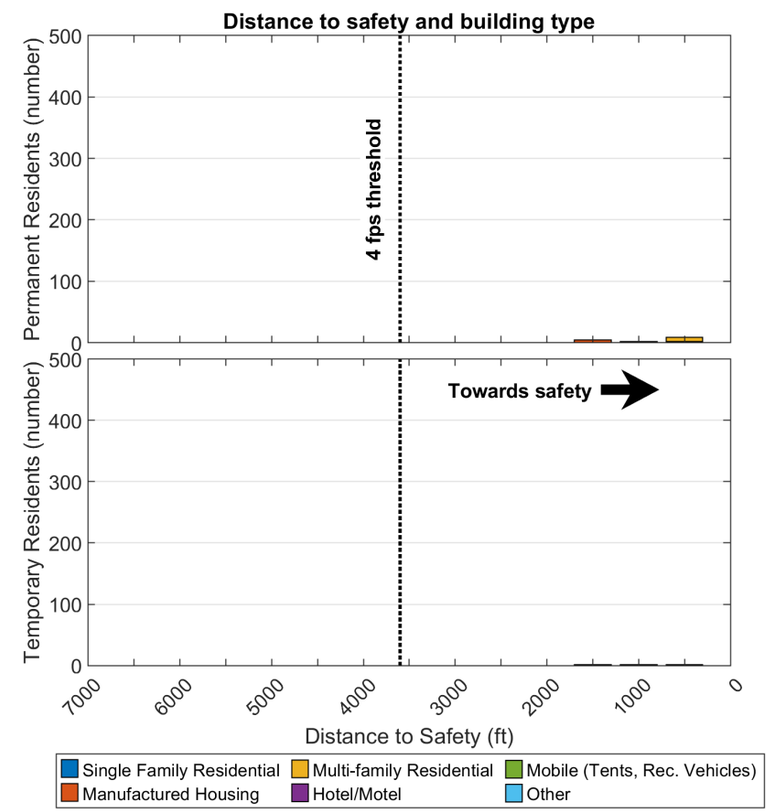

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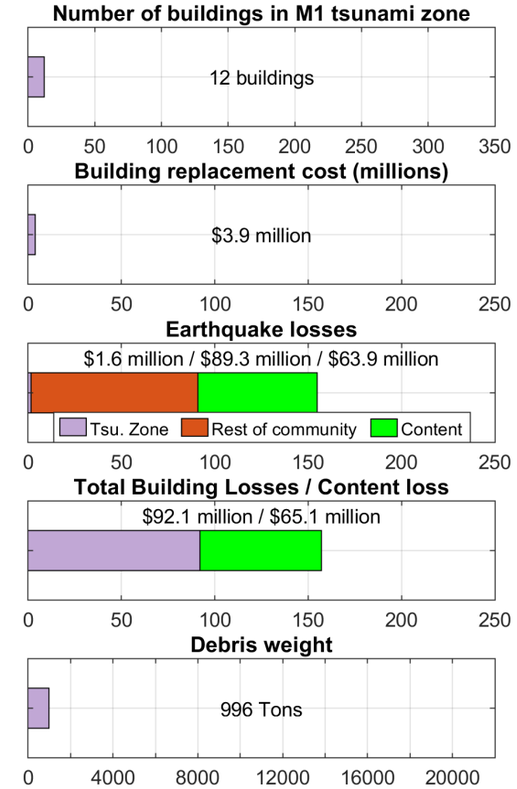


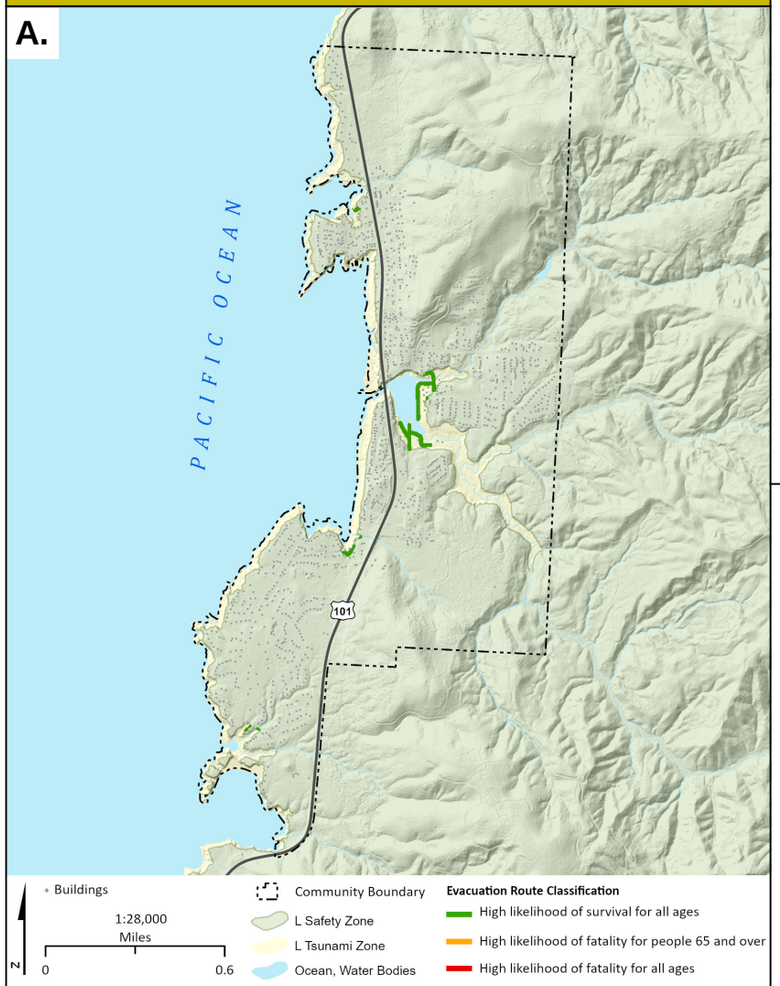
F.

Description	Total
Earthquake Injuries (Entire Community)	80
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	330
Displaced Population - Permanent + Temporary	490

Depoe Bay - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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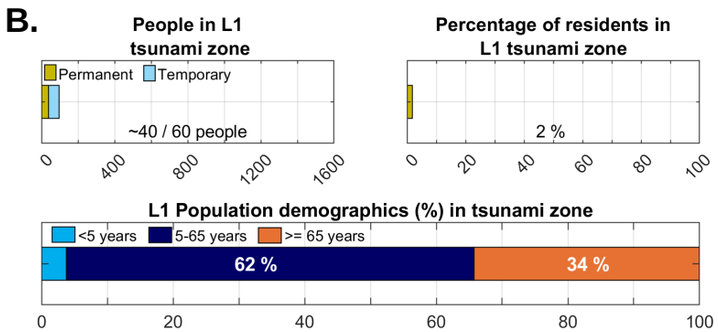

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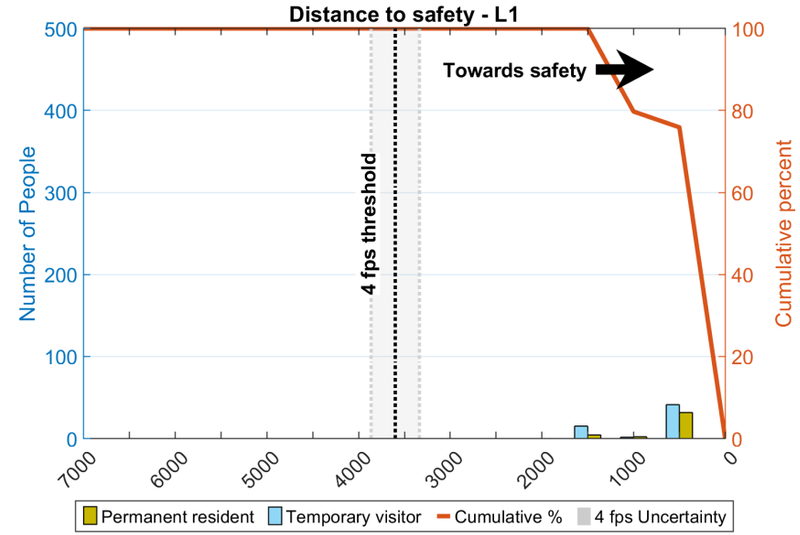

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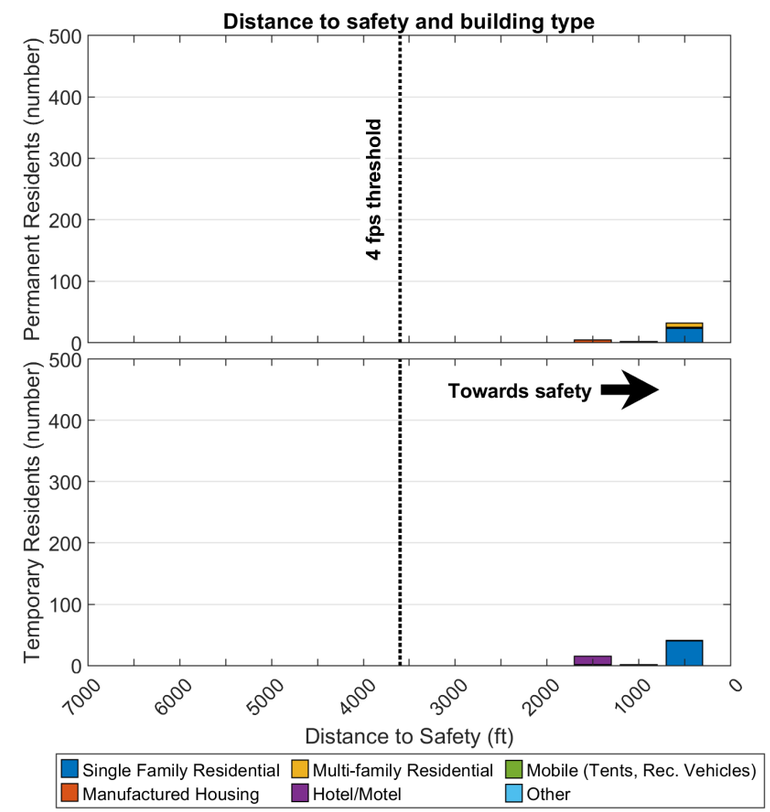

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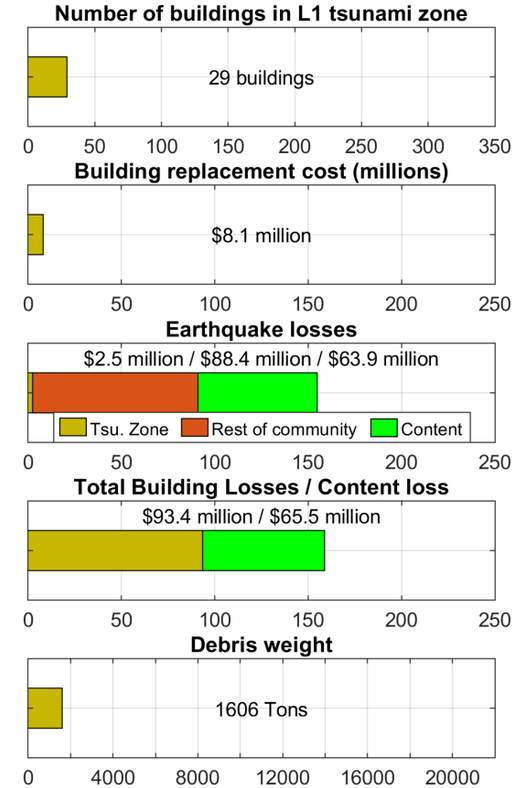

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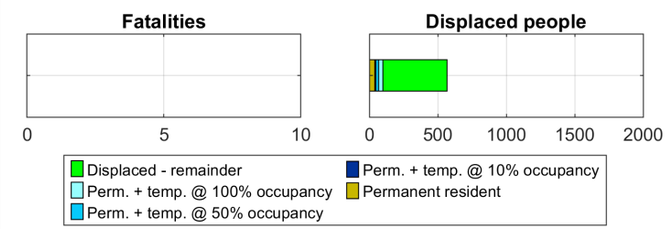
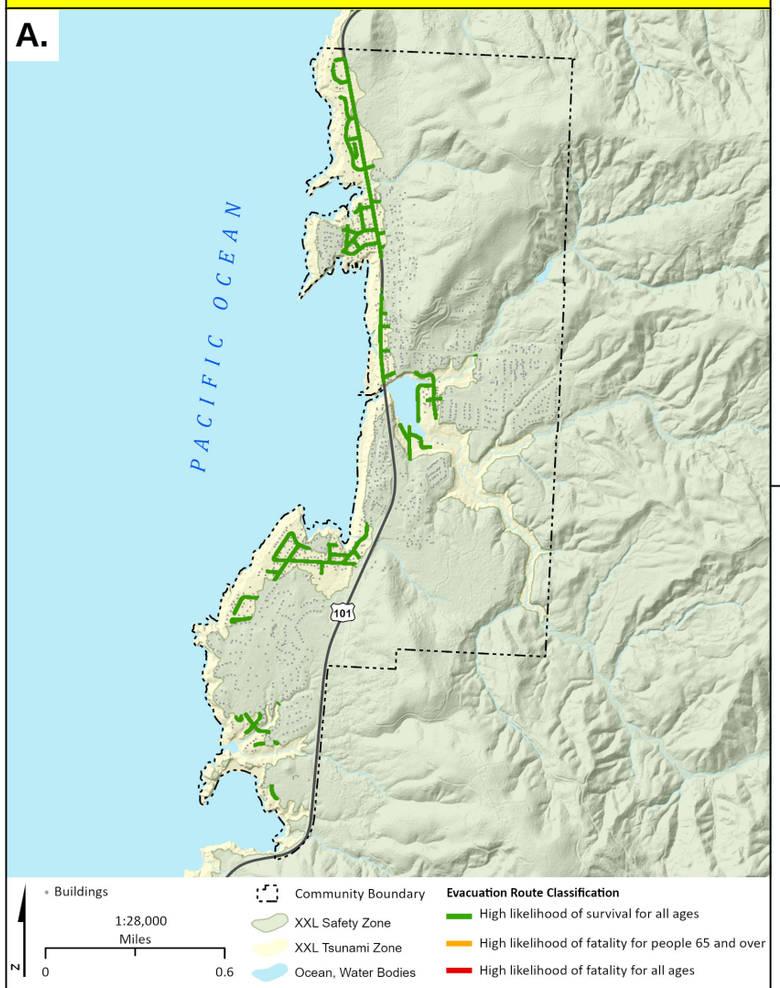


Description	Total
Earthquake Injuries (Entire Community)	80
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	360
Displaced Population - Permanent + Temporary	570

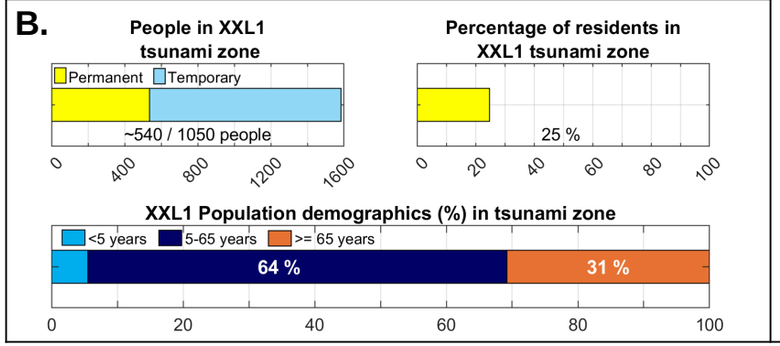
Depoe Bay - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

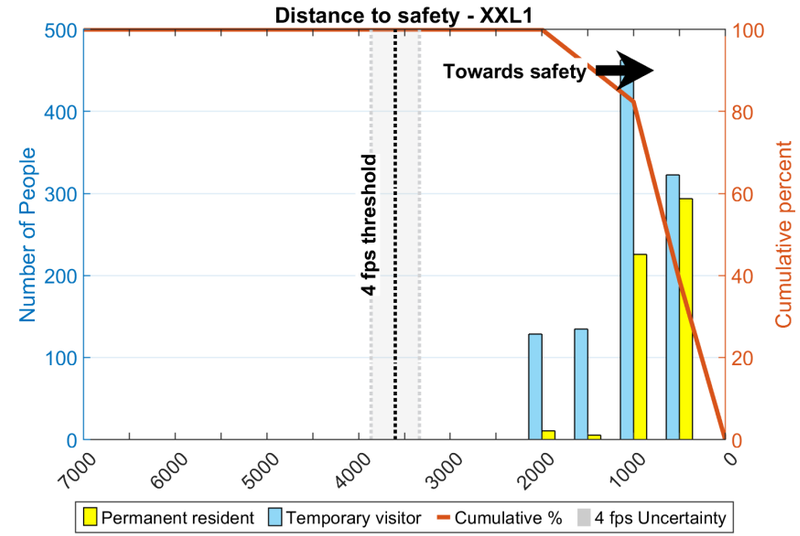
A.



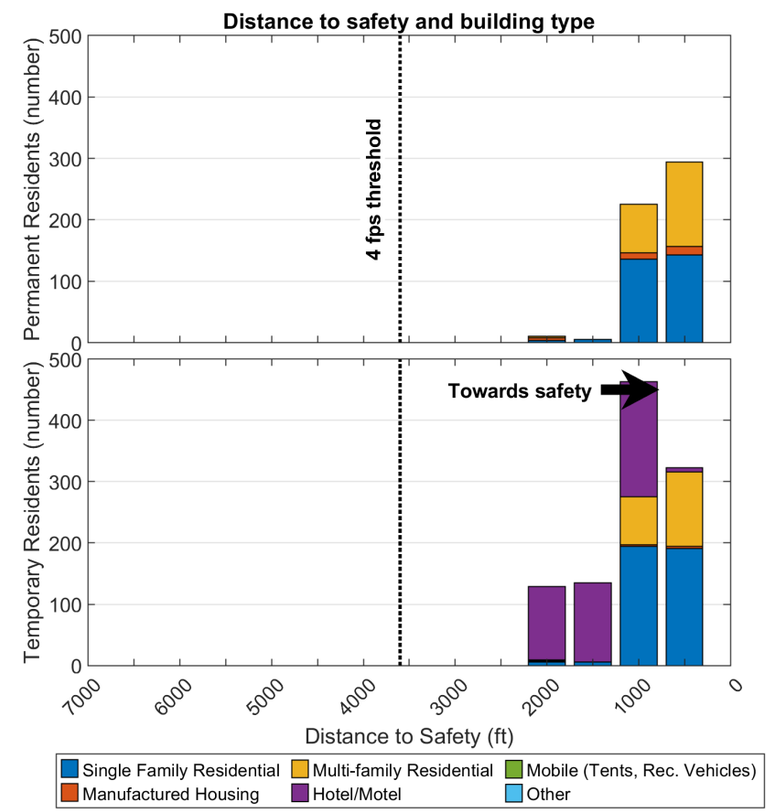
B.



C.



D.



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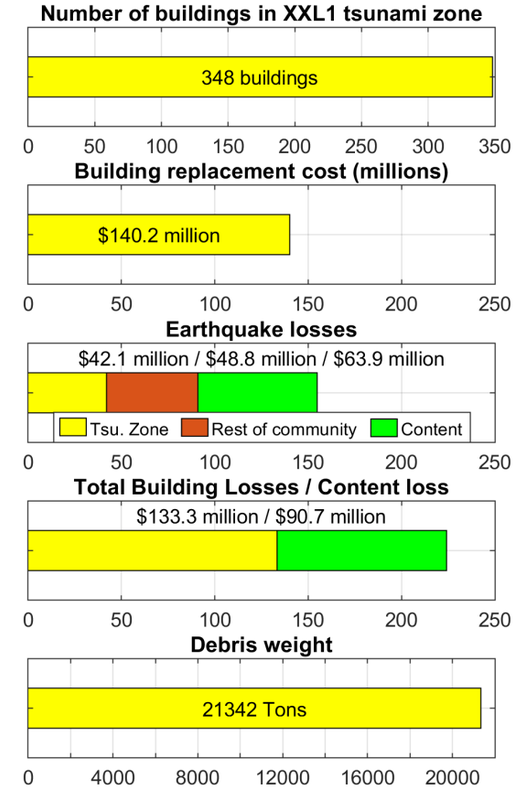

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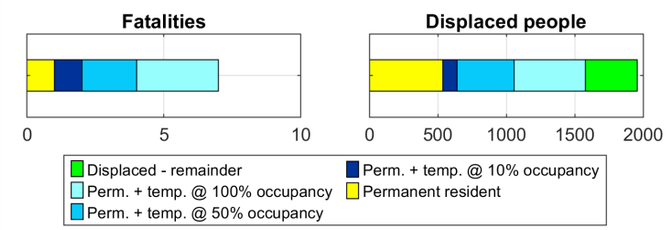
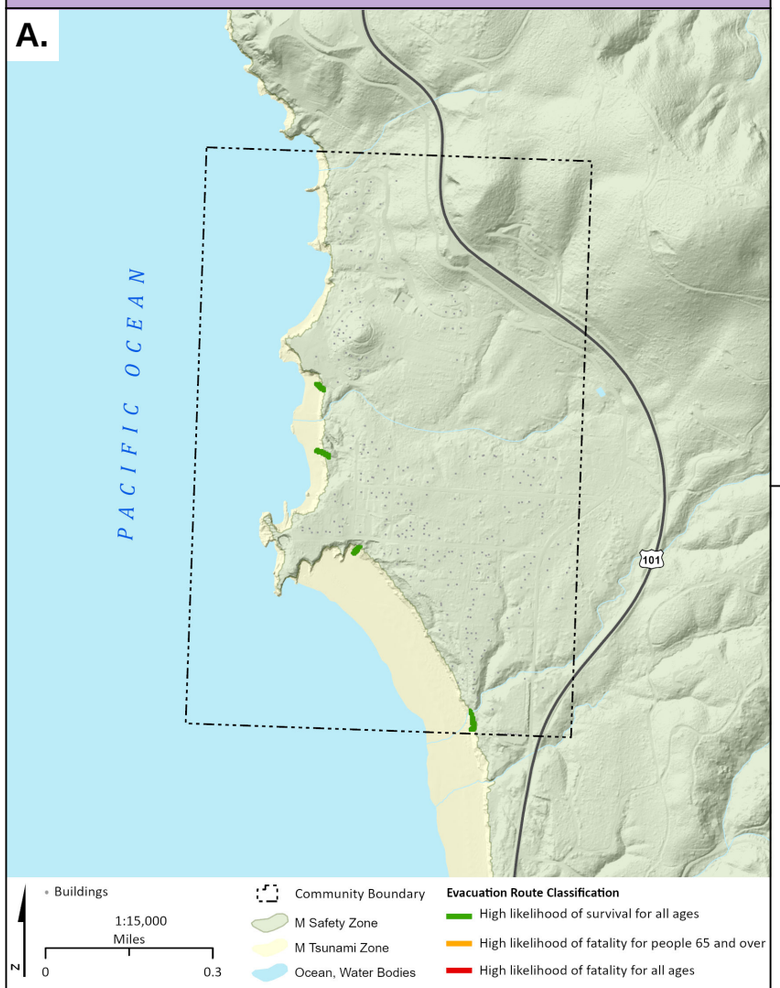


Description	Total
Earthquake Injuries (Entire Community)	80
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	10
Displaced Population - Permanent	810
Displaced Population - Permanent + Temporary	1,960

Otter Rock - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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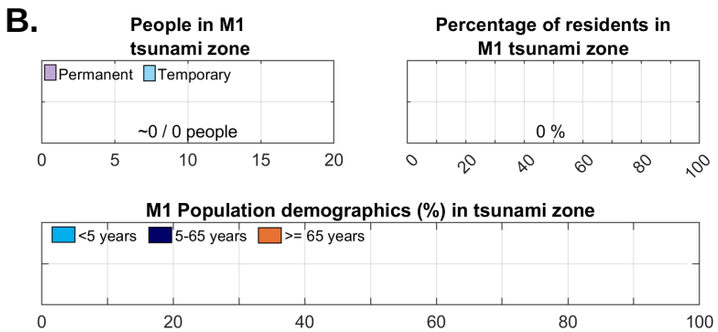

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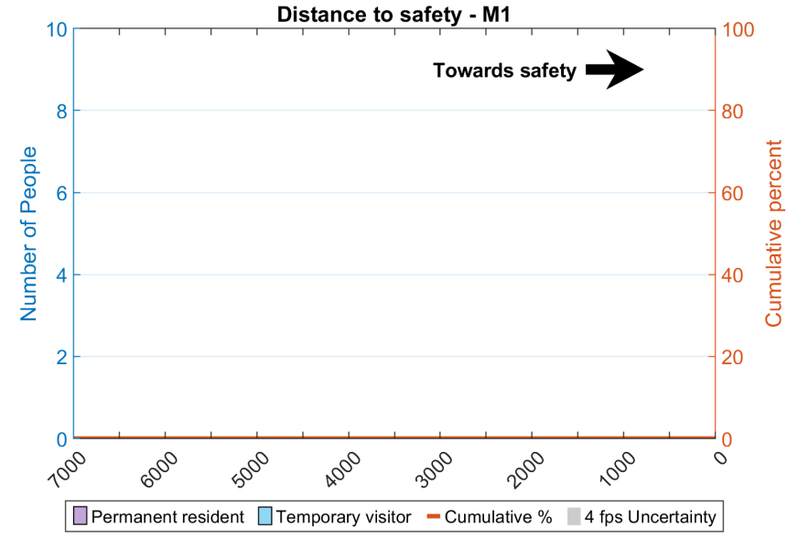
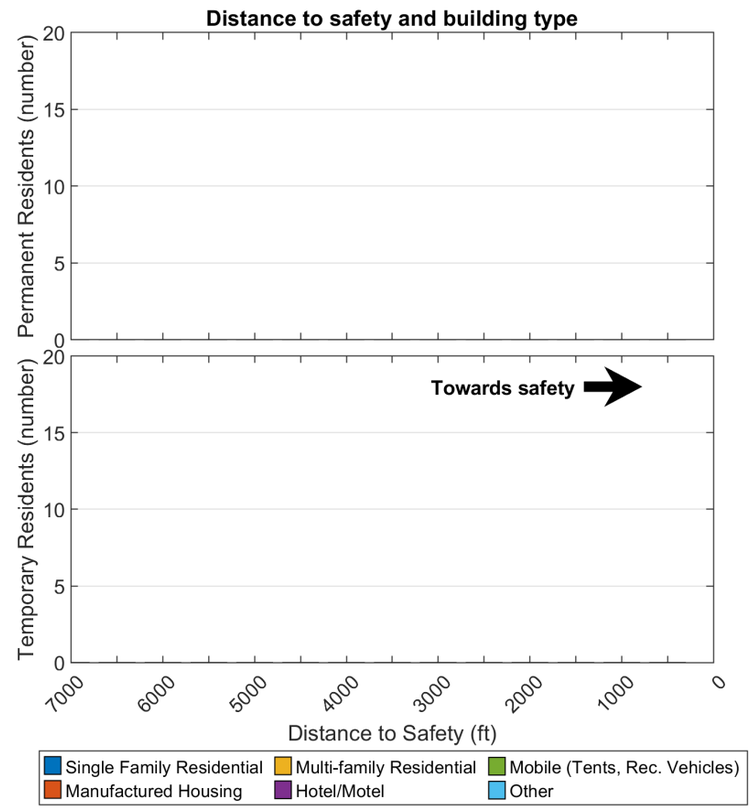
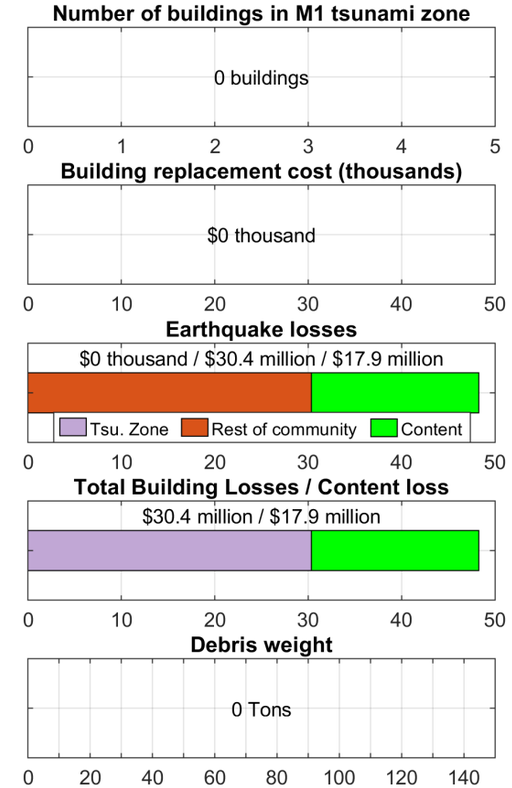


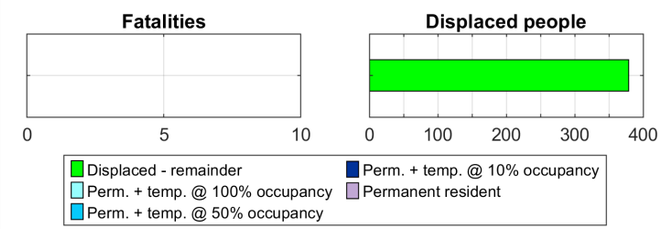
D.



E.



F.

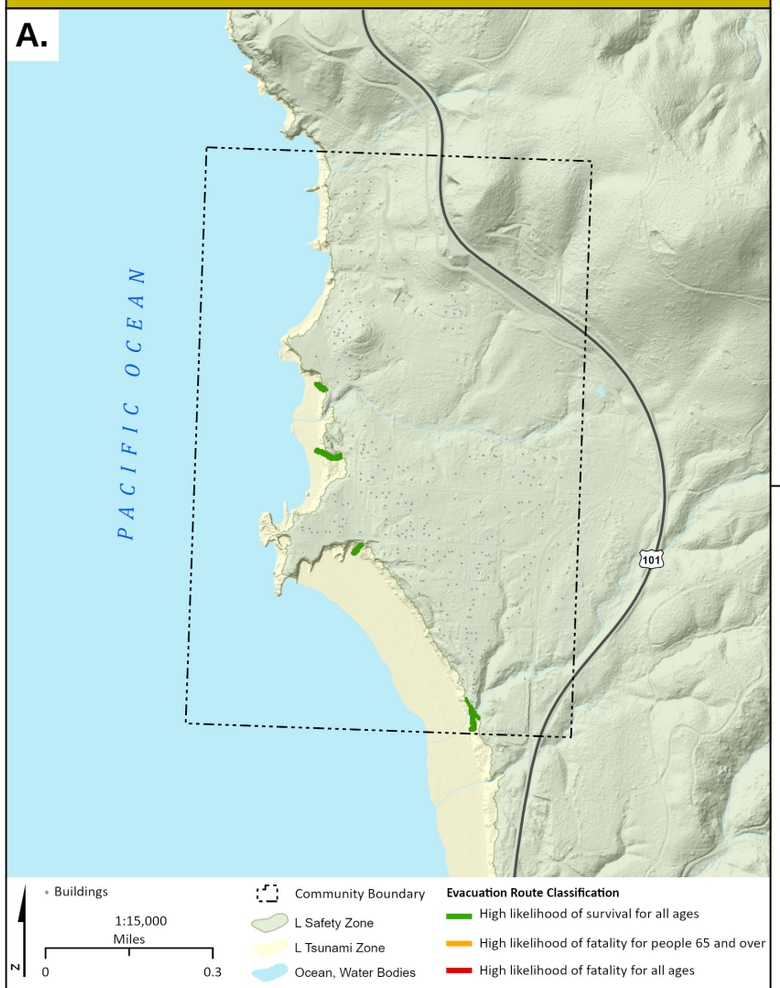


Description	Total
Earthquake Injuries (Entire Community)	40
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	10
Displaced Population - Permanent + Temporary	380

Otter Rock - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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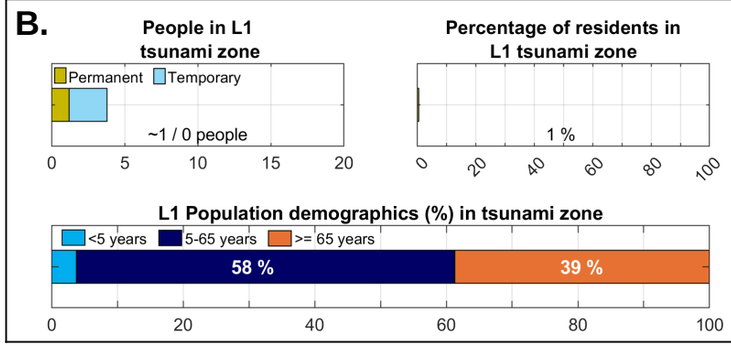

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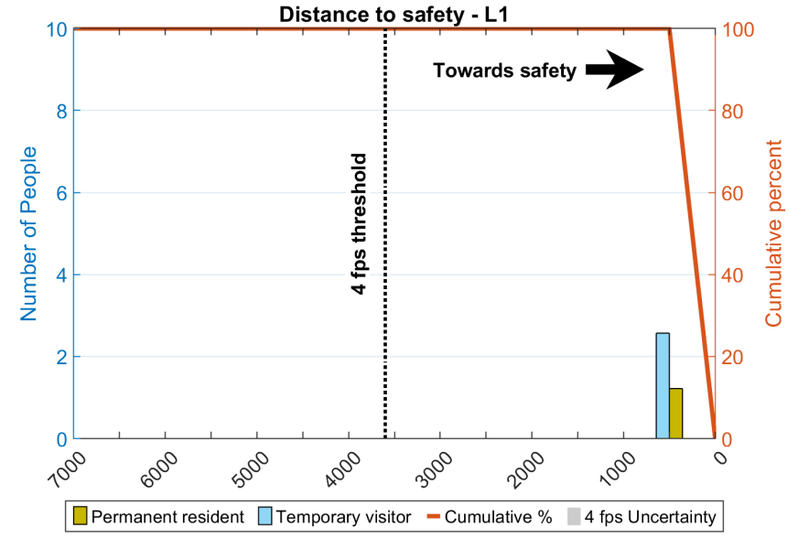
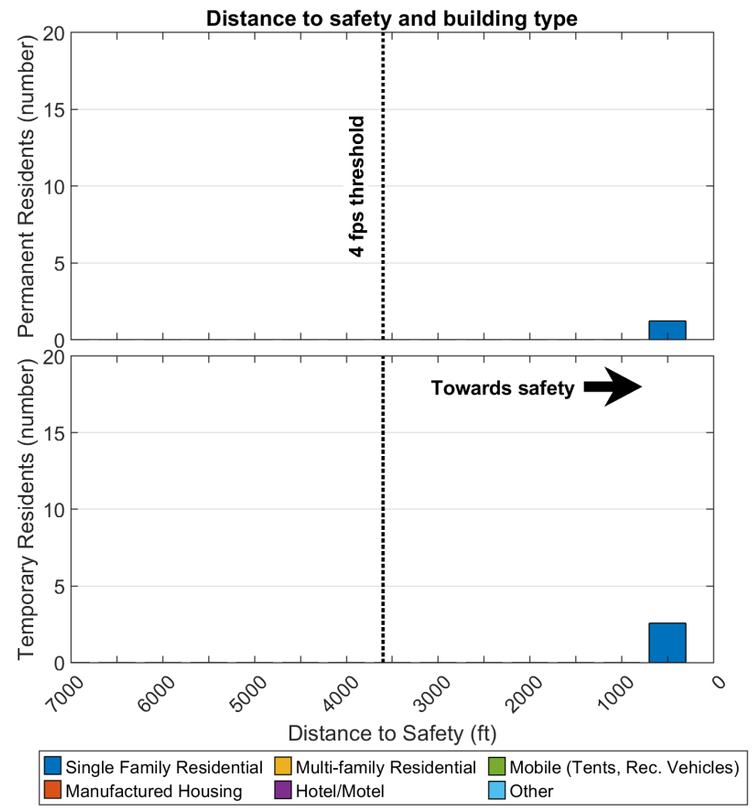


D.



