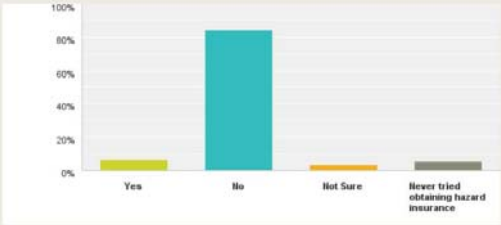
6/15/2017

Q19: Have you ever had problems obtaining homeowner's or renter's insurance due to risks from natural hazards?

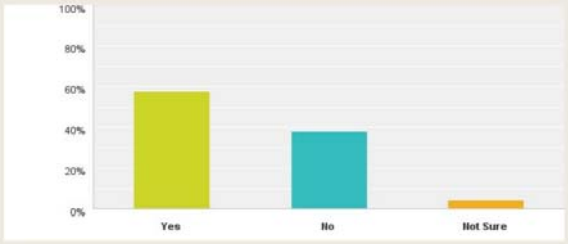
Answered: 123 Skipped: 0



Answer Choices	Responses	
Yes	6.50%	8
No	84.55%	104
Not Sure	3.25%	4
Never tried obtaining hazard insurance	5.69%	7
Total		123

***Q20: When you moved into your home, did you consider the impact a natural hazard event could have on your home?

Answered: 123 Skipped: 0

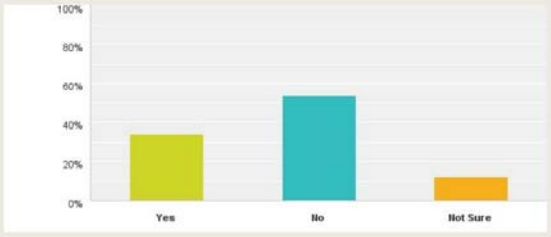


Answer Choices	Responses	
Yes	57.72%	71
No	38.21%	47
Not Sure	4.07%	5
Total		123

6/15/2017

Q21: Was the presence of a natural hazard risk zone (for example, wild fire area or flood zone) disclosed to you by a real estate agent, seller or landlord before you purchased or moved into your home?

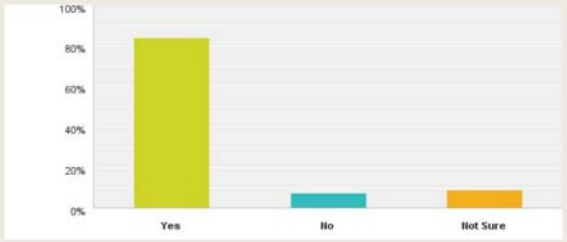
Answered: 123 Skipped: 0



Answer Choices	Responses	
Yes	34.15%	42
No	53.66%	66
Not Sure	12.20%	15
Total		123

Q22: Would natural hazard real estate disclosures or risk information influence your decision on where to buy or rent a home?

Answered: 123 Skipped: 0



Answer Choices	Responses	
Yes	83.74%	103
No	7.32%	9
Not Sure	8.94%	11
Total		123

6/15/2017

LHMP Hazard Summary Worksheet

Planning Team Meeting- Feb. 21, 2017

Use this worksheet to summarize hazard description information and identify which hazards are most significant to the planning area. The definitions provided on the following page can be modified to meet local needs and methods.

Hazard	Location (Geographic Area Affected)	Maximum Probable Extent (Magnitude/Strength)	Probability of Future Events	Overall Significance Ranking
Climate Change				
Dam Failure				
Drought				
Earthquake				
Erosion				
Expansive Soils				
Extreme Cold				
Extreme Heat				
Flood				
Landslide				
Lightning				
Severe Wind				
Severe Winter Weather				
Subsidence				
Terrorism				
Wildfire				

35

Definitions for Classifications

Location (Geographic Area Affected)

- **Negligible:** Less than 10 percent of planning area or isolated single-point occurrences
- **Limited:** 10 to 25 percent of the planning area or limited single-point occurrences
- **Significant:** 25 to 75 percent of planning area or frequent single-point occurrences
- **Extensive:** 75 to 100 percent of planning area or consistent single-point occurrences

Maximum Probable Extent (Magnitude/Strength based on historic events or future probability)

- **Weak:** Limited classification on scientific scale, slow speed of onset or short duration of event, resulting in little to no damage
- **Moderate:** Moderate classification on scientific scale, moderate speed of onset or moderate duration of event resulting in some damage and loss of services for days
- **Severe:** Severe classification on scientific scale, fast speed of onset or long duration of event, resulting in devastating damage and loss of services for weeks or months
- **Extreme:** Extreme classification on scientific scale, immediate onset or extended duration of event, resulting in catastrophic damage and uninhabitable conditions

Hazard	Scale / Index	Weak	Moderate	Severe	Extreme
Drought	Palmer Drought Severity Index	-1.99 to +1.99	-2.00 to -2.99	-3.00 to -3.99	4.00 & below
Earthquake	Modified Mercalli Scale	I to IV	V to VII	VII	IX to XII
	Richter Magnitude	2, 3	4, 5	6	7, 8

Probability of Future Events

- **Unlikely:** Less than 1 percent probability of occurrence in the next year or a recurrence interval of greater than every 100 years.
- **Occasional:** 1 to 10 percent probability of occurrence in the next year or a recurrence interval of 11 to 100 years.
- **Likely:** 10 to 90 percent probability of occurrence in the next year or a recurrence interval of 1 to 10 years
- Highly Likely: 90 to 100 percent probability of occurrence in the next year or a recurrence interval of less than 1 year.

Overall Significance

- **Low:** Two or more criteria fall in lower classifications or the event has a minimal impact on the planning area. This rating is sometimes used for hazards with a minimal or unknown record of occurrences or for hazards with minimal mitigation potential.
- **Medium:** The criteria fall mostly in the middle ranges of classifications and the event's impacts on the planning area are noticeable but not devastating. This rating is sometimes used for hazards with a high extent rating but very low probability rating.
- **High:** The criteria consistently fall in the high classifications and the event is likely/highly likely to occur with severe strength over a significant to extensive portion of the planning area.

36

6/15/2017

LHMP RISK FACTOR EXCEL WORKSHEET

HAZARD PRIORITIZATION /

MITIGATE HAZARDS

Rank	Natural Hazards	Probability (1-4)	Factor1 = (Probability Index * .30)	Impact (1-4)	Factor2 = (Impact Index * .30)	Spatial Extent (1-4)	Factor3 = (Spatial Extent Index * .20)	Warning Time (1-4)	Factor4 = (Warning Time Index * .10)	Duration (1-4)	Factor5 = (Probability Index * .10)	RF Factor Total = (Add Factors 1-5)
1	Hazard 1		0		0		0		0		0	0
2	Hazard 2		0		0		0		0		0	0
3	Hazard 3		0		0		0		0		0	0
4	Hazard 4		0		0		0		0		0	0
5	Hazard 5		0		0		0		0		0	0
6	Hazard 6		0		0		0		0		0	0

The RF approach combines historical data, local knowledge, and consensus opinions to produce numerical values that allow identified hazards to be ranked against one another. These criteria were used to evaluate hazards and identify the highest risk hazard in the Lawndale region.
The RF approach produces numerical values that allow identified hazards to be ranked against one another (the higher the RF value, the greater the hazard risk). RF values are obtained by assigning varying degrees of risk to five categories for each hazard: probability, impact, spatial extent, warning time, and duration. Each degree of risk is assigned a value ranging from 1 to 4 and a weighing factor for each category was agreed upon by the MPC.

Calculated Field

37

Risk Factor (RF) Approach

MITIGATE HAZARDS

For use in multi-hazard mitigation planning hazard prioritization exercises.

The RF approach combines historical data, local knowledge, and consensus opinions to produce numerical values that allow identified hazards to be ranked against one another. These criteria were used to evaluate hazards and identify the highest risk hazard in the project region.

The RF approach produces numerical values that allow identified hazards to be ranked against one another (the higher the RF value, the greater the hazard risk). RF values are obtained by assigning varying degrees of risk to five categories for each hazard: *probability, impact, spatial extent, warning time,* and *duration*. Each degree of risk is assigned a value ranging from 1 to 4 and a weighing factor for each category should be agreed upon by the planning committee. Based upon any unique concerns for the planning area, the planning committee may also adjust the RF weighting scheme. To calculate the RF value for a given hazard, the assigned risk value for each category is multiplied by the weighting factor. The sum of all five categories equals the final RF value, as demonstrated in the example equation below:

RF Value = [(Probability x .30) + (Impact x .30) + (Spatial Extent x .20) + (Warning Time x .10) + (Duration x .10)]

According to the default weighting scheme applied, the highest possible RF value is 4.0.

Please see the Risk Factor Criteria table on the following page for information on the risk factor weighting index and other definitions.

38

6/15/2017

Risk Factor Index Criteria Table

Risk Assessment Category	Level	Degree of Risk Criteria	Index	Weight Value
PROBABILITY What is the likelihood of a hazard event occurring in a given year?	UNLIKELY	LESS THAN 1% ANNUAL PROBABILITY	1	30%
	POSSIBLE	BETWEEN 1 & 10% ANNUAL PROBABILITY	2	
	LIKELY	BETWEEN 10 &100% ANNUAL PROBABILITY	3	
	HIGHLY LIKELY	100% ANNUAL PROBABILITY	4	
IMPACT In terms of injuries, damage, or death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?	MINOR	VERY FEW INJURIES, IF ANY. ONLY MINOR PROPERTY DAMAGE & MINIMAL DISRUPTION ON QUALITY OF LIFE. TEMPORARY SHUTDOWN OF CRITICAL FACILITIES.	1	30%
	LIMITED	MINOR INJURIES ONLY. MORE THAN 10% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE DAY.	2	
	CRITICAL	MULTIPLE DEATHS/INJURIES POSSIBLE. MORE THAN 25% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE WEEK.	3	
	CATASTROPHIC	HIGH NUMBER OF DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR 30 DAYS OR MORE.	4	
SPATIAL EXTENT How large of an area could be impacted by a hazard event? Are impacts localized or regional?	NEGLIGIBLE	LESS THAN 1% OF AREA AFFECTED	1	20%
	SMALL	BETWEEN 1 & 10% OF AREA AFFECTED	2	
	MODERATE	BETWEEN 10 & 50% OF AREA AFFECTED	3	
	LARGE	BETWEEN 50 & 100% OF AREA AFFECTED	4	
WARNING TIME Is there usually some lead time associated with the hazard event? Have warning measures been implemented?	MORE THAN 24 HRS	SELF DEFINED	1	10%
	12 TO 24 HRS	SELF DEFINED	2	
	6 TO 12 HRS	SELF DEFINED	3	
	LESS THAN 6 HRS	SELF DEFINED	4	
DURATION How long does the hazard event usually last?	LESS THAN 6 HRS	SELF DEFINED	1	10%
	LESS THAN 24 HRS	SELF DEFINED	2	
	LESS THAN 1 WEEK	SELF DEFINED	3	
	MORE THAN 1 WEEK	SELF DEFINED	4	

