

Group Activity A



- **Objectives**

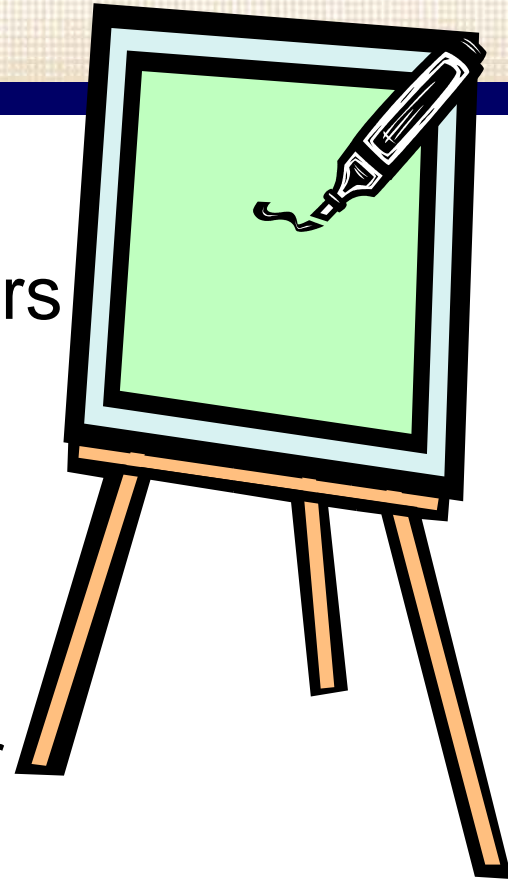
- Create a forum to identify and discuss potential losses, impacts, and risks through the use of a fictitious scenario.
- Explore how to use a community profile to answer questions related to preparing for and mitigating against potential disasters.

Group Activity A: Instructions

- **Allow for artificialities** in the scenario.
 - The scenario is a **tool** to help illustrate how communities estimate loss, impact and risk.
- Feel free to **improvise**
 - Think outside the box

Group Activity A: Instructions

- Working as a group, review the community profile provided by facilitators and answer key questions.
- Record answers on flip-charts
- Be prepared to present your answers!
 - Each group will have **X minutes** to answer the five questions.
 - Each group will have **X minutes** to present the group answers.



Group Activity A: Sumter Profile

Team Questions

1. How can the Sumter Community Profile be used to answer questions about risk, as well as potential impacts?
2. What are the key hazards facing Sumter?
3. What aspects of the community profile illustrate potential vulnerabilities?
4. What community coping capacities are evident from the community profile?
5. What other critical information related to risk would you also like to see in the community profile?



Day 2 Activities: Community Profile APEC Workshop on Hazard Mapping and Risk and Vulnerability Assessment

October 19-21, 2010

Grand Formosa Regent Taipei
Chinese Taipei

Community Profile: Sumter

Sumter is a prominent urban area located between the West Mountains and the Pacific Coast. The population of Sumter is a mixture of native residents and Asian and American cultures. It is estimated that 250,000 residents have migrated to Sumter from 115 different countries. This has led to the intermingling of diverse cultures and the growth of a thoroughly cosmopolitan culture. Sumter has a population of 2.3 million residents. The official language of Sumter is English however there are large pockets of non-English speaking populations (approximately 40,000 Vietnamese speakers and 25,000 Spanish speakers).

Major business and industries in this urban area include textile, petroleum manufacturing, banking, and tourism. During this global economic recession, Sumter has been hit extremely hard forcing many men to leave their families to find work elsewhere.

As with many major urban centers, Sumter has extremely high population density. Sumter has a total area of 745.9 square kilometers; population density of the urbanized city center is as high as 6000 people per square kilometer.

Sumter has two major rivers that run through the center of town, the East River and the Central River. On three occasions over the last 10 years, Sumter has experienced significant flooding leaving 75% of structures in the community impacted. Flooding however is not the only hazard that threatens Sumter. This coastal community has experienced two major typhoons/tropical cyclones (Category 3 or greater) in the last 7 years both of which caused significant damage to infrastructure and homes. Sumter is also known for its seismic activity with the Tiptop Fault running through the western edge of the city. In 1992, Sumter experienced a major earthquake measuring 7.9 on the Richter scale that caused widespread damage. As a result of the 1992 earthquake, new building codes have been implemented (although not enforced) that require new construction to adhere to minimum earthquake safety regulations.

Note: The information contained in this document is fictitious and is provided for use solely by workshop participants to consider a hypothetical scenario.