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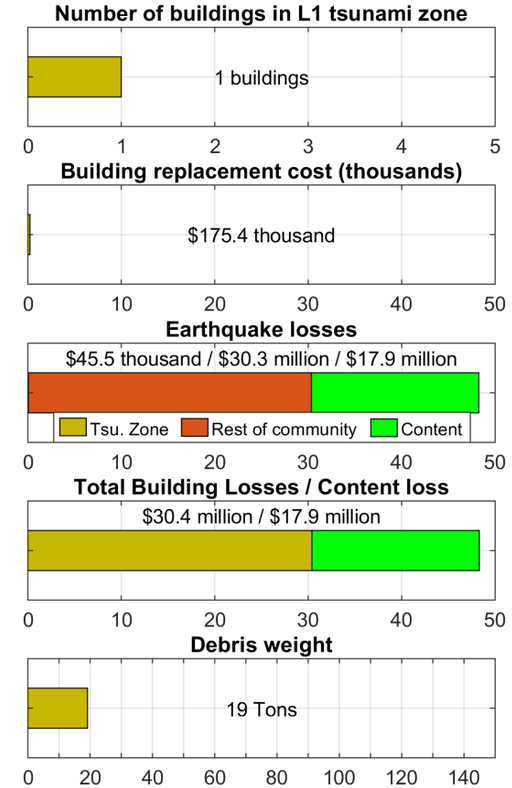

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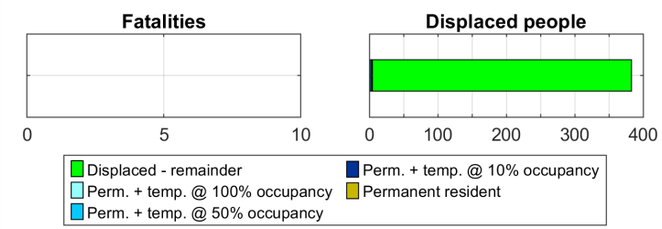
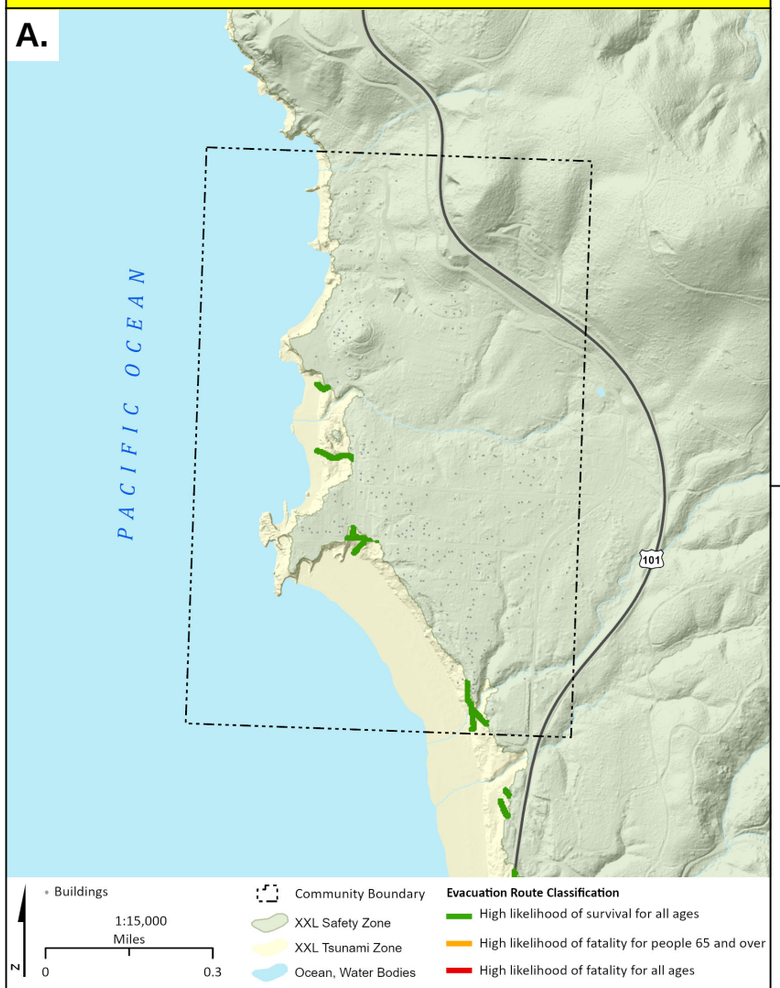


Description	Total
Earthquake Injuries (Entire Community)	40
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	20
Displaced Population - Permanent + Temporary	380

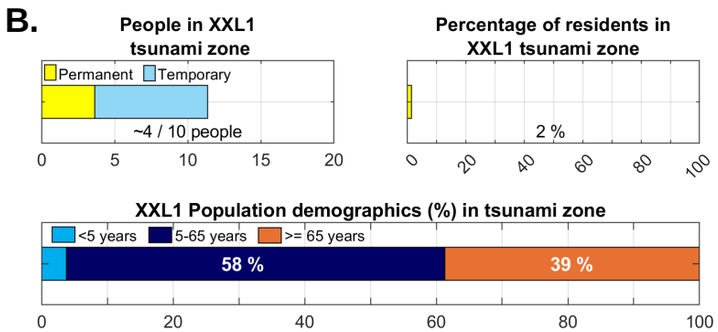
Otter Rock - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

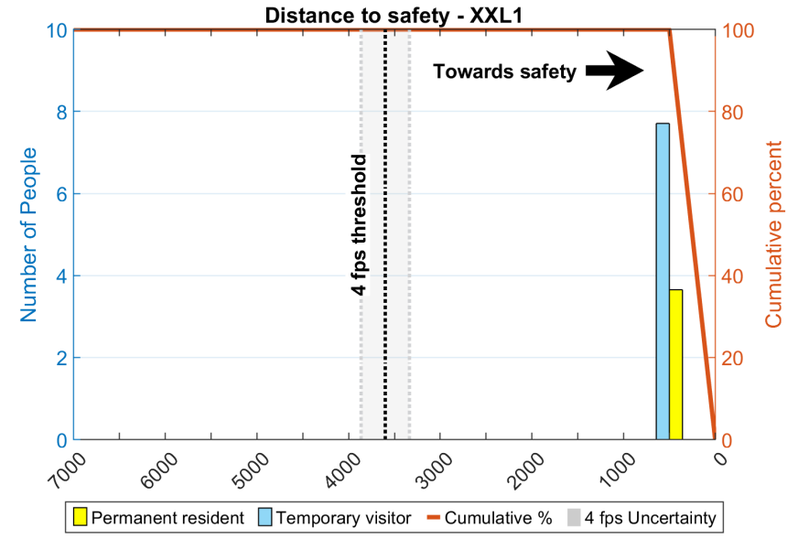
A.



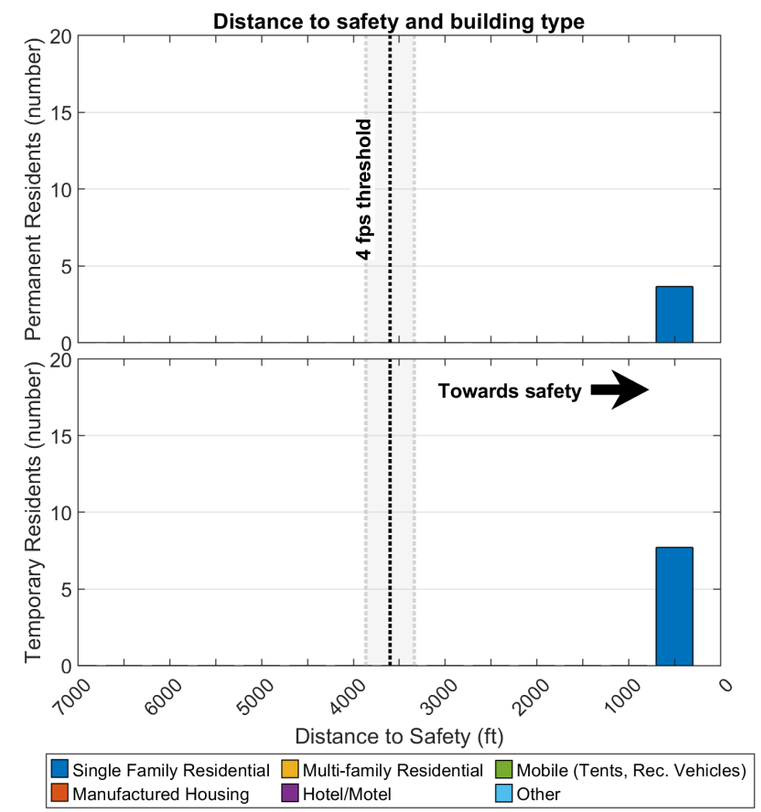
B.



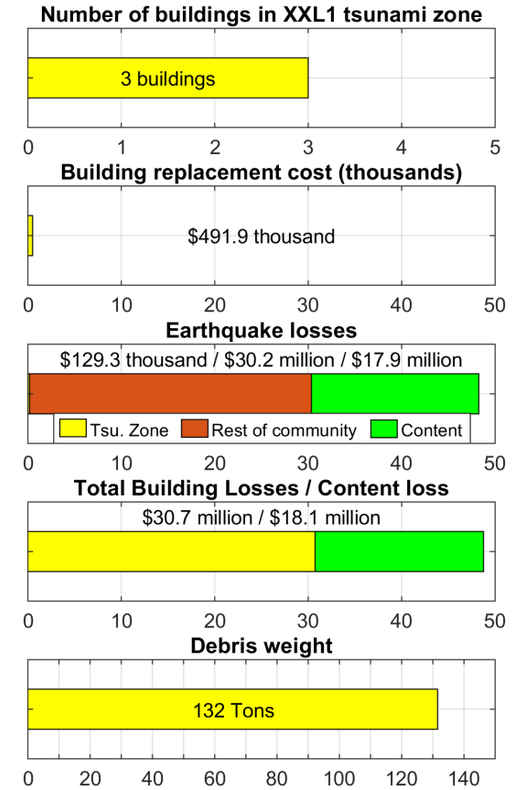
C.



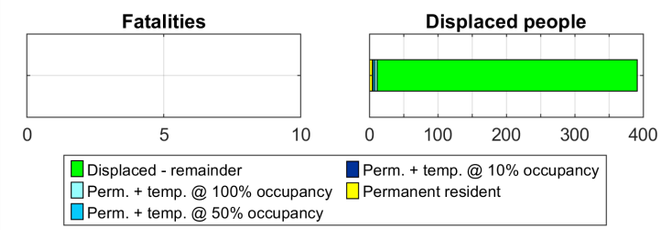
D.



E.



F.

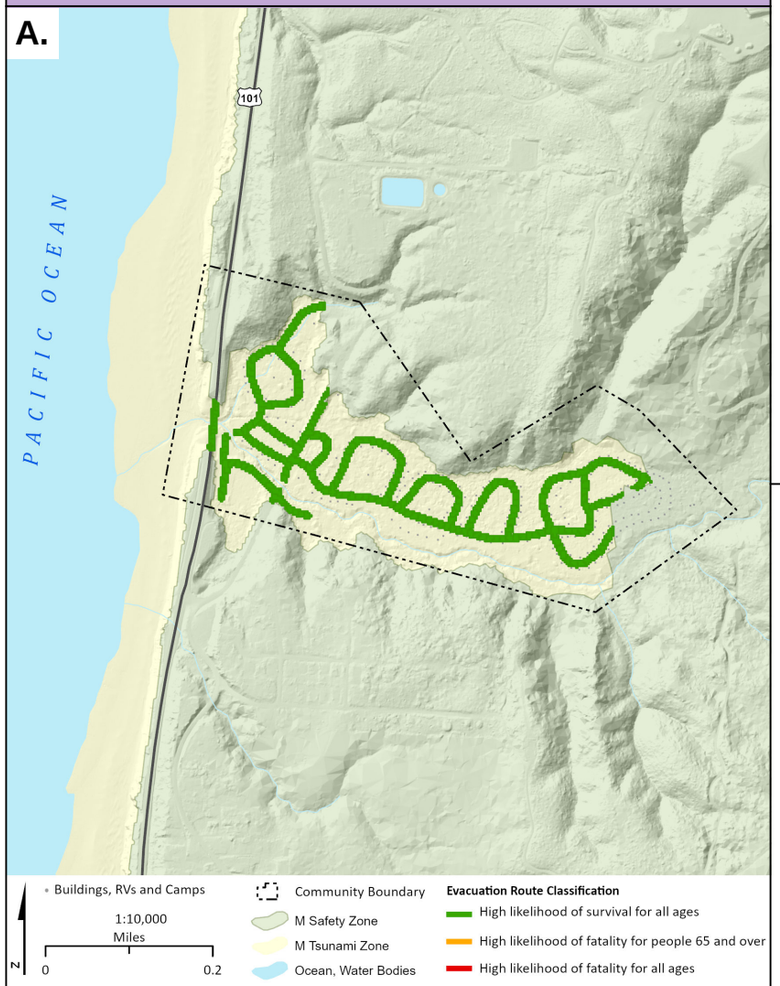


Description	Total
Earthquake Injuries (Entire Community)	40
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	20
Displaced Population - Permanent + Temporary	390

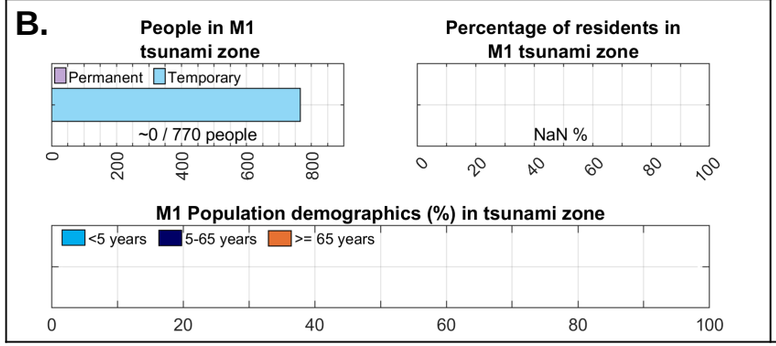
Beverly Beach State Park - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

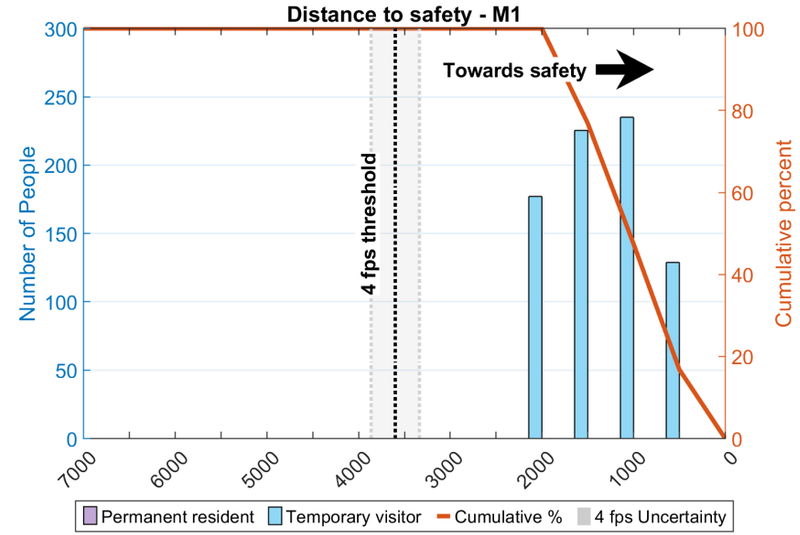
A.



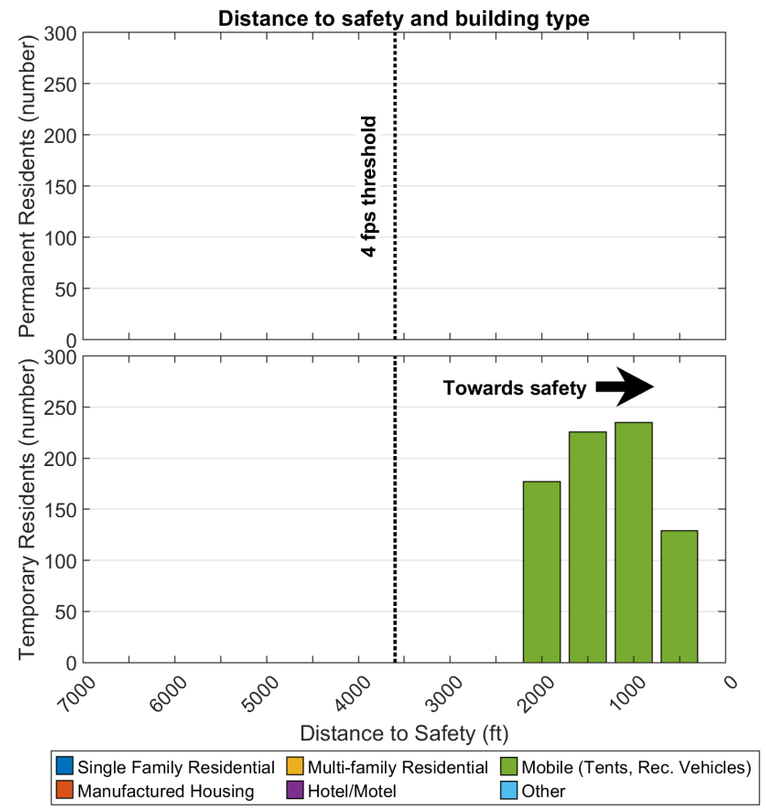
B.



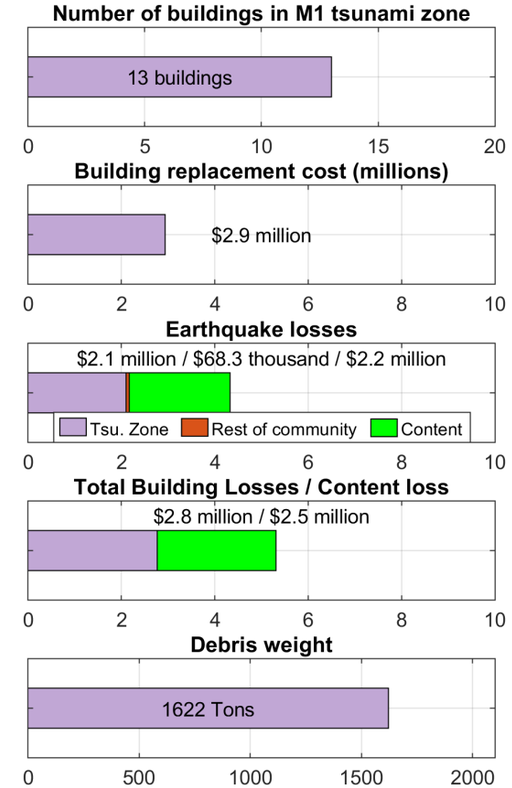
C.



D.



E.



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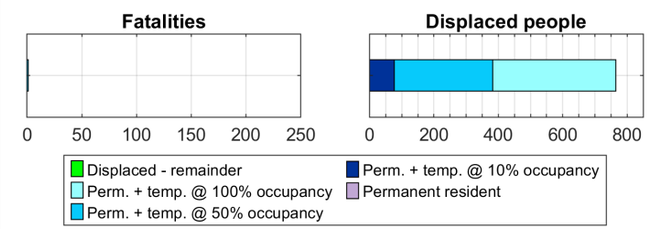
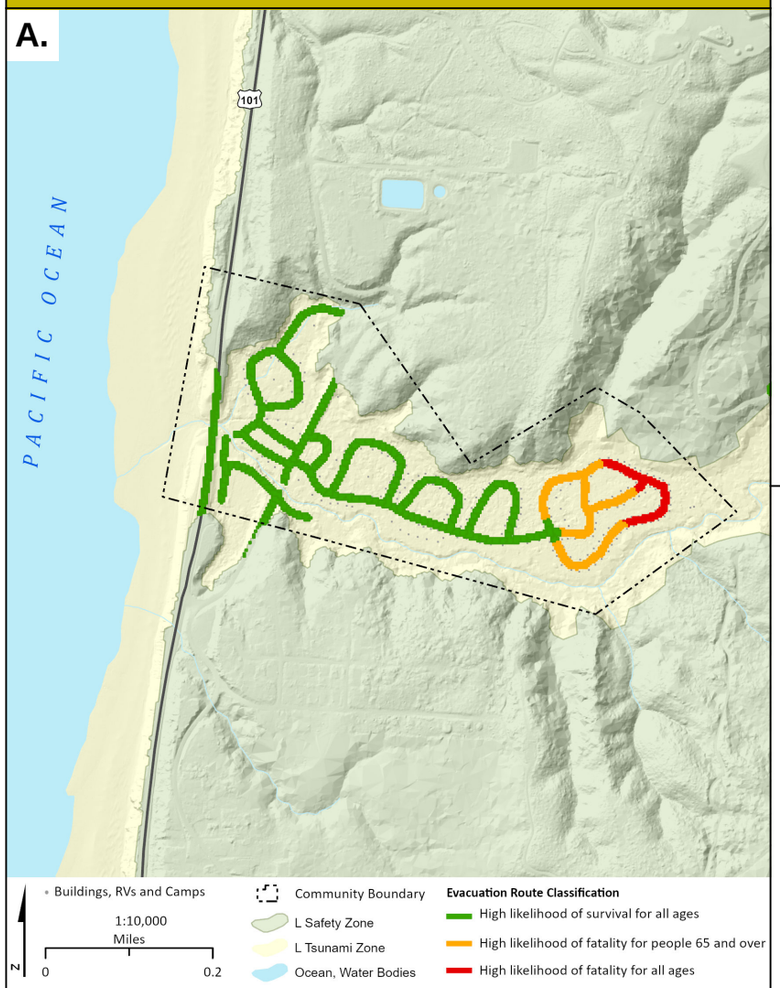
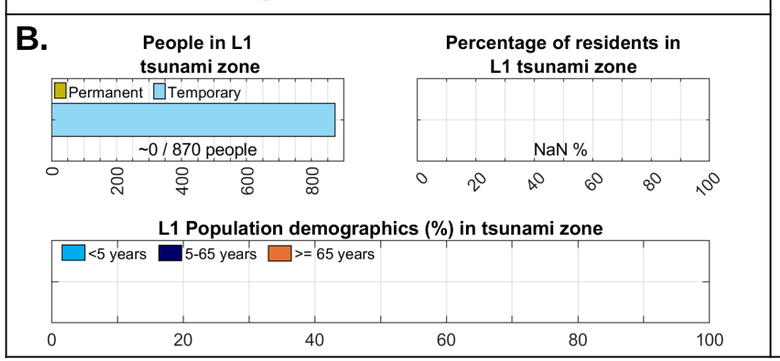


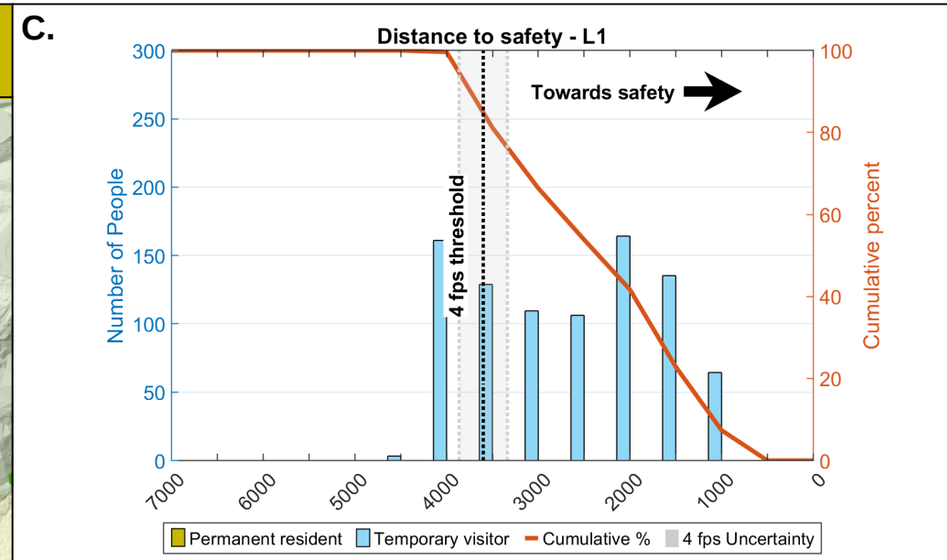
Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	770

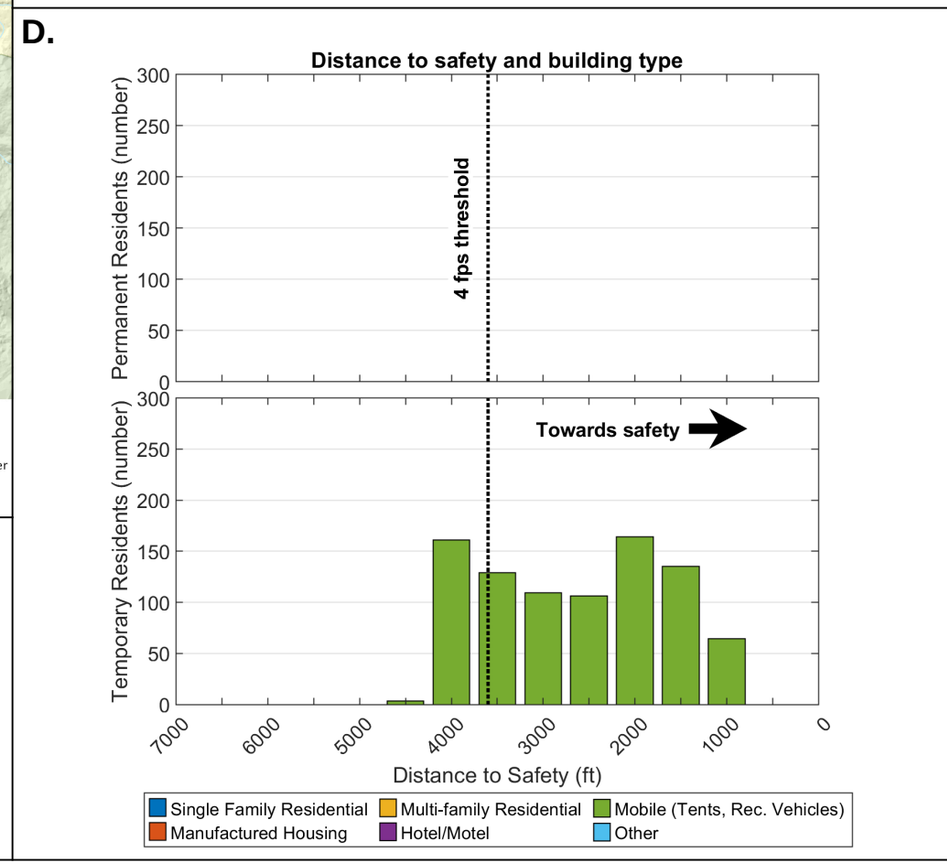
Beverly Beach State Park - L1

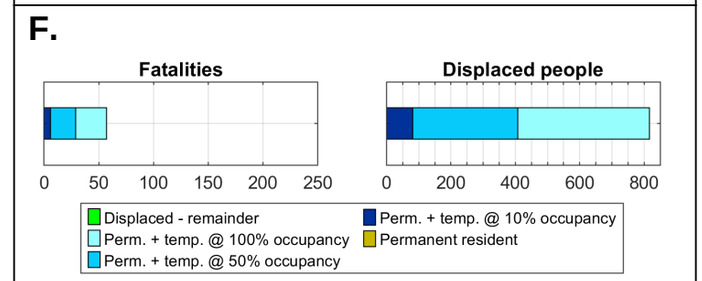
Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)









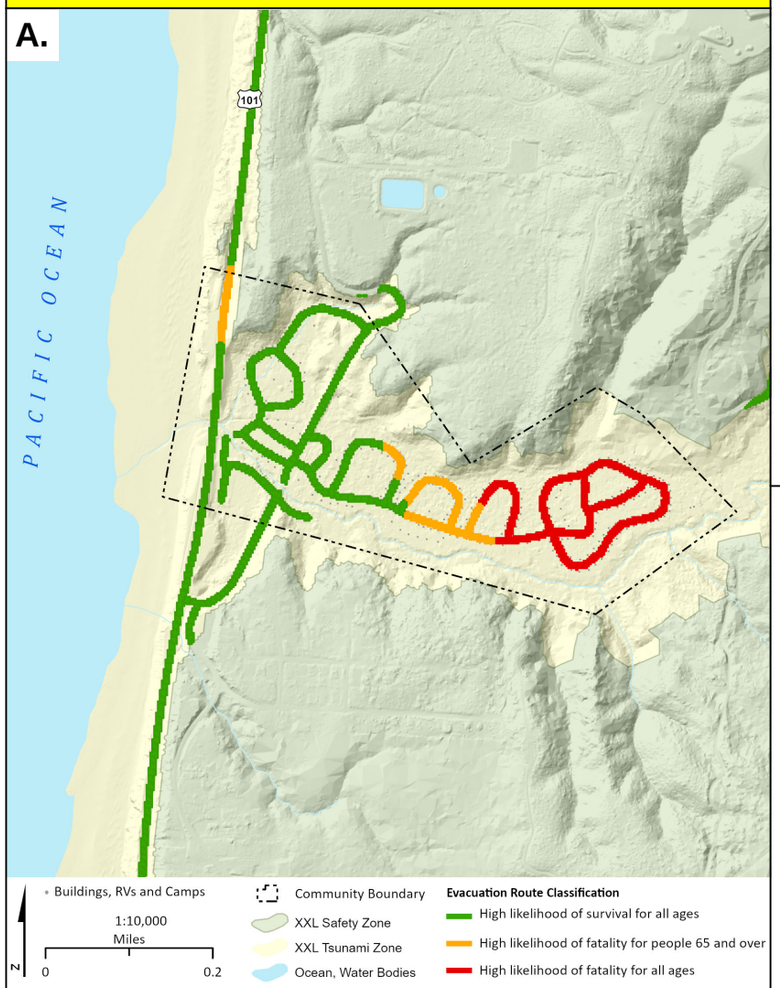


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	20
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	60
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	820

Beverly Beach State Park - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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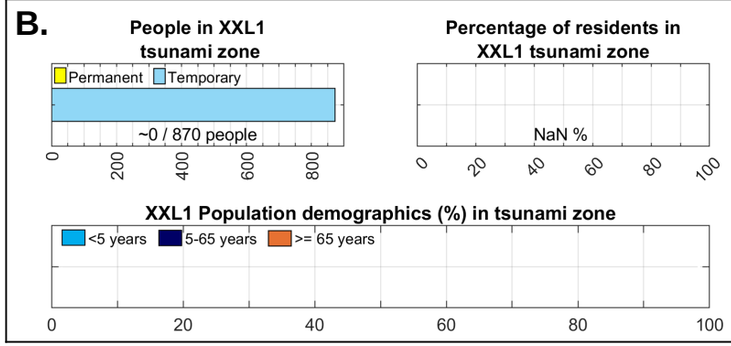

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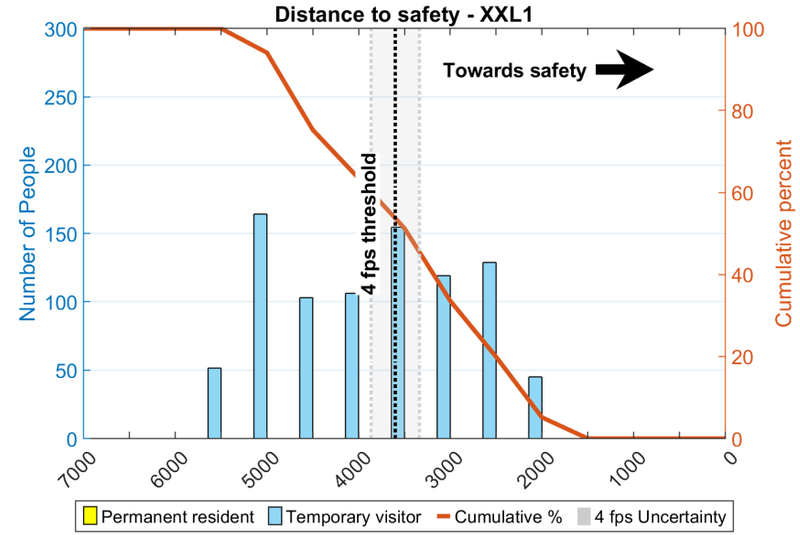

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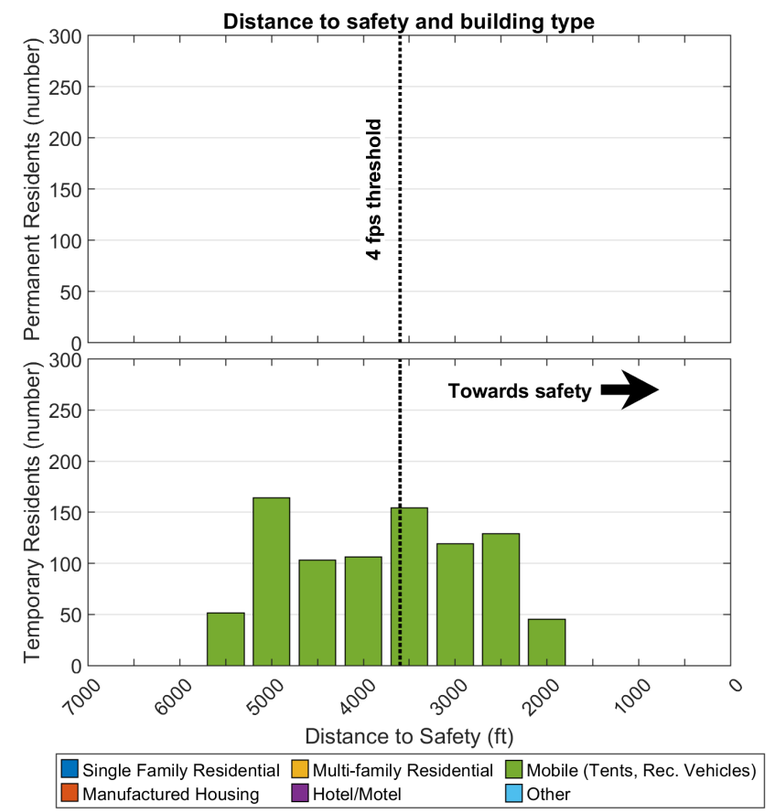

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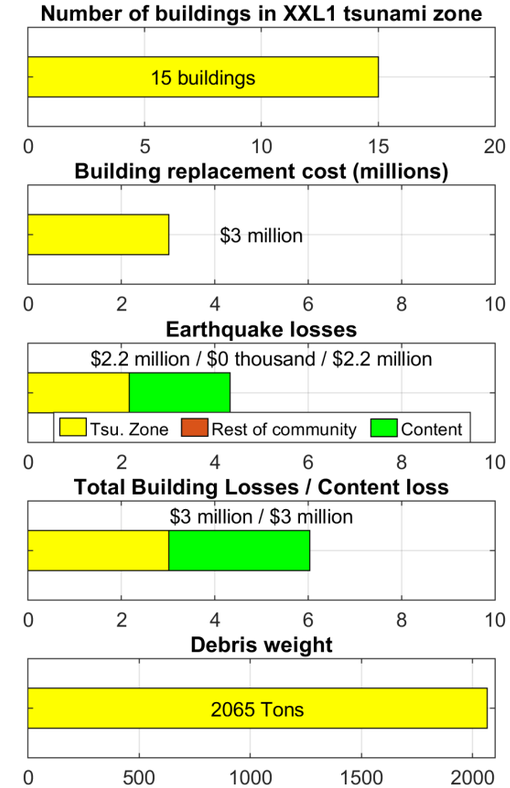

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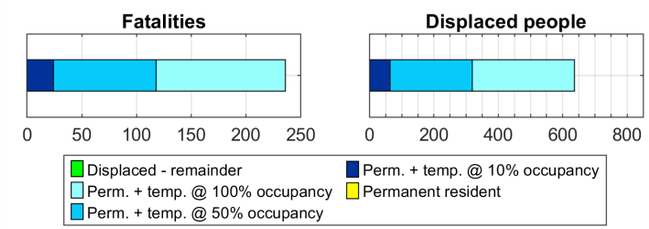
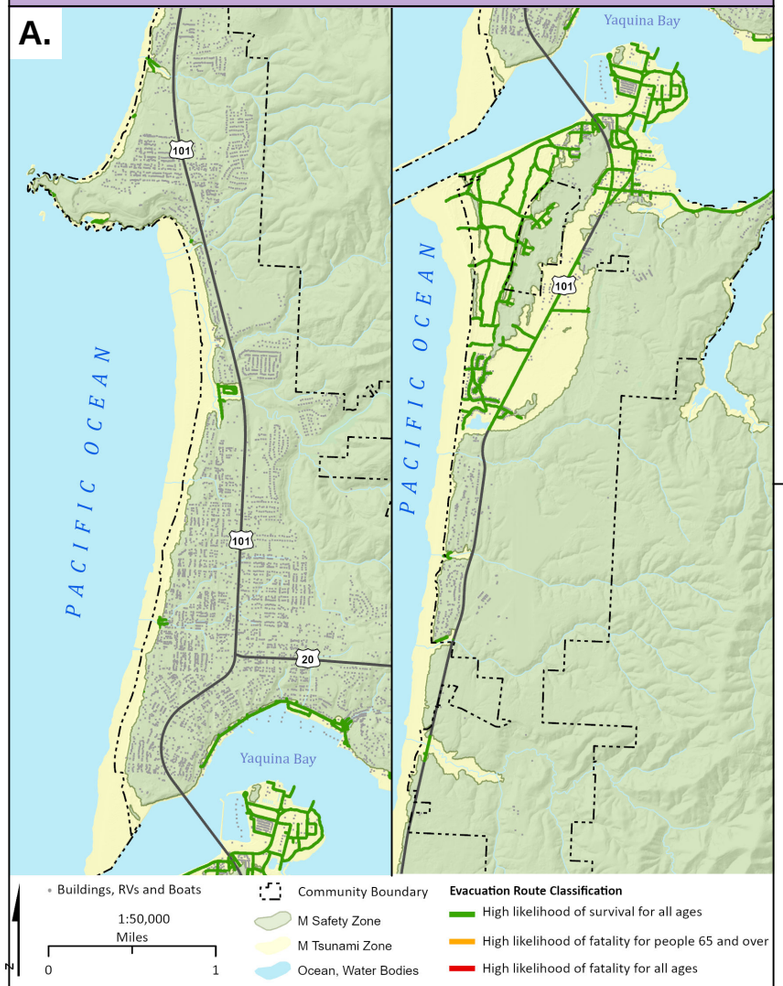


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	30
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	240
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	640

Newport - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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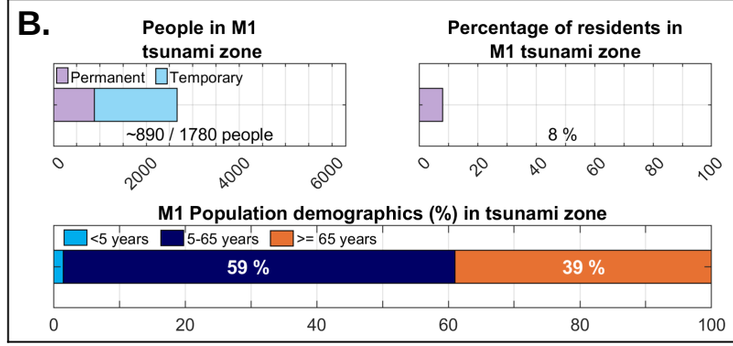

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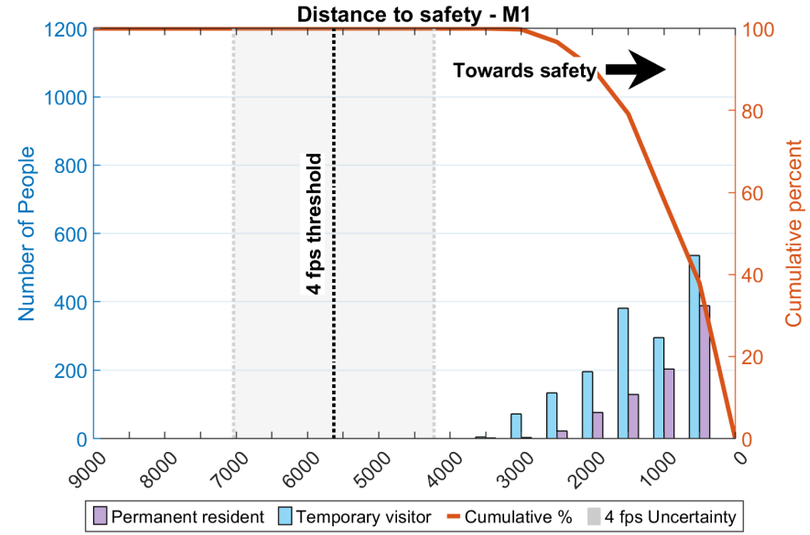
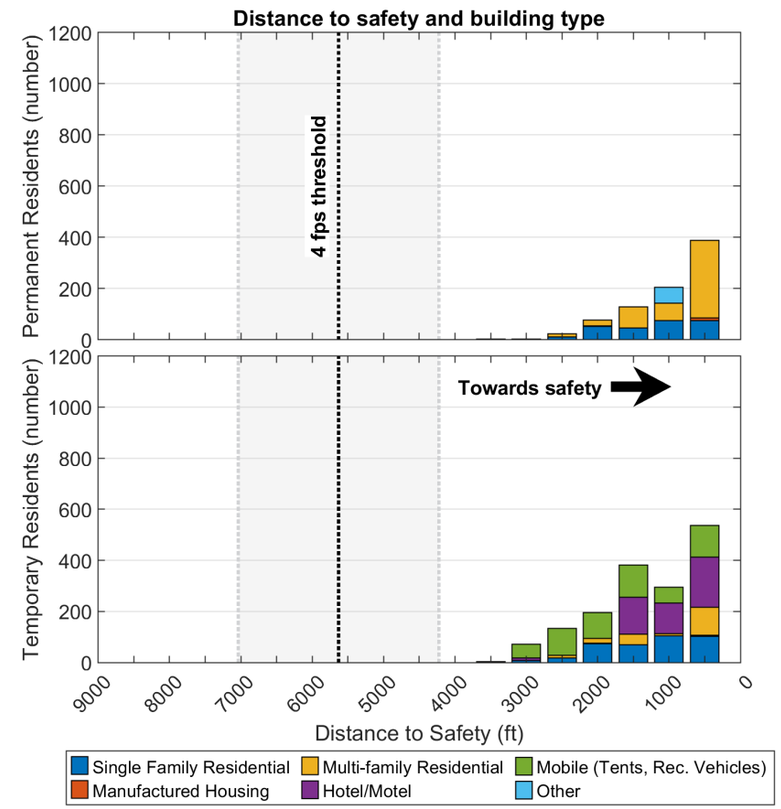


D.