39

Due to the inherent errors possible in any disaster, the results of the risk factor analysis should only be used for planning purposes and in developing hazard priorities and concentrating jurisdictional resources. Before assigning risk factors and prioritization to hazards it is recommended to complete a draft of the hazard profiles and risk assessment information to aid in determining potential impacts. Before the hazard prioritization process you may want to consider the following risk assessment criteria:

- ✓ Inventory and summarize vulnerable assets
- ✓ Characterize repetitive flood loss properties
- ✓ Estimated harm to residents and estimated damages to buildings
- ✓ Describe vulnerability to future development

[Example Risk Factor Results from Plumas County Hazard Mitigation Project]

PLUMAS COUNTY HAZARD MITIGATION PLAN

Department of Health / Office of Emergency Services

Risk Factor Worksheet

Ranking	Natural Hazards	Probability	Calc.1	Impact	Calc.2	Spatial Extent	Calc.3	Warning Time	Calc.4	Duration	Calc.5	RF Factor
1	Wildfire	4	1.2	3	0.9	4	0.8	3	0.3	4	0.4	3.6
2	Severe Weather	4	1.2	3	0.9	4	0.8	1	0.1	3	0.2	2.9
3	Geologic Hazards	4	1.2	2	0.6	3	0.2	4	0.4	2	0.2	2.6
4	Flooding	3	0.9	3	0.9	2	0.4	3	0.3	4	0.4	2.4
5	Drought	2	0.6	3	0.9	3	0.6	3	0.3	3	0.3	2
6	Climate Change	2	0.6	3	0.9	4	0.8	1	0.1	3	0.3	1.9
7	Dam Failure	1	0.3	3	0.9	3	0.6	2	0.2	3	0.3	1.4

Risk Factor Description	
HIGH RISK (3.0 – 4.0)	Wildfire
MODERATE RISK (1.0 – 2.9)	Severe Weather, Geologic Hazards, Flooding
LOW RISK (0.1 – 1.0)	Drought, Climate Change, Dam Failure

The conclusions from the example risk factor results above, were translated into three categories for a final summary of hazard risk based on *High*, *Moderate*, or *Low* risk designations. The designations values are arbitrary and can be adjusted as deemed necessary. It should be noted that although some hazards are classified as posing Low risk, their occurrence of varying or unprecedented magnitudes is still possible and will continue to be reevaluated during future updates of this plan.

Use the Risk Factor Excel Worksheet to determine RF values for each hazard. The Excel worksheet is available for download under Phase 2, Planning Process Worksheets:

http://mitigatehazards.com/bds/sb-docs

20

6/15/2017

LHMP RISK FACTOR EXCEL WORKSHEET

HAZARD PRIORITIZATION /

MITIGATE HAZARDS

Rank	Natural Hazards	Probability (1-4)	Factor1 = (Probability Index * .30)	Impact (1-4)	Factor2 = (Impact Index * .30)	Spatial Extent (1-4)	Factor3 = (Spatial Extent Index * .20)	Warning Time (1-4)	Factor4 = (Warning Time Index * .10)	Duration (1-4)	Factor5 = (Probability Index * .10)	RF Factor Total = (Add Factors 1-5)
1	Hazard 1		0		0		0		0		0	0
2	Hazard 2		0		0		0		0		0	0
3	Hazard 3		0		0		0		0		0	0
4	Hazard 4		0		0		0		0		0	0
5	Hazard 5		0		0		0		0		0	0
6	Hazard 6		0		0		0		0		0	0

The RF approach combines historical data, local knowledge, and consensus opinions to produce numerical values that allow identified hazards to be ranked against one another. These criteria were used to evaluate hazards and identify the highest risk hazard in the Lawndale region.
The RF approach produces numerical values that allow identified hazards to be ranked against one another (the higher the RF value, the greater the hazard risk). RF values are obtained by assigning varying degrees of risk to five categories for each hazard: probability, impact, spatial extent, warning time, and duration. Each degree of risk is assigned a value ranging from 1 to 4 and a weighing factor for each category was agreed upon by the MPC.

Calculated Field

41

- Discussion on identified hazards
- Due to limited resources will only focus on High Risk Identified Hazards
- Next meeting will discuss vulnerability assessment as it relates to these hazards. Will also begin the discussion on mitigation strategies for the identified hazards

HMP Meeting - Tuesday February 21, 2017

Planning Committee Dept. / Members	E-Mail	Initial
Town Engineering/Building & Safety Department		
Brad Miller	bmiller@applevalley.org	
Patrick Carroll	pcarroll@applevalley.org	
Brett Morgan	bmorgan@applevalley.org	
Town Community Development		
Lori Lamson	llamson@applevalley.org	
Pam Cupp	pcupp@applevalley.org	
Ralph Wright	rwright@applevalley.org	
AV Fire Protection District		
Sid Hultquist	shultquist@applevalleyfd.com	SH
Rich Unferdorfer	runferdorfer@applevalleyfd.com	
Town Public Works		
Greg Snyder	gsnyder@applevalley.org	
Mike Cady	mcady@applevalley.org	
Town PIO		
Kathy Martin	kmartin@applevalley.org	
Office of Emergency Preparedness		
Joseph Ramos	jramos@applevalley.org	
Dawn Harrison	dharrison@applevalley.org	
Carol Miller	cmiller@applevalley.org	CM

Planning Committee / Stakeholder Members	Name	E-Mail
County		
Regional Utilities		
Partner Agencies		
City of Hesperia	April Antunio	aantonio@cityofhesperia.us
Cal OES (Hazard Mitigation Pre-Disaster & Flood Mitigation)		

Town of Apple Valley

Town of Apple Valley
HMP Meeting #4

April 28, 2017

Agenda:

1. Review Section 6 Mitigation Goals, Objectives, Actions
2. Review Cost/Benefit
3. Discuss Cost/Benefit for each action
4. Rate each Cost/Benefit for each action
5. Discuss priority for each action
6. Rate priority for each action
7. Discuss crosswalk

HMP Meeting - April 28, 2017

Planning Committee Dept. / Members	E-Mail	Initial
Town Engineering/Building & Safety Department		
Brad Miller	bmiller@applevalley.org	
Patrick Carroll	pcarroll@applevalley.org	
Brett Morgan	bmorgan@applevalley.org	
Town Community Development		
Lori Lamson	llamson@applevalley.org	
Carol Miller	cmiller@applevalley.org	
Pam Cupp	pcupp@applevalley.org	
Ralph Wright	rwright@applevalley.org	
AV Fire Protection District		
Sid Hultquist	shultquist@applevalleyfd.com	
Rich Unferdorfer	runferdorfer@applevalleyfd.com	
Town Public Works		
Greg Snyder	gsnyder@applevalley.org	
Mike Cady	mcady@applevalley.org	
Town PIO		
Kathie Martin	kmartin@applevalley.org	
Office of Emergency Preparedness		
Joseph Ramos	jramos@applevalley.org	
Dawn Harrison	dharrison@applevalley.org	

B.4 Other Meeting Agendas (CERT, Disaster Council, Town Council)

CERT COMMUNITY EMERGENCY RESPONSE TEAM

CERT MEETING

AGENDA

August 4, 2016

Thursday

6:00-8:00pm

LOCATION:

FIRE STATION 336

19235 Yucca Loma Rd.

Welcome & Announcements

Pledge
Introductions
Guest Speaker

Announcements:
Shirts/Hats –C-ME – Order directly with ID Card – C-ME – 760-241-3577
Names on Vests - $5

Disaster Volunteer Network – Please complete information form
Remind – To receive CERT text messages (Emergencies)
Update from ECS – Mark Yosten
Update from FF Rehab – Kathy Love
Update from Sandbag – Cathy Westmoreland
Hazard Mitigation Plan – What is it?
Station Leaders – Need Leader & Asst. for 335, Asst. for 334, Leader for 336
Please let me know if you are interested or have questions. Thank you.

Useful Links

www.Readyapplevalley.org
www.applevalleyfd.com
www.FEMA.gov
www.ready.gov

Upcoming Event

August 6, 27 and Sept 3 – CERT Class – Help with assisting/refreshments
September 8- 10 - 30 year National CERT Conference, Universal Studios
September 24 – Terrorism Training – Ontario - Eventbrite
September 24 – Command Bus - Reverse Triathlon
October 1 – Annual DSW Drill – VVC Regional Training Facility
October 6 – Meeting/Training – Volunteer Reception Center/Shake Out
Oct 7-8-9 – SAR City – Barstow
October 15 – Health Fair – St 337 – Help needed
October 20 – Great Shake Out – Drill at Town Hall – Sign Up

Today's Training

GET READY FOR ANNUAL DRILL
DO YOU REMEMBER THE BASICS FROM YOUR CERT CLASS?
DAWN HARRISON

CERT MEETING

AGENDA

October 6, 2016

Thursday

6:00-8:00pm

LOCATION:

FIRE STATION 336

19235 Yucca Loma Rd.

Welcome & Announcements

Pledge
Oath/Introductions – New DSW Members

Announcements:

- Shirts/Hats –C-ME – Order directly with ID Card – C-ME – 760-241-3577
- Names on Vests - $5
- Disaster Volunteer Network – Please complete information form
- Remind – To receive CERT text messages (Emergencies)
- Update from ECS – Mark Yosten
- Update from FF Rehab – Kathy Love
- Update from Asst. CERT Commanders- Bonnie Ebright/Cathy Westmoreland
- Hazard Mitigation Plan – Link for Survey will be shared
- Suggestions for 2017 Trainings

Station Leaders – Need Leader & Asst. for 335, Asst. for 334, Leader for 336 Please let me know if you are interested or have questions. Thank you. We would like to give more responsibility & training to station leaders in 2017.

Useful Links

www.Readyapplevalley.org
www.applevalleyfd.com
www.FEMA.gov
www.ready.gov

Upcoming Event (Final 3 of the year)

October 15 – Health Fair – St 337 – Help needed – Sign Up
October 20 – Great Shake Out – Drill at Town Hall – Sign Up
November 3 – Potluck – End of 2016!

Today's Training

BRIEFING – CERT CONFERENCE
BONNIE & KELLY
BRIEFING – TERRORIST SYMPOSIUM
CATHY & KELLY
SHARE YOUR EXPERIENCE WITH THE BLUE CUT FIRE & ANNUAL DRILL
VOLUNTEER RECEPTION CENTER
DAWN HARRISON
JASON NAILON – GUEST SPEAKER – VOLUNTEERS HELPING WITH MEASURE A

CERT MEETING

AGENDA

February 2, 2017

Thursday

6:00-8:00pm

LOCATION:

FIRE STATION 336

19235 Yucca Loma Rd.

Welcome & Announcements

Pledge
Introductions – New DSW Members

Announcements:

- Shirts/Hats –C-ME – Order directly with ID Card – C-ME – 760-241-3577
- Names on Vests - $5
- Remind – To receive CERT text messages (Emergencies)
- Update from ECS – Mark Yosten
- Update from FF Rehab – Kathy Love
- Update from Asst. CERT Commanders- Bonnie Ebright/Cathy Westmoreland
- Hazard Mitigation Plan – Link for Survey will be shared/Update
- Red Cross Training – Update – Only if you took the training at the Town Jan. 2017 are you registered with the Red Cross, even if you took the 8 hour training previously!
- Apple Valley CERT Coin – Input needed
- Update on opening of fire stations

Station Leaders – Need Leader & Asst. for 335, Asst. for 334, Leader for 336 Please let me know if you are interested or have questions. Thank you. We would like to give more responsibility & training to station leaders in 2017.