HAZARD PROFILE WORKSHEET	
COMMUNITY NAME: Sumter	
HAZARD MOST LIKELY TO OCCUR: Flooding	
POTENTIAL MAGNITUDE (<i>Percentage of the community that can be affected</i>):	
<input type="checkbox"/> Catastrophic: More than 50%. <input checked="" type="checkbox"/> Critical: 25 to 50%. <input type="checkbox"/> Limited: 10 to 25%. <input type="checkbox"/> Negligible: Less than 10%.	
FREQUENCY OF OCCURRENCE: <input type="checkbox"/> Highly likely: Near 100% probability in next year. <input checked="" type="checkbox"/> Likely: Between 10 and 100% probability in next year, or at least one chance in next 10 years. <input type="checkbox"/> Possible: Between 1 and 10% probability in next year, or at least one chance in next 100 years. <input type="checkbox"/> Unlikely: Less than 1% probability in next 100 years.	SEASONAL PATTERN: <ul style="list-style-type: none"> • During the rainy season homes and businesses along the main rivers flood. • Three times over the last 10 years 75% of the structures in the community were impacted.
AREAS LIKELY TO BE AFFECTED (BY GEOGRAPHIC REGION) <ul style="list-style-type: none"> • Homes and businesses along the main rivers 	
DESCRIBE EFFECTS TO MAJOR SECTORS (e.g., Communications, Transportation, Utilities, Agriculture, Vulnerable Populations, etc.): <ul style="list-style-type: none"> • Transportation • Agriculture and Fisheries • Tourism (eco tourism resorts located along waterways) 	
PROBABLE DURATION: <ul style="list-style-type: none"> • May – September is the height of the rainy season. • Flooding lasts on average 5 -14 days 	
POTENTIAL SPEED OF ONSET (Probable amount of warning time): <input type="checkbox"/> Minimal (or no) warning. <input type="checkbox"/> 6 to 12 hours warning. <input checked="" type="checkbox"/> 12 to 24 hours warning. <input type="checkbox"/> More than 24 hours warning.	
EXISTING WARNING SYSTEMS: <ul style="list-style-type: none"> • Gage system for main rivers and tributaries 	

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COMMUNITY PROFILE WORKSHEET (1)

COMMUNITY NAME: Sumter

GEOGRAPHIC REGION: Central and Southern Sumter

- Profile Development Team:**
- Director of Disaster Management
 - Department of Public Health
 - Airport Authority
 - Department of Highways & Roadways
 - Port Authority
 - Sumter Police Department
 - Sumter Fire Department
 - Sumter Government Representative

Date Profile Developed: Wednesday, 6 October 2010

- This profile is:**
- An original sector profile.
 - A profile update (date original sector profile developed: _____).

- Maps:**
- Attach map of jurisdiction with geographic region or sectors marked.
 - Attach map of geographic region or sector with key features identified.

GEOGRAPHIC FEATURES (2)

Major Geographic Features in the Region	Potential Impact During Emergency Events
<ul style="list-style-type: none"> • East River • Central River • Central Valley • West Mountains • Coastal Communities 	

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PROPERTY: GENERAL (3)			
Zones/Areas	Land Use	%	Description
Central Valley (<i>Central & Southern Sumter</i>)	<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural Other _____	45%	High-density multi-family structures
Central Valley (<i>Central & Southern Sumter</i>)	<input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Agricultural Other _____	25%	Business District (Retail, Banking, Tourism)
Central Valley (<i>Central & Southern Sumter</i>)	<input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Agricultural Other _____	20%	Textile and Petroleum Manufacturing Plants
Central Valley (<i>Central & Southern Sumter</i>)	<input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Agricultural Other _____	10%	Rice, Pig Farms, Dairy Farms
Locations of Known Potential Hazards			

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PROPERTY: OTHER RESOURCES (4)		
Name/Description	Location	Contact & Phone
Construction Companies <ul style="list-style-type: none"> • Sumter Construction • Tiptop Construction & Building 	<ul style="list-style-type: none"> • 123 Main Street, Sumter • 789 South Street, Tiptop 	<ul style="list-style-type: none"> • Maria Salmon (123.456.7891) • Ken Kirkland (987-654-3219)
Warehouses <ul style="list-style-type: none"> • Sumter Airport Warehouse • E&L Storage Facility 	<ul style="list-style-type: none"> • 22 Airport Road, Sumter • 651 50th Avenue, Sumter 	<ul style="list-style-type: none"> • Twan Li (123-125-6669) • Ann Lakeland (123-998-7233)
Equipment Rental Facilities <ul style="list-style-type: none"> • Sumter Heavy Equipment • S&M Truck Rental 	<ul style="list-style-type: none"> • 89 Lowland Street, Sumter • 3414 Buffalo Avenue, Sumter 	<ul style="list-style-type: none"> • Heather Bell (123-858-3787) • Tang Low (123-675-2356)
Other <ul style="list-style-type: none"> • Tiptop Debris Removal • Sumter Regional Dump • Family Kitchen Restaurant 	<ul style="list-style-type: none"> • 755 Target Road, Tiptop • 1A West Ave, Sumter • 6653 Main Street, Sumter 	<ul style="list-style-type: none"> • George Smith (987-126-4443) • Lara Sanchez (123-856-2353) • Vu Long (123-456.7884)