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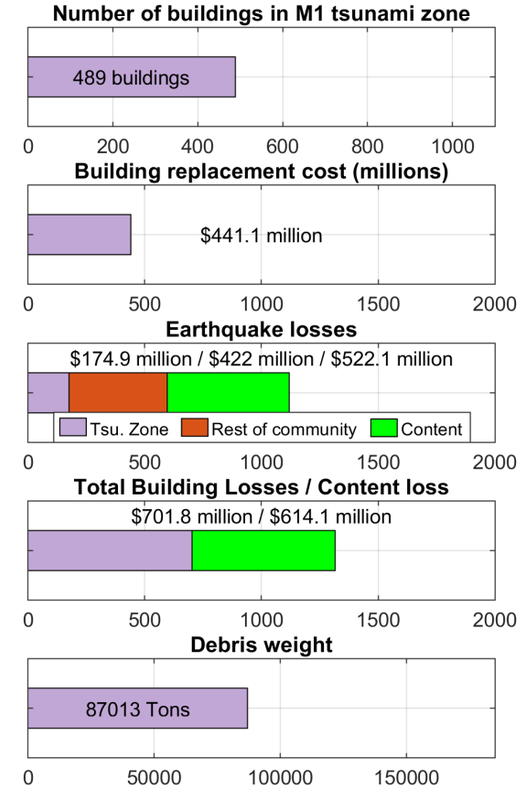

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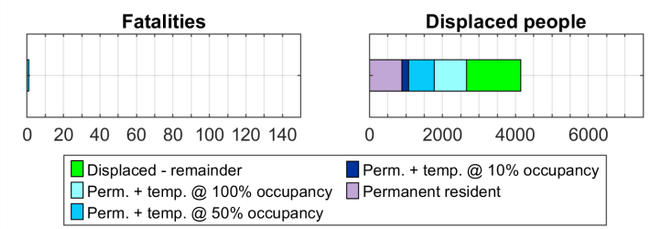
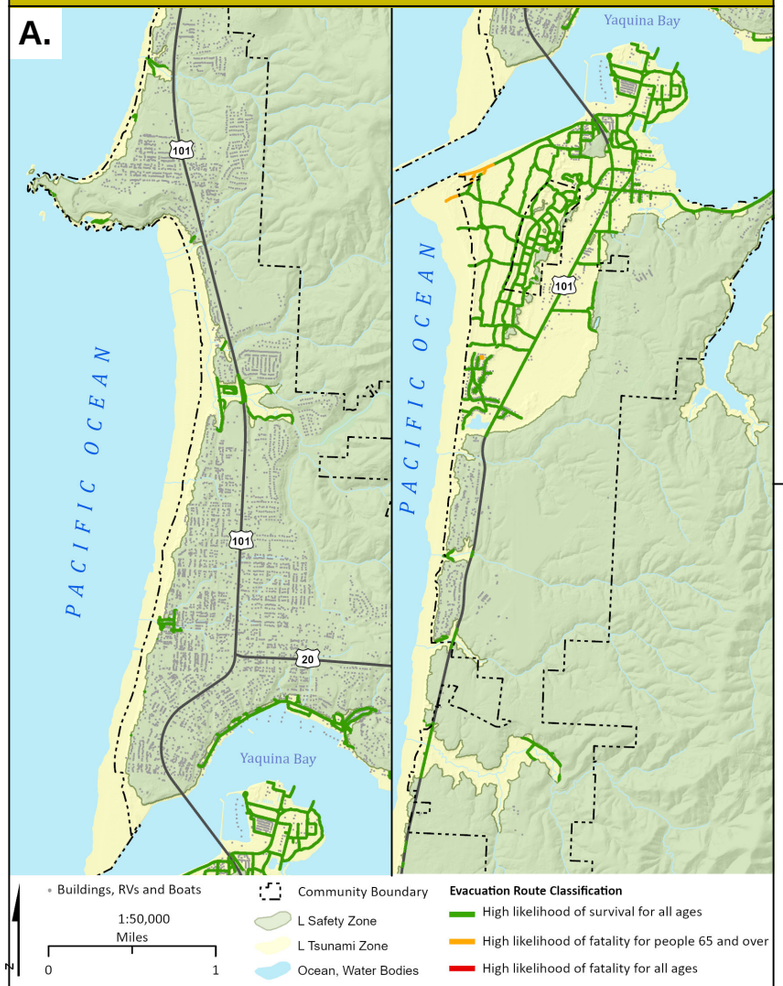


Description	Total
Earthquake Injuries (Entire Community)	240
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	1,840
Displaced Population - Permanent + Temporary	4,140

Newport - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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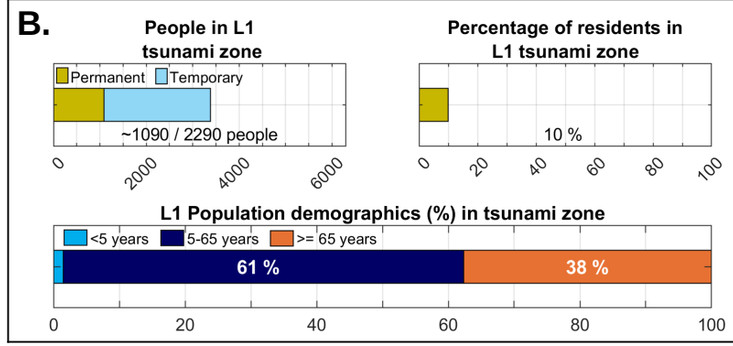

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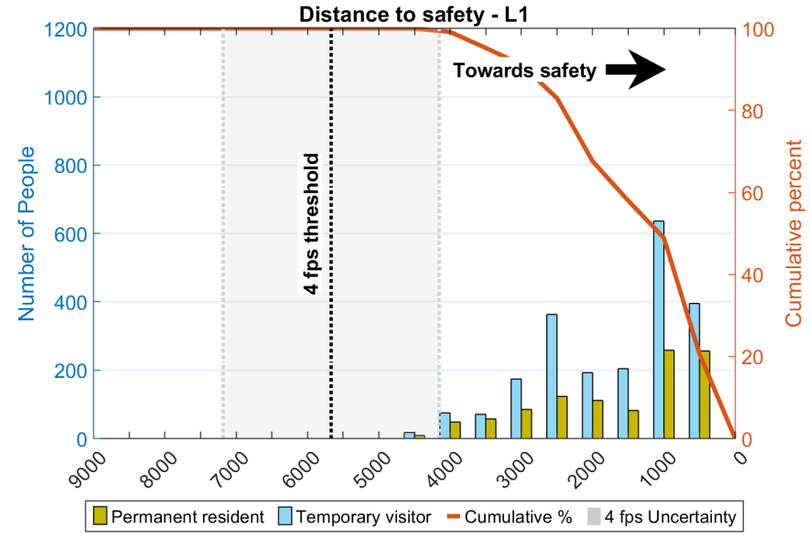

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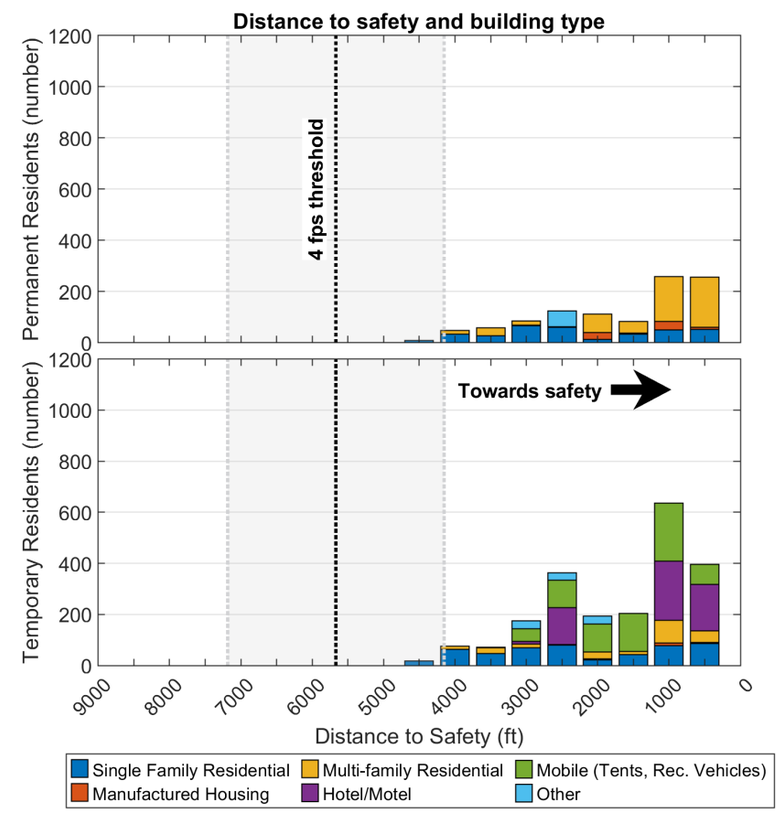
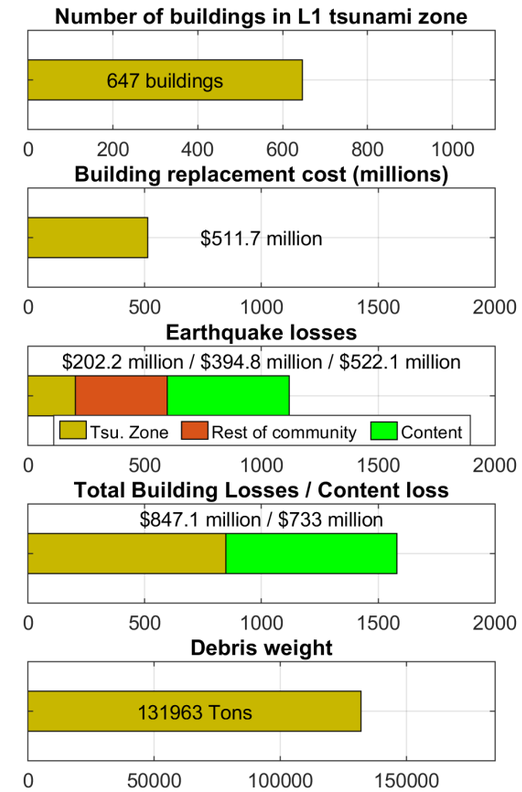


E.



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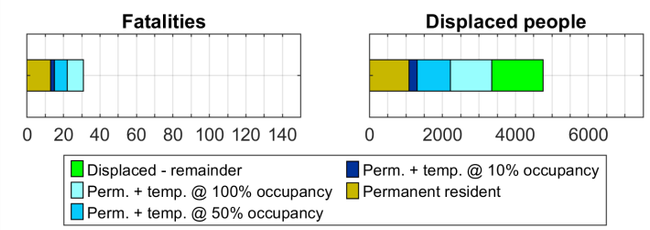
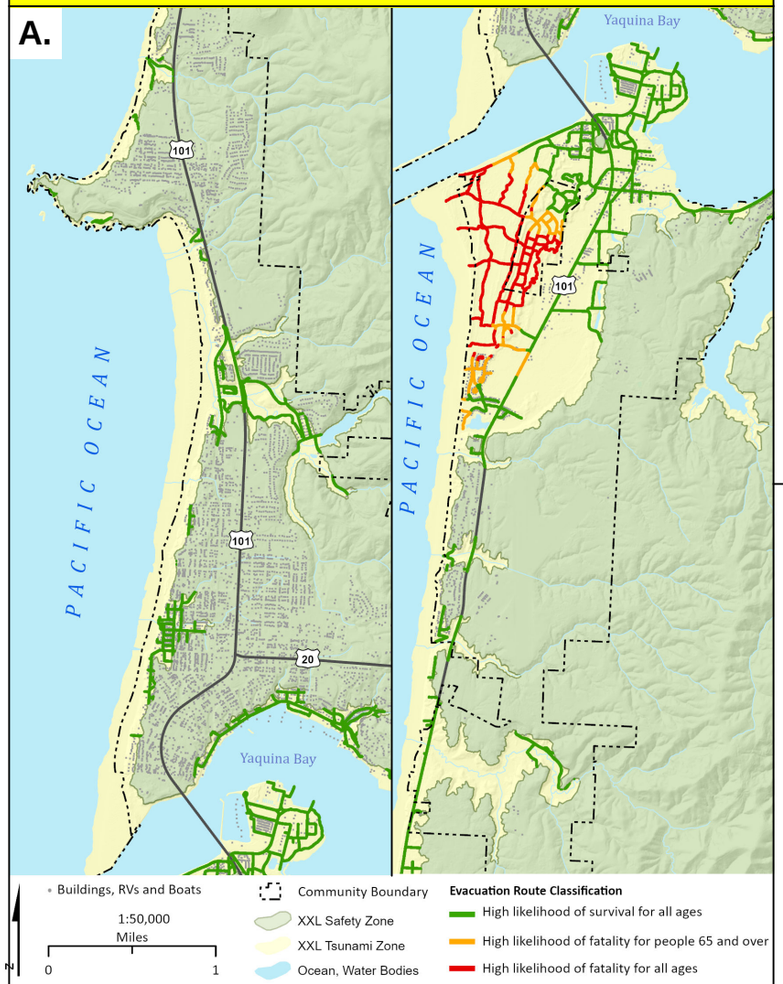


Description	Total
Earthquake Injuries (Entire Community)	240
Tsunami Injuries - Permanent + Temporary	10
Tsunami Fatalities - Permanent	10
Tsunami Fatalities - Temporary @ ~100% occupancy	20
Displaced Population - Permanent	1,970
Displaced Population - Permanent + Temporary	4,760

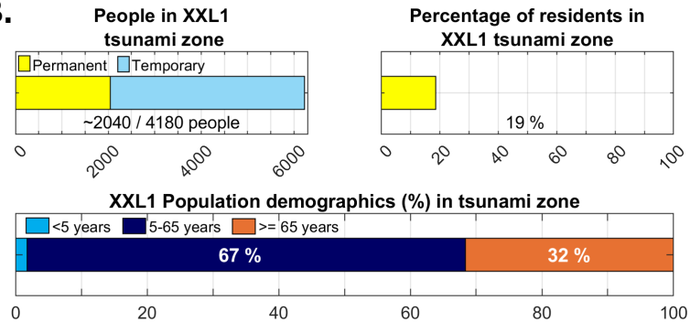
Newport - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

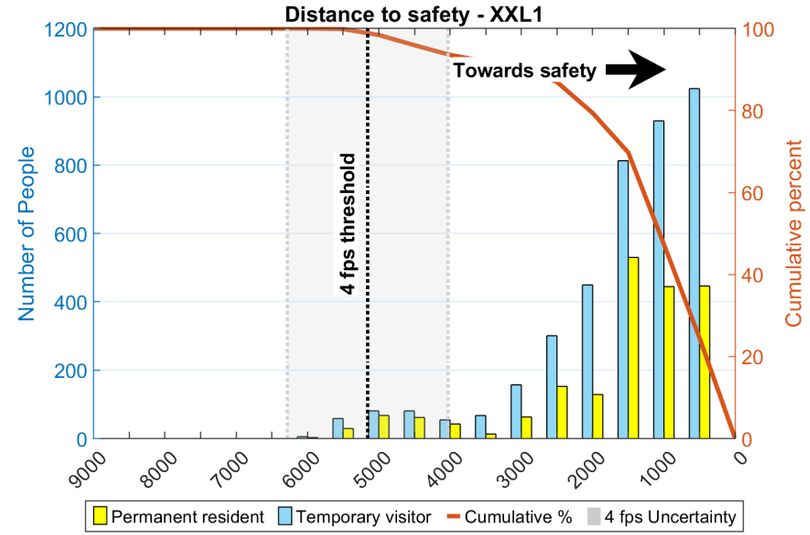
A.



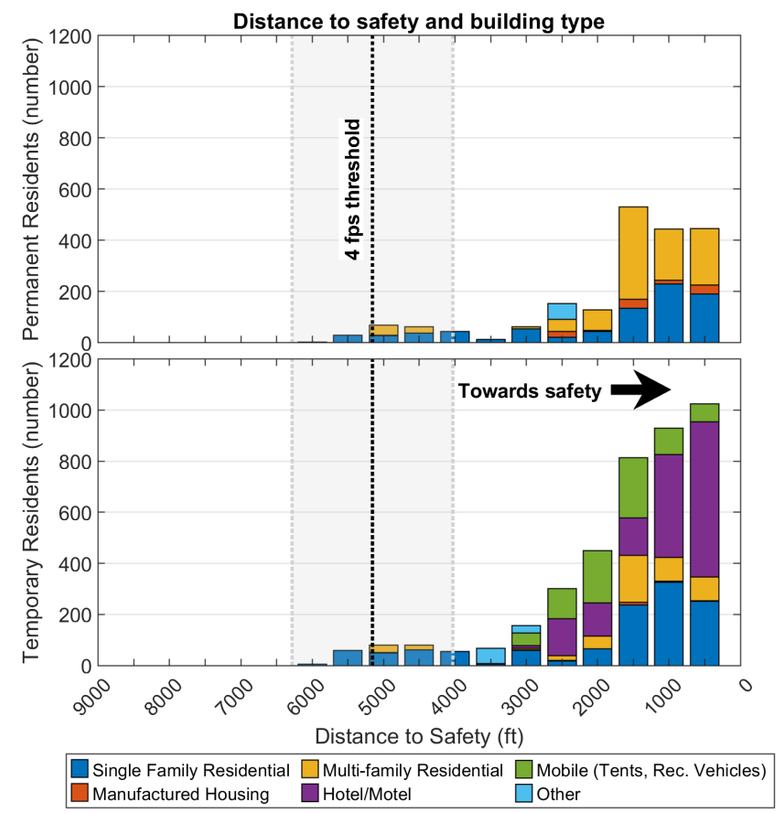
B.



C.



D.



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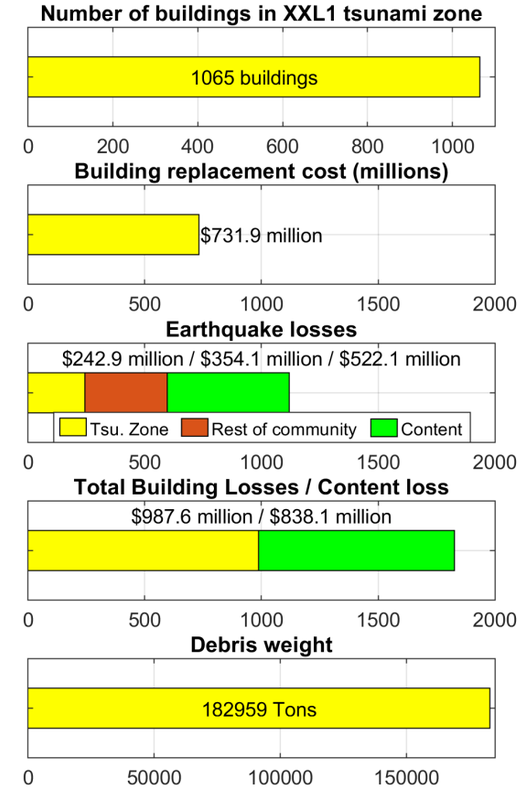

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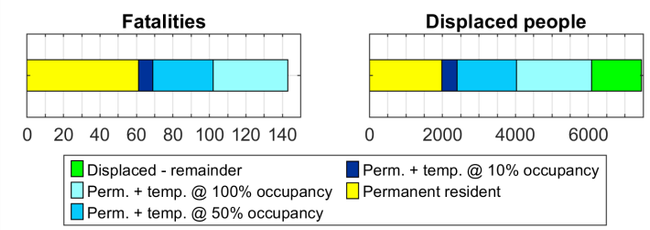
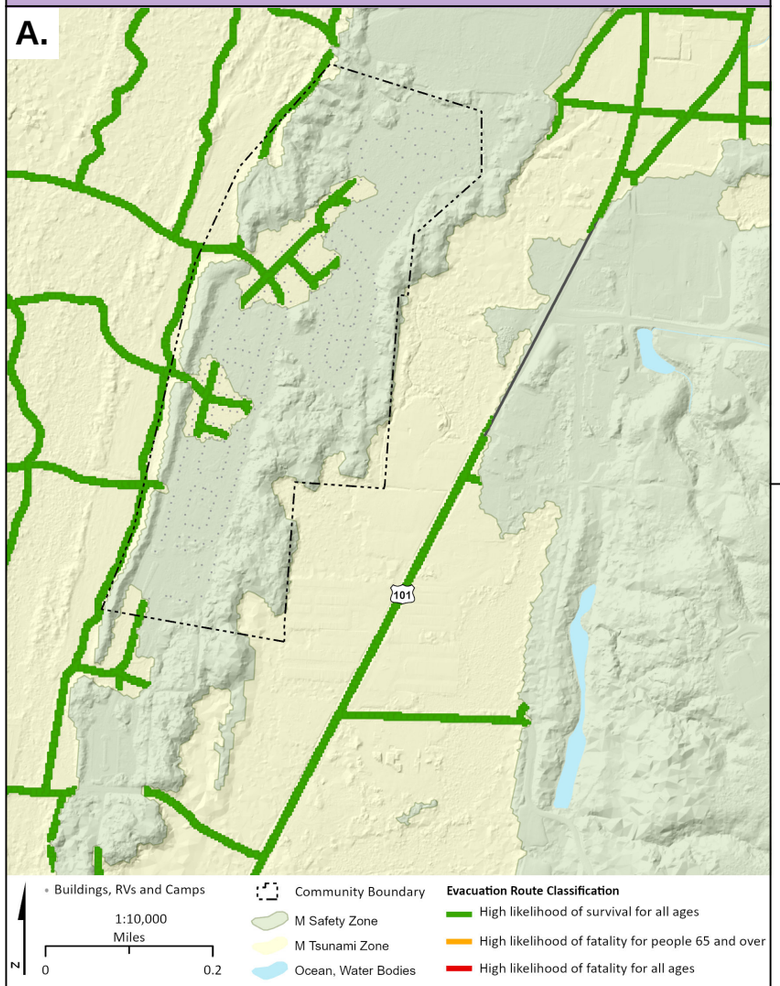


Description	Total
Earthquake Injuries (Entire Community)	240
Tsunami Injuries - Permanent + Temporary	80
Tsunami Fatalities - Permanent	60
Tsunami Fatalities - Temporary @ ~100% occupancy	80
Displaced Population - Permanent	2,840
Displaced Population - Permanent + Temporary	7,450

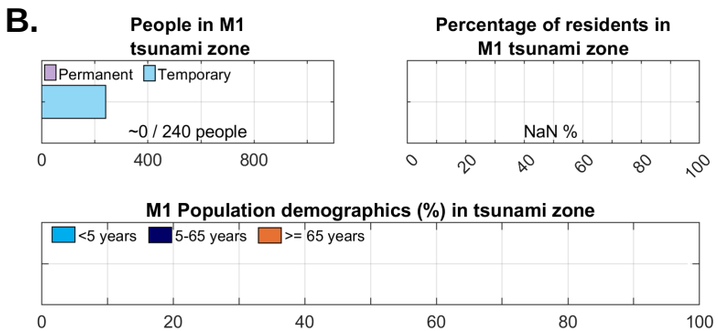
South Beach State Park - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

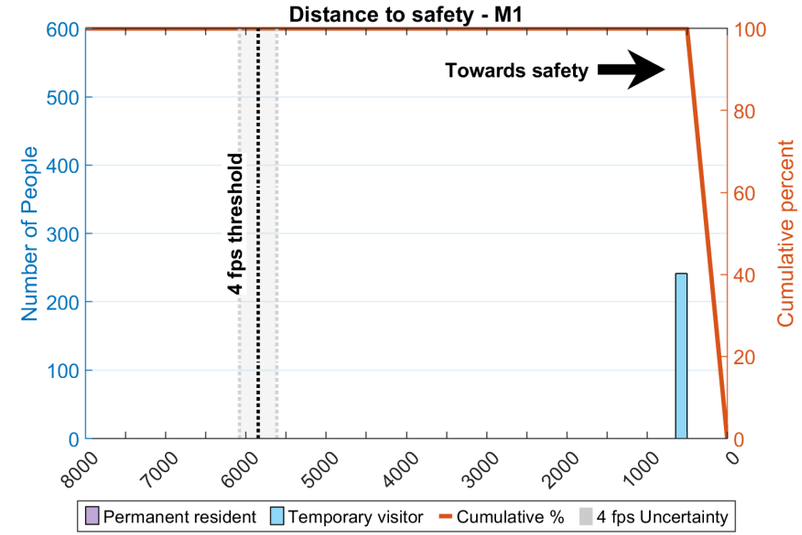
A.



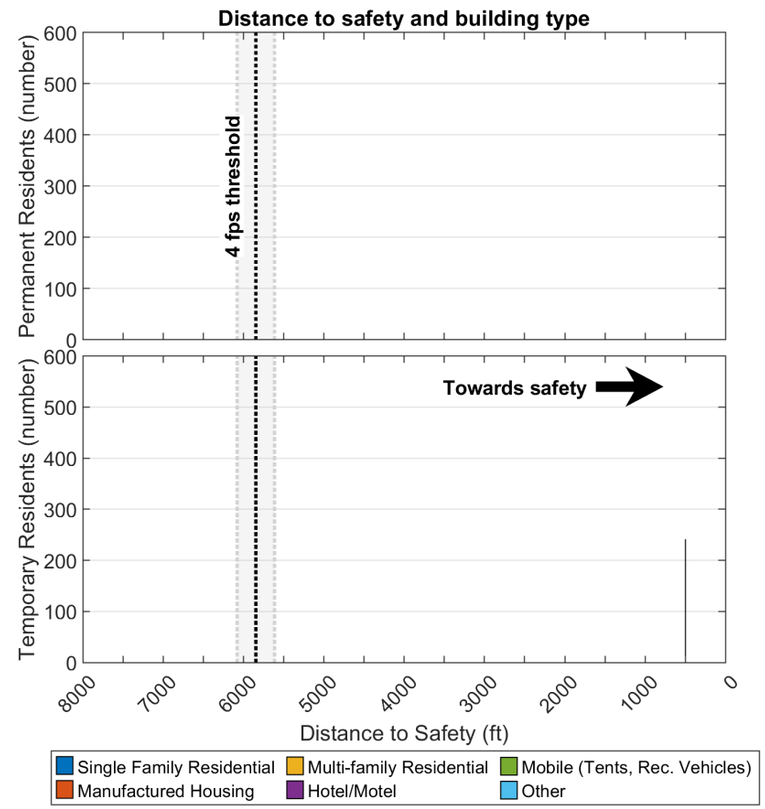
B.



C.



D.



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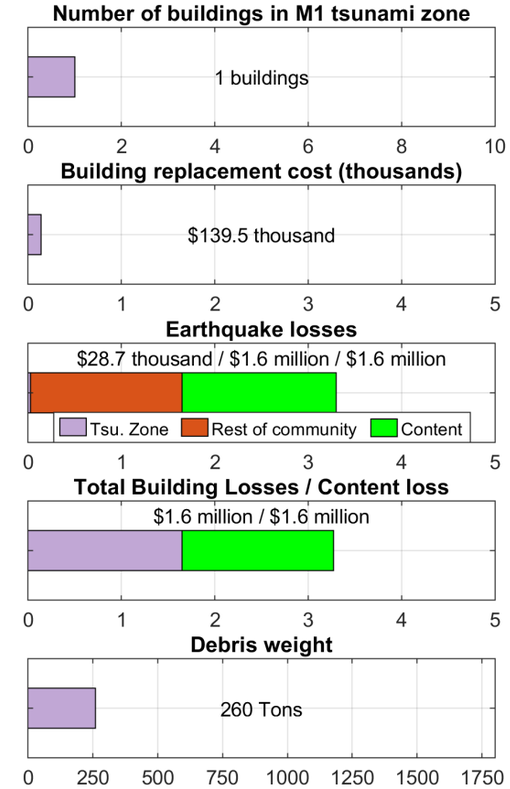

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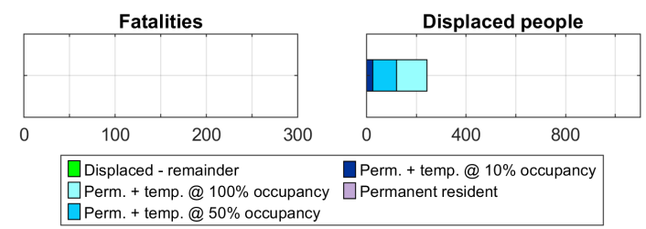
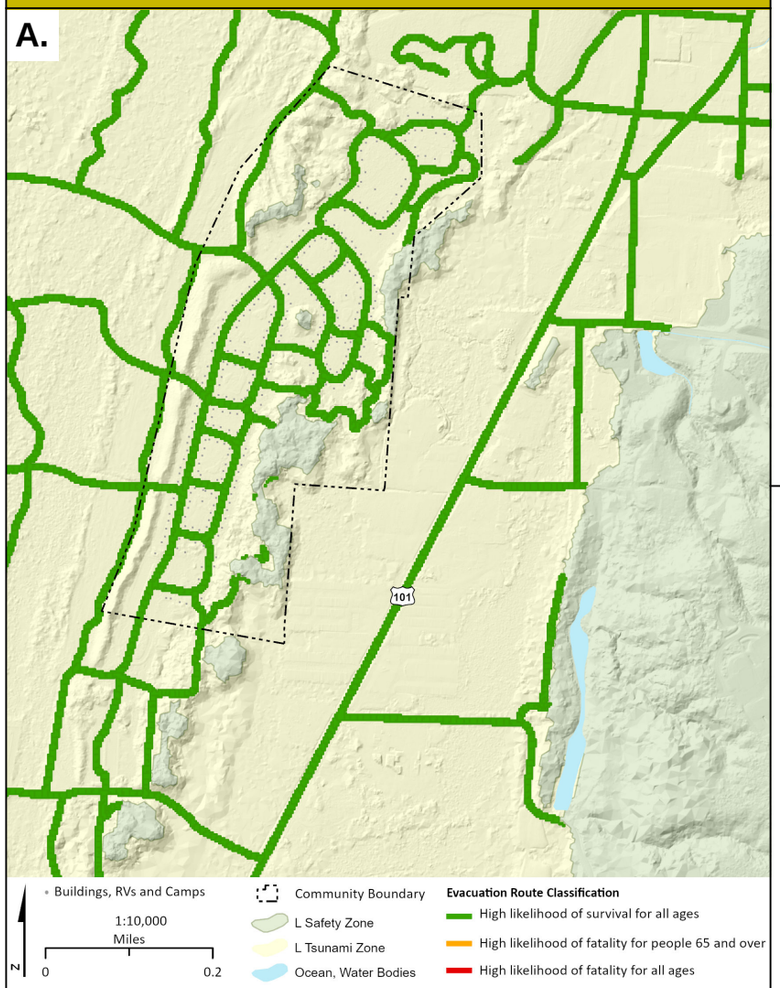


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	240

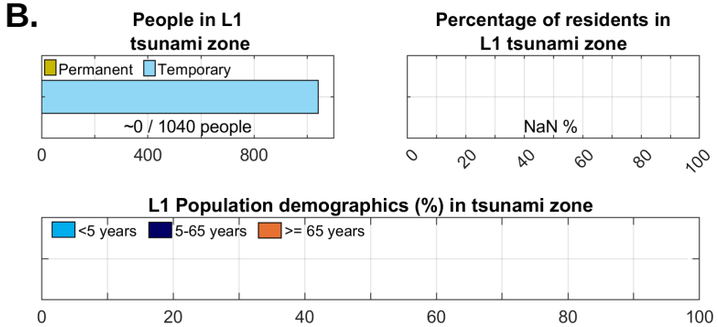
South Beach State Park - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



B.



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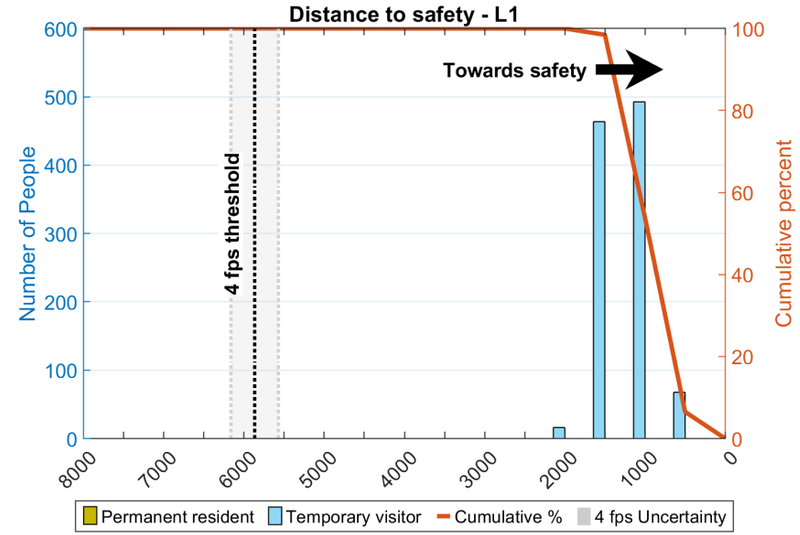
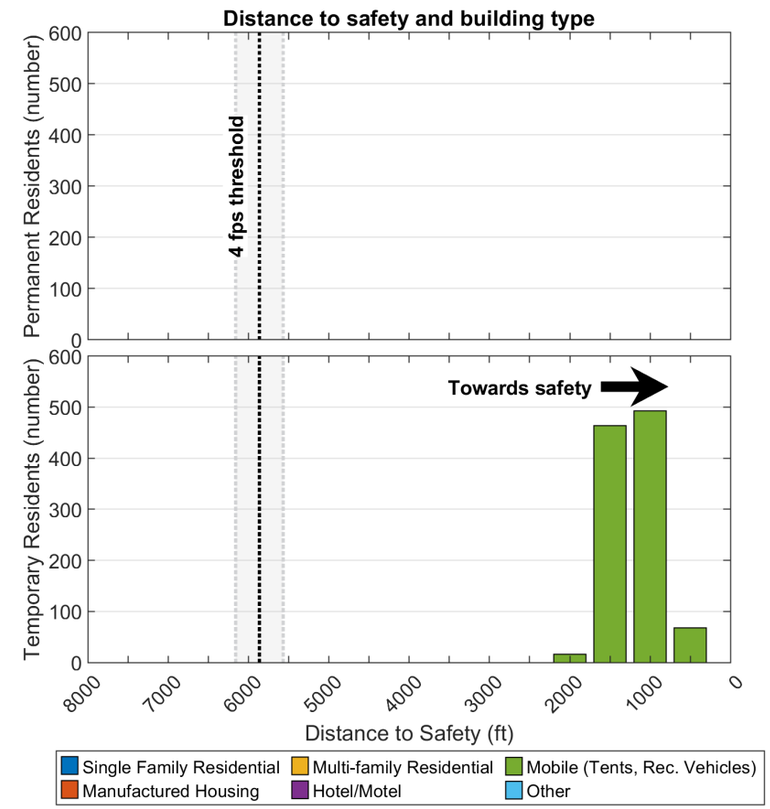
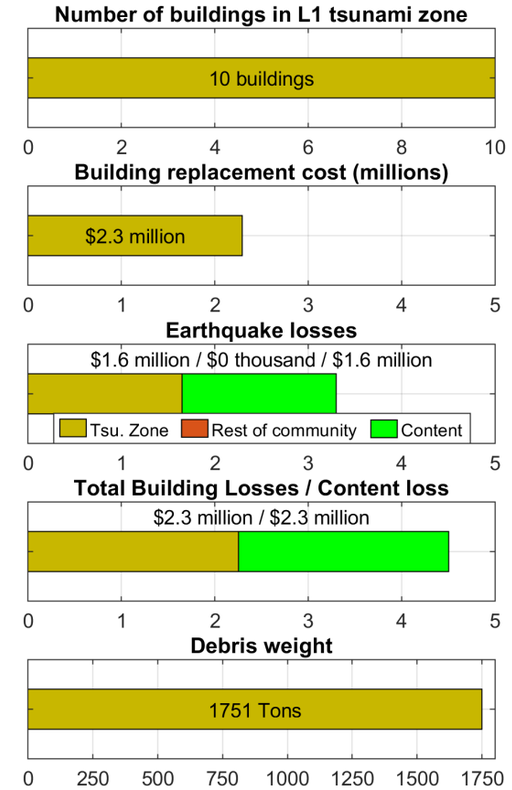


D.