Useful Links

www.Readyapplevalley.org
www.applevallevfd.com
www.FEMA.gov
www.ready.gov

Upcoming Events

February 4 – Simulation – Help Needed
March 25 – CPR/First Aid – Sign Up
April 6 – Meeting - ICS/Forms Training
April 7-8-9 CERT Train the Trainer - Hesperia
April 15, 22, and 29 – CERT Class
May 6 – Family Safety/Emergency Prep Fair – Town Hall

Today's Training

CUSTOMER SERVICE FOR CERT
CAPT. UNFERDORFER

CERT MEETING

AGENDA

April 6, 2017

Thursday

6:00-8:00pm

LOCATION:

FIRE STATION 336

19235 Yucca Loma Rd.

Welcome & Announcements

Pledge
Oath of Office
Introductions – New DSW Members

Announcements:
- Shirts/Hats –C-ME – Order directly with ID Card – C-ME – 760-241-3577
- Names on Vests - $5
- Remind – To receive CERT text messages (Emergencies)
- Update from ECS – Mark Yosten
- Update from FF Rehab – Kathy Love
- Update from Asst. CERT Commanders- Bonnie Ebright/Cathy Westmoreland
- Hazard Mitigation Plan – Update

Useful Links

www.Readyapplevalley.org
www.applevalleyfd.com
www.FEMA.gov
www.ready.gov

Upcoming Events

April 7-8-9 CERT Train the Trainer – Rancho Cucamonga
April 11 – Disaster Council – 1:30pm – 14975 Dale Evans Pkwy
April 15, 22, and 29 – CERT Class (Help Needed)
May 6 – ECS Meeting
May 6 – Family Preparedness Fair – 10am-1pm Town Hall
(Help Needed – Sign Up)
June 1 – Meeting/Training – START Triage/Treatment
Review/Games

Today's Training

Fire Season/Grass Fires – Capt. Unferdorfer

ICS SYSTEM
WHO'S IN CHARGE & WHAT DO I DO?
DAWN HARRISON

CERT MEETING

AGENDA

June 1, 2017

Thursday

6:00-8:00pm

LOCATION:

FIRE STATION 336

19235 Yucca Loma Rd.

Welcome & Announcements

Pledge

Introductions – New DSW Members

Announcements:

- Shirts/Hats –C-ME – Order directly with ID Card – C-ME – 760-241-3577
- Names on Vests - $5
- Remind – To receive CERT text messages (Emergencies)

**Thank you to everyone for helping with Family Preparedness Fair!
**Thank you to ECS for participating in Opening of Yucca Loma Bridge!

- Update from ECS – Mark Yosten
- Update from FF Rehab – Kathy Love
- Update from Asst. CERT Commanders- Bonnie Ebright/Cathy Westmoreland
- Hazard Mitigation Plan – Update

Useful Links

****NEW – Twitter Account – Twitter.com/ReadyAV**

www.Readyapplevalley.org
www.applevalleyfd.com
www.FEMA.gov
www.ready.gov

Upcoming Events

August 1 – National Night Out (Super Target, 1700-2000)
May 3 – ECS Meeting
August 3 – Meeting/Training CERT Olympics
Sept 16, 23, 30 – CERT Basic Training

Today's Training – Review

START
Triage/Treatment Review/Games

DAWN HARRISON

Town of Apple Valley

TOWN OF APPLE VALLEY
DISASTER COUNCIL
Citizen Corps Council

Tuesday, October 18, 2016 1:30 p.m.

Conference Center, Development Services Building, Apple Valley Town Hall, 14975 Dale Evans Parkway

AGENDA

1. Call to Order — *Mayor Stanton*
2. Flag Salute — _____
3. Self-Introductions — *Group*
4. Approval of July 12, 2016 minutes — *Mayor Stanton*
5. Approval of CERT/ECS 2017 calendar — *Mayor Stanton*
6. Citizen Corps Activities
   - CERT *(Community Emergency Response Team)* — *CERT : Dawn Harrison*
   - ECS *(Emergency Communications Services)* — *ECS: Rich Unferdorfer*
   - COP's, Neighborhood Watch — *Trish Hill*
7. Update on Emergency Preparedness — *Joseph Ramos*
   - Blue Cut Activation
   - Local Hazard Mitigation Plan
8. **Spotlight Program: Southwest Gas**
   - Gas properties- William Hensley-Intro
9. Roundtable Discussion — *Group*
10. Next Meeting: Tuesday, January 10, 2017, 1:30 p.m. @ Conference Center, Development Services Building, Apple Valley Town Hall, 14975 Dale Evans Parkway
11. Adjournment: _____PM — *Mayor Stanton*

Town of Apple Valley

TOWN OF APPLE VALLEY
DISASTER COUNCIL
Citizen Corps Council

Tuesday, January 10, 2017 1:30 p.m.

Conference Center, Development Services Building, Apple Valley Town Hall, 14975 Dale Evans Parkway

AGENDA

1. Call to Order — *Mayor Nassif*
2. Flag Salute — _____
3. Self-Introductions — *Group*
4. Approval of October 18, 2016 minutes — *Mayor Nassif*
5. Citizen Corps Activities
   - CERT *(Community Emergency Response Team)* — *CERT: Dawn Harrison*
   - ECS *(Emergency Communications Services)* — *ECS: Mark Yosten*
   - COP's, Neighborhood Watch — *Trish Hill*
6. Update on Emergency Preparedness — *Joseph Ramos*
   - Blue Cut Reimbursements
   - Local Hazard Mitigation Plan
7. Update on Measure A — *Chief Hultquist*
8. **Spotlight Program: COAD (Community Organizations Active in Disasters)**
   - Dan Coleman- Co-Chair East End COAD
9. Roundtable Discussion — *Group*
10. Next Meeting: Tuesday, April 11, 2017, 1:30 p.m. @ Conference Center, Development Services Building, Apple Valley Town Hall, 14975 Dale Evans Parkway
11. Adjournment: _____PM — *Mayor Nassif*

TOWN OF APPLE VALLEY
DISASTER COUNCIL
Citizen Corps Council

Tuesday, April 11, 2017 1:30 p.m.

Conference Center, Development Services Building, Apple Valley Town Hall, 14975 Dale Evans Parkway

AGENDA

1. Call to Order — *Mayor Nassif*
2. Flag Salute — _____
3. Self-Introductions — *Group*
4. Approval of January 10, 2017 minutes — *Mayor Nassif*
5. Citizen Corps Activities
   - CERT *(Community Emergency Response Team)* — *CERT: Dawn Harrison*
   - ECS *(Emergency Communications Services)* — *ECS: Mark Yosten*
   - COP's, Neighborhood Watch — *Trish Hill*
6. Update on Emergency Preparedness — *Joseph Ramos*
   - Local Hazard Mitigation Plan
7. **Spotlight Program: Ounce of Prevention**
   - Dr. Gloria Peak- Director of Community Health Services- St. Mary Medical Center Presentation on Preventative Health Services
8. Roundtable Discussion — *Group*
9. Next Meeting: Tuesday, July 11, 2017, 1:30 p.m. @ Conference Center, Development Services Building, Apple Valley Town Hall, 14975 Dale Evans Parkway
10. Adjournment: _____PM — *Mayor Nassif*

Town of Apple Valley

TOWN OF APPLE VALLEY
DISASTER COUNCIL
Citizen Corps Council

Tuesday, July 11, 2017
1:30 p.m.

Conference Center, Development Services Building,
Apple Valley Town Hall, 14975 Dale Evans Parkway

AGENDA

1. Call to Order — *Mayor Nassif*
2. Flag Salute — _____
3. Self-Introductions — *Group*
4. Approval of April 11, 2017 minutes — *Mayor Nassif*
5. Citizen Corps Activities
   - CERT *(Community Emergency Response Team)* — *CERT: Dawn Harrison*
   - ECS *(Emergency Communications Services)* — *ECS: Mark Yosten*
   - COP's, Neighborhood Watch — *Trish Hill*
6. Update on Emergency Preparedness — *Joseph Ramos*
   - Hazard Mitigation Plan Update
7. **Spotlight Program: San Bernardino County 211**
   - Cari Thomas- Inland Empire United Way Regional Director
8. Roundtable Discussion — *Group*
9. Next Meeting: Tuesday, October 17, 2017, 1:30 p.m. @ Conference Center, Development Services Building, Apple Valley Town Hall, 14975 Dale Evans Parkway
10. Adjournment: _____PM — *Mayor Nassif*

TOWN OF APPLE VALLEY
TOWN COUNCIL/SUCCESSOR AGENCY

REGULAR MEETING

MINUTES – March 28, 2017

CALL TO ORDER:

Mayor Nassif called to order the regular session of the Apple Valley Town Council and the Successor Agency at 6:30 p.m.

Roll call was taken with the following members present:

Roll Call
Present: Council Members Cusack; Emick; Stanton; Mayor Pro Tem Bishop; Mayor Nassif
Absent: None.

OPENING CEREMONIES

INVOCATION: Pastor Joseph Valery, Victory in Jesus Bible Faith Center

PLEDGE OF ALLEGIANCE: The Pledge of Allegiance was led by Mayor Pro Tem Bishop

PRESENTATIONS: Deputy Derrick Griego, Apple Valley SHOCK Program

PUBLIC COMMENTS

Matthew Fairchild, Apple Valley commented on providing the San Bernardino County Sheriff's Division with all the resources they need to enforce Town speed limits, as well as provide sidewalks for pedestrian safety.

Laloni Flusher, Apple Valley commented on the continued deterioration of east Stoddard Wells Road and the dangerous conditions that exist.

Brad Miller, Town Engineer commented on the location of the section of Stoddard Wells Road east of Dale Evans Parkway is in the unincorporated area of the Town.

Bryen Wright, Apple Valley commented on the Town's Impartial Analysis and that he believes information has been left out of the document.

Patricia Perry, Apple Valley commented that the troubles she has had with her property have gotten better and wanted to thank the Town for their assistance.

COUNCILMEMBER COMMITTEE/COMMISSION PARTICIPATION

Council Member Emick commented on committee meetings and events that he attended.

Council Member Cusack commented on committee meetings and events that he attended.

1A-1

Council Member Stanton commented on committee meetings and events that she attended.

Mayor Pro Tem Bishop commented on committee meetings and events that he attended.

Mayor Nassif commented on committee meetings and events that he attended.

TOWN COUNCIL ANNOUNCEMENTS

Suggested items for future agenda:

Mayor Pro Tem Bishop asked staff to bring back a report on AB 1194 regarding bond issues and property taxes.

Mayor Nassif asked staff to bring back a report to discuss standards that would help elevate the quality of apartments but make them affordable.

Time, Date & Place for Next Town Council Regular or Special Meeting:
A. Regular Meeting – Tuesday, April 11, 2017 – Council Chamber
Regular Session at 6:30 p.m.

TOWN COUNCIL CONSENT AGENDA

Motion by Council Member Emick, seconded by Mayor Pro Tem Bishop, to approve the Consent Calendar items numbered 1-4.

Vote: Motion carried 5-0-0-0
Yes: Council Members Cusack; Emick; Stanton; Mayor Pro Tem Bishop; Mayor Nassif.
Absent: None.

1. Approval of Minutes of the Town Council
A. Special Meeting – March 7, 2017
B. Special Meeting – March 9, 2017
C. Regular Meeting – March 14, 2017
Recommendation:
Approve the subject minutes as part of the consent agenda.

2. Mojave Riverwalk South – Project No. 2015-08
Recommendation:
That the Town Council:
1. Accept the work completed as part of the Mojave Riverwalk South Project No. 2015-08, for a total contract cost of $947,868.51.
2. contractor.

3. Release of Securities for Tract Map No. 16134
Recommendation:
Find that the construction of various improvements required for Tract 16134 is complete, and approve the fifty-percent (50%) reduction of the performance securities.

1A-2

TOWN COUNCIL MINUTES
REGULAR MEETING OF 03/28/2017

4. Fee Waiver Request for St. Mary's High Desert Fit for Life Challenge 5K/10K Event for the Use of the Civic Center Park/Amphitheater
Recommendation:
For good cause shown and finding a waiver will serve a public purpose, approve the waiver of the Facility Rental Fee of $728.00.

PUBLIC HEARINGS

None.

REPORTS, REQUESTS AND COMMUNICATIONS

None.

TOWN MANAGER'S COMMENTS & LEGISLATIVE UPDATE

Frank Robinson, Town Manager, reported that the State Legislature has come to an agreement about transportation funding and an announcement will be made soon.

Joseph Ramos, Emergency Operations Officer shared information on the Hazard Mitigation Plan and the need for update.

CLOSED SESSION

5. Closed Session

Mayor Nassif stated that if needed, Council Member Cusack will be abstaining from one (1) or more of the Closed Session items as it pertains to Liberty Utilities Company due to a potential conflict of interest, as his company does business with the above company.

Mayor Nassif adjourned to Closed Session at 7:23 p.m. to discuss items 5A-5G

A. Conference with Legal Counsel – Anticipated Litigation – Significant exposure to litigation pursuant to Paragraph (2) of subdivision (d) of Section 54956.9: one or more potential cases.

B. Conference with Legal Counsel – Anticipated Litigation – Initiation of litigation pursuant to Paragraph (4) of subdivision (d) of Section 54956.9: one or more potential cases.

C. Conference with Real Property Negotiators – Pursuant to Government Code Section 54956.8. Property: Apple Valley Ranchos Water Company (now Liberty Utilities (Apple Valley Ranchos Water) Corp.); Authority Negotiator: Town Manager; Negotiating Parties: Liberty Utilities Co., Liberty WWH, Inc., Algonquin Power & Utilities Corp., Park Water Company, Western Water Holdings LLC, Tony Penna, General Manager, Apple Valley Ranchos Water Company; Under Negotiation: Price and Terms of Payment.

1A-3

D. Conference with Legal Counsel – Existing Litigation – Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9, Case No.: CIVDS1517935 - Apple Valley Ranchos Water Company vs. Town of Apple Valley Et Al.

E. Conference with Legal Counsel – Existing Litigation – Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9, Case No.: CIVDS1600180 – Town of Apple Valley vs. Apple Valley Ranchos Water Company Et Al.

F. Personnel Matters – Government Code Section 54957/Public Employee Performance Evaluation. Title: Town Manager.

G. Conference with Legal Counsel – Existing Litigation – Pursuant to Paragraph (1) of subdivision (d) of Government Code Section 54956.9, Case No.: CIVDS1601999 – Town of Apple Valley vs. Jess Ranch Development, Et Al.

Upon returning from Closed Session at 8:27p.m., Mayor Nassif stated there was no reportable action taken.

John Brown, Town Attorney requested that a settlement agreement be read into the record, verbatim. The settlement resolved a recent lawsuit against the Town.

Debra Thomas, Deputy Town Clerk read into the record, verbatim, the Settlement Agreement and General Release of Claims in the matter of *Lopez-Burton et al. v. Town of Apple Valley*, Case No. CIVDS1604968.

Discussion ensued describing what this agreement's result ultimately means and described the difference between a Nexus Study and Cost Allocation Study and the ultimate cost to ratepayers.

ADJOURNMENT

Motion by Council Member Emick, seconded by Council Member Cusack, and unanimously carried, to adjourn the meeting of the Apple Valley Town Council at 8:46 p.m.

_____
Scott Nassif, Mayor

_____
Debra Thomas, Deputy Town Clerk

1A-4

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Appendix C

C.1 Survey Media Alert

C.2 Survey Results

C.3 Website/Survey Link

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C.1 Survey Media Alert

Town of Apple Valley
Office of Emergency Preparedness

A Better Way of Life

Media Alert
July 28, 2016
For immediate release

You are invited to make a difference!

Town of Apple Valley has begun the process to prepare the 2016 update to the Hazard Mitigation Plan (HMP) and we invite you to participate. The HMP will serve as a blueprint for reducing property damage and saving lives from the effects of future natural disasters in the Town of Apple Valley. The Town welcomes you (or other interested parties) to assist the HMP Project Management Team to update our natural hazard mitigation documents for the Town of Apple Valley. This will involve periodic review of documentation and feedback during certain points of the planning process.

To provide solidarity in the planning process, we would like to inform you that our project will be starting soon with a kick-off meeting. You are more than welcome to join this meeting but attendance in this meeting is not a requirement to be involved in the entire process. We anticipate the HMP development process to last about 8 to 12 months.

The kick-off meeting will be on ***Tuesday, August 2, 2016 at 8:30 a.m.*** at the Town Hall Development Services Building meeting room 1 located at 14975 Dale Evans Parkway.

We will have additional discussions of the HMP during all upcoming Disaster Council Meetings and CERT meetings.

For more information about the HMP process and history behind the program visit: www.readyapplevalley.org.

If you have any additional questions, please do not hesitate to contact me by phone or email. Thank you for your time and consideration.

Joseph Ramos
Town of Apple Valley
Emergency Services Officer
jramos@applevalley.org
760-240-7000 ext. 7890

www.AppleValley.org 14955 Dale Evans Parkway • Apple Valley, California 92307 • 760.240.7000

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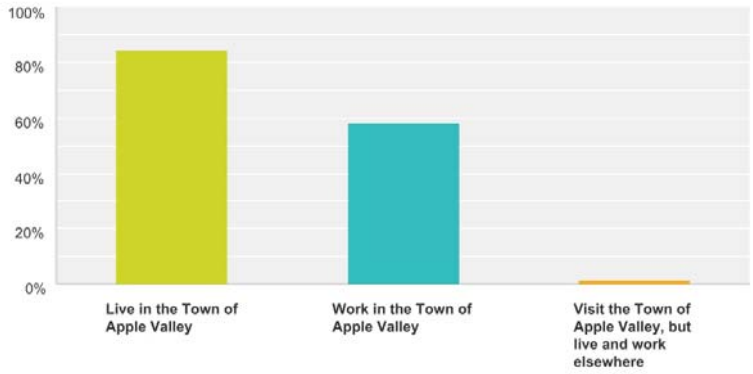
C.2 Survey Results

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q1 Do you.. (Check all that apply).

Answered: 123 Skipped: 0

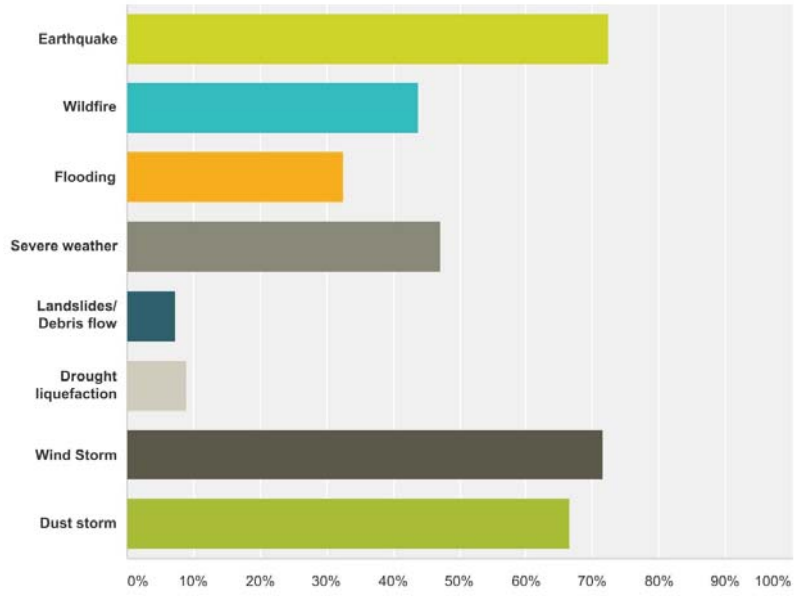


Answer Choices	Responses	
Live in the Town of Apple Valley	84.55%	104
Work in the Town of Apple Valley	58.54%	72
Visit the Town of Apple Valley, but live and work elsewhere	1.63%	2
Total Respondents: 123		

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q2 Which of the following types of natural disasters have you or someone in your household experienced in the past 15 years within the Town of Apple Valley? (Check all that apply)

Answered: 123 Skipped: 0

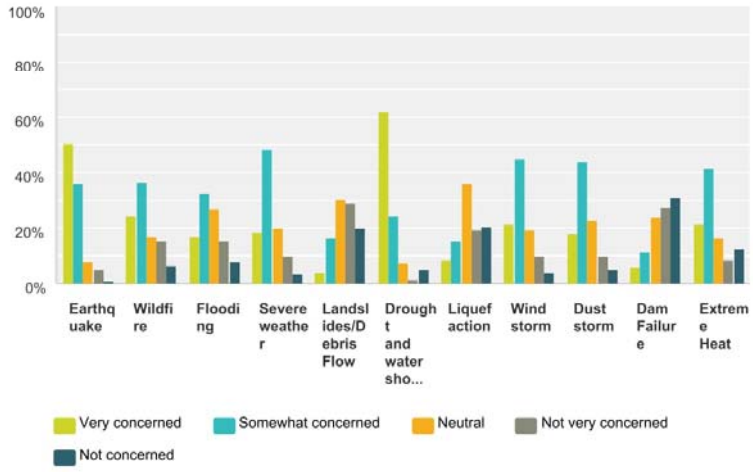


Answer Choices	Responses	
Earthquake	72.36%	89
Wildfire	43.90%	54
Flooding	32.52%	40
Severe weather	47.15%	58
Landslides/ Debris flow	7.32%	9
Drought liquefaction	8.94%	11
Wind Storm	71.54%	88
Dust storm	66.67%	82
Total Respondents: 123		

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q3 How concerned are you about the following natural hazards affecting your home and/or business in Apple Valley? Please check ONE response for each hazard.