E.



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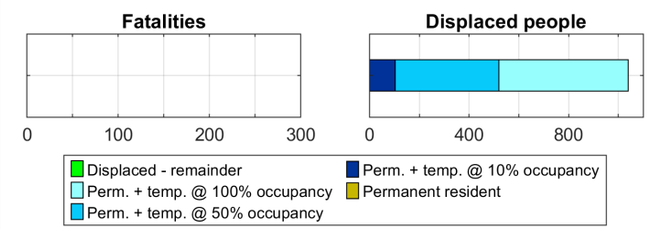
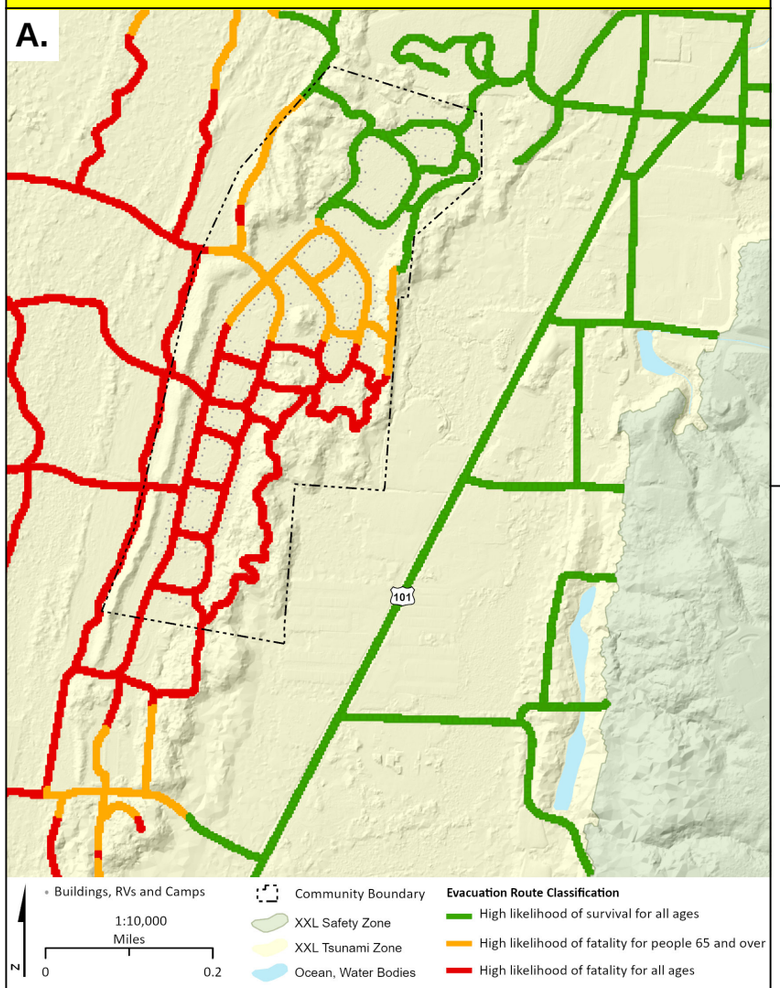


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	1,040

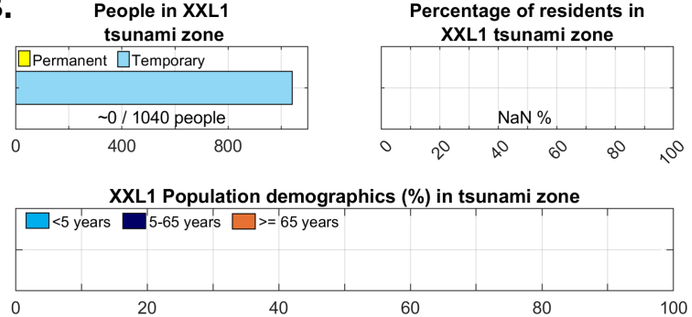
South Beach State Park - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

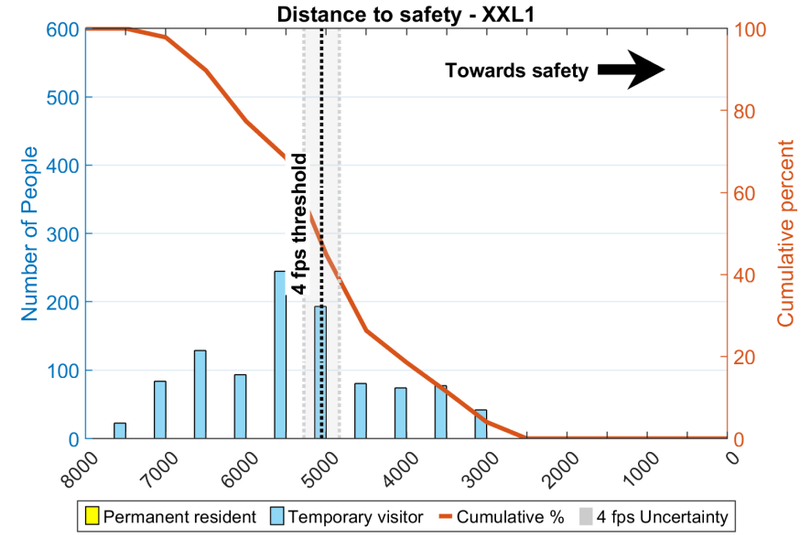
A.



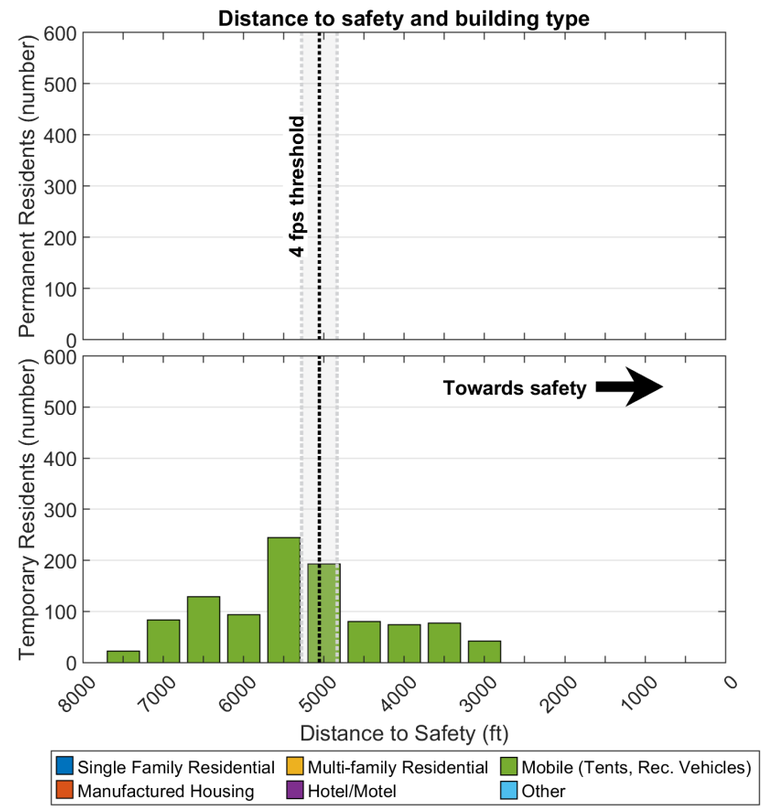
B.



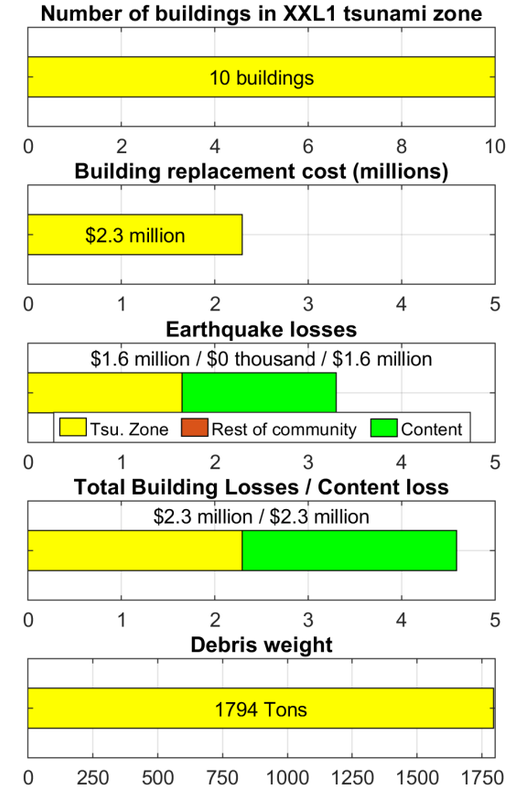
C.



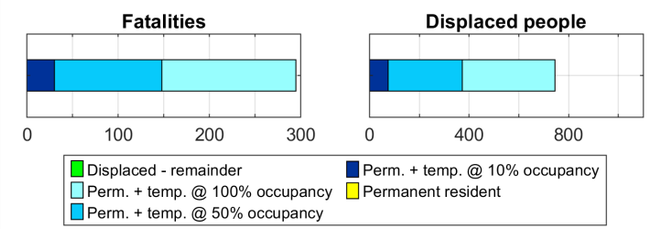
D.



E.



F.

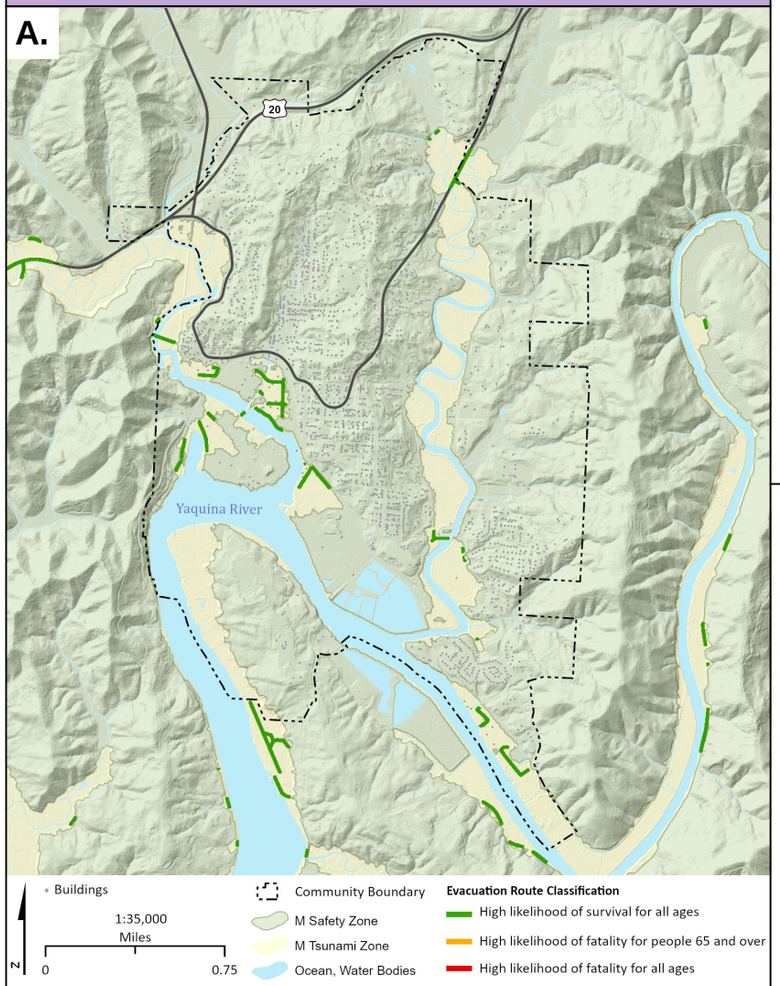


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	20
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	300
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	750

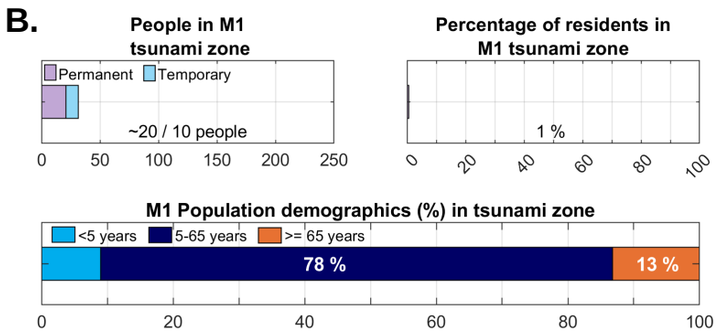
Toledo - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

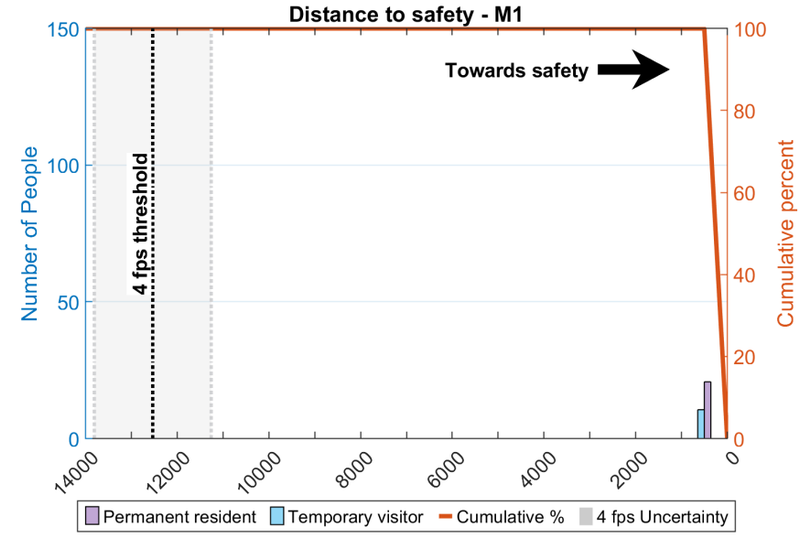
A.



B.



C.



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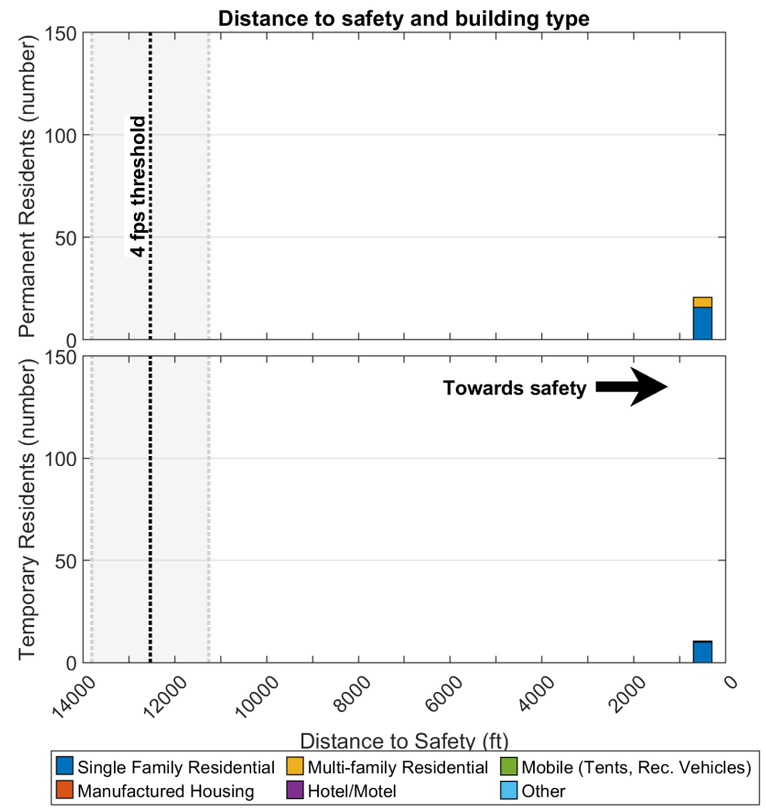

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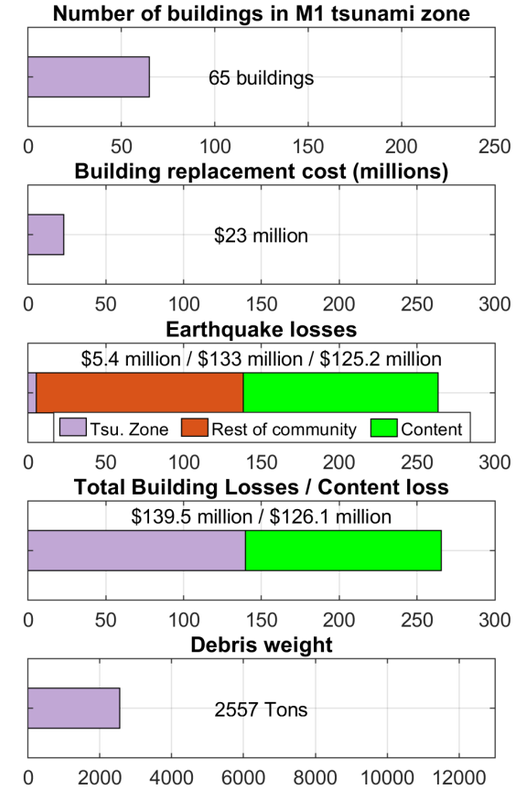

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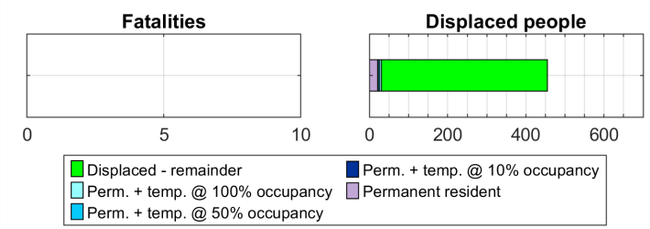
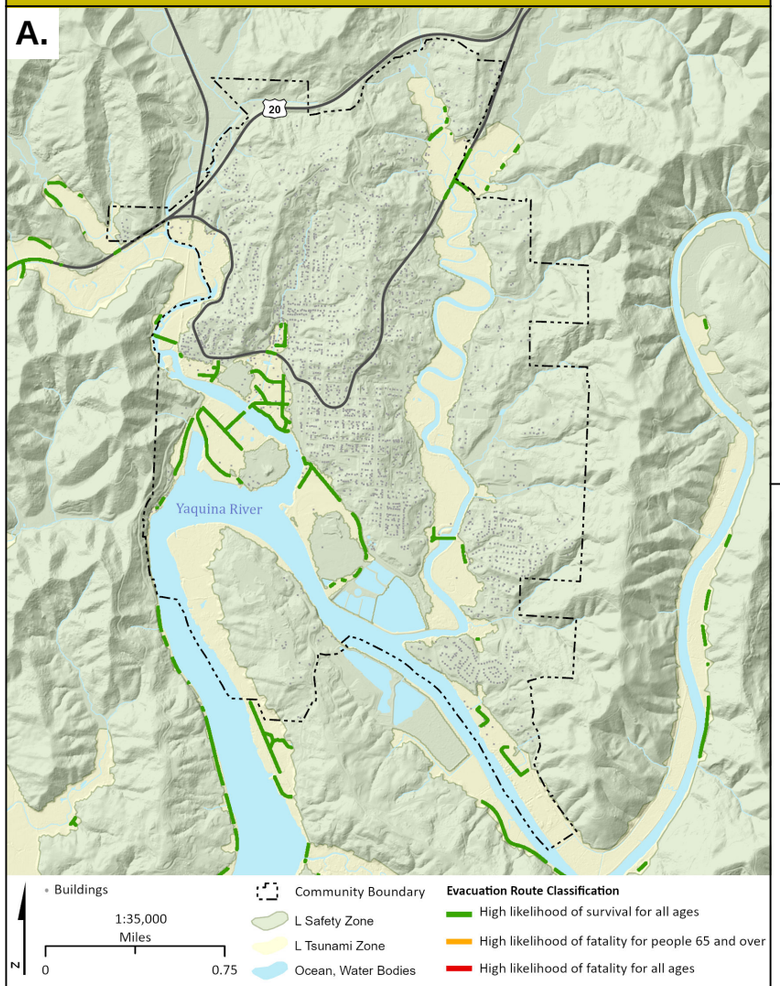


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	270
Displaced Population - Permanent + Temporary	450

Toledo - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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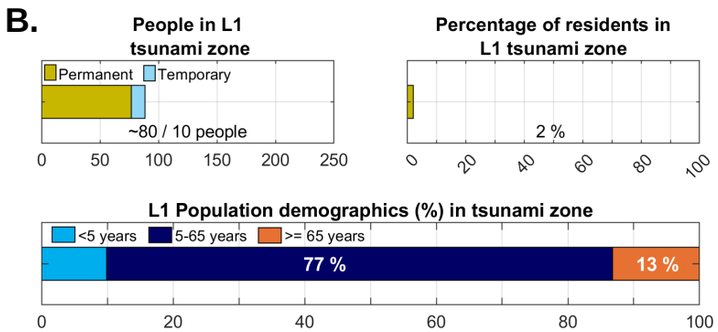

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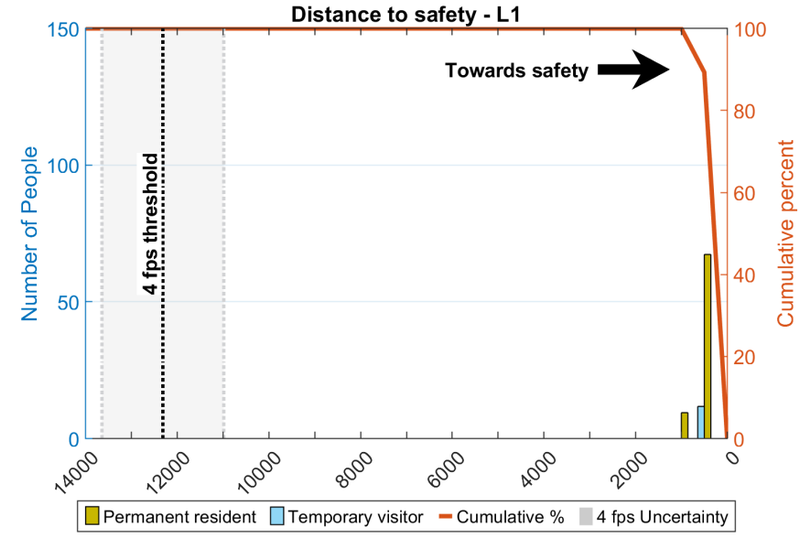

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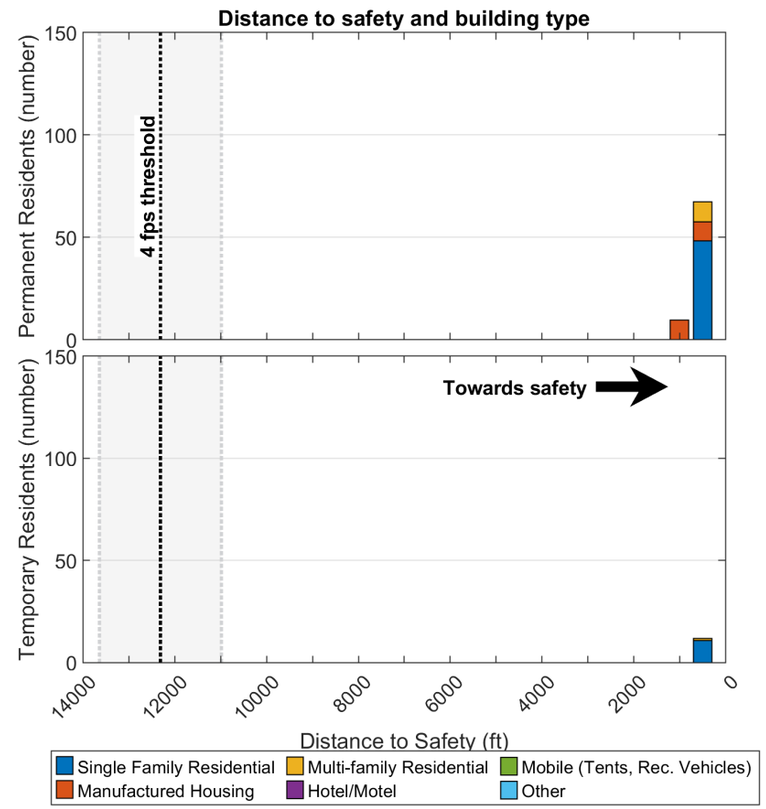

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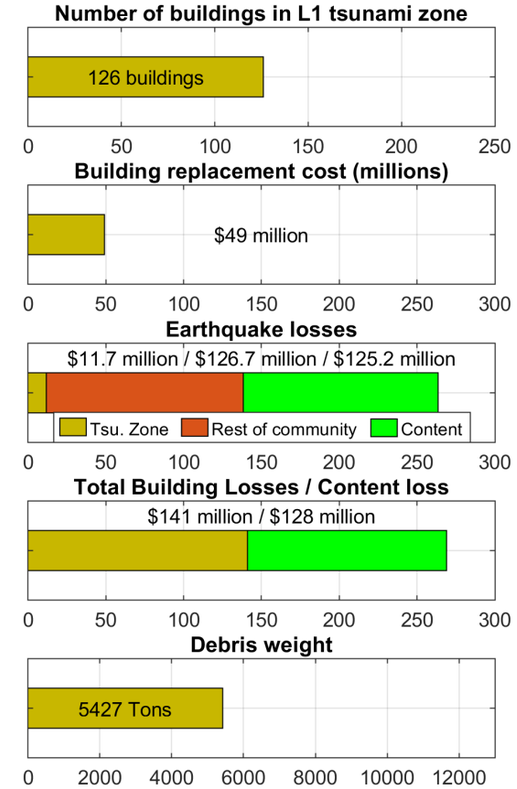

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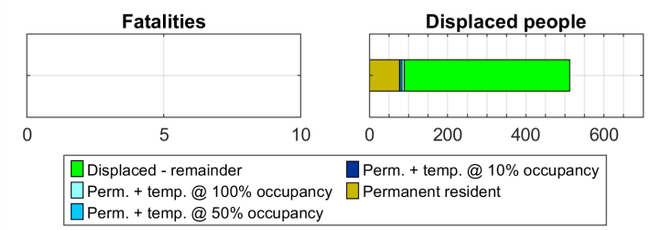
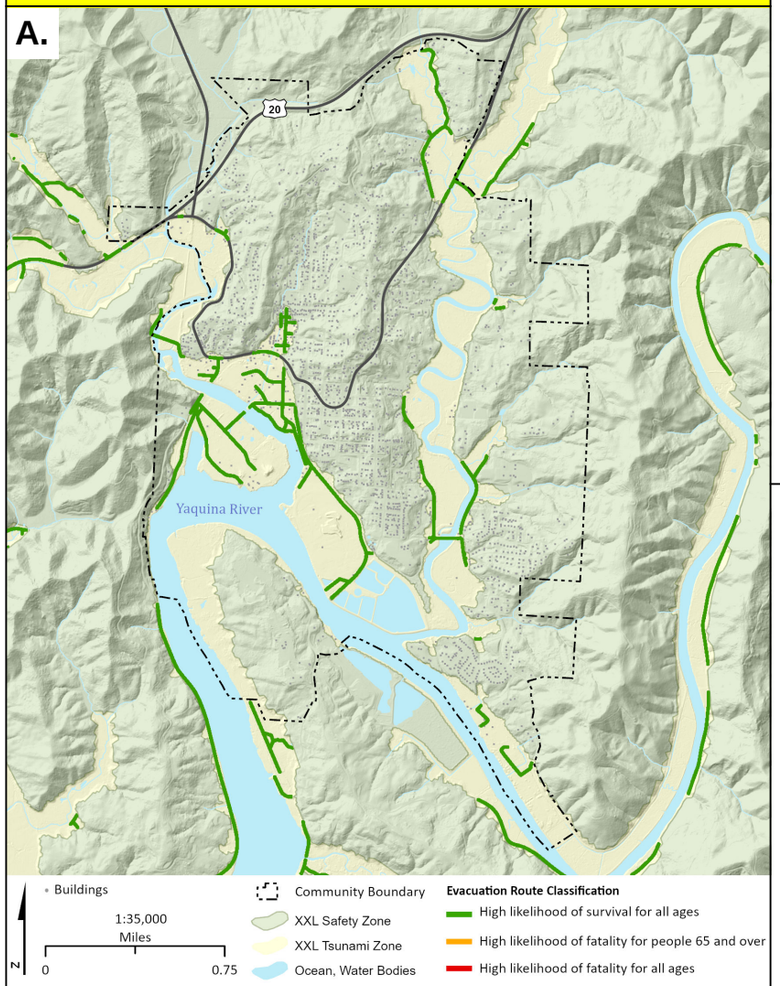


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	330
Displaced Population - Permanent + Temporary	510

Toledo - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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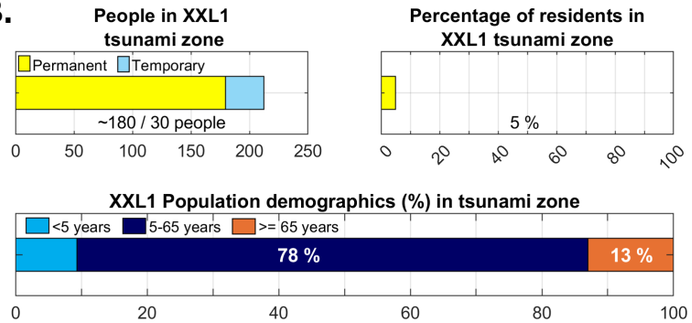

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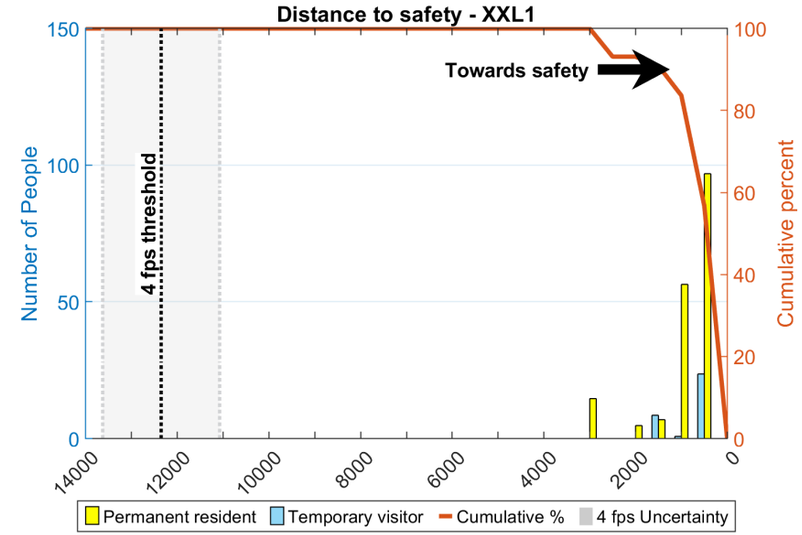
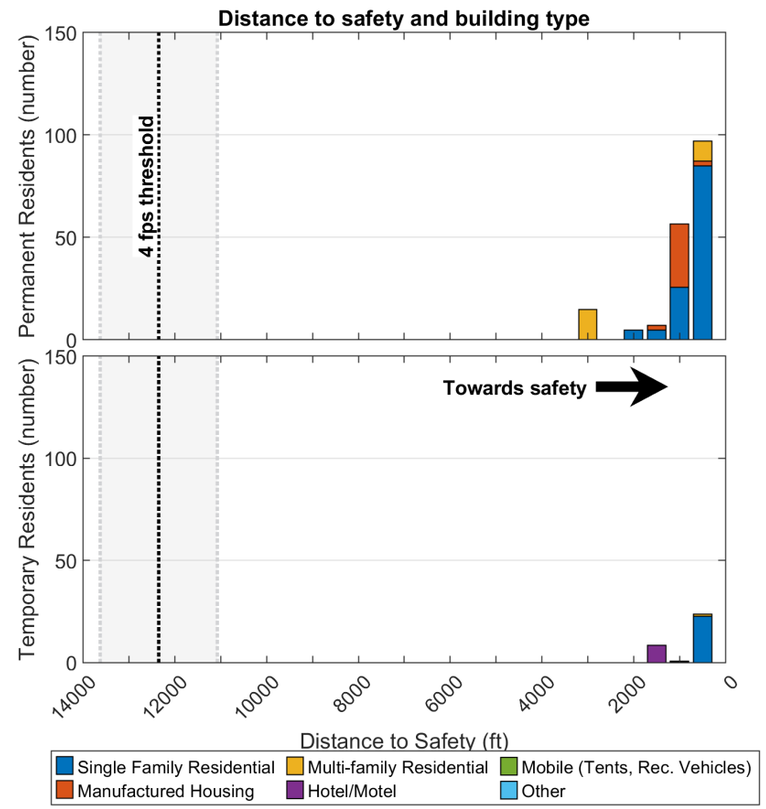


D.



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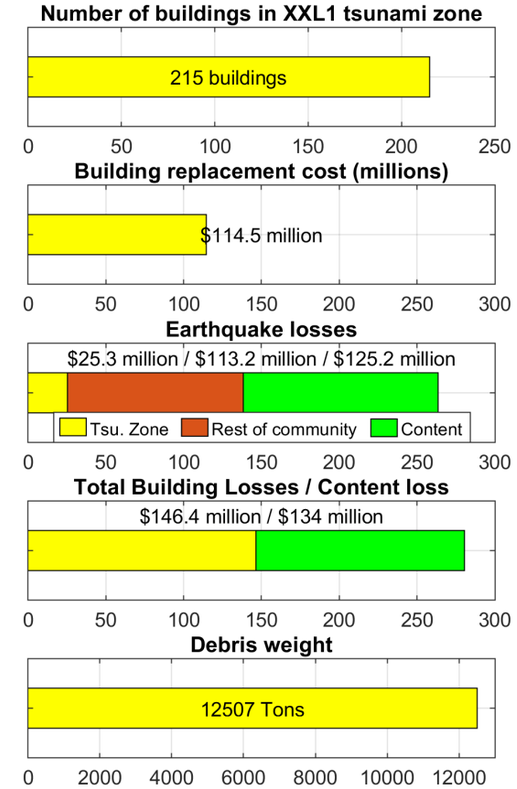

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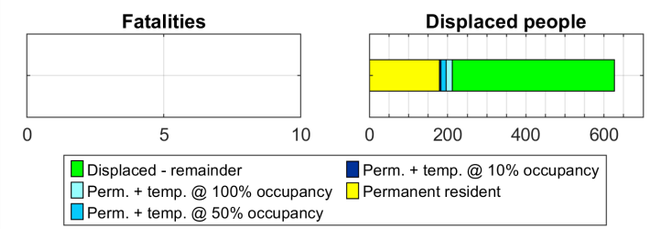
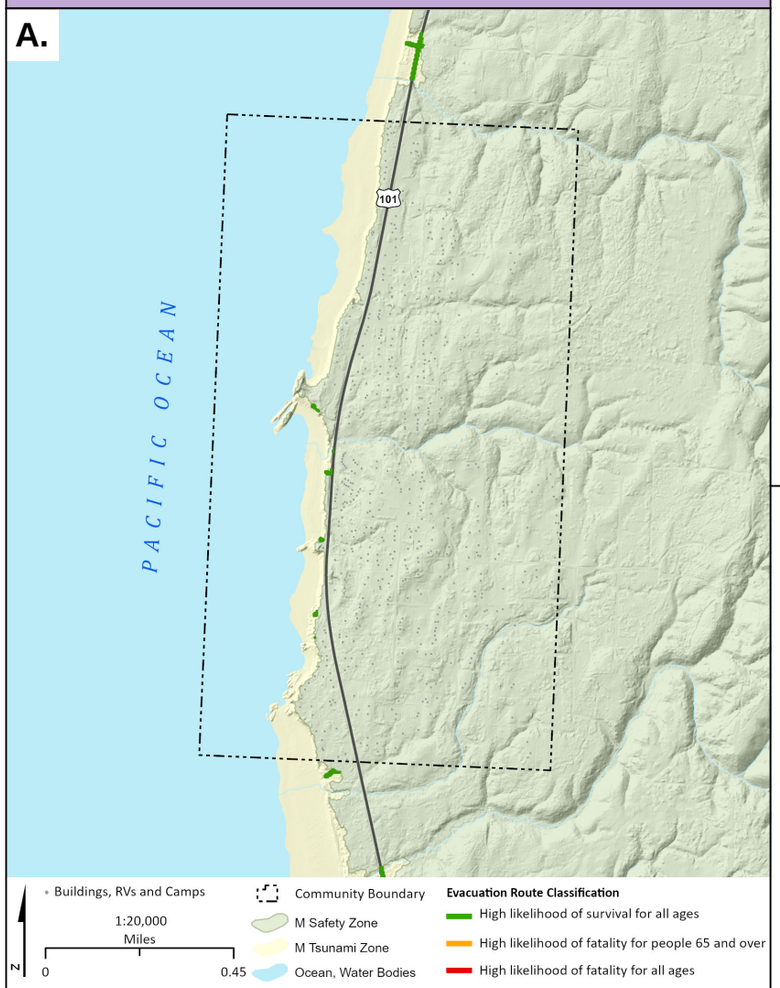


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	420
Displaced Population - Permanent + Temporary	630

Seal Rock - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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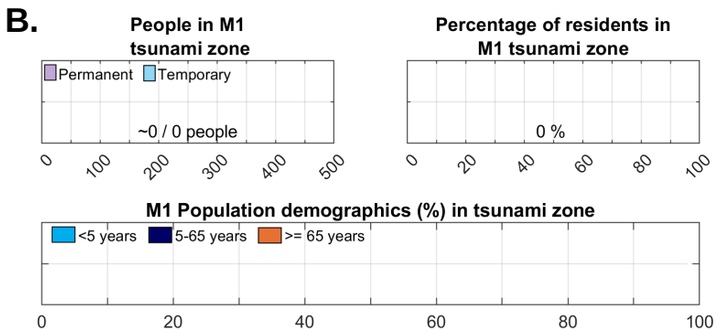

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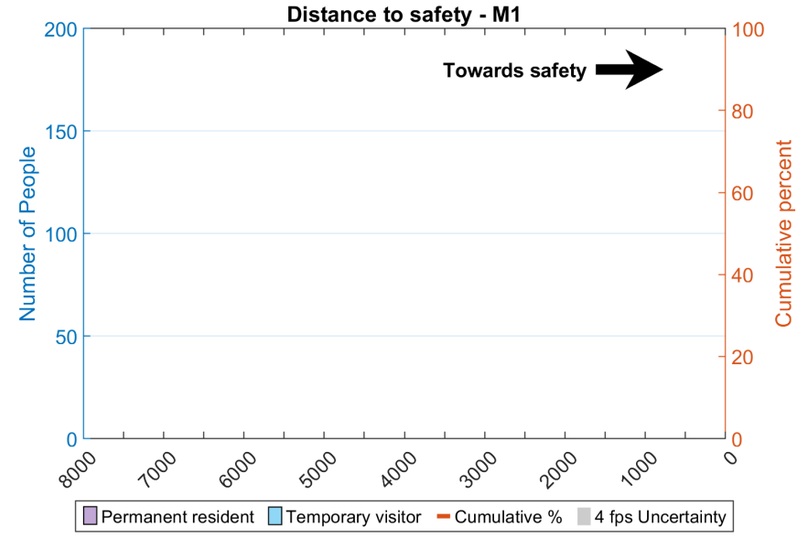

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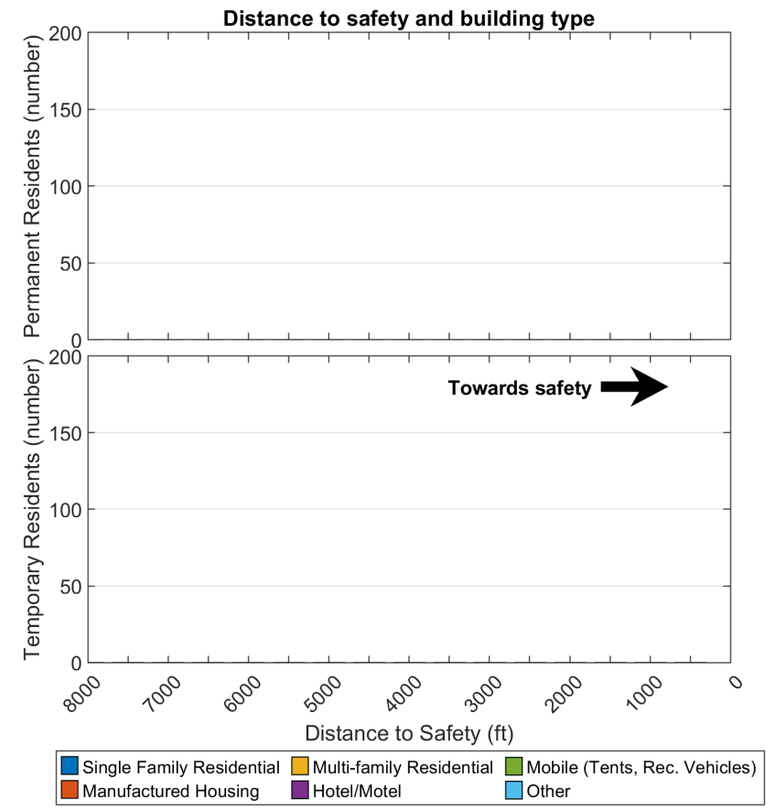

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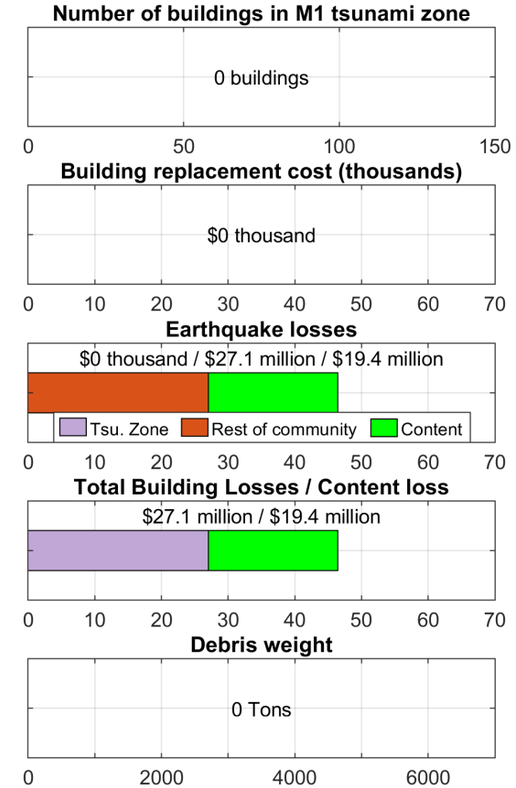
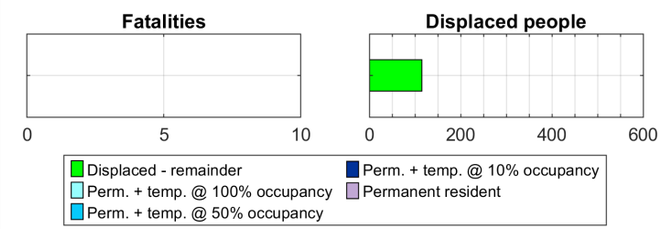


F.