Answered: 123 Skipped: 0



	Very concerned	Somewhat concerned	Neutral	Not very concerned	Not concerned	Total	Weighted Average
Earthquake	50.41% 62	35.77% 44	8.13% 10	4.88% 6	0.81% 1	123	1.70
Wildfire	24.39% 30	36.59% 45	17.07% 21	15.45% 19	6.50% 8	123	2.43
Flooding	17.07% 21	32.52% 40	26.83% 33	15.45% 19	8.13% 10	123	2.65
Severe weather	18.33% 22	48.33% 58	20.00% 24	10.00% 12	3.33% 4	120	2.32
Landslides/Debris Flow	4.13% 5	16.53% 20	30.58% 37	28.93% 35	19.83% 24	121	3.44
Drought and water shortage	61.79% 76	24.39% 30	7.32% 9	1.63% 2	4.88% 6	123	1.63
Liquefaction	8.55% 10	15.38% 18	35.90% 42	19.66% 23	20.51% 24	117	3.28
Wind storm	21.31% 26	45.08% 55	19.67% 24	9.84% 12	4.10% 5	122	2.30
Dust storm	18.18% 22	43.80% 53	23.14% 28	9.92% 12	4.96% 6	121	2.40
Dam Failure	5.83% 7	11.67% 14	24.17% 29	27.50% 33	30.83% 37	120	3.66

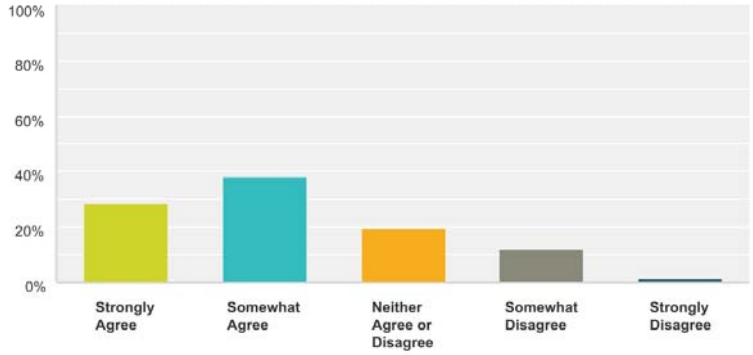
Town of Apple Valley Local Hazard Mitigation Plan Survey

Extreme Heat	**21.49%** 26	**41.32%** 50	**16.53%** 20	**8.26%** 10	**12.40%** 15	121	2.49

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q4 Information about the risks from natural hazards is readily available and easy to locate.

Answered: 123 Skipped: 0

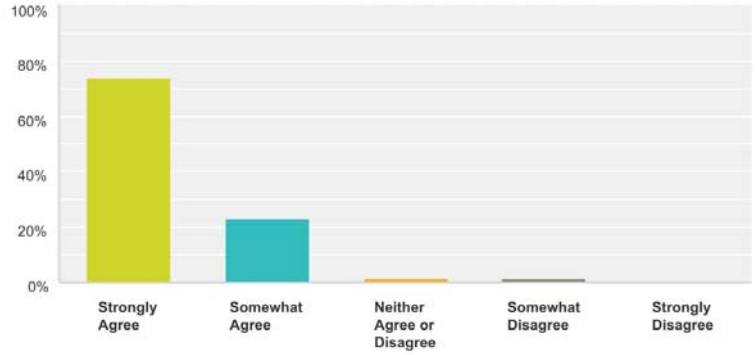


Answer Choices	Responses	
Strongly Agree	28.46%	35
Somewhat Agree	38.21%	47
Neither Agree or Disagree	19.51%	24
Somewhat Disagree	12.20%	15
Strongly Disagree	1.63%	2
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q5 It is my responsibility to educate myself and take actions that will reduce my exposure to the risks from natural hazards.

Answered: 123 Skipped: 0

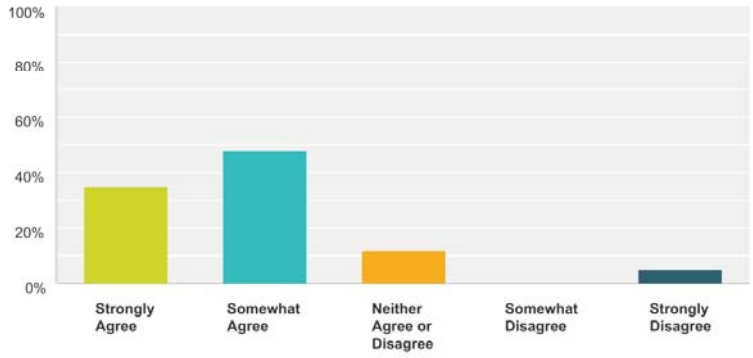


Answer Choices	Responses	
Strongly Agree	73.98%	91
Somewhat Agree	22.76%	28
Neither Agree or Disagree	1.63%	2
Somewhat Disagree	1.63%	2
Strongly Disagree	0.00%	0
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q6 It is the responsibility of government (local, state and federal) to provide education and programs that promote citizen actions that will reduce exposure to the risks from natural hazards.

Answered: 123 Skipped: 0

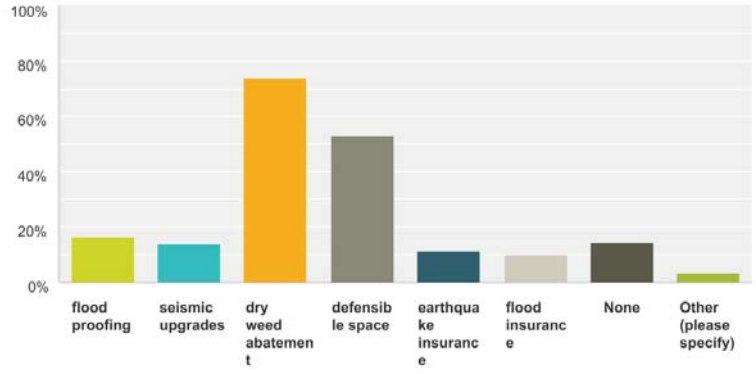


Answer Choices	Responses	
Strongly Agree	34.96%	43
Somewhat Agree	47.97%	59
Neither Agree or Disagree	12.20%	15
Somewhat Disagree	0.00%	0
Strongly Disagree	4.88%	6
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q7 What mitigation measures or strategies have been completed in the last 5 years to protect your home or business from a natural hazard? Check all that apply

Answered: 123 Skipped: 0

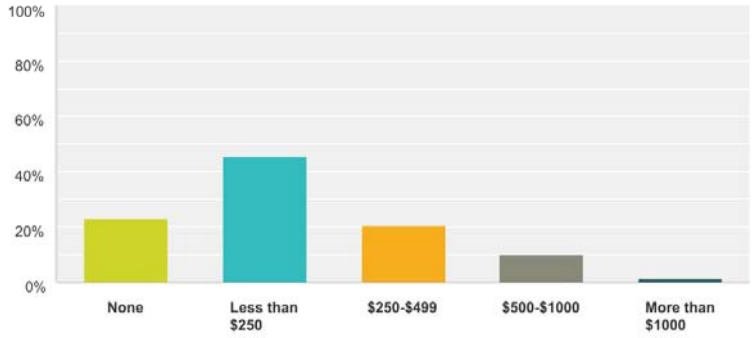


Answer Choices	Responses	
flood proofing	16.26%	20
seismic upgrades	13.82%	17
dry weed abatement	73.98%	91
defensible space	52.85%	65
earthquake insurance	11.38%	14
flood insurance	9.76%	12
None	14.63%	18
Other (please specify)	3.25%	4
Total Respondents: 123		

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q8 How much money do you spend annually on mitigation measures to protect your home or business from natural hazards?

Answered: 123 Skipped: 0

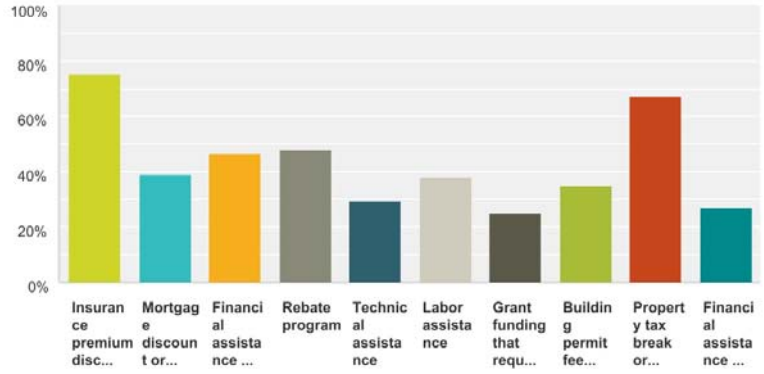


Answer Choices	Responses	
None	22.76%	28
Less than $250	45.53%	56
$250-$499	20.33%	25
$500-$1000	9.76%	12
More than $1000	1.63%	2
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q9 Which of the following incentives would encourage you to protect your home against natural hazards? (Check all that apply)

Answered: 123 Skipped: 0

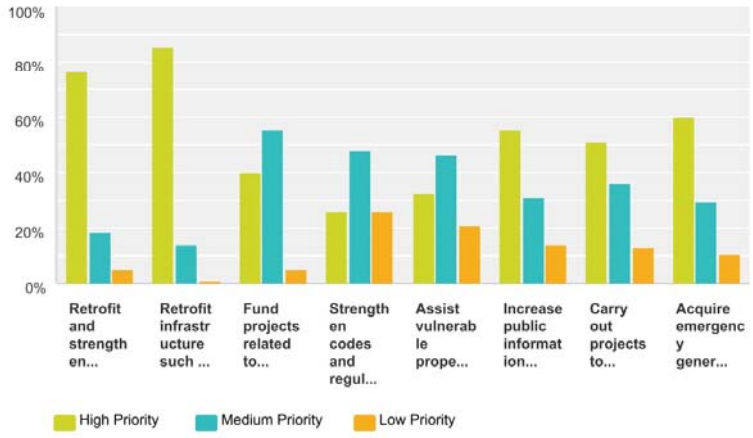


Answer Choices	Responses	
Insurance premium discount	75.61%	93
Mortgage discount or low interest loan	39.02%	48
Financial assistance for property upgrades or equipment	46.34%	57
Rebate program	47.97%	59
Technical assistance	29.27%	36
Labor assistance	38.21%	47
Grant funding that requires cost share from property owner	25.20%	31
Building permit fee reduction or waiver	34.96%	43
Property tax break or incentive	67.48%	83
Financial assistance for equipment	26.83%	33
Total Respondents: 123		

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q10 What protection methods do you believe the Town, County, State or Federal agencies should be using in order to reduce damage and disruption from hazard events within the Town of Apple Valley?

Answered: 123 Skipped: 0

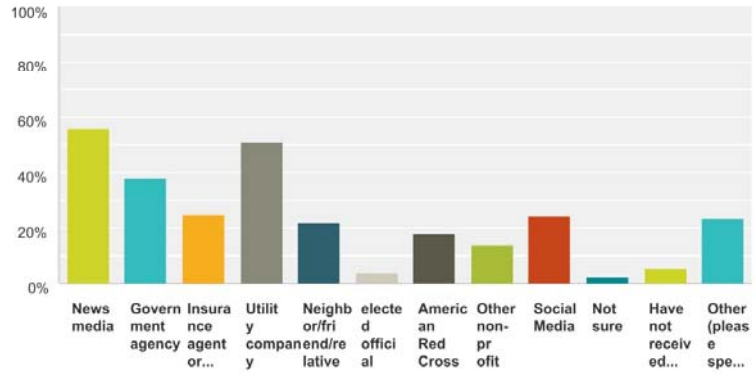


	High Priority	Medium Priority	Low Priority	Total
Retrofit and strengthen essential facilities such as police, fire, schools and hospitals	76.42% 94	18.70% 23	4.88% 6	123
Retrofit infrastructure such as roads, bridges, drainage facilities, water supply, and waster water.	85.37% 105	13.82% 17	0.81% 1	123
Fund projects related to drainage control measures and improvements.	39.84% 49	55.28% 68	4.88% 6	123
Strengthen codes and regulations to include higher standards in hazard areas.	26.02% 32	47.97% 59	26.02% 32	123
Assist vulnerable property owners with securing funding for mitigation/property protection.	32.52% 40	46.34% 57	21.14% 26	123
Increase public information about risks and the exposure to hazards within the Town of Apple Valley.	55.28% 68	30.89% 38	13.82% 17	123
Carry out projects to restore the natural environment's capacity to absorb the impacts from natural hazards.	51.22% 63	35.77% 44	13.01% 16	123
Acquire emergency generators for essential government facilities and buildings identified as care and shelter.	60.16% 74	29.27% 36	10.57% 13	123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q11 Thinking back in the last three years, from whom have you received information about how to make members of your household and your home safer from natural disasters? Check all that apply.

Answered: 123 Skipped: 0

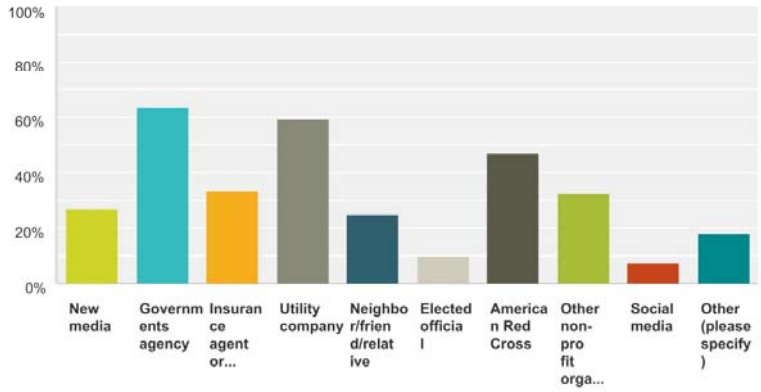


Answer Choices	Responses	
News media	56.10%	69
Government agency	38.21%	47
Insurance agent or company	25.20%	31
Utility company	51.22%	63
Neighbor/friend/relative	21.95%	27
elected official	4.07%	5
American Red Cross	17.89%	22
Other non-profit	13.82%	17
Social Media	24.39%	30
Not sure	2.44%	3
Have not received information	5.69%	7
Other (please specify)	23.58%	29
Total Respondents: 123		

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q12 Whom would you most trust to provide you with information about how to make your household and home safer from natural disasters? Choose at least 3 responses.

Answered: 123 Skipped: 0

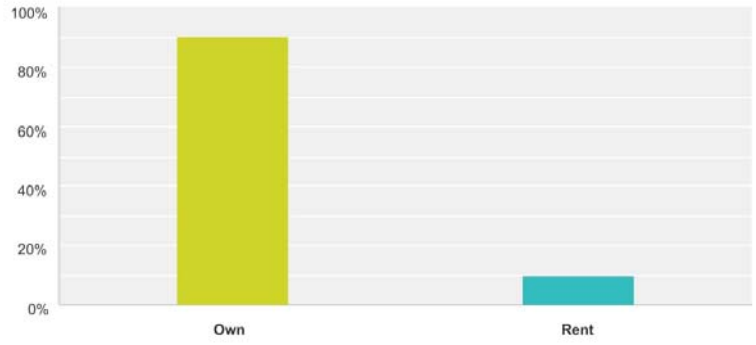


Answer Choices	Responses	
New media	26.83%	33
Governments agency	63.41%	78
Insurance agent or company	33.33%	41
Utility company	59.35%	73
Neighbor/friend/relative	25.20%	31
Elected official	9.76%	12
American Red Cross	47.15%	58
Other non-profit organization	32.52%	40
Social media	7.32%	9
Other (please specify)	17.89%	22
Total Respondents: 123		

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q13 Do you rent or own your home or business?

Answered: 123 Skipped: 0

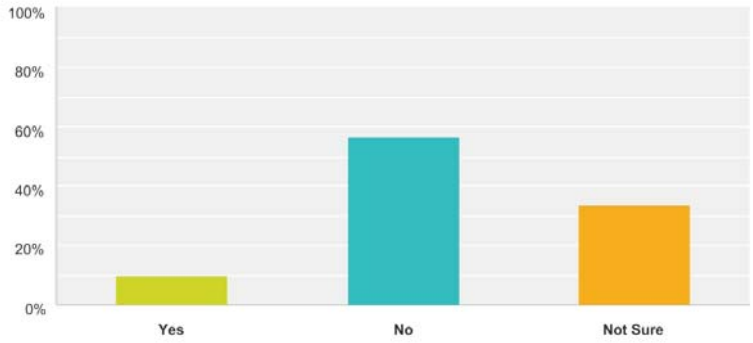


Answer Choices	Responses	
Own	90.24%	111
Rent	9.76%	12
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q14 Is your home or business in or near a FEMA designated floodplain?

Answered: 123 Skipped: 0

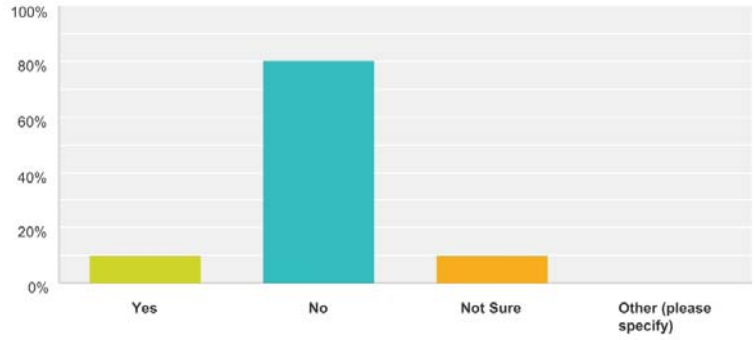


Answer Choices	Responses	
Yes	9.76%	12
No	56.91%	70
Not Sure	33.33%	41
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q15 Do you have flood insurance?

Answered: 123 Skipped: 0

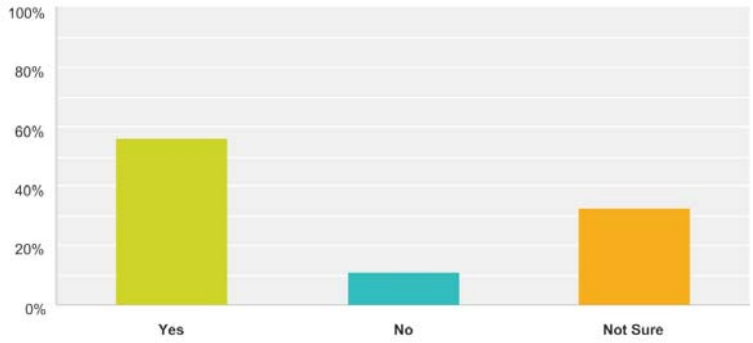


Answer Choices	Responses	
Yes	9.76%	12
No	80.49%	99
Not Sure	9.76%	12
Other (please specify)	0.00%	0
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q16 Is your home or business located near an earthquake fault?

Answered: 123 Skipped: 0

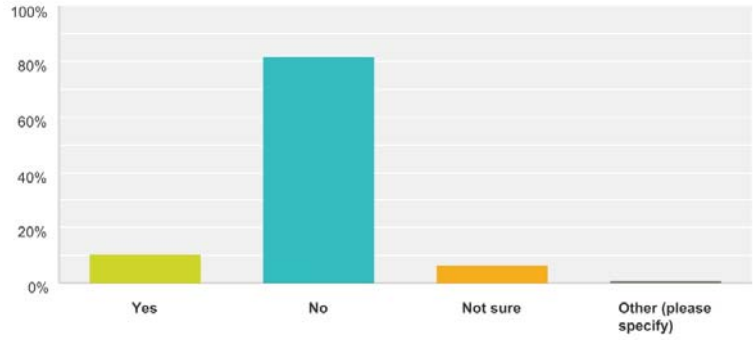


Answer Choices	Responses	
Yes	56.10%	69
No	11.38%	14
Not Sure	32.52%	40
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q17 Do you have earthquake insurance?

Answered: 123 Skipped: 0

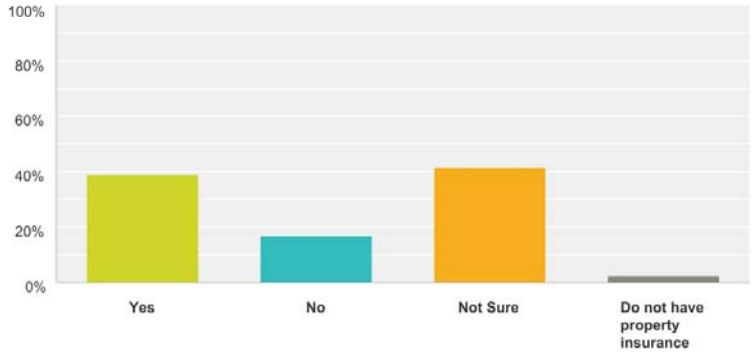


Answer Choices	Responses	
Yes	10.57%	13
No	82.11%	101
Not sure	6.50%	8
Other (please specify)	0.81%	1
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q18 To the best of your knowledge, does your homeowner's, renter's, or general insurance policy provide coverage for damage from natural hazards?