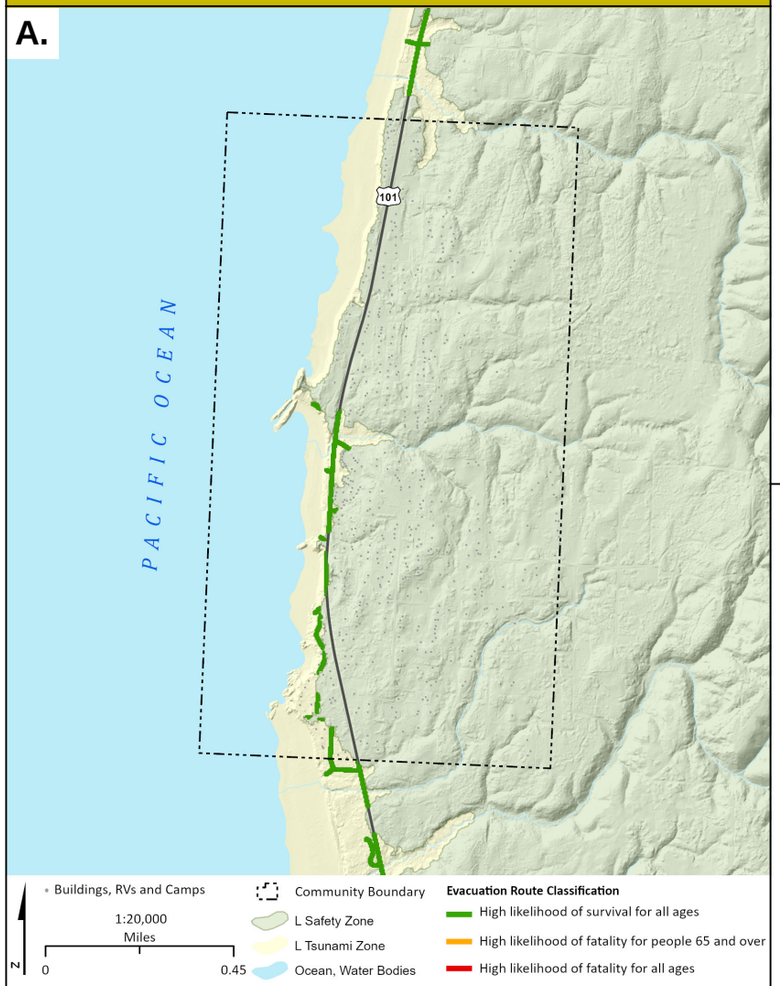


Description	Total
Earthquake Injuries (Entire Community)	20
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	80
Displaced Population - Permanent + Temporary	110

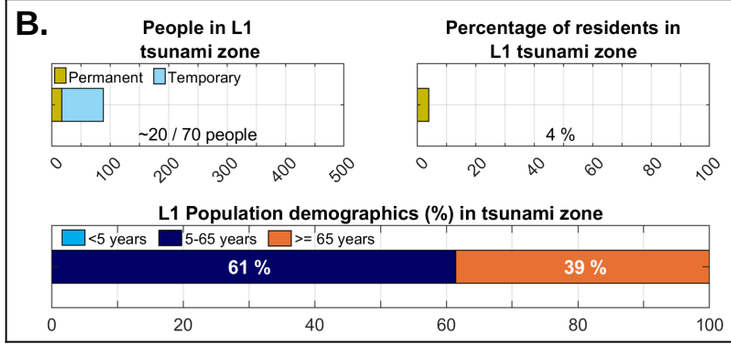
Seal Rock - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



B.



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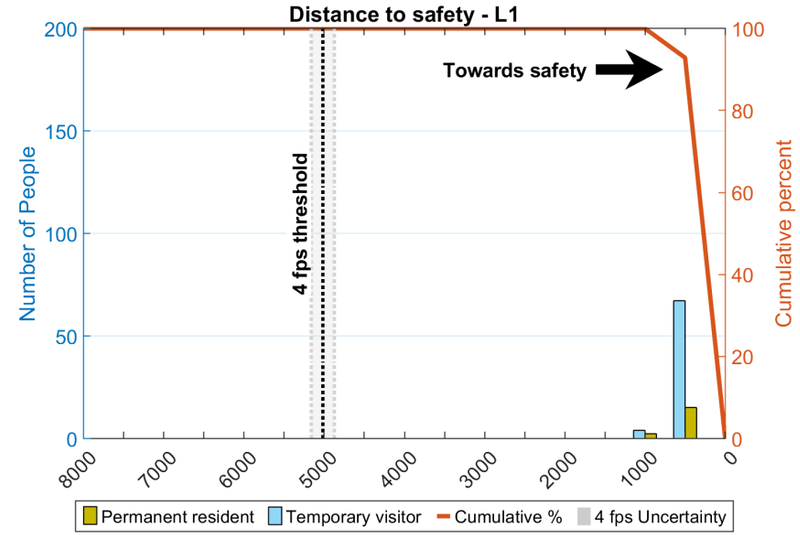

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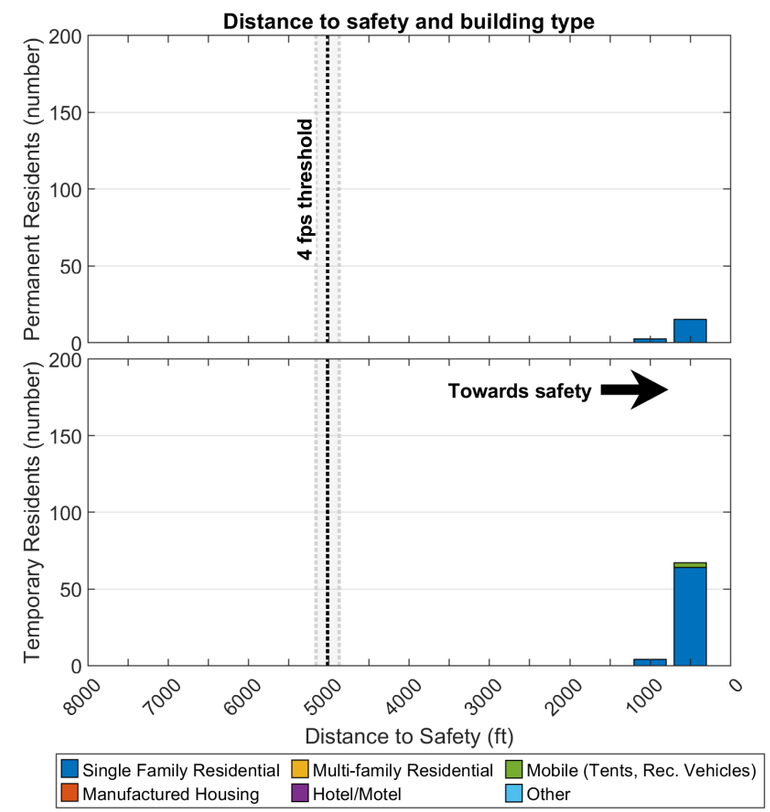

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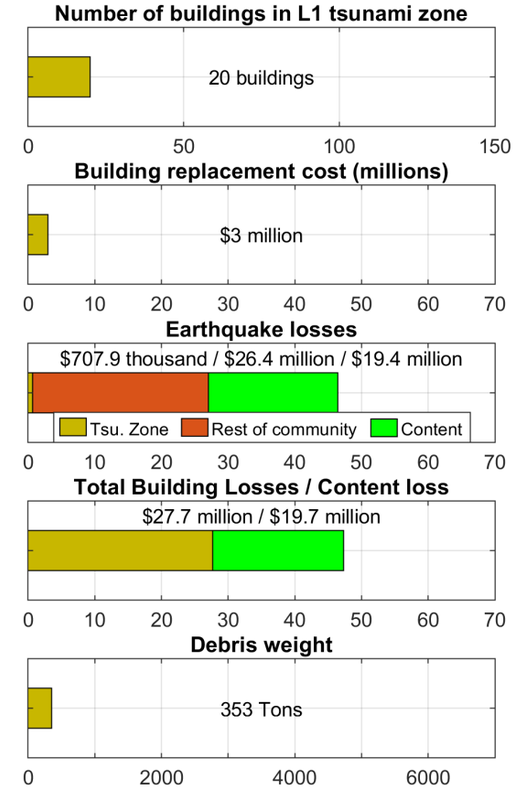

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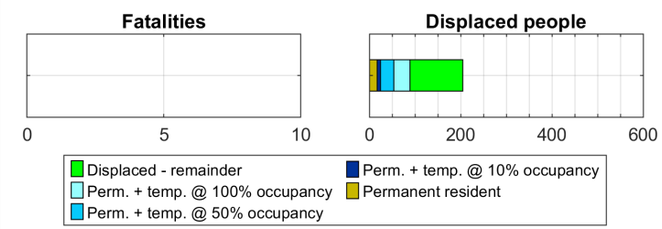
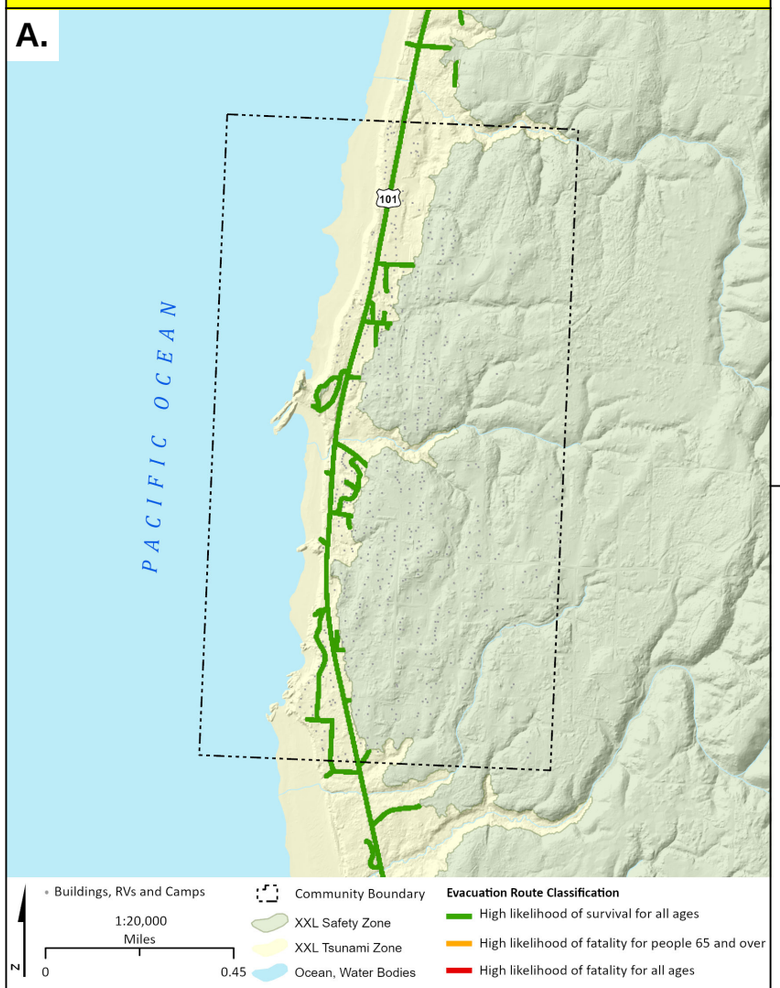


Description	Total
Earthquake Injuries (Entire Community)	20
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	100
Displaced Population - Permanent + Temporary	200

Seal Rock - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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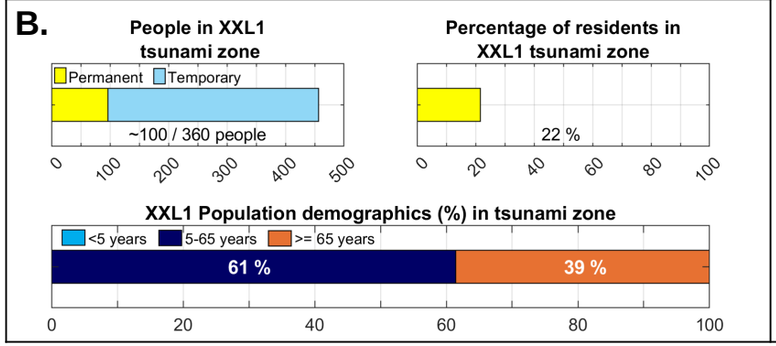

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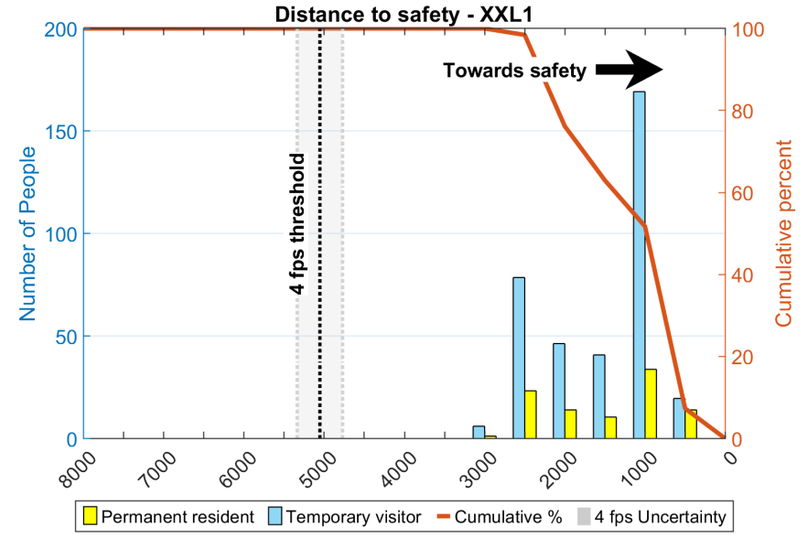
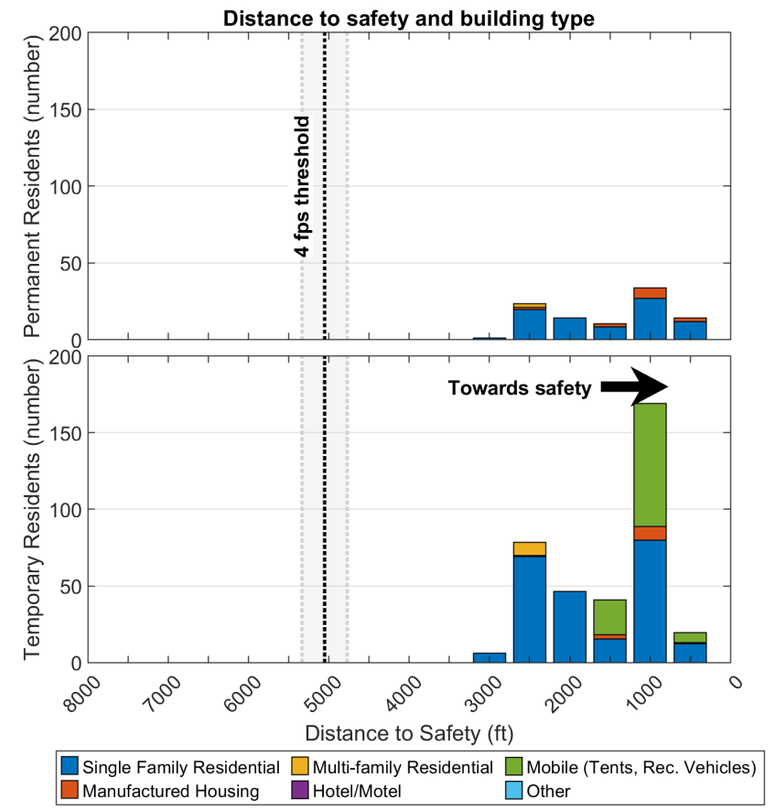
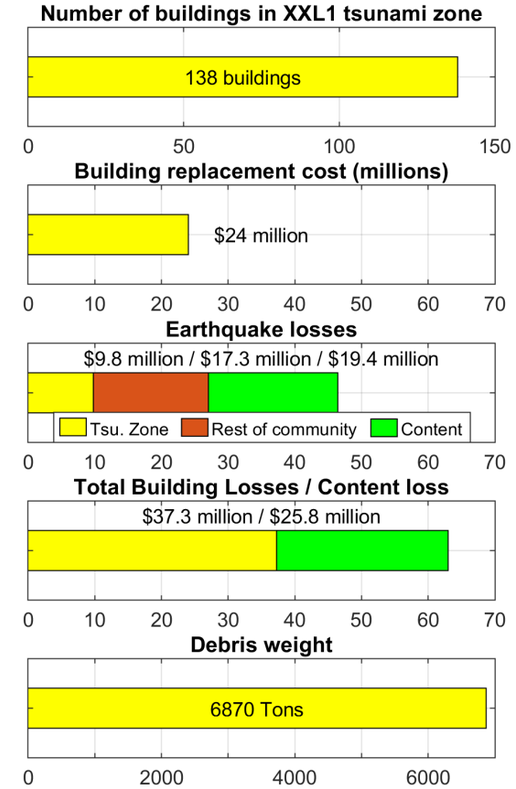


D.



E.



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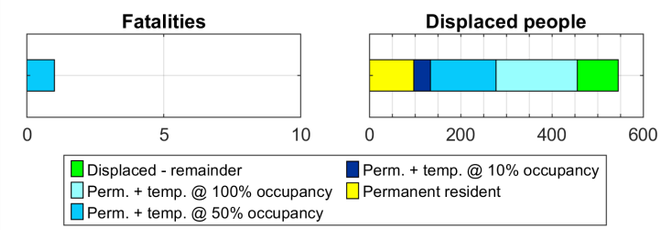
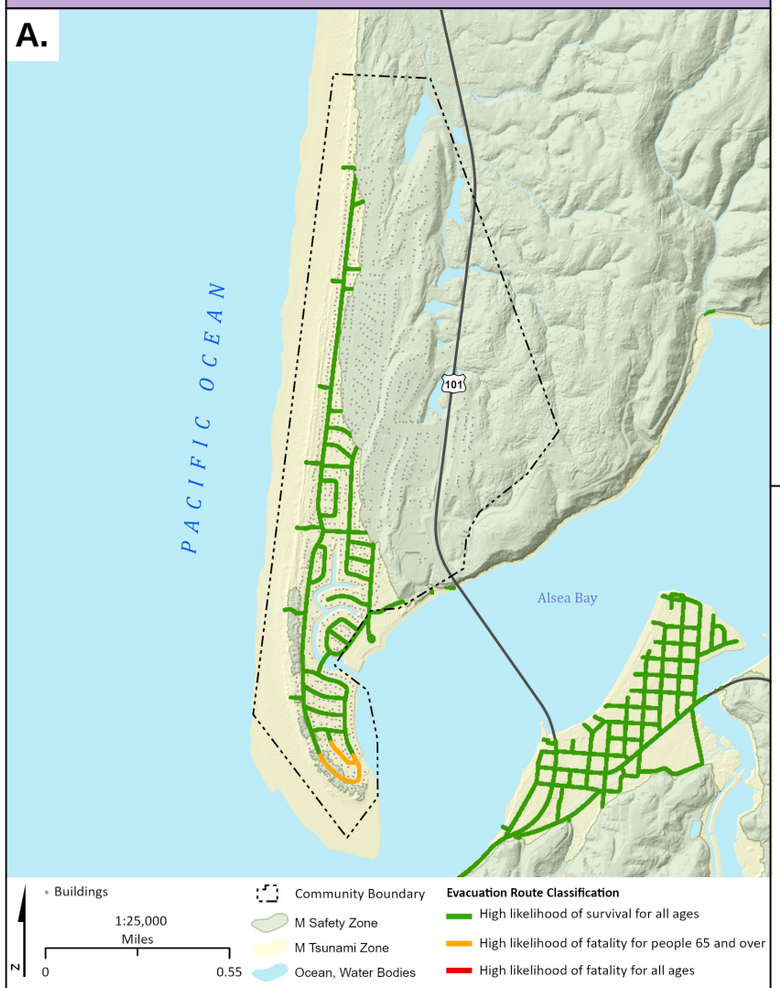


Description	Total
Earthquake Injuries (Entire Community)	20
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	170
Displaced Population - Permanent + Temporary	550

Bayshore - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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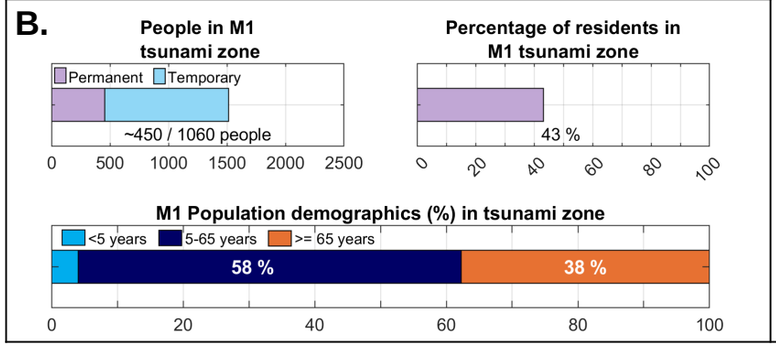

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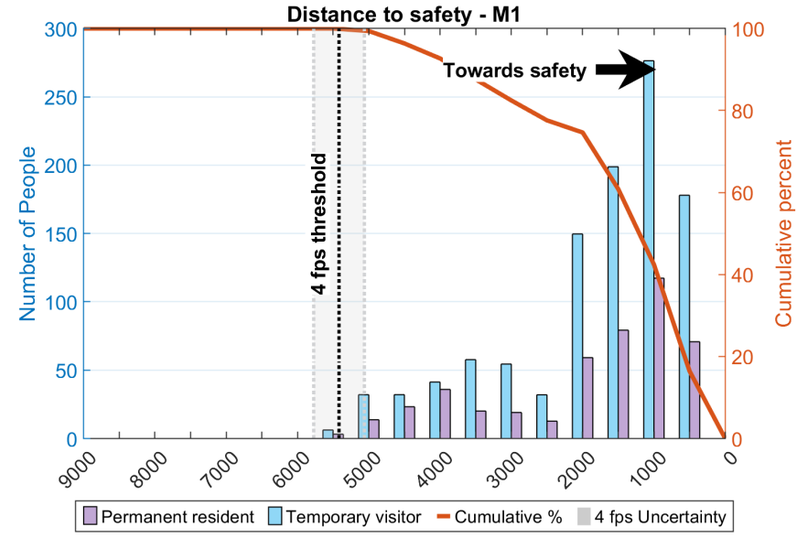
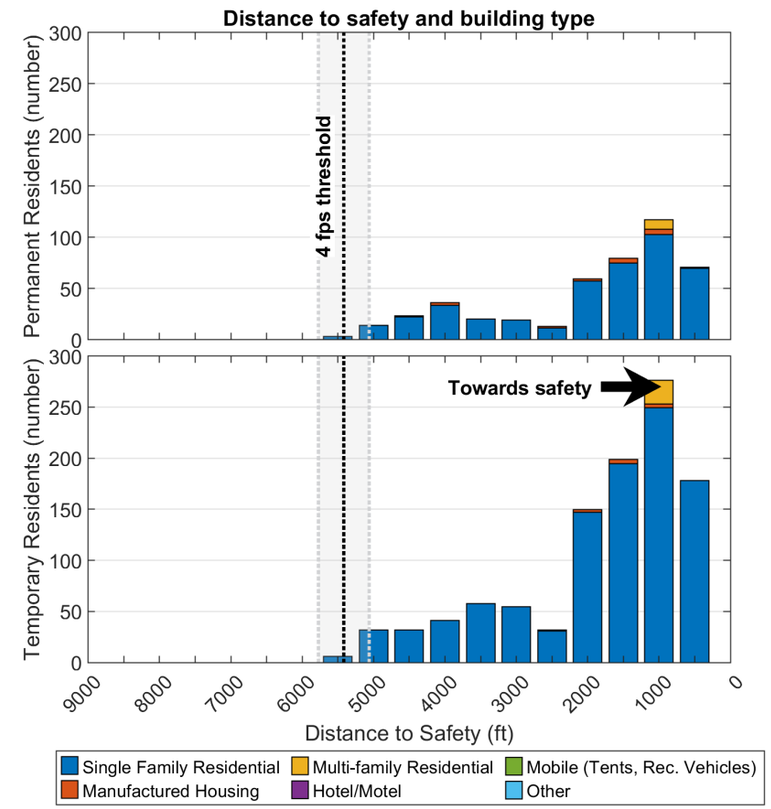


D.



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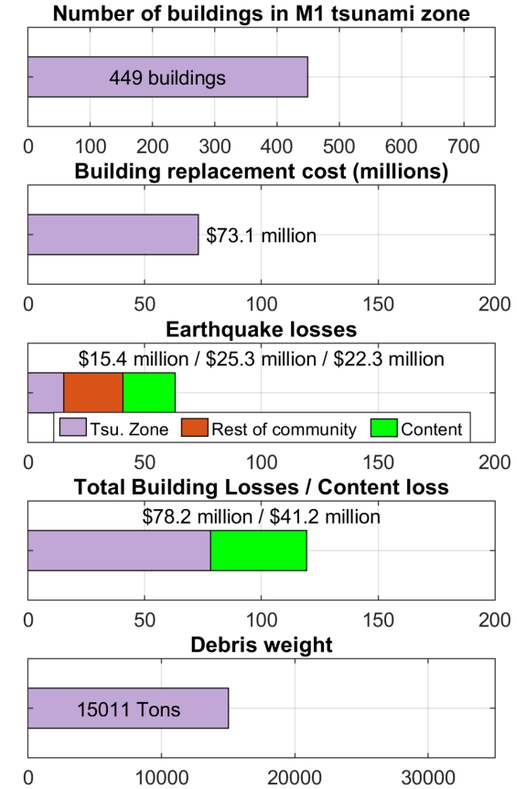

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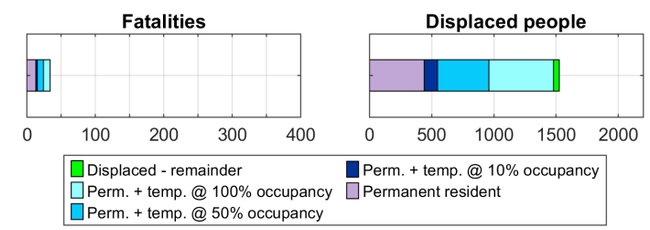
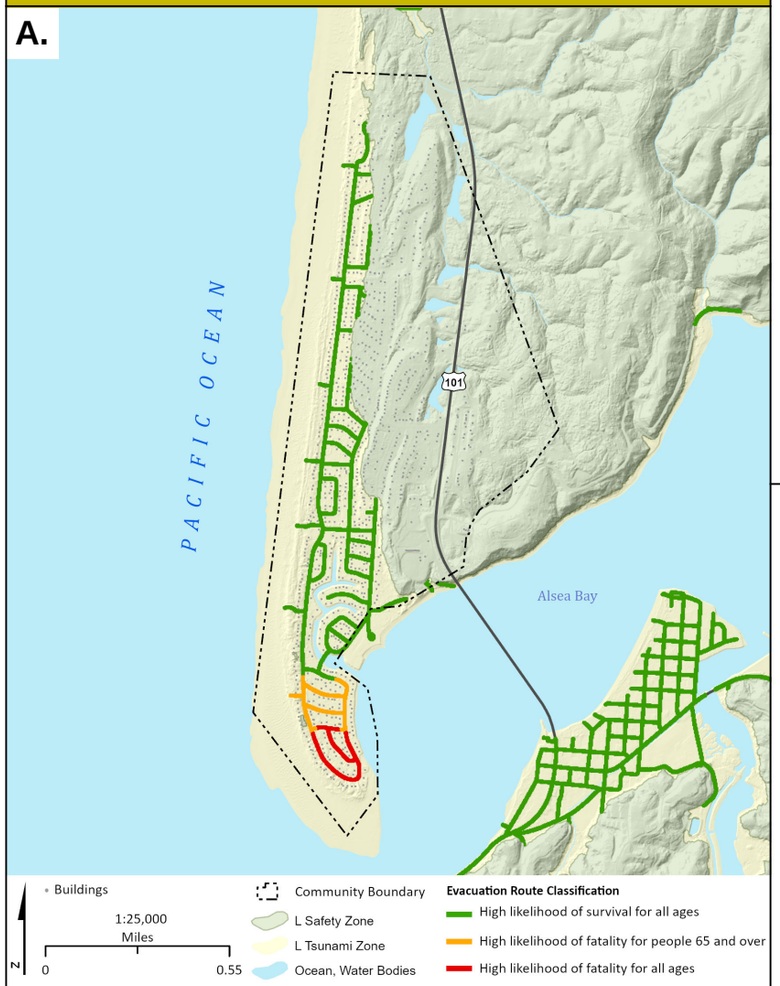


Description	Total
Earthquake Injuries (Entire Community)	40
Tsunami Injuries - Permanent + Temporary	10
Tsunami Fatalities - Permanent	10
Tsunami Fatalities - Temporary @ ~100% occupancy	20
Displaced Population - Permanent	460
Displaced Population - Permanent + Temporary	1,530

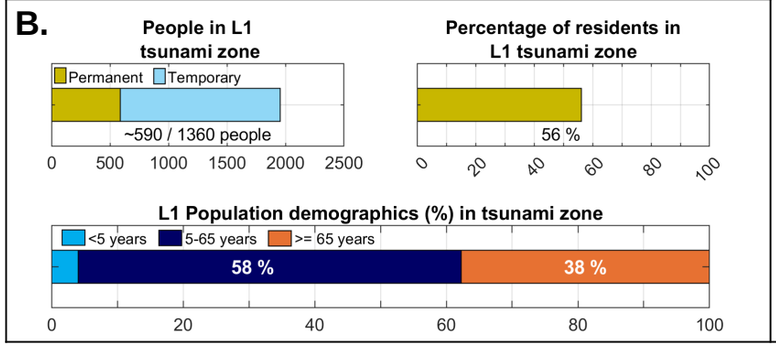
Bayshore - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



B.



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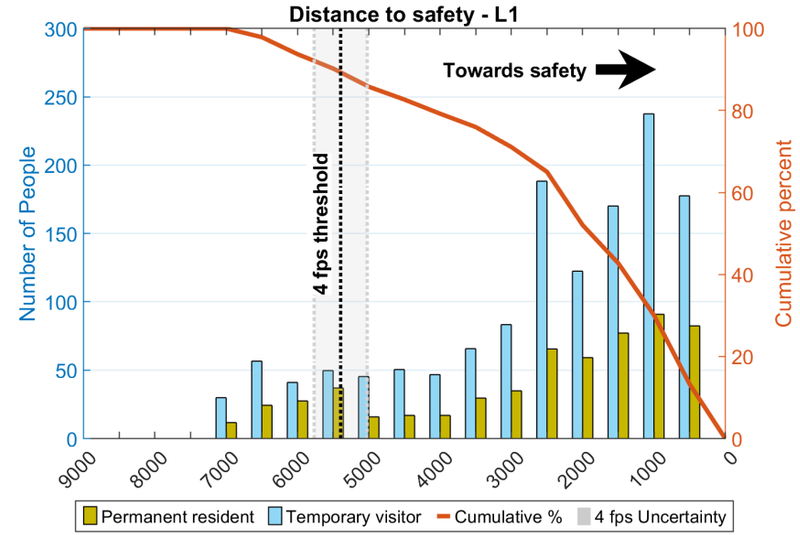
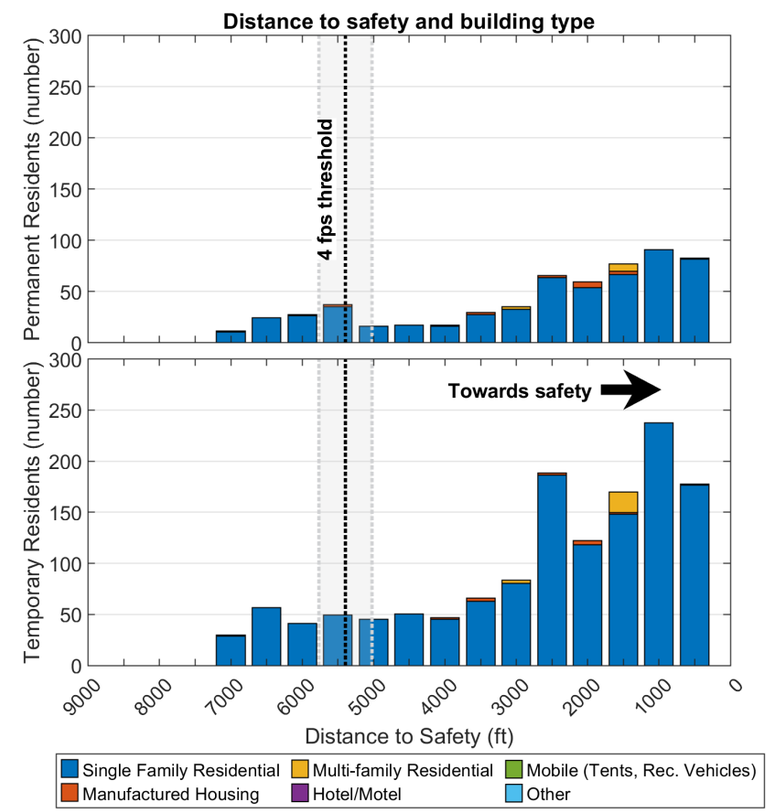


D.