Answered: 123 Skipped: 0



Answer Choices	Responses	
Yes	39.02%	48
No	17.07%	21
Not Sure	41.46%	51
Do not have property insurance	2.44%	3
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q19 Have you ever had problems obtaining homeowner's or renter's insurance due to risks from natural hazards?

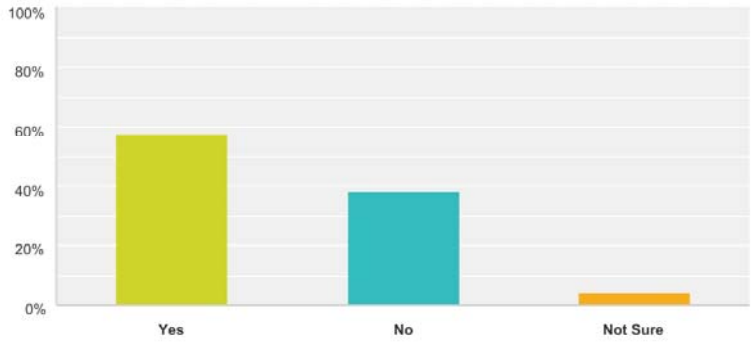
Answered: 123 Skipped: 0

Answer Choices	Responses	
Yes	6.50%	8
No	84.55%	104
Not Sure	3.25%	4
Never tried obtaining hazard insurance	5.69%	7
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q20 When you moved into your home, did you consider the impact a natural hazard event could have on your home?

Answered: 123 Skipped: 0

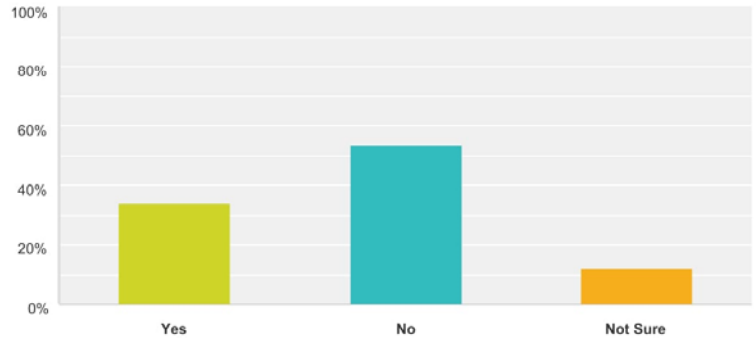


Answer Choices	Responses	
Yes	57.72%	71
No	38.21%	47
Not Sure	4.07%	5
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q21 Was the presence of a natural hazard risk zone (for example, wild fire area or flood zone) disclosed to you by a real estate agent, seller or landlord before you purchased or moved into your home?

Answered: 123 Skipped: 0

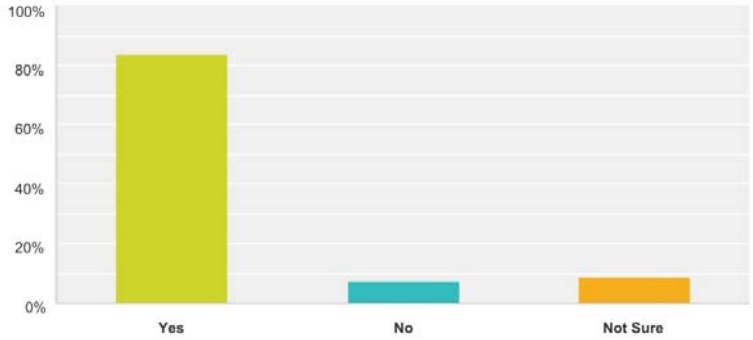


Answer Choices	Responses	
Yes	34.15%	42
No	53.66%	66
Not Sure	12.20%	15
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q22 Would natural hazard real estate disclosures or risk information influence your decision on where to buy or rent a home?

Answered: 123 Skipped: 0



Answer Choices	Responses	
Yes	83.74%	103
No	7.32%	9
Not Sure	8.94%	11
Total		123

Town of Apple Valley Local Hazard Mitigation Plan Survey

Q23 Thank you again for completing the survey!!!! Please provide any additional comments that you may have regarding hazard mitigation and community protection against natural disasters.

Answered: 15 Skipped: 108

C.3 Website/Survey Link

Apple Valley, CA : Local Hazard Mitigation Plan http://www.applevalley.org/services/emergency-preparedness/hazard-mit...

Local Hazard Mitigation Plan

Welcome to the Town of Apple Valley's Local Hazard Mitigation Plan (HMP) webpage!

This webpage contains information and documents for Apple Valley's Local Hazard Mitigation Plan (HMP). The HMP must be updated every five years to stay current with natural hazard events and maintain eligibility for State and Federal grant funding. This webpage will remain active to document past, current and future hazard mitigation planning efforts for the public and Town officials alike.

Please explore the links on this page to learn more about the HMP.

As always, we are seeking the public's help and input during the local HMP Update process. If you have disaster-related stories and/or photographs that you would like to share, or you have comments or other information pertaining to natural hazard mitigation and the planning process, please send them to:

JRamos@applevalley.org.

Any information or feedback that you can provide is both helpful and appreciated!

Help our community by completing an important survey that will be used for the HMP 2017 update at the link below.

CLICK HERE

Apple Valley Local Hazard Mitigation Plan 2011

United States Geological Survey - Link to the United States Geological Survey's Earthquakes Hazards Program

Federal Emergency Management Agency - Link to FEMA's website dealing with flooding

San Bernardino County Hazard Maps - SBC's Hazard Maps

California My Hazard Maps- CalOES Hazard Maps

Earthquakes in California - Link to a list of major earthquakes throughout California's history.

Chronology of San Bernardino County Proclaimed Disasters - Link to a list of many of the proclaimed disasters that took place in San Bernardino County from 1954 to 2016. Includes earthquakes, floods and fires.

History of San Bernardino County - Link to a County website with major historical milestones of San Bernardino County, from 1853 to 2003.

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Appendix D

D.1 Hazard Summary Worksheet Instructions

D.2 Hazard Summary Worksheet agreed upon by Planning Committee

D.3 Risk Factor Approach Instruction Sheet

D.4 Risk Factor Final Worksheet agreed upon Planning Committee

D.5 Mitigation Action Implementation Plan Form

D.6 Mitigation Action Reporting Form

D.7 Annual HMP Review Questionnaire

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D.1 Hazard Summary Worksheet Instructions

Hazard Summary Worksheet Instructions

Definitions for Classifications

Location (Geographic Area Affected)

- **Negligible:** Less than 10 percent of planning area or isolated single-point occurrences
- **Limited:** 10 to 25 percent of the planning area or limited single-point occurrences
- **Significant:** 25 to 75 percent of planning area or frequent single-point occurrences
- **Extensive:** 75 to 100 percent of planning area or consistent single-point occurrences

Maximum Probable Extent (Magnitude/Strength based on historic events or future probability)

- **Weak:** Limited classification on scientific scale, slow speed of onset or short duration of event, resulting in little to no damage
- **Moderate:** Moderate classification on scientific scale, moderate speed of onset or moderate duration of event, resulting in some damage and loss of services for days
- **Severe:** Severe classification on scientific scale, fast speed of onset or long duration of event, resulting in devastating damage and loss of services for weeks or months
- **Extreme:** Extreme classification on scientific scale, immediate onset or extended duration of event, resulting in catastrophic damage and uninhabitable conditions

Hazard	Scale / Index	Weak	Moderate	Severe	Extreme
Drought	Palmer Drought Severity Index	-1.99 to +1.99	-2.00 to -2.99	-3.00 to -3.99	4.00 & below
Earthquake	Modified Mercalli Scale	I to IV	V to VII	VII	IX to XII
	Richter Magnitude	2, 3	4, 5	6	7, 8

Probability of Future Events

- **Unlikely:** Less than 1 percent probability of occurrence in the next year or a recurrence interval of greater than every 100 years.
- **Occasional:** 1 to 10 percent probability of occurrence in the next year or a recurrence interval of 11 to 100 years.
- **Likely:** 10 to 90 percent probability of occurrence in the next year or a recurrence interval of 1 to 10 years
- Highly Likely: 90 to 100 percent probability of occurrence in the next year or a recurrence interval of less than 1 year.

Overall Significance

- **Low:** Two or more criteria fall in lower classifications or the event has a minimal impact on the planning area. This rating is sometimes used for hazards with a minimal or unknown record of occurrences or for hazards with minimal mitigation potential.
- **Medium:** The criteria fall mostly in the middle ranges of classifications and the event's impacts on the planning area are noticeable but not devastating. This rating is sometimes used for hazards with a high extent rating but very low probability rating.
- **High:** The criteria consistently fall in the high classifications and the event is likely/highly likely to occur with severe strength over a significant to extensive portion of the planning area.

3- Cumulative meteorological drought and wet conditions: http://ncdc.noaa.gov/

4 Earthquake intensity and effect on population and structures http://earthquake.usgs.gov/

5 Earthquake magnitude as a logarithmic scale, measured by a seismograph http://earthquake.usgs.gov/

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D.2 Hazard Summary Worksheet agreed upon by Planning Committee

LHMP Hazard Summary Worksheet

Planning Team Meeting- Feb. 21, 2017

Use this worksheet to summarize hazard description information and identify which hazards are most significant to the planning area. The definitions provided on the following page can be modified to meet local needs and methods.

Hazard	Location (Geographic Area Affected)	Maximum Probable Extent (Magnitude/Strength)	Probability of Future Events	Overall Significance Ranking
+ Climate Change	— Neg.	— W	— O	Low
~~Dam Failure~~	L	W	U	Low
Drought	E	M	O	Low
+ Earthquake	E	S	L	High
+ Erosion	N	W	U	Low
~~Expansive Soils~~	N	W	U	Low
~~Extreme Cold~~	N	W	U	Low
+ Extreme Heat	E	M	L	Med
+ Flood	L	M	L	Med
~~Landslide~~	N	W	U	Low
~~Lightning~~	Z N	W	O	Low
~~Severe Wind~~	E	M	L	Med
~~Severe Winter Weather~~	E	M	L	Med
~~Subsidence~~	N	W	U	Low
~~Terrorism~~	N	W	U	Low
+ Wildfire	L	M-S	L	M-H

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D.3 Risk Factor Approach Instruction Sheet

Risk Factor (RF) Approach

For use in multi-hazard mitigation planning hazard prioritization exercises.

The RF approach combines historical data, local knowledge, and consensus opinions to produce numerical values that allow identified hazards to be ranked against one another. These criteria were used to evaluate hazards and identify the highest risk hazard in the project region.