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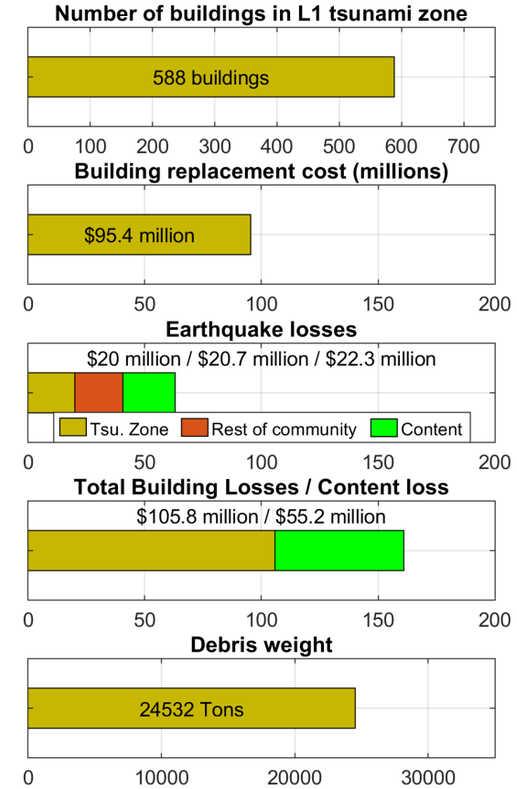

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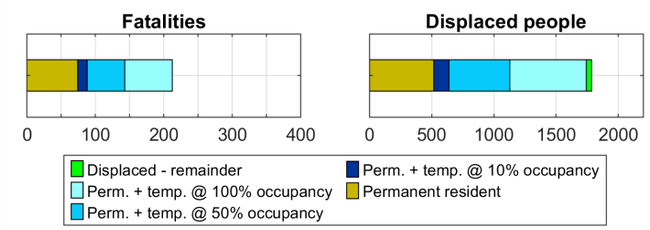
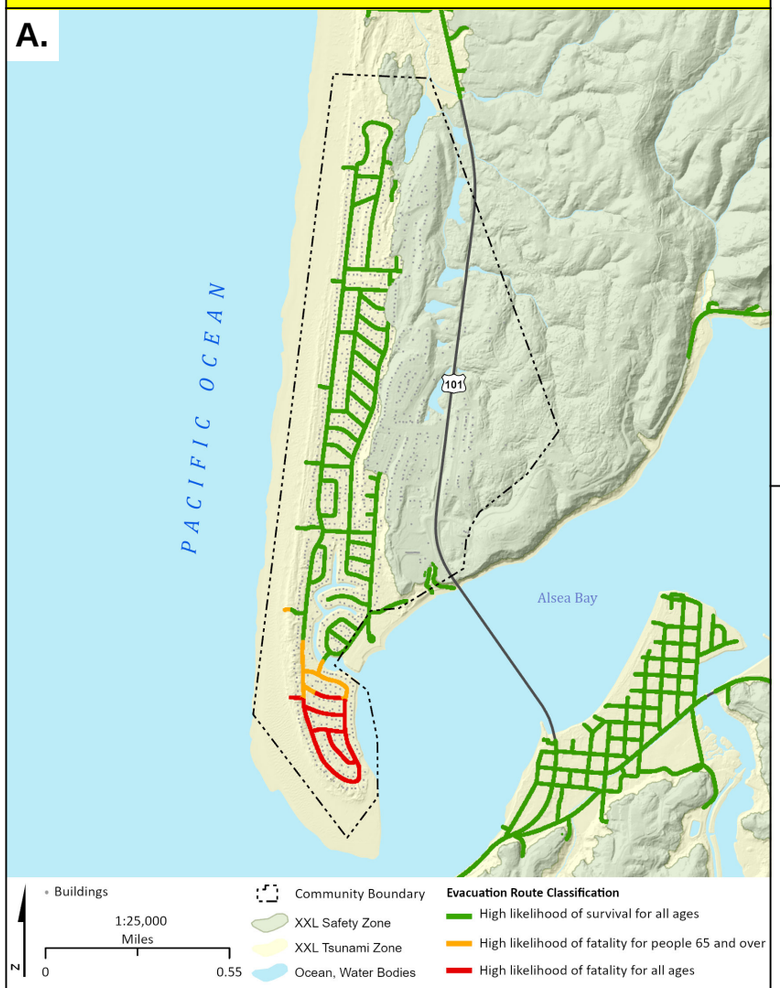


Description	Total
Earthquake Injuries (Entire Community)	40
Tsunami Injuries - Permanent + Temporary	50
Tsunami Fatalities - Permanent	70
Tsunami Fatalities - Temporary @ ~100% occupancy	140
Displaced Population - Permanent	540
Displaced Population - Permanent + Temporary	1,790

Bayshore - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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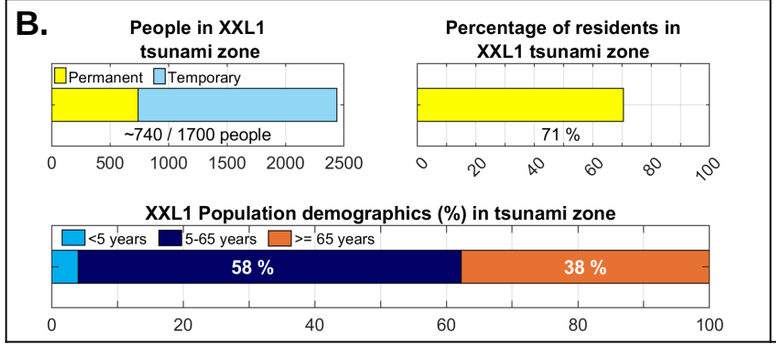
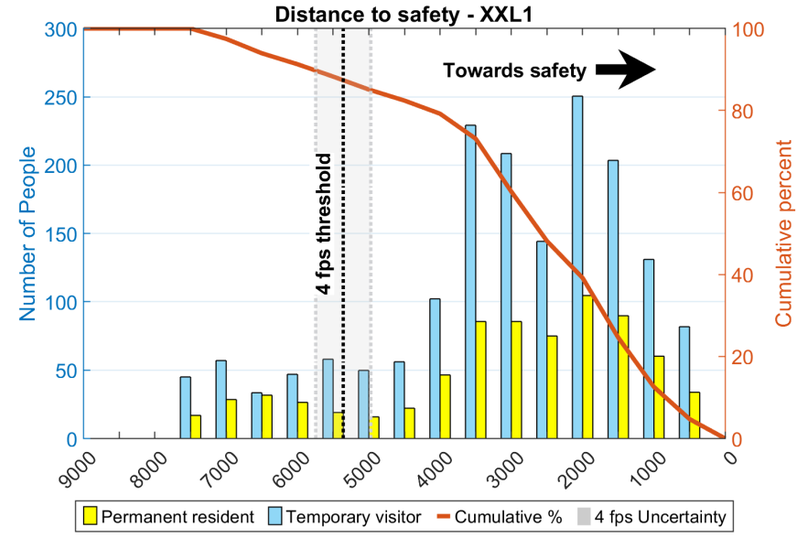


C.



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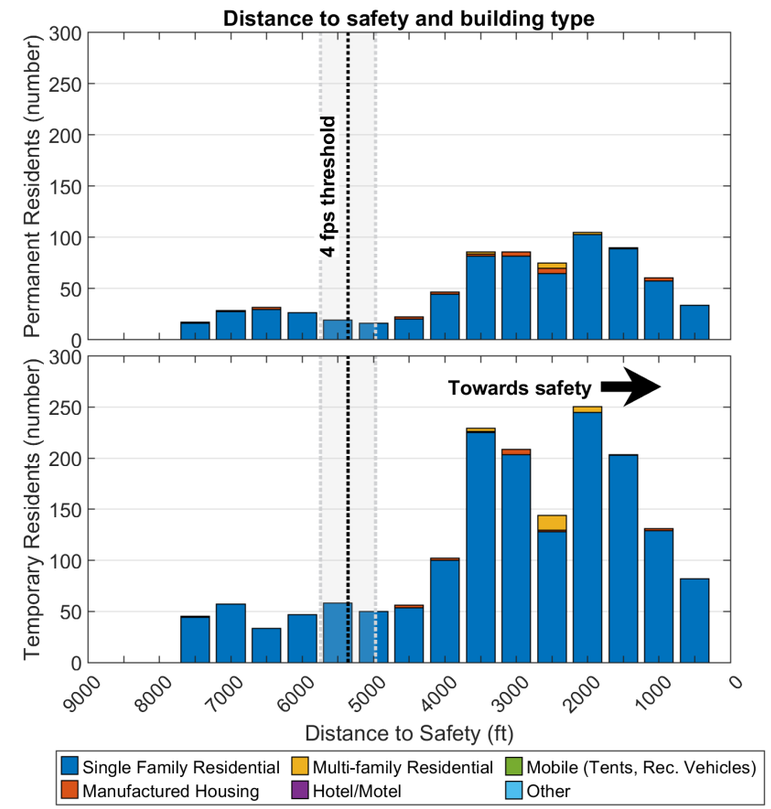

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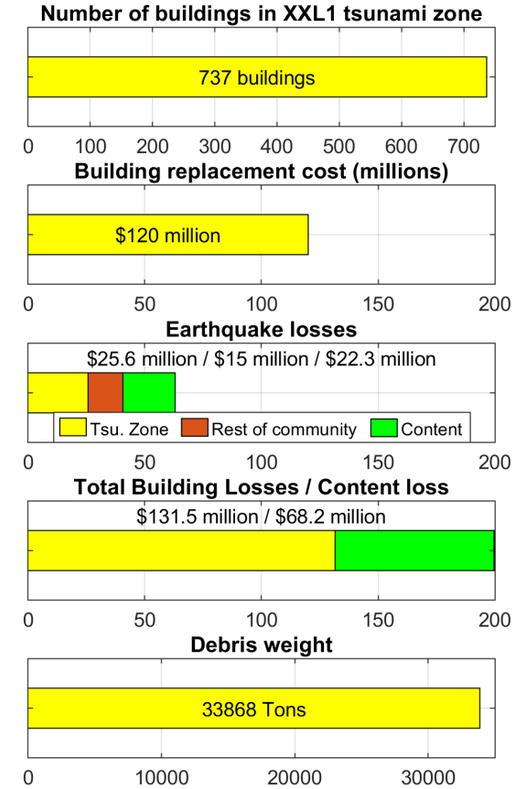
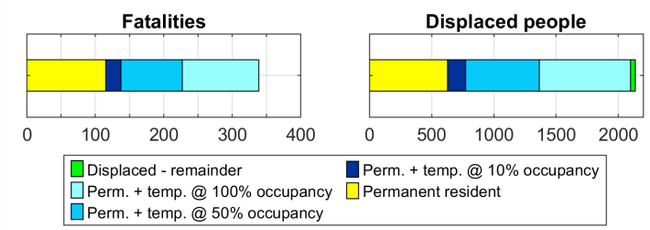


F.

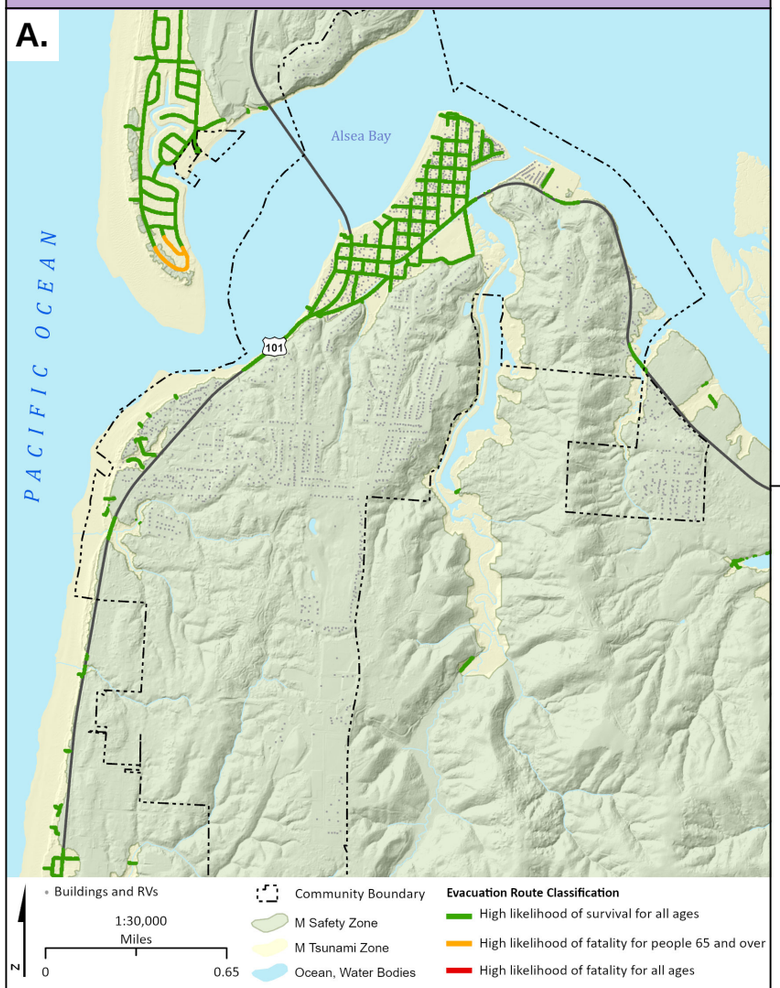


Description	Total
Earthquake Injuries (Entire Community)	40
Tsunami Injuries - Permanent + Temporary	30
Tsunami Fatalities - Permanent	120
Tsunami Fatalities - Temporary @ ~100% occupancy	220
Displaced Population - Permanent	640
Displaced Population - Permanent + Temporary	2,140

Waldport - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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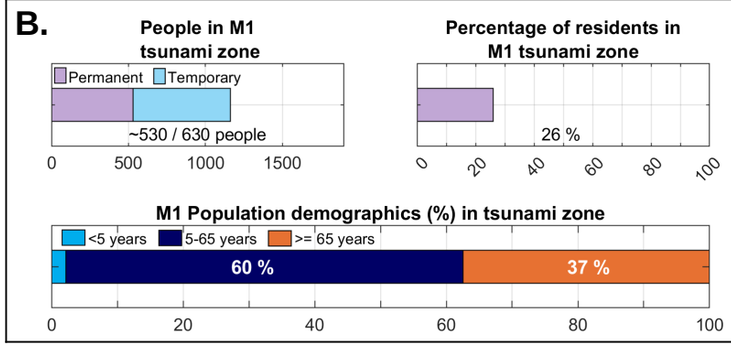

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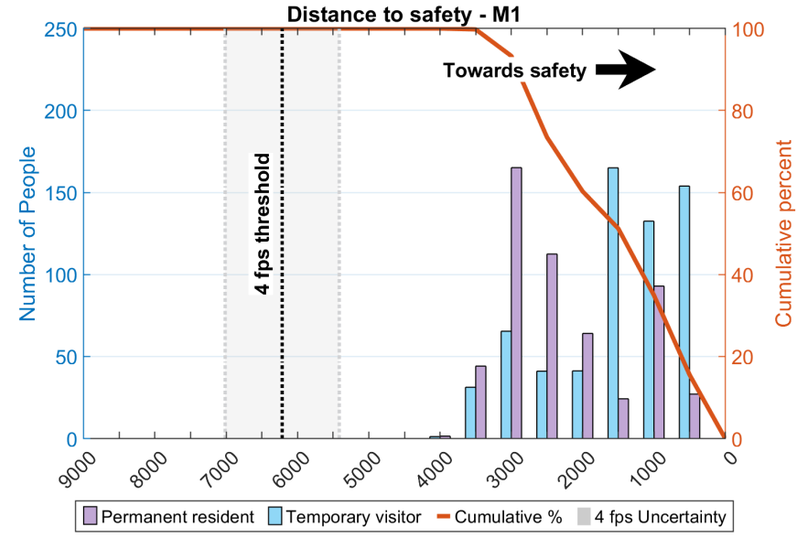
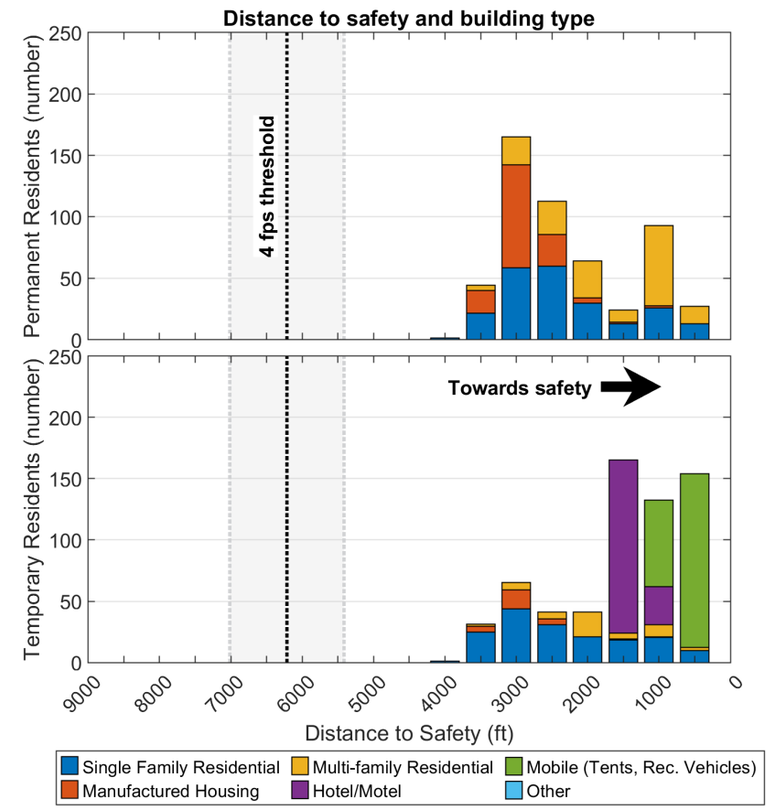


D.



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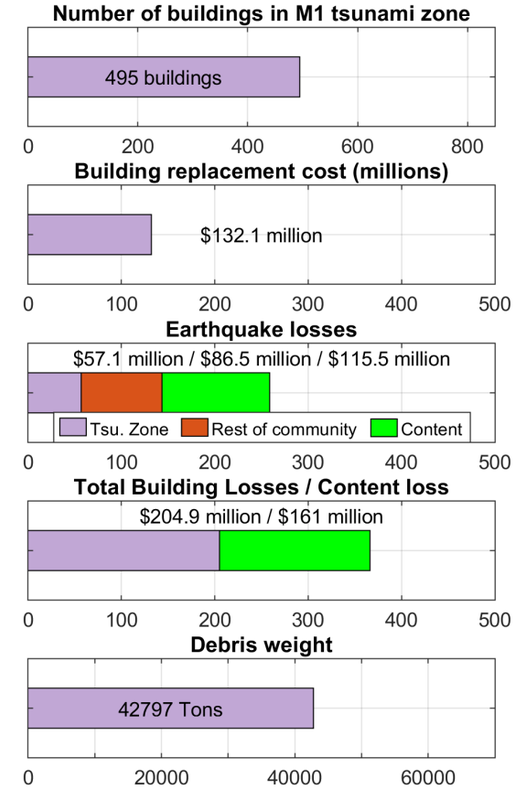

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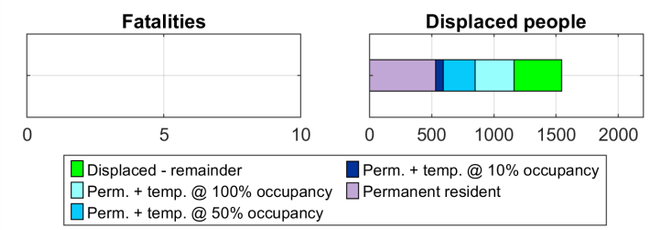
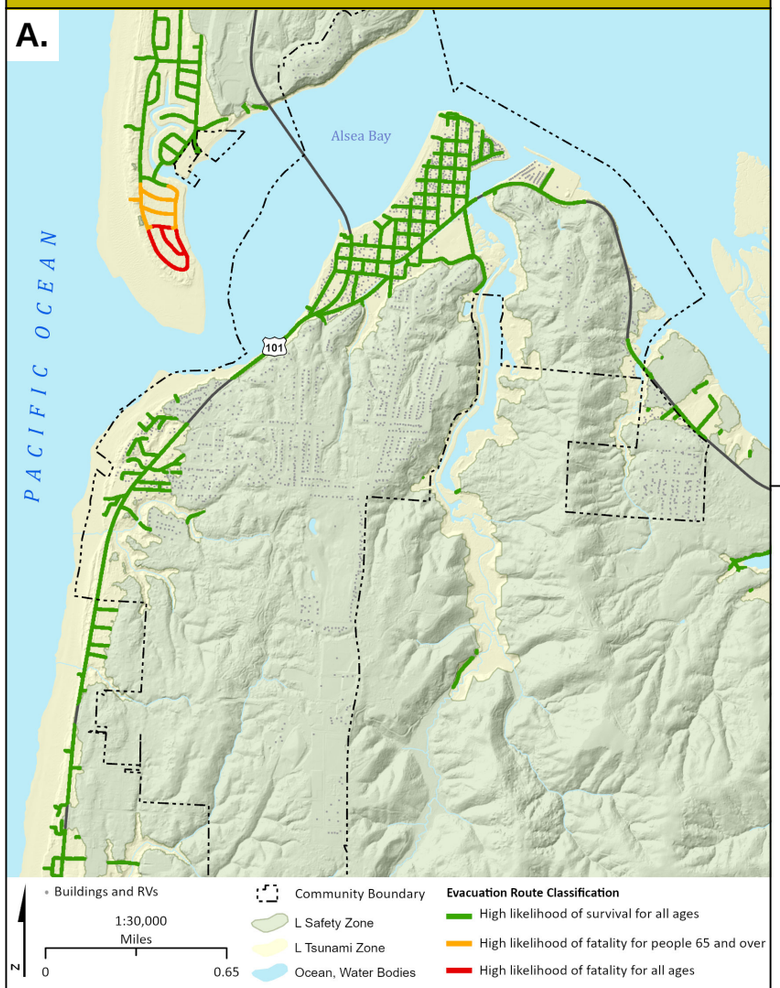


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	840
Displaced Population - Permanent + Temporary	1,540

Waldport - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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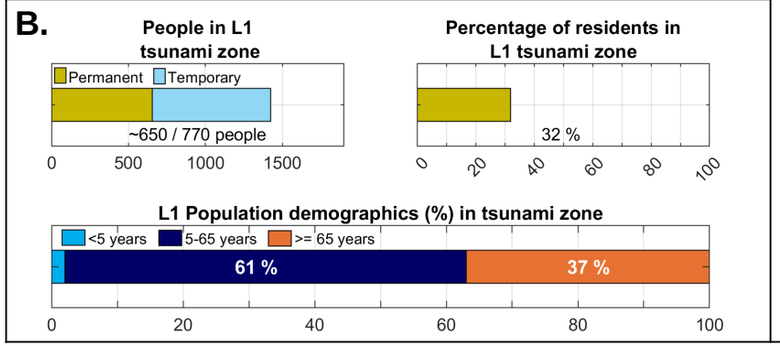

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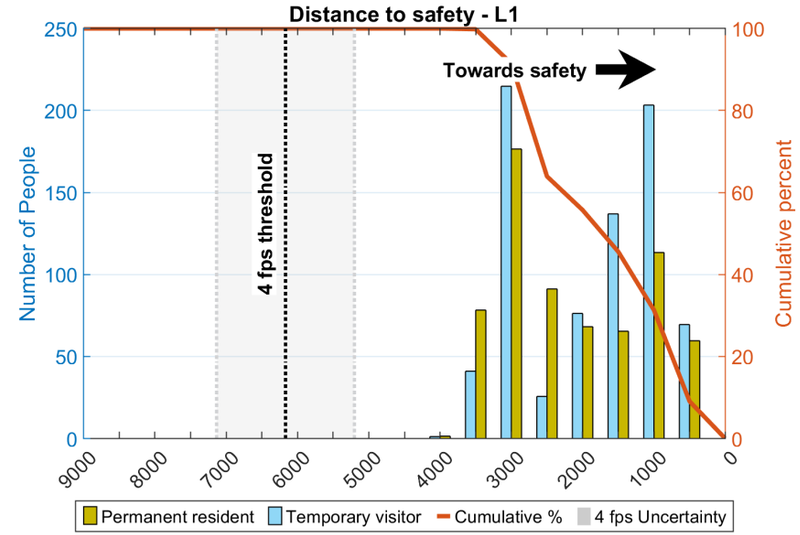
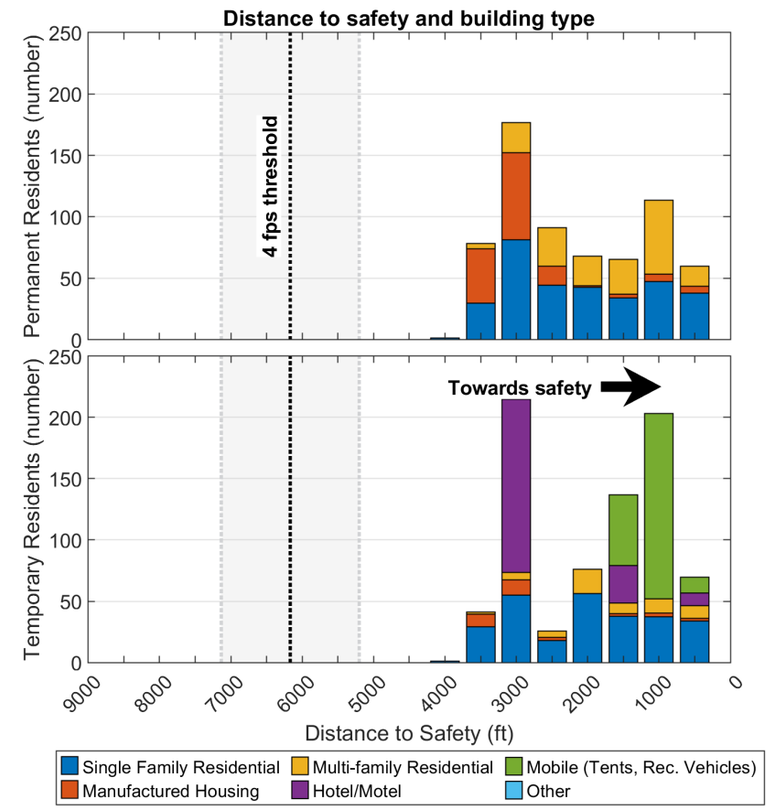


D.



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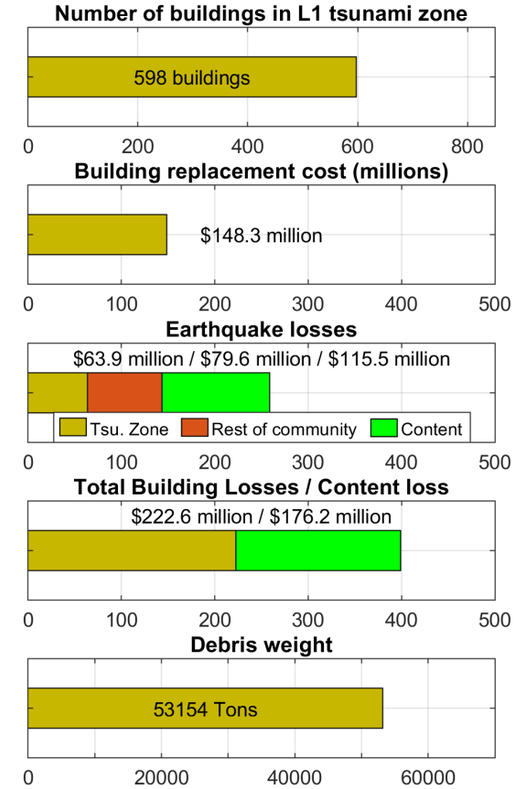

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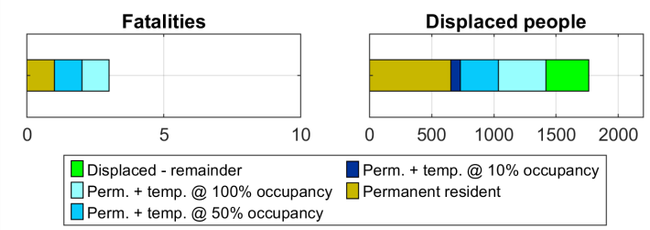
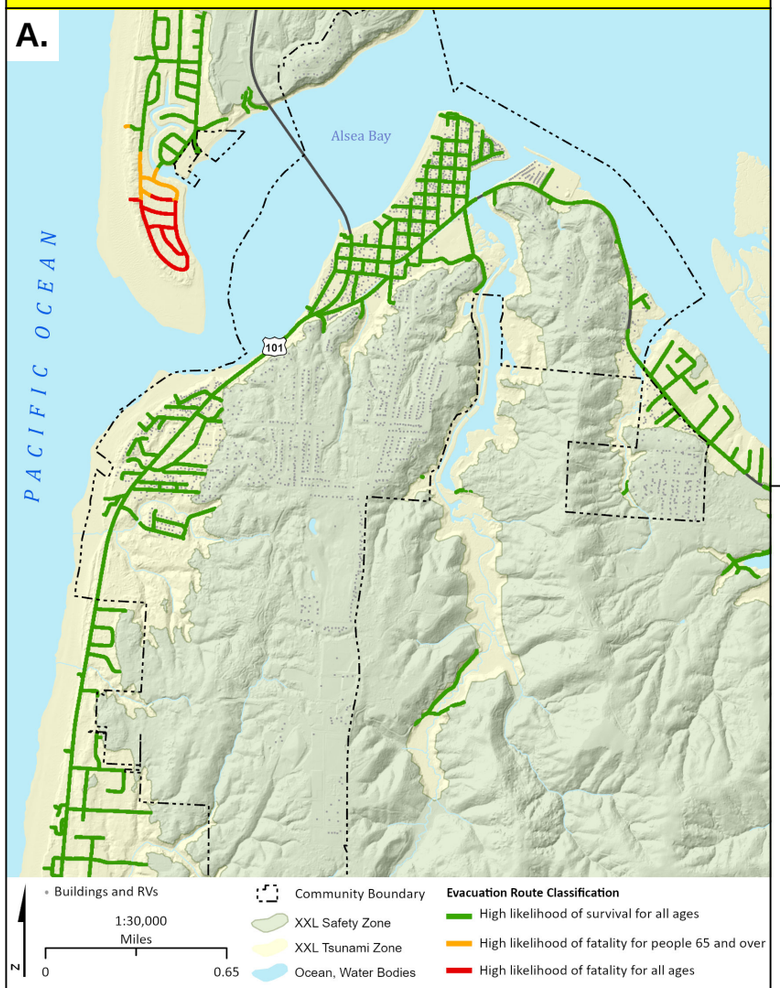


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	940
Displaced Population - Permanent + Temporary	1,760

Waldport - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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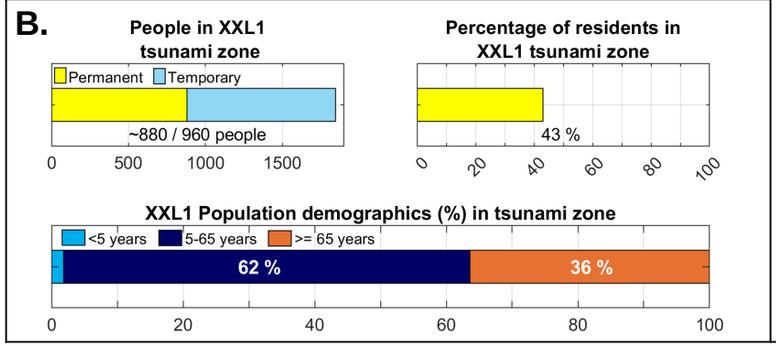

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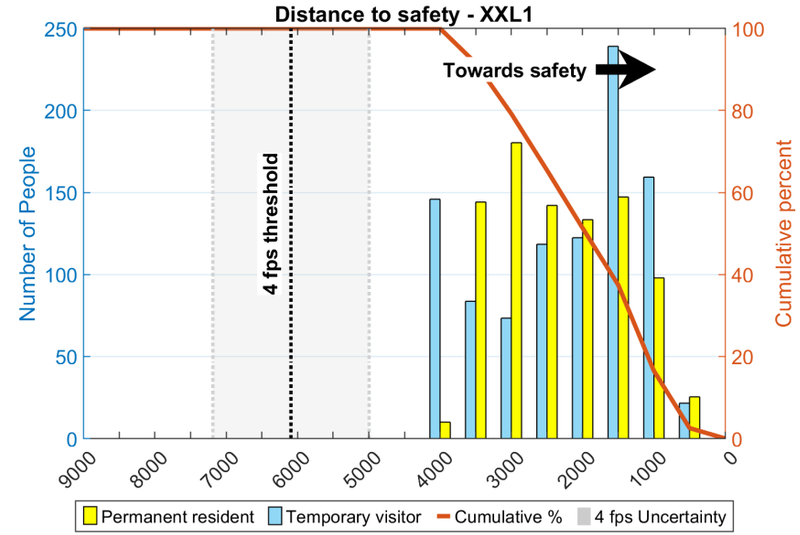

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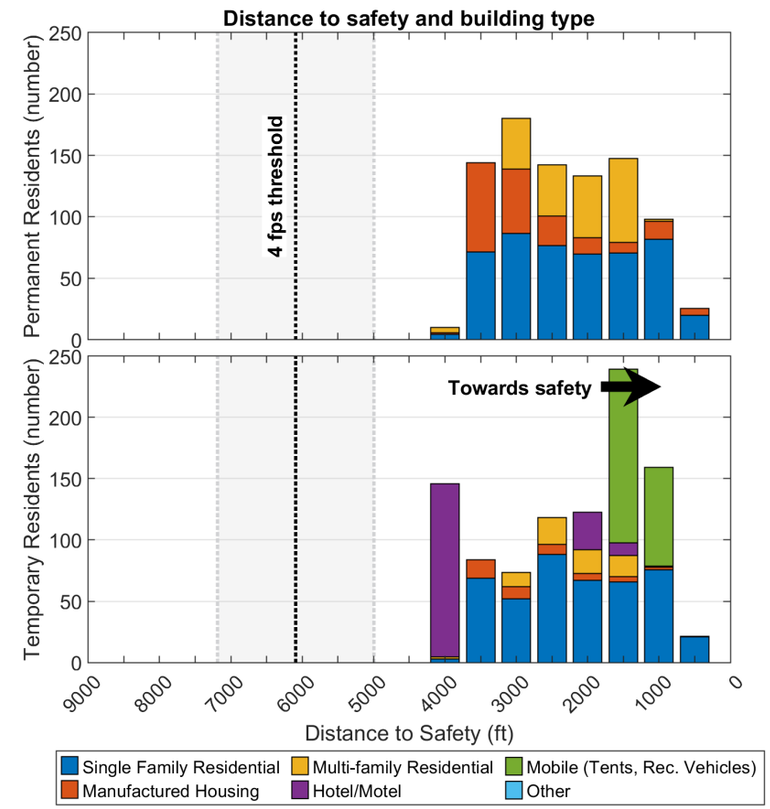

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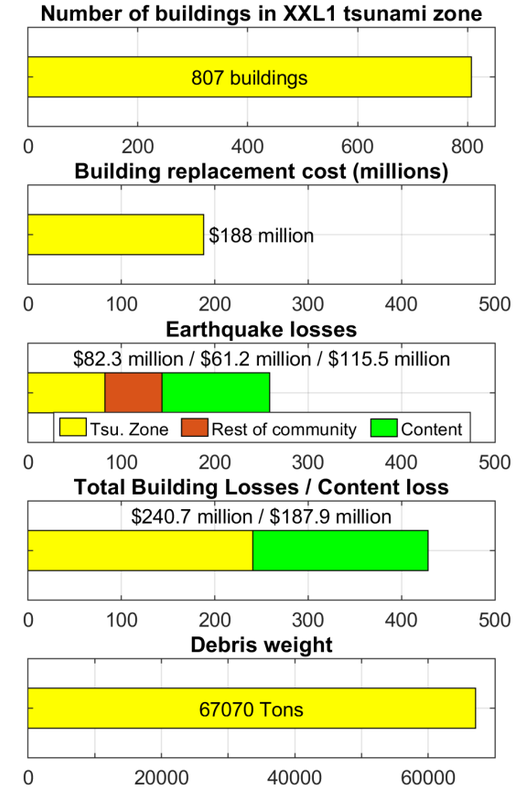

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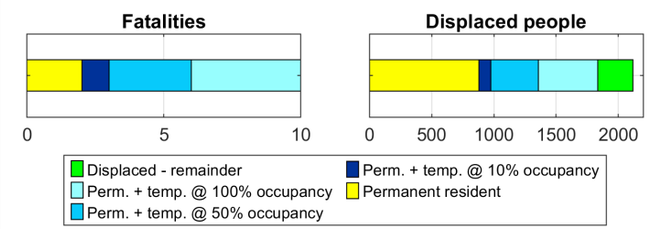
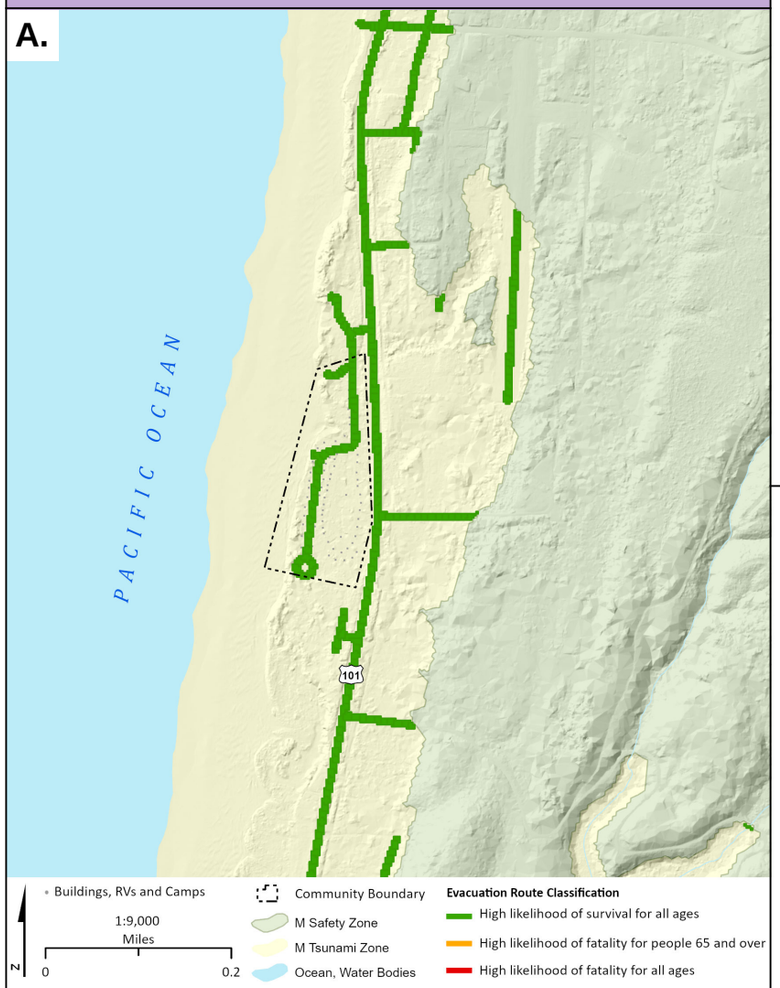