The RF approach produces numerical values that allow identified hazards to be ranked against one another (the higher the RF value, the greater the hazard risk). RF values are obtained by assigning varying degrees of risk to five categories for each hazard: *probability, impact, spatial extent, warning time*, and *duration*. Each degree of risk is assigned a value ranging from 1 to 4 and a weighing factor for each category should be agreed upon by the planning committee. Based upon any unique concerns for the planning area, the planning committee may also adjust the RF weighting scheme. To calculate the RF value for a given hazard, the assigned risk value for each category is multiplied by the weighting factor. The sum of all five categories equals the final RF value, as demonstrated in the example equation below:

RF Value = [(Probability x .30) + (Impact x .30) +

(Spatial Extent x .20) + (Warning Time x .10) + (Duration x .10)]

According to the default weighting scheme applied, the highest possible RF value is 4.0.

Please see the Risk Factor Criteria table on the following page for information on the risk factor weighting index and other definitions.

Risk Factor Index Criteria Table

Risk Assessment Category	Level	Degree of Risk Criteria	Index	Weight Value
PROBABILITY **What is the likelihood of a hazard event occurring in a given year?**	**UNLIKELY**	LESS THAN 1% ANNUAL PROBABILITY	**1**	**30%**
	POSSIBLE	BETWEEN 1 & 10% ANNUAL PROBABILITY	**2**	
	LIKELY	BETWEEN 10 &100% ANNUAL PROBABILITY	**3**	
	HIGHLY LIKELY	100% ANNUAL PROBABILTY	**4**	
IMPACT ***In terms of injuries, damage, or death, would you anticipate impacts to be minor, limited, critical, or catastrophic when a significant hazard event occurs?***	**MINOR**	VERY FEW INJURIES, IF ANY. ONLY MINOR PROPERTY DAMAGE & MINIMAL DISRUPTION ON QUALITY OF LIFE. TEMPORARY SHUTDOWN OF CRITICAL FACILITIES.	**1**	**30%**
	LIMITED	MINOR INJURIES ONLY. MORE THAN 10% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE DAY.	**2**	
	CRITICAL	MULTIPLE DEATHS/INJURIES POSSIBLE. MORE THAN 25% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR MORE THAN ONE WEEK.	**3**	
	CATASTROPHIC	HIGH NUMBER OF DEATHS/INJURIES POSSIBLE. MORE THAN 50% OF PROPERTY IN AFFECTED AREA DAMAGED OR DESTROYED. COMPLETE SHUTDOWN OF CRITICAL FACILITIES FOR 30 DAYS OR MORE.	**4**	
SPATIAL EXTENT ***How large of an area could be impacted by a hazard event? Are impacts localized or regional?***	**NEGLIGIBLE**	LESS THAN 1% OF AREA AFFECTED	**1**	**20%**
	SMALL	BETWEEN 1 & 10% OF AREA AFFECTED	**2**	
	MODERATE	BETWEEN 10 & 50% OF AREA AFFECTED	**3**	
	LARGE	BETWEEN 50 & 100% OF AREA AFFECTED	**4**	
WARNING TIME ***Is there usually some lead time associated with the hazard event? Have warning measures been implemented?***	**MORE THAN 24 HRS**	SELF DEFINED	**1**	**10%**
	12 TO 24 HRS	SELF DEFINED	**2**	
	6 TO 12 HRS	SELF DEFINED	**3**	
	LESS THAN 6 HRS	SELF DEFINED	**4**	

DURATION ***How long does the hazard event usually last?***	**LESS THAN 6 HRS**	SELF DEFINED	**1**	**10%**
	LESS THAN 24 HRS	SELF DEFINED	**2**	
	LESS THAN 1 WEEK	SELF DEFINED	**3**	
	MORE THAN 1 WEEK	SELF DEFINED	**4**	

Due to the inherent errors possible in any disaster, the results of the risk factor analysis should only be used for planning purposes and in developing hazard priorities and concentrating jurisdictional resources. Before assigning risk factors and prioritization to hazards it is recommended to complete a draft of the hazard profiles and risk assessment information to aid in determining potential impacts. Before the hazard prioritization process you may want to consider the following risk assessment criteria:

- ✓ Inventory and summarize vulnerable assets
- ✓ Characterize repetitive flood loss properties
- ✓ Estimated harm to residents and estimated damages to buildings
- ✓ Describe vulnerability to future development

[Example Risk Factor Results from Plumas County Hazard Mitigation Project]

PLUMAS COUNTY HAZARD MITIGATION PLAN

Department of Health / Office of Emergency Services

Risk Factor Worksheet

Ranking	Natural Hazards	Probability	Calc.1	Impact	Calc.2	Spatial Extent	Calc.3	Warning Time	Calc.4	Duration	Calc.5	RF Factor
1	Wildfire	4	1.2	3	0.9	4	0.8	3	0.3	4	0.4	3.6
2	Severe Weather	4	1.2	2	0.6	4	0.8	1	0.1	2	0.2	2.9
3	Geologic Hazards	4	1.2	2	0.6	1	0.2	4	0.4	2	0.2	2.6
4	Flooding	2	0.6	3	0.9	2	0.4	1	0.1	4	0.4	2.4
5	Drought	2	0.6	1	0.3	3	0.6	1	0.1	4	0.4	2
6	Climate Change	2	0.6	1	0.3	4	0.8	1	0.1	1	0.1	1.9
7	Dam Failure	1	0.3	2	0.6	1	0.2	2	0.2	1	0.1	1.4

Risk Factor Conculsion	
HIGH RISK (3.0 – 4.0)	***Wildfire***
MODERATE RISK (2.0 – 2.9)	***Severe Weather, Geologic Hazards, Flooding***
LOW RISK (0.1 – 1.9)	***Drought, Climate Change, Dam Failure***

The conclusions from the example risk factor results above, were translated into three categories for a final summary of hazard risk based on *High*, *Moderate*, or *Low* risk designations. The designations values are arbitrary and can be adjusted as deemed necessary. It should be noted that although some hazards are classified as posing Low risk, their occurrence of

varying or unprecedented magnitudes is still possible and will continue to be reevaluated during future updates of this plan.

D.4 Risk Factor Final Worksheet agreed upon Planning Committee

LHMP RISK FACTOR EXCEL WORKSHEET

HAZARD PRIORITIZATION /

MITIGATE HAZARDS

Rank	Natural Hazards	Probability (1-4)	Factor1 = (Probability Index * .30)	Impact (1-4)	Factor2 = (Impact Index * .30)	Spatial Extent (1-4)	Factor3 = (Spatial Extent Index * .20)	Warning Time (1-4)	Factor4 = (Warning Time Index * .10)	Duration (1-4)	Factor5 = (Probability Index * .10)	RF Factor Total = (Add Factors 1-5)
1	Climate Change	1	0.3	1	0.3	3	0.6	1	0.1	4	0.4	**1.7**
2	Earthquake	3	0.9	4	1.2	4	0.8	4	0.4	3	0.3	**3.6**
3	Erosion	1.5	0.45	1	0.3	1	0.2	3	0.3	1.5	0.15	**1.4**
4	Extreme Heat	2.5	0.75	1	0.3	2.5	0.5	1	0.1	2.5	0.25	**1.9**
5	Flooding	2	0.6	2	0.6	2	0.4	4	0.4	2.5	0.25	**2.25**
6	Wildfire	2	0.6	2	0.6	2	0.4	4	0.4	3	0.3	**2.3**

The RF approach combines historical data, local knowledge, and consensus opinions to produce numerical values that allow identified hazards to be ranked against one another. These criteria were used to evaluate hazards and identify the highest risk hazard in the Lawndale region.
The RF approach produces numerical values that allow identified hazards to be ranked against one another (the higher the RF value, the greater the hazard risk). RF values are obtained by assigning varying degrees of risk to five categories for each hazard: probability, impact, spatial extent, warning time, and duration. Each degree of risk is assigned a value ranging from 1 to 4 and a weighing factor for each category was agreed upon by the MPC.

Calculated Field

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D.5 Mitigation Action Implementation Plan Form

Mitigation Action Implementation Plan	
Action:	
Implementing Agencies	
Lead Agency (ies):	Town of Apple Valley
Roles and Responsibilities:	
Support Agency (ies):	
Roles and Responsibilities:	
Preliminary Identified Tasks:	
1.	
2.	
3.	
Implementation Costs	
Estimated Capital Costs:	
Estimated Maintenance Costs:	
Implementation Resources	
Financial Resources (Funding):	
Technical Assistance Resources:	
Required Equipment, Vehicles, and Supplies	
Office Supplies	
Vehicles	
Implementation Timeframe	
Estimated Mitigation Action Start Date:	
Estimated Mitigation Action Completion Date:	

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D.6 Mitigation Action Reporting Form

Mitigation Action Reporting Forms

Your jurisdictional may wish to use these mitigation actions reporting forms on an annual, semiannual, or quarterly basis.

Progress Report Period:_____ to _____
(date) (date)

Project Title:_____

Project ID#_____

Responsible Agency:_____

Address:_____

Town: _____

Contact Person:_____

Phone#: _____ Email _____

List Supporting Agencies and Contacts:_____

Total Project Cost:_____

Funding Source:_____

Anticipated Cost Overrun/Underrun:_____

Date of Project Approval:_____ Start date of the project:_____

Anticipated completion date: _____

Description of the Project (include a description of each phase, if applicable, and the time frame for completing each
phase):_____

Milestones	Completed (✓)	Projected Date of Completion

HMP Goal Addressed: _____

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D.7 Annual HMP Review Questionnaire

Annual HMP Review Questionnaire

Plan Section	Questions	Yes	No	Comments
Planning Process	Have there been staffing changes that would warrant inviting different members to the planning team?			
	Are there procedures that can be done more efficiently?			
	Are there representatives of essential organizations who have not fully participated in the planning and implementation of actions? If so, can someone else from this organization commit to the team?			
	Has the committee undertaken any public outreach activities regarding the HMP or implementation of mitigation actions?			
	How can public participation be improved?			
Hazard Profiles	Has a natural and/or human caused disaster occurred in this reporting period?			
	Are there natural and/or human caused hazards that have not been addressed in this HMP and should be?			
	Are additional maps/data or new hazards studies available? If so, what have they revealed?			
Vulnerability Analysis	Do any new critical facilities or infrastructure need to be added to the asset lists?			
	How will the vulnerability analysis be affected by additional maps/data or new hazard studies?			
	Have there been changes in development patterns that could influence the effects of hazards or create additional risks?			
	Has the vulnerability analysis changed as a result of the implementation of mitigation actions?			
Mitigation Strategy	Are there different or additional resources (financial, technical, and human) that are now available for mitigation planning?			
	Is the goal still applicable?			
	Should new mitigation actions be added to the Mitigation Action Plan?			
	During implementation of the mitigation actions, what has proven effective? What has proven not effective?			
	Do existing mitigation actions listed in the Mitigation Action Plan need to be reprioritized deleted, or revised?			
	Are the mitigation actions listed in the Mitigation Action Plan appropriate for available resources?			
Planning Mechanisms	Has the Mitigation Action plan been incorporated into existing planning mechanisms?			
	Has the Mitigation Action plan incorporated existing plan mechanisms?			

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