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	10
Displaced Population - Permanent	1,120
Displaced Population - Permanent + Temporary	2,120

Beachside State Recreation Site - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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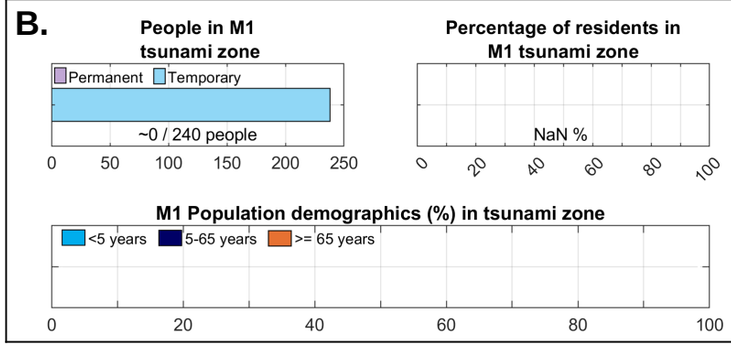

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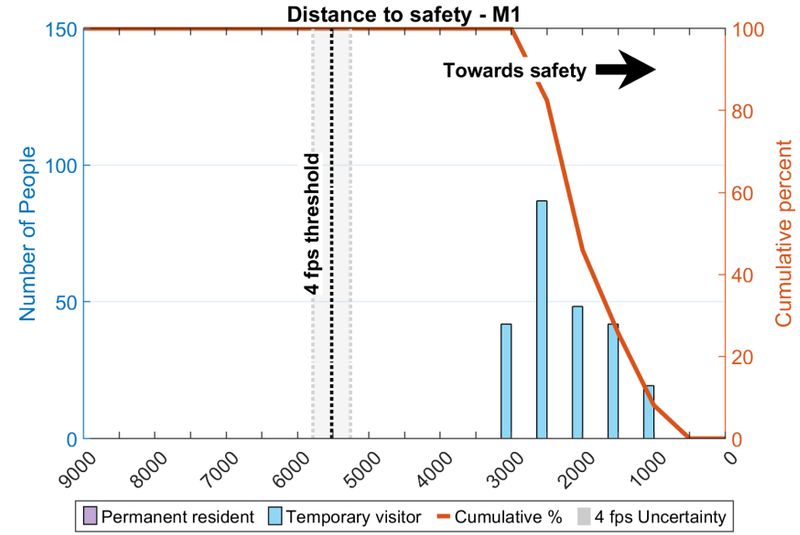

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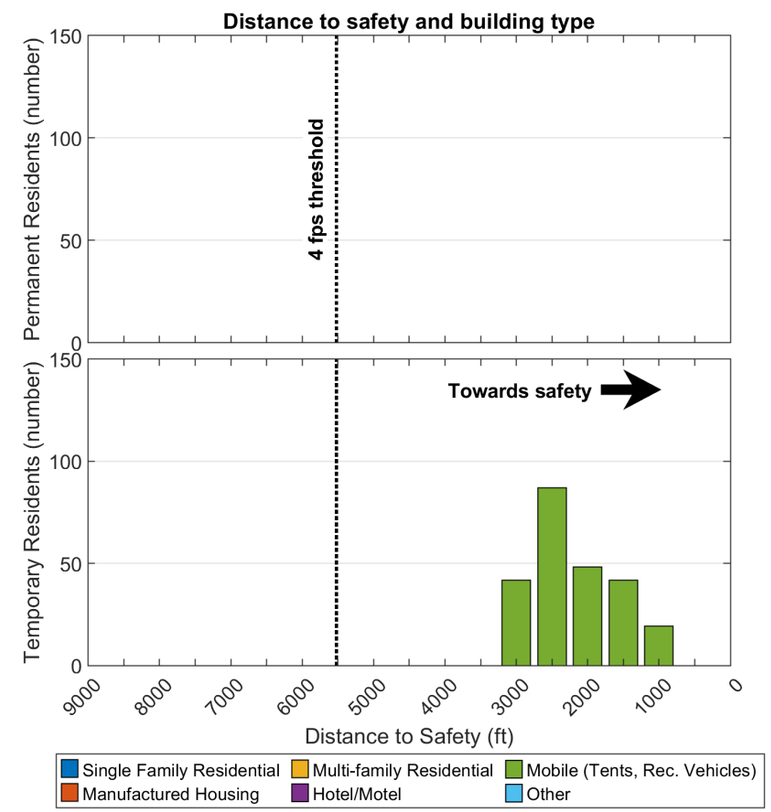

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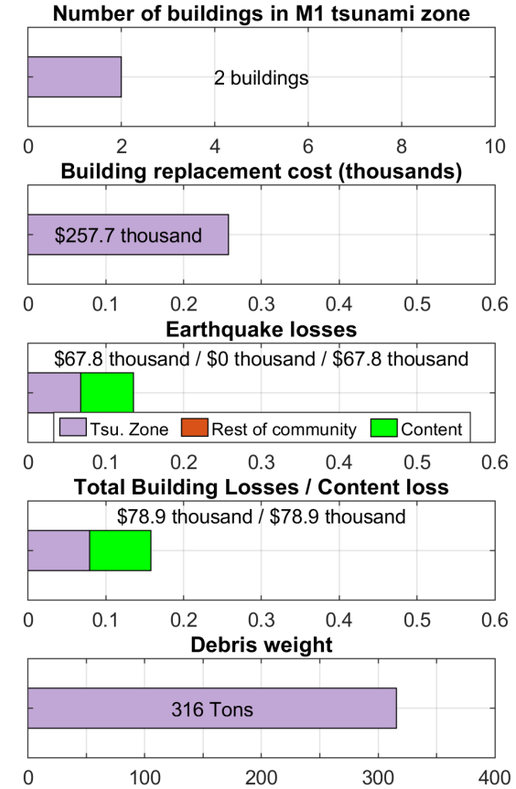

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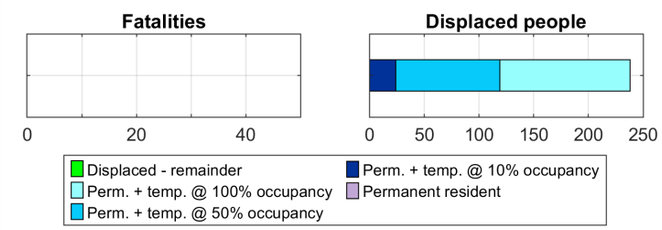
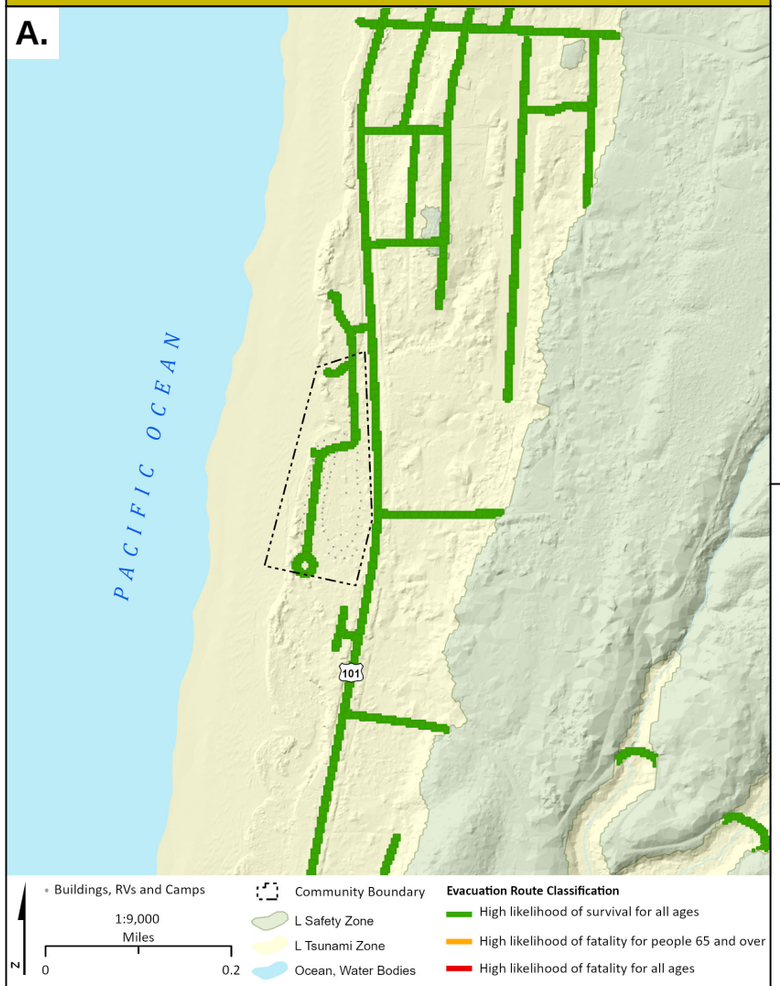


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	240

Beachside State Recreation Site - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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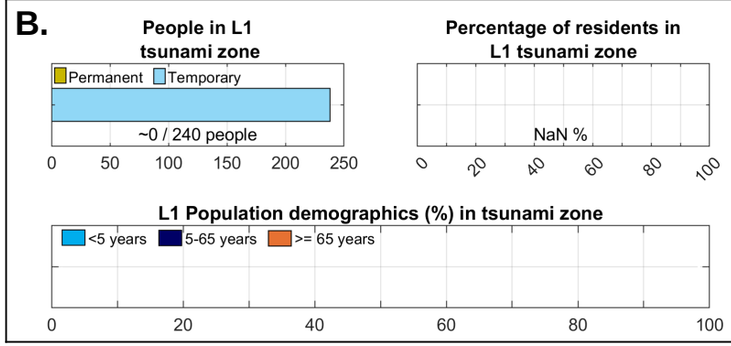

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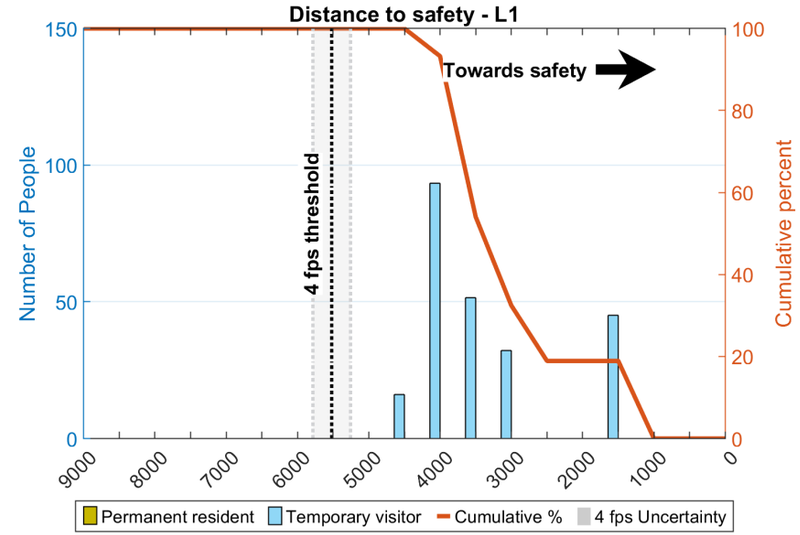

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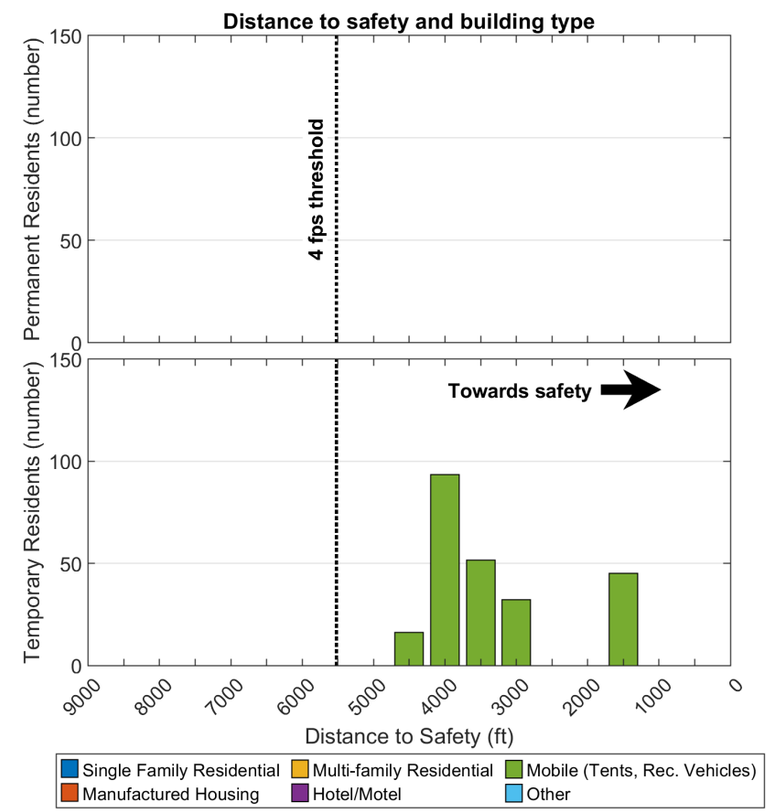
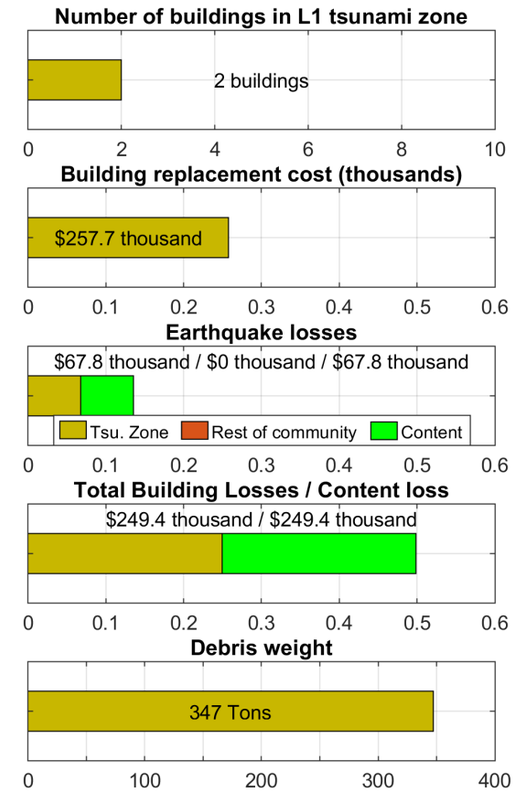


E.



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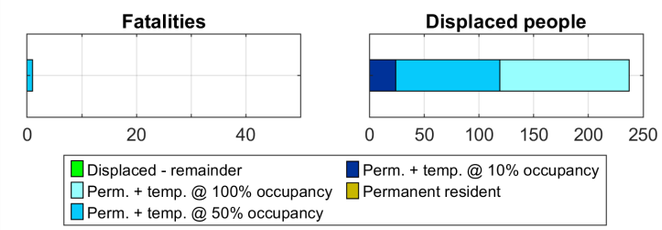
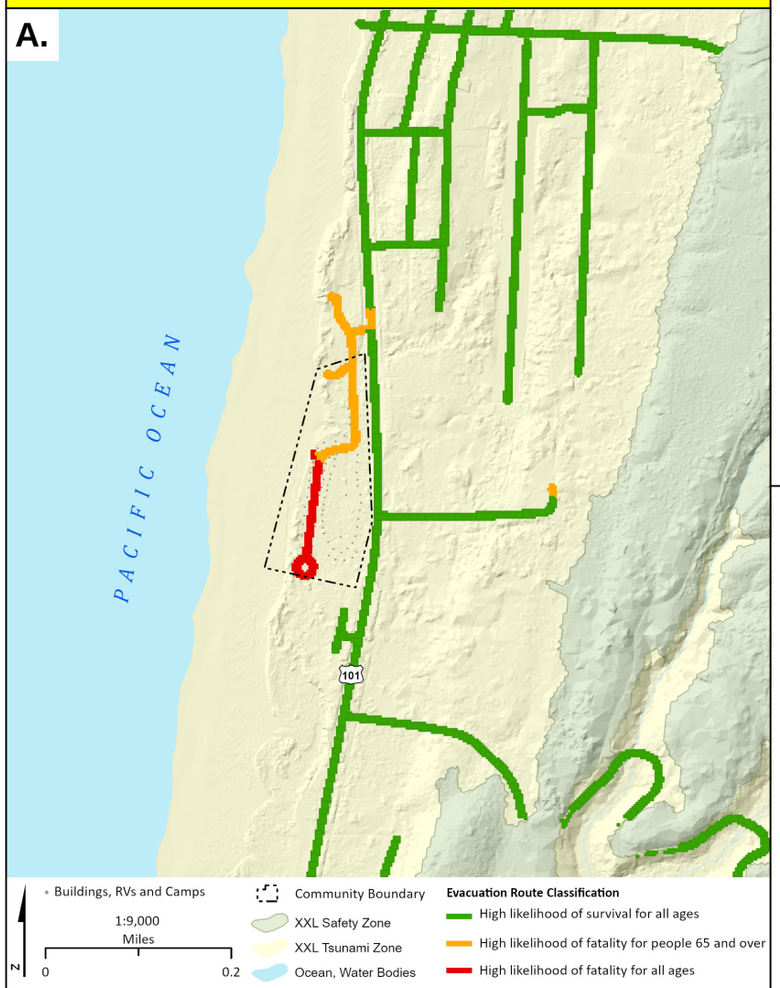


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	240

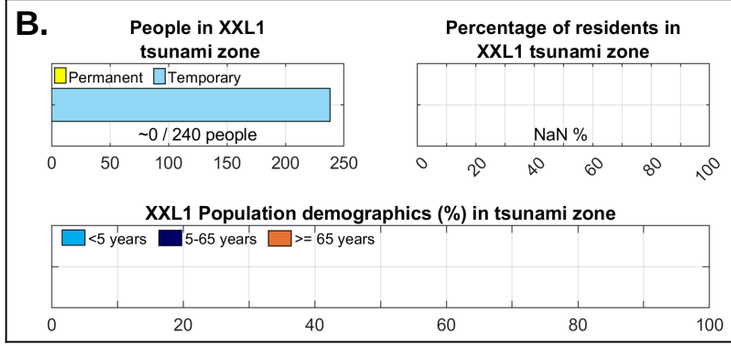
Beachside State Recreation Site - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



B.



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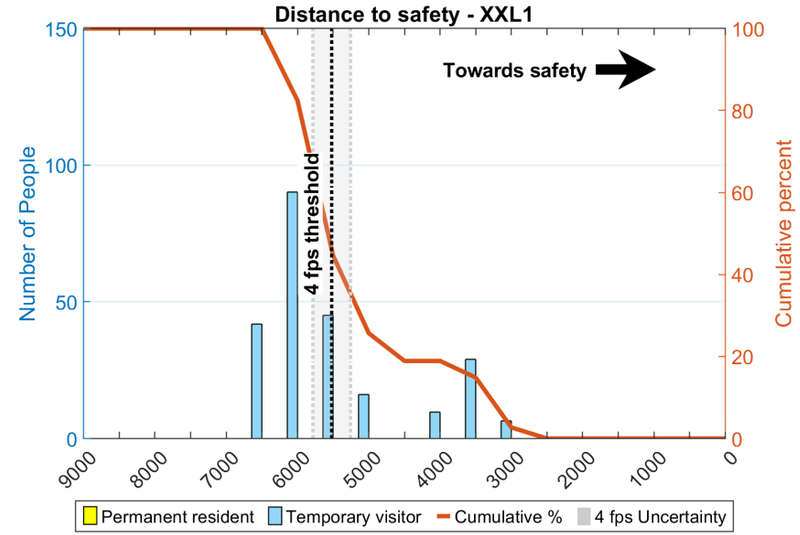
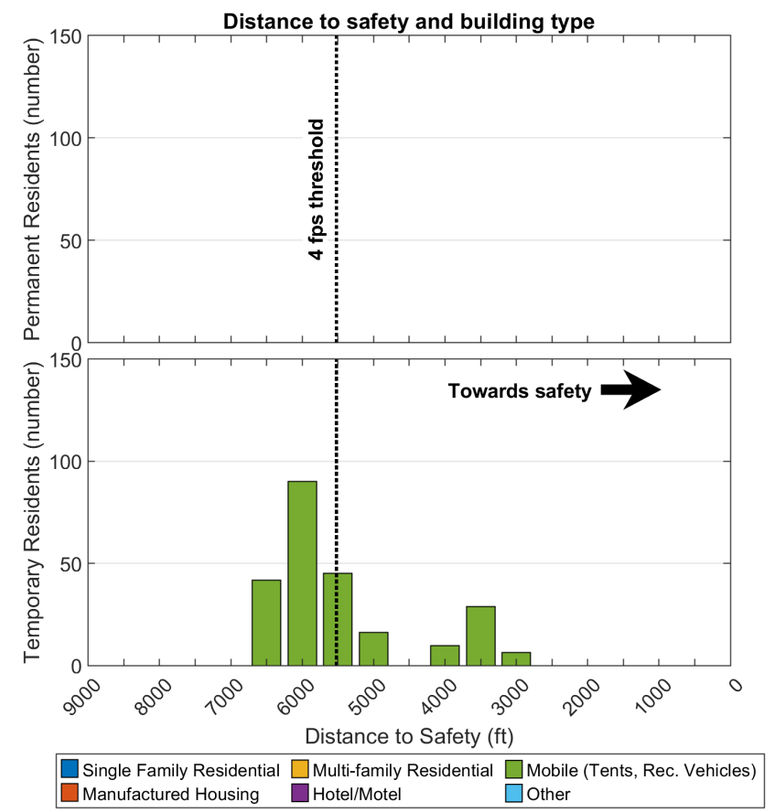


D.



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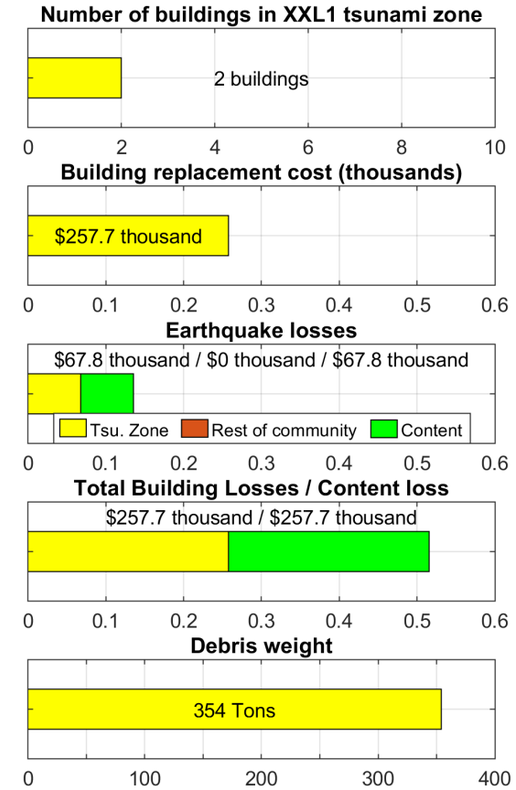
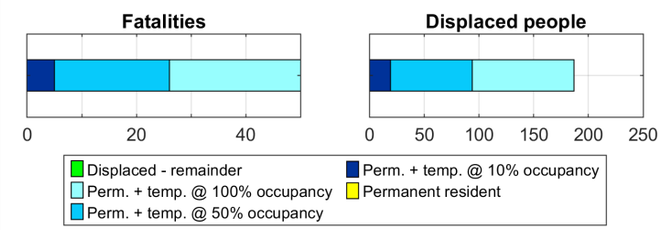


F.

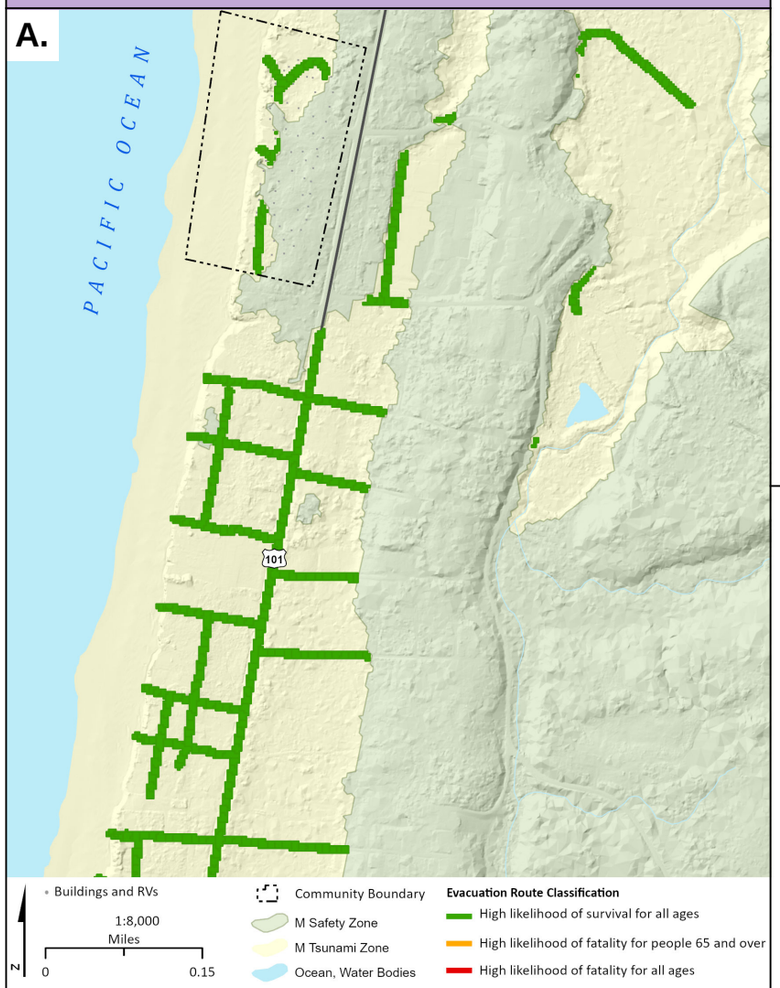


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	20
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	50
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	190

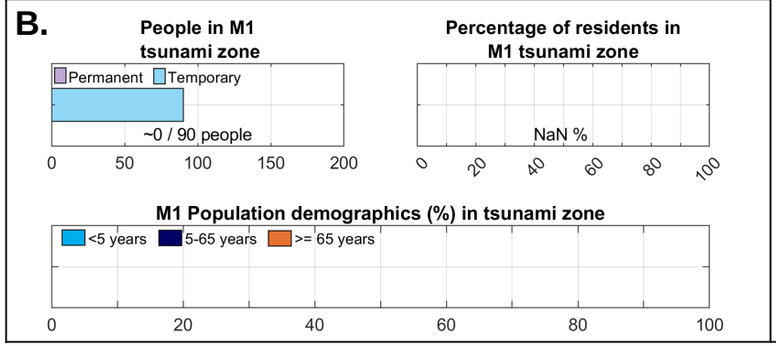
Tillicum Beach Campground - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

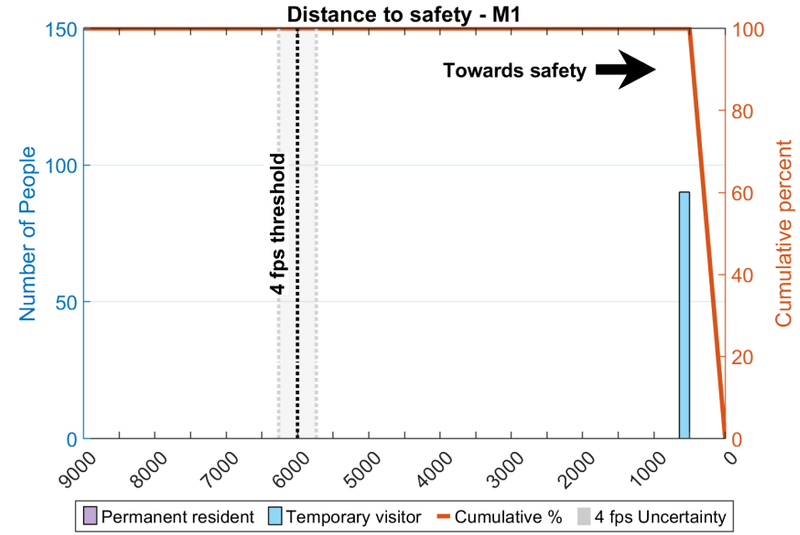
A.



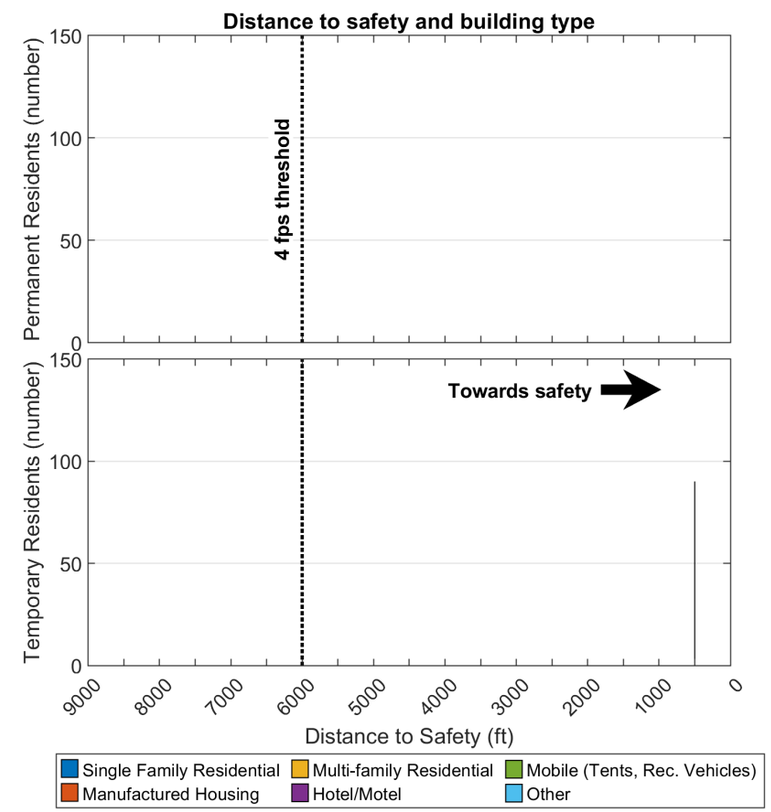
B.



C.



D.



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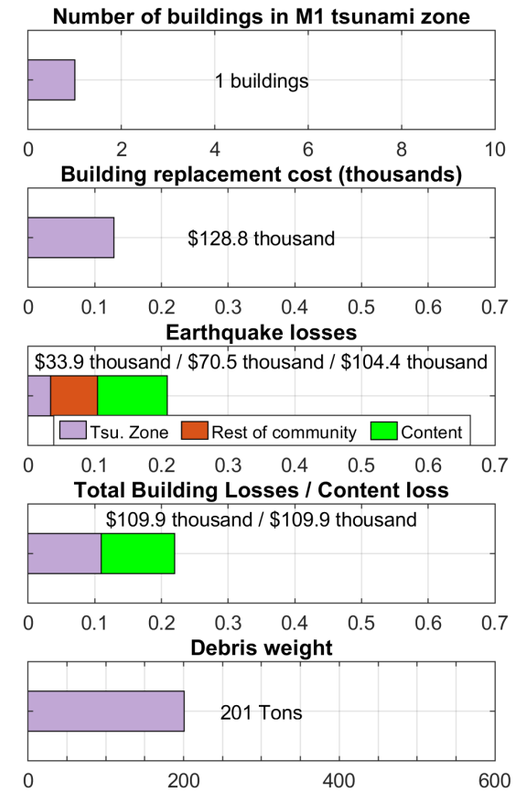

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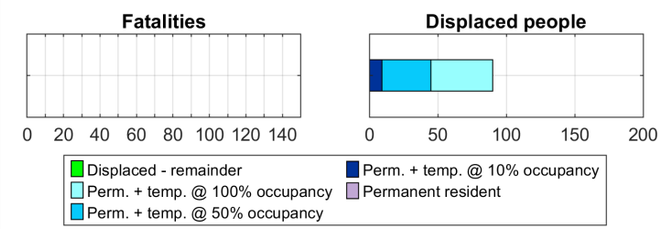
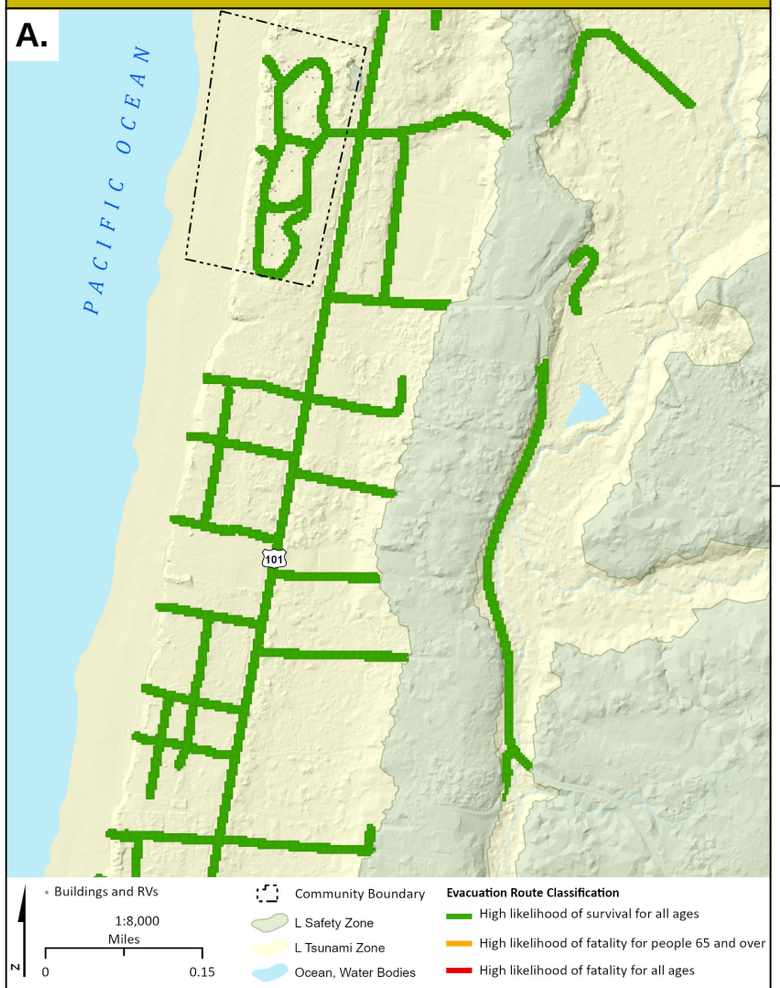


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	90

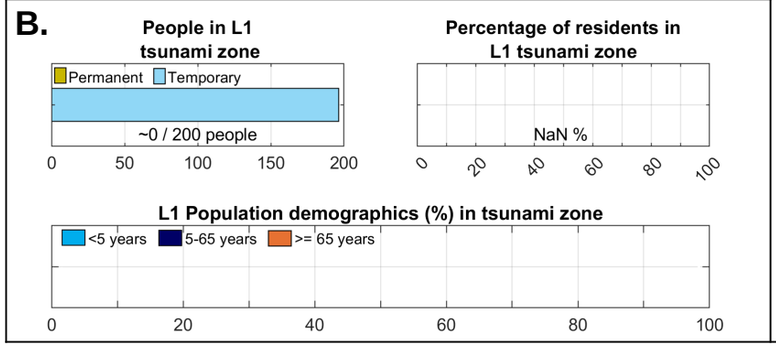
Tillicum Beach Campground - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

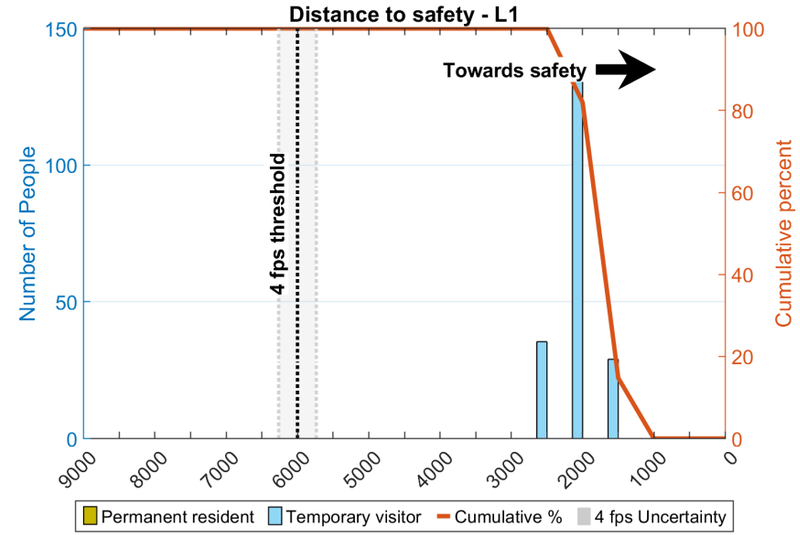
A.



B.



C.



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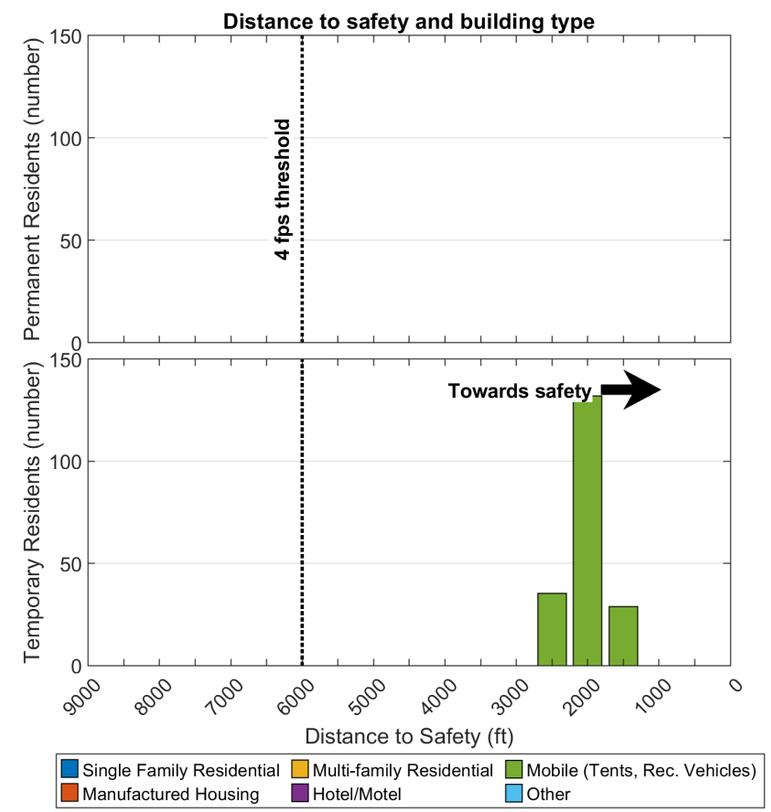

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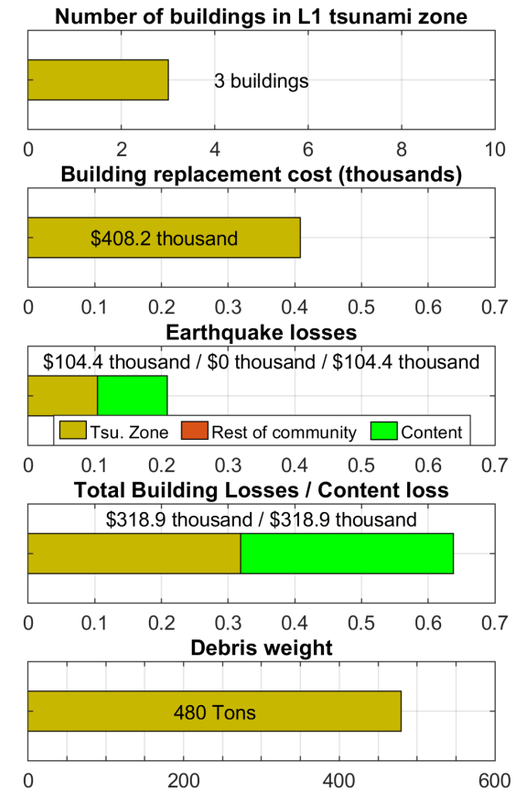
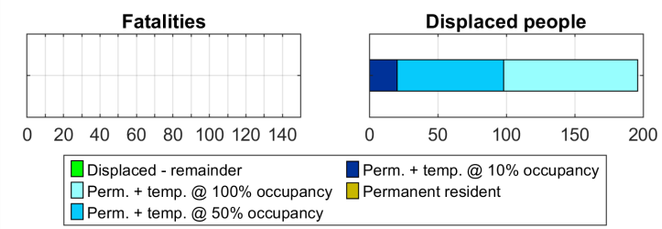


F.

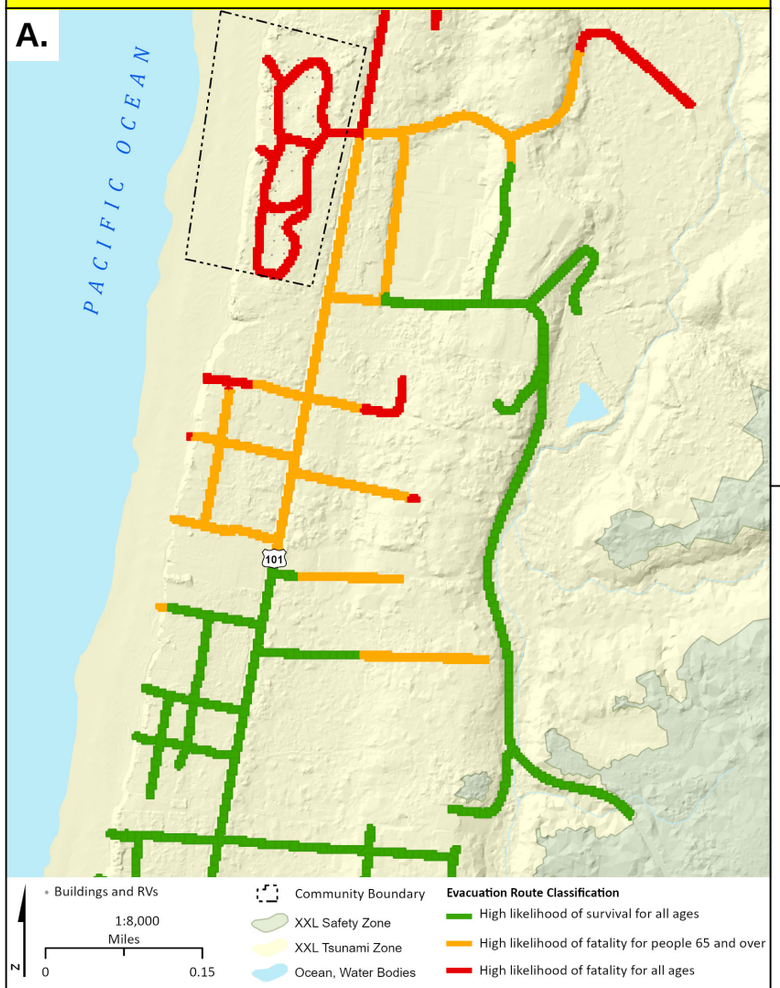


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	200

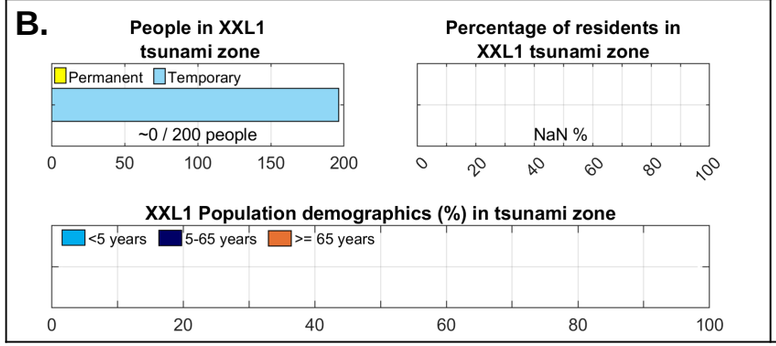
Tillicum Beach Campground - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



B.



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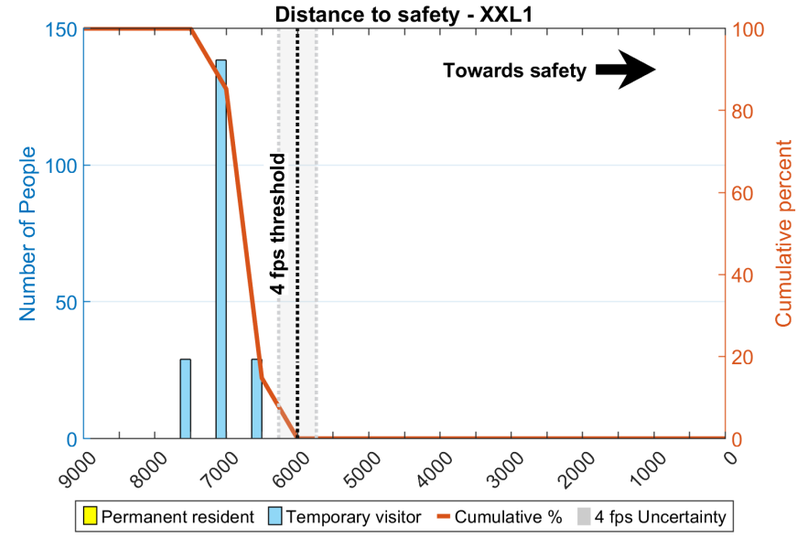

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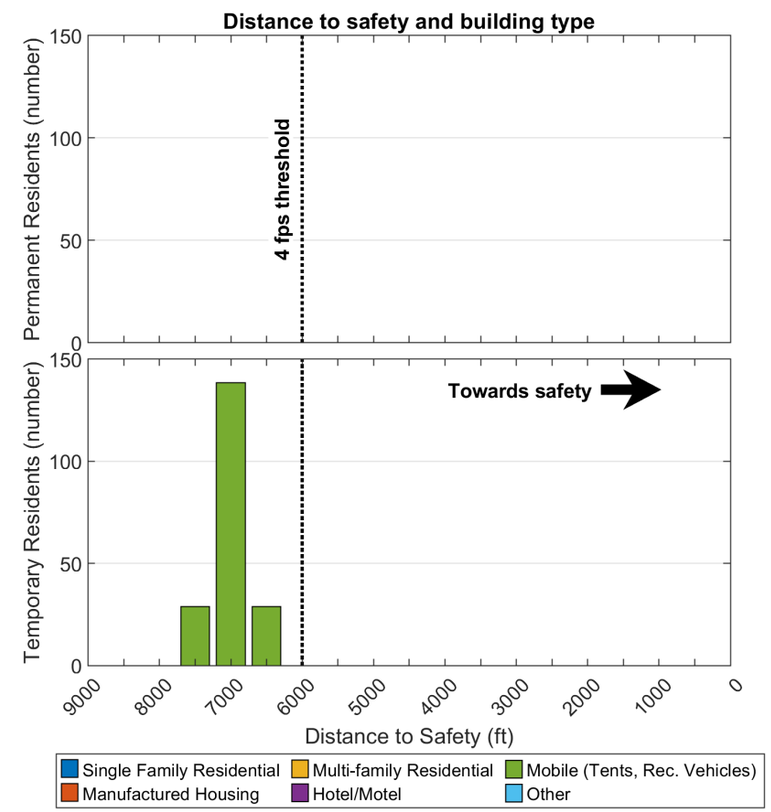

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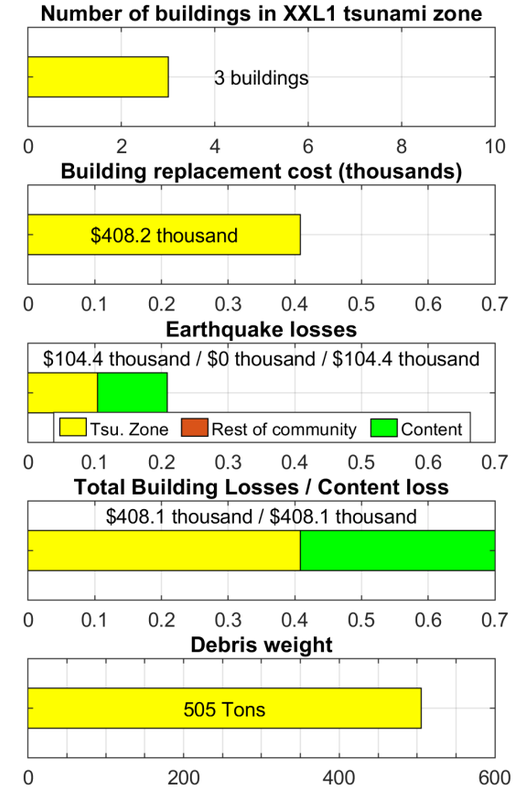

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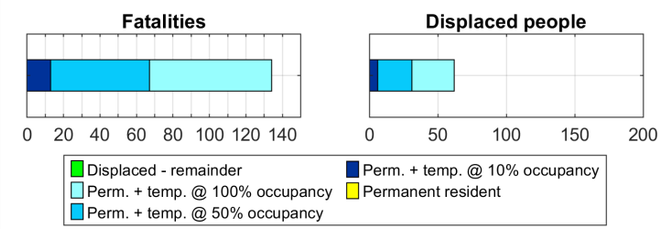
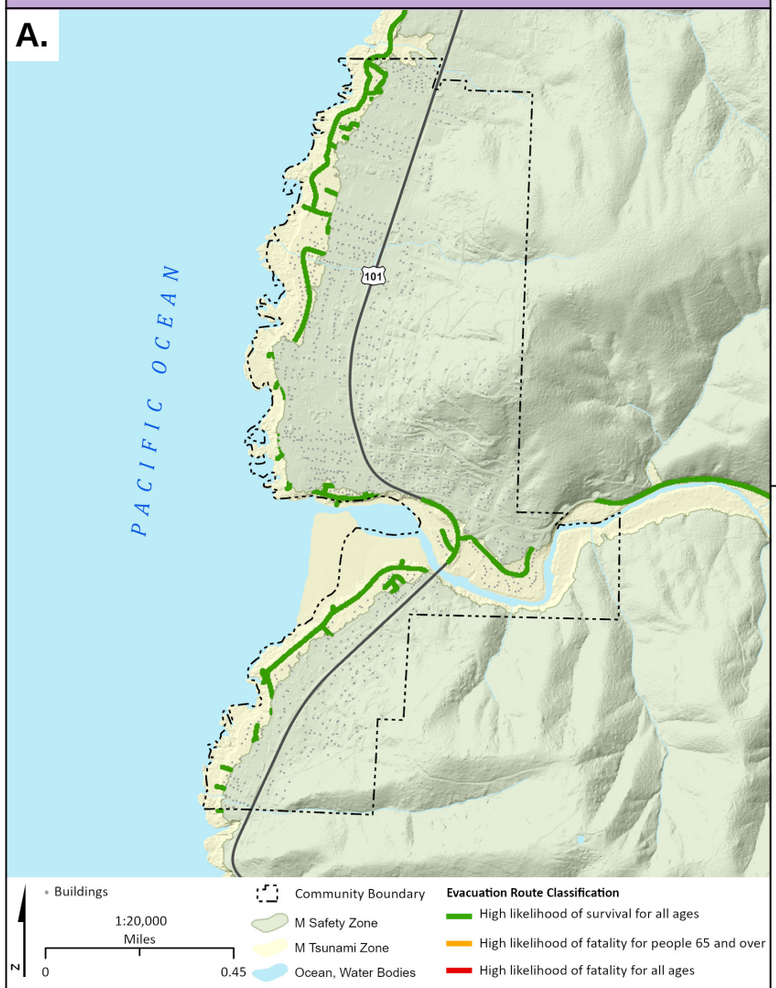


Description	Total
Earthquake Injuries (Entire Community)	0
Tsunami Injuries - Permanent + Temporary	20
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	130
Displaced Population - Permanent	0
Displaced Population - Permanent + Temporary	60

Yachats - M1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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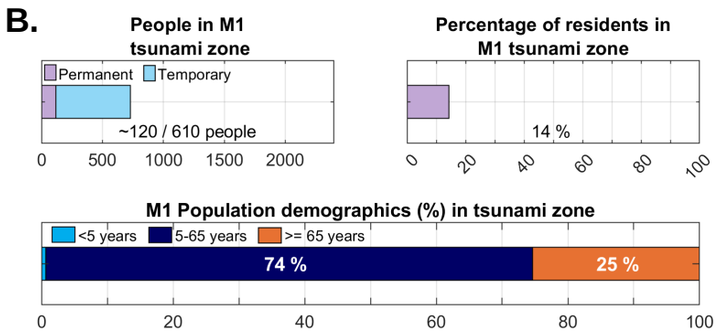

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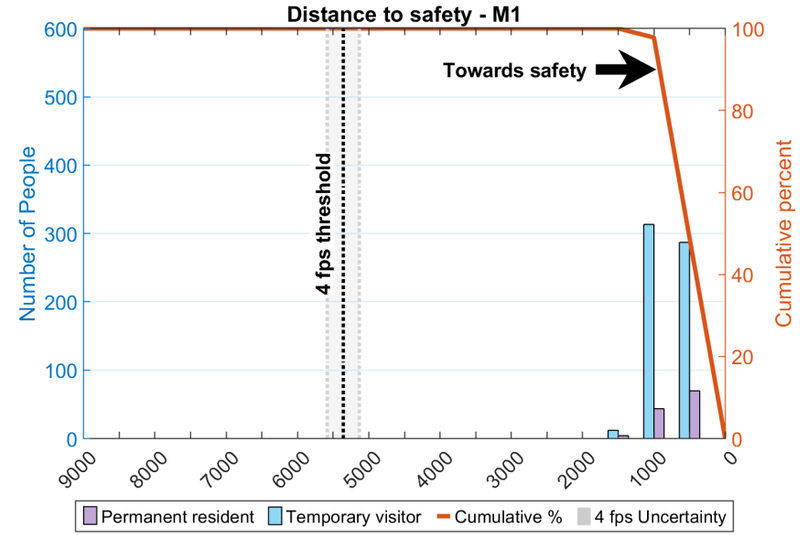
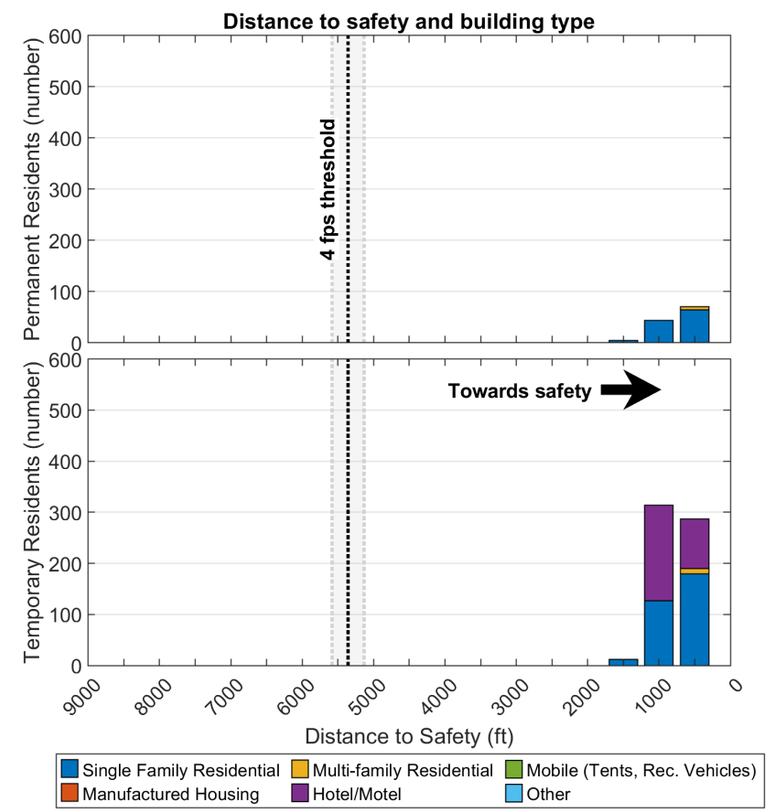
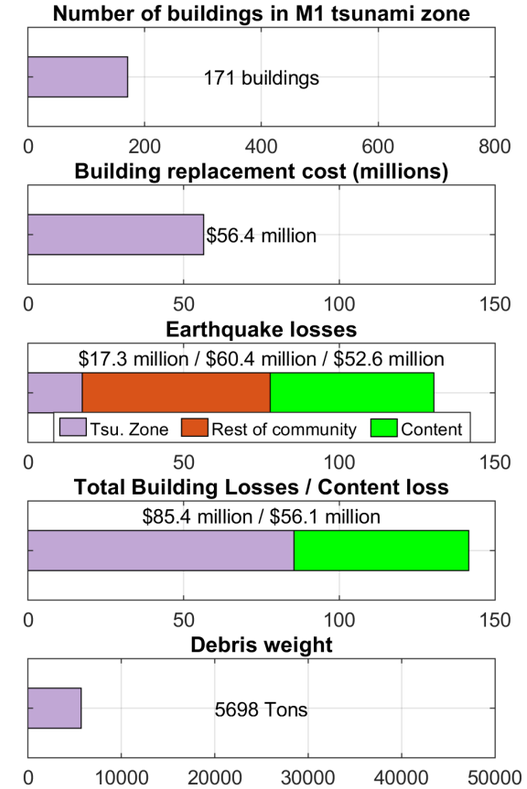


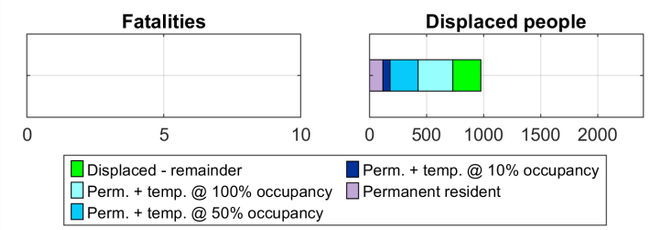
D.



E.



F.

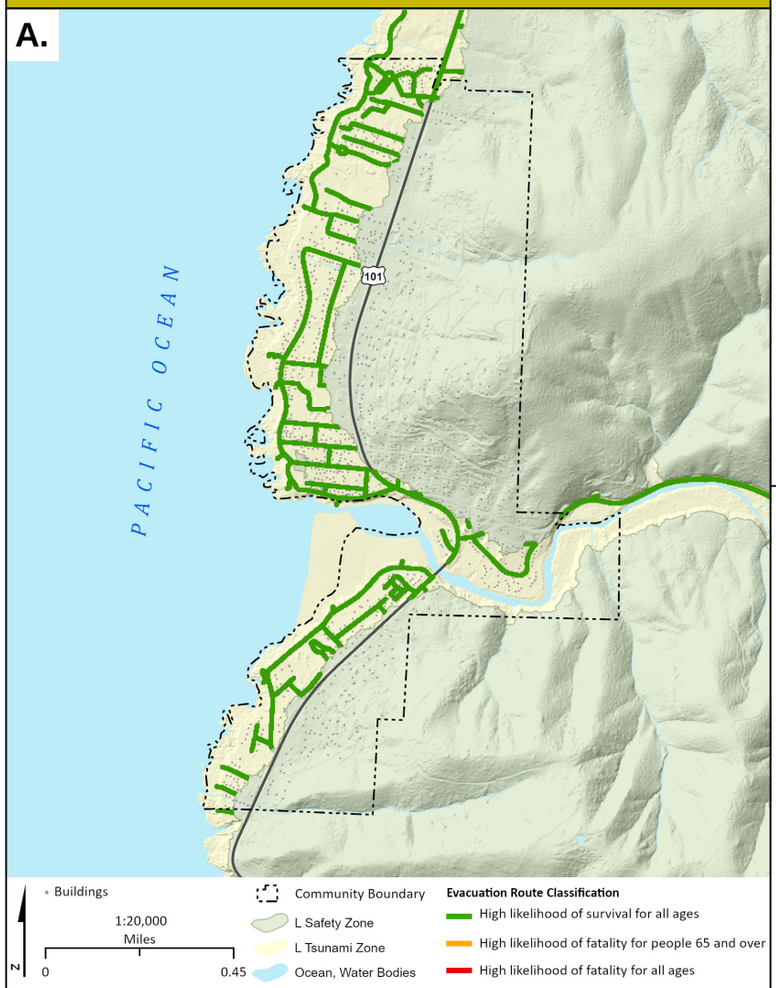


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	180
Displaced Population - Permanent + Temporary	980

Yachats - L1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

A.



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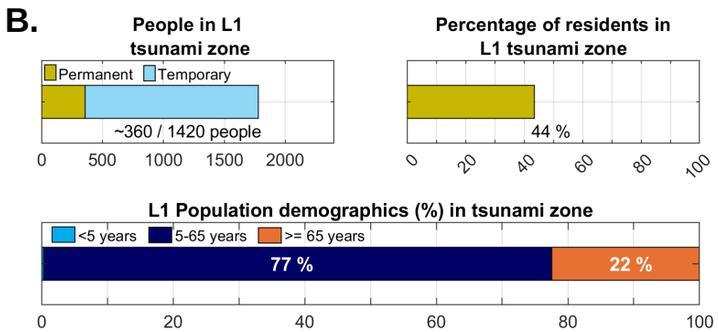

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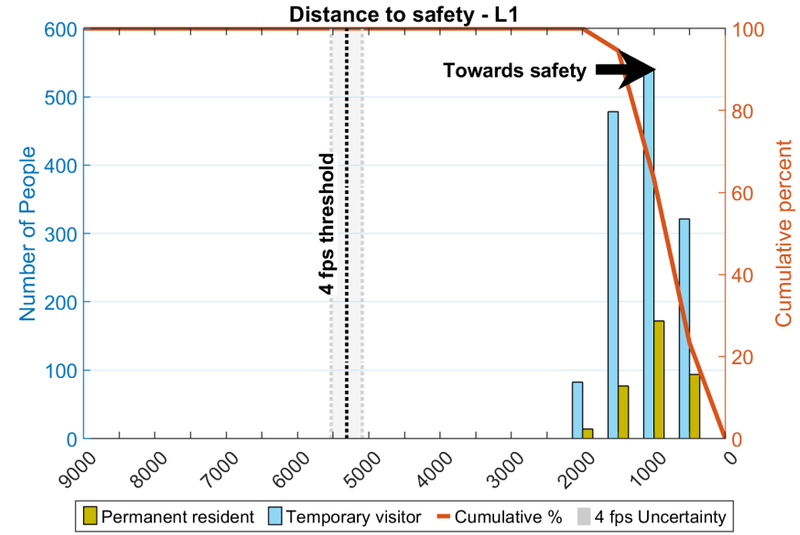

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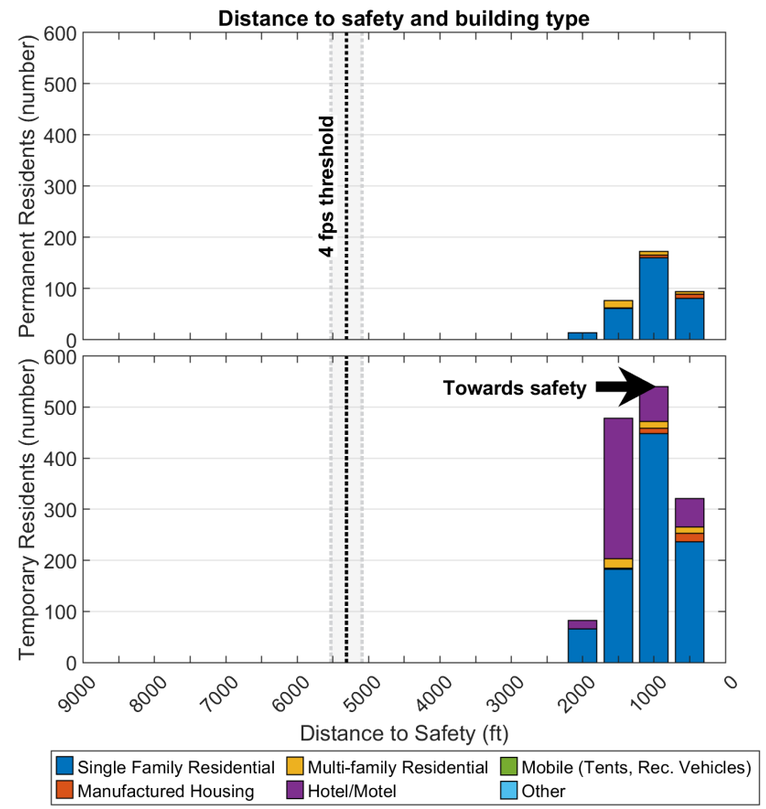
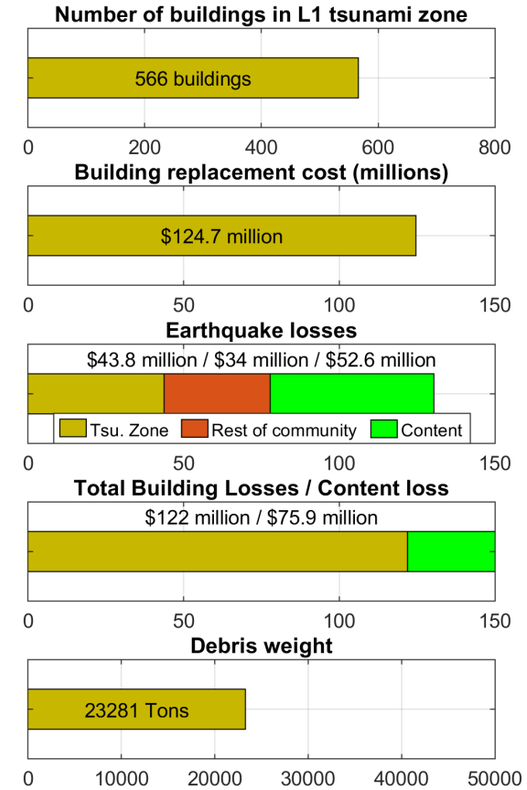


E.



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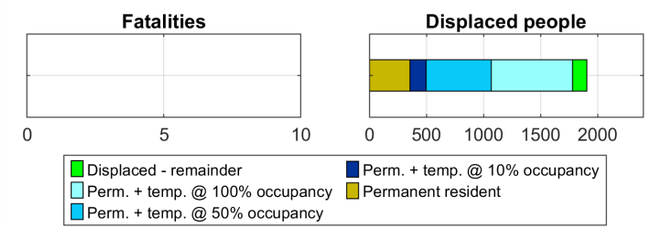
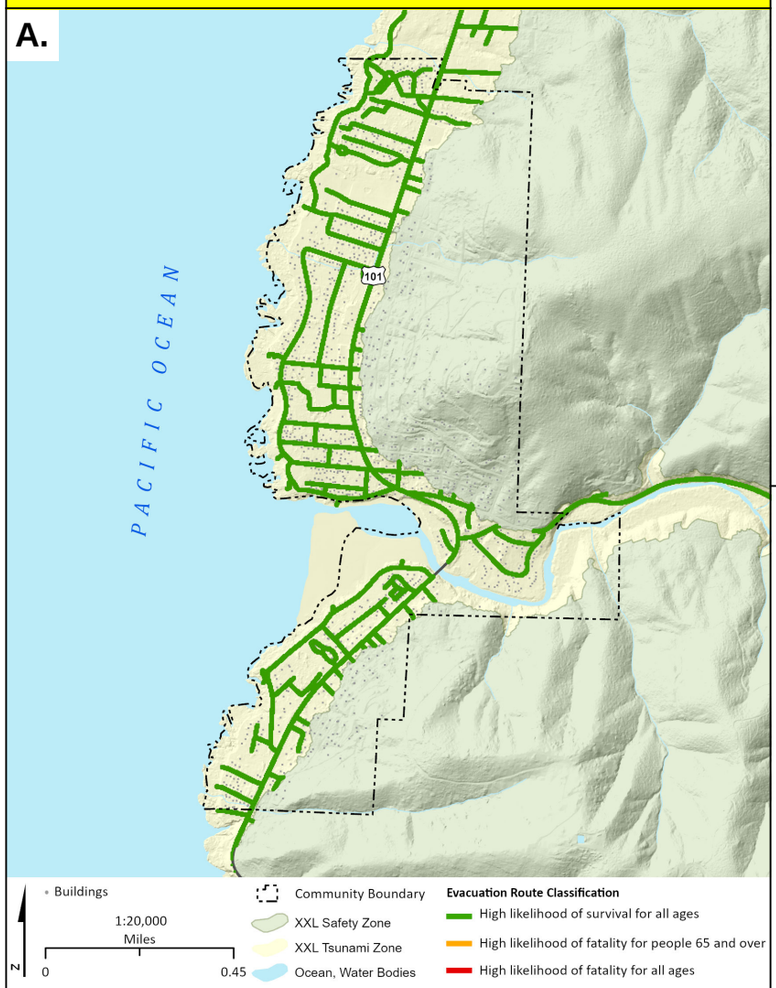


Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	400
Displaced Population - Permanent + Temporary	1,910

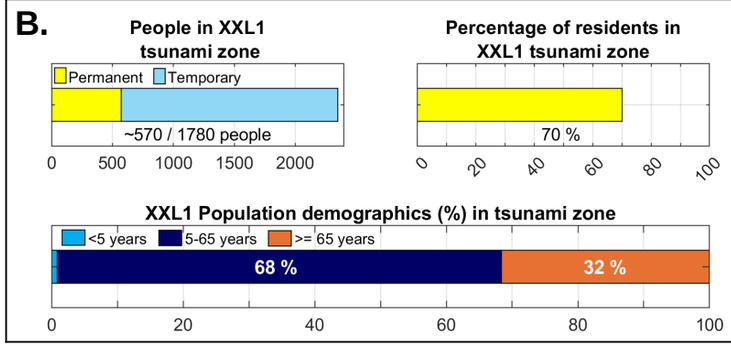
Yachats - XXL1

Casualty estimates assume a MODERATE WALK travel speed (4 ft per second)

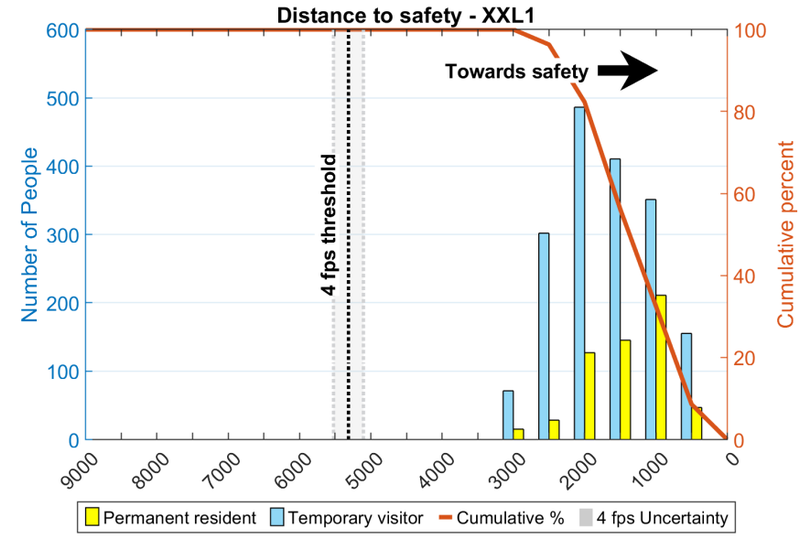
A.



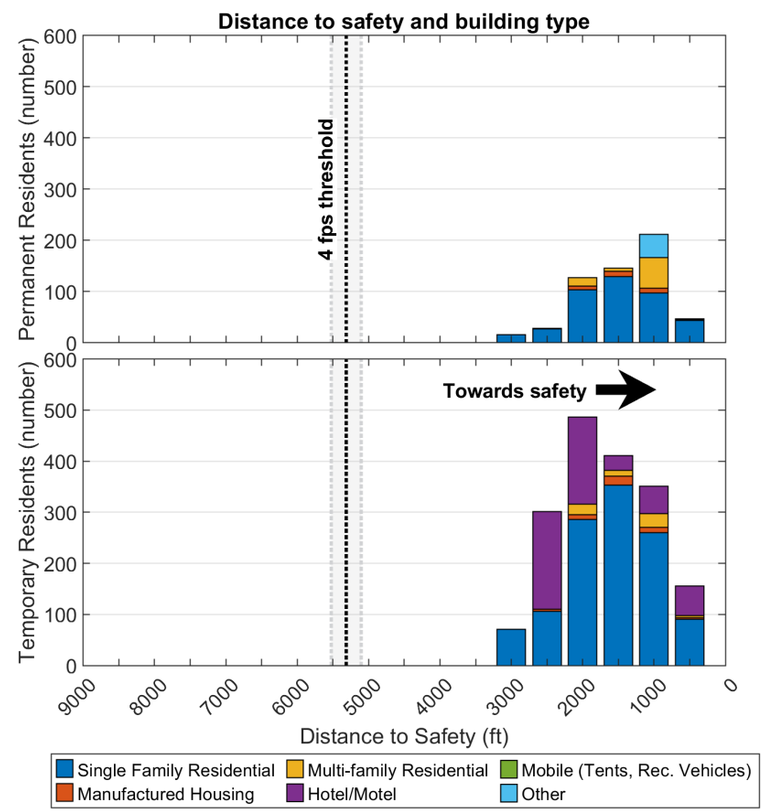
B.



C.



D.



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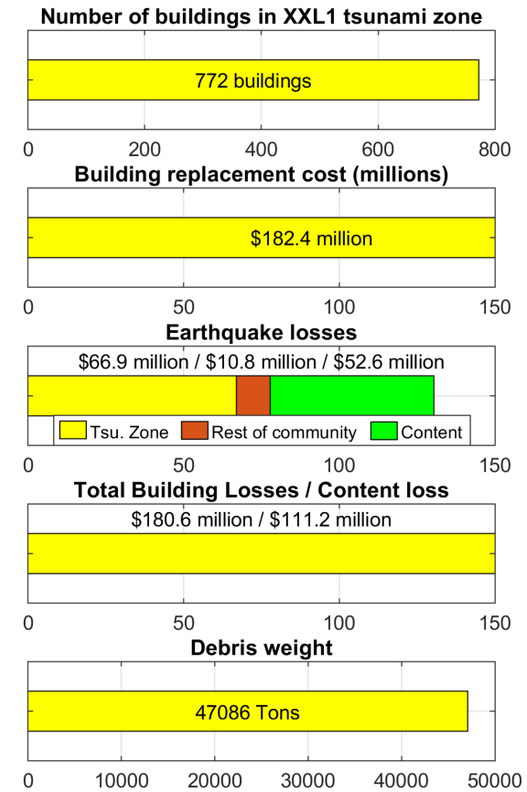

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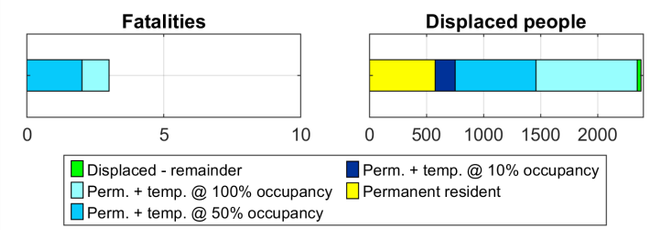

Description	Total
Earthquake Injuries (Entire Community)	60
Tsunami Injuries - Permanent + Temporary	0
Tsunami Fatalities - Permanent	0
Tsunami Fatalities - Temporary @ ~100% occupancy	0
Displaced Population - Permanent	590
Displaced Population - Permanent + Temporary	2,380