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INFRASTRUCTURE: TRANSPORTATION (5)	
Feature/Location	Description, Points of Vulnerability, Alternates
Major Transportation Routes (Highways) <ul style="list-style-type: none"> • Highway 1 (Main transportation route from north to south) • Highway 2 (Main transportation route from east to west) 	<ul style="list-style-type: none"> • Central Bridge on Highway 1 <ul style="list-style-type: none"> ○ Alternate Route: Main Street • West Tunnel on Highway 2 <ul style="list-style-type: none"> ○ Alternate Route: West Thomas Street
Mass Transit Facilities (Stations, Routes) <ul style="list-style-type: none"> • Central Train Station • Main Bus Terminal • East River Port 	
Air Support (Airports, Secondary Air Fields) <ul style="list-style-type: none"> • Sumter Airport 	<ul style="list-style-type: none"> • Closest alternative airport is in Tiptop approximately 3 hours away by car on Highway 2.
Water Support (Harbors, Marinas) <ul style="list-style-type: none"> • East River Port • South Marina 	<ul style="list-style-type: none"> • No regional alternatives are available for the Port or Marina
Other	

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DEMOGRAPHIC INFORMATION (6)	
Population: 2.3 Million Residents	
Population Shifts: <ul style="list-style-type: none"> • Daily: (Monday – Friday) Positive increase in population of approximately 500,000 • Weekly: (Saturday) Positive increase in population of approximately 1 Million • Seasonally: During spring harvest population loss of approximately 100,000 for a three to four week period. 	
POPULATION CONCENTRATIONS	
Office Buildings, Factories, Shopping Centers: Schools: <ul style="list-style-type: none"> • 17 elementary schools • 14 secondary/high schools • 2 universities Military Installations: <ul style="list-style-type: none"> • None Places of Public Assembly (e.g., sports facilities, concert halls, convention centers): <ul style="list-style-type: none"> • Sumter Football Arena • Sumter Cricket Fields • Sumter Opera House Other:	Apartment Buildings: Group Homes: <ul style="list-style-type: none"> • 26 Group Homes (<i>currently identified</i>) <ul style="list-style-type: none"> ○ 6 homes service the physically disabled ○ 3 homes service the mentally disabled ○ 3 homes service single mothers and their children ○ 2 homes service criminals that are being rehabilitated ○ 12 homes service the elderly Hospitals: <ul style="list-style-type: none"> • Central Valley Hospital • Sumter Community Hospital Places of Worship:

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DEMOGRAPHIC INFORMATION: SPECIAL POPULATIONS (7)			
Population	Location	Contact	Special Requirements
Sumter Grove Home (250-300 persons)	236 Main Street, Sumter	Dr. Leah Green (123-456-8997)	Elderly & Medically Fragile population. <i>(will require evacuation assistance – medical staff and transport assistance necessary)</i>
W&L Home for the Physically Disabled (120-150)	253 50 th Avenue	Dr. Long Li (123-998-5446)	Physically disabled and medically fragile population <i>(will require evacuation assistance – medical staff and transport assistance necessary)</i>
Summerset Community for Women 450-500 Women 730-1100 Children	761 Thompson Street	Paula Fernandez (123-754-3447)	Single women and children with limited resources. <i>(will require evacuation assistance)</i>
Lakeview Community Home 275-350	17 Hospital Avenue	Dr. Eric Matos (123-556-5253)	Mentally disabled – <i>(will require additional time to evacuate – should not be placed in general shelter population)</i>
Sumter Community Hospital 988 Beds	27 Hospital Avenue	Dr. Linda Walsh (123-154-8552)	Critical Patients with severe physical limitations <i>(may need to shelter in place or transport patients to Tiptop via airlift)</i>

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ANIMAL POPULATIONS (8)		
Population	Population Size	Description/Requirements
Livestock <ul style="list-style-type: none"> Sumter Pig Farm Sumter Dairy Farm 	Approximately 500-1000 animals at each facility.	
Zoo Animals <ul style="list-style-type: none"> Sumter Community Zoo 	More than 1,700 animals, housed in .22 square kilometers.	<ul style="list-style-type: none"> For disaster with warning, arrangements will be made to shelter the animals in place. The Zoo is located outside of the flood plain but in a seismically active zone.
Other		

INFRASTRUCTURE: UTILITIES AND COMMUNICATIONS (9)		
Utility	Point Of Contact	Description
Electricity 111 Main Street	Debye Leong (123-985-6234)	<ul style="list-style-type: none"> Generator at the hospitals, police station 1-4, and the emergency operations center (EOC).
Gas 47 South Ave	David Askov (123-456-9565)	<ul style="list-style-type: none"> In case of seismic activity there is an automatic shut-off. It will take 48-72 hours to inspect all gas lines prior to turning the gas back on.
Water 171 Thompson Street	Andrea Chatman (123-589-2227)	<ul style="list-style-type: none"> In case of seismic activity there is an automatic shut-off. It will take 48-72 hours to inspect all water lines prior to turning the water back on.
Sewer 12 Airport Road	Keone Kali (123-548-8888)	<ul style="list-style-type: none"> In case of seismic activity there is an automatic shut-off. It will take 48-72 hours to inspect all sewer lines prior to turning the service back on.
Telephone 71 50 th Avenue	Scott Okada (123-878-6664)	<ul style="list-style-type: none"> Currently there is no back-up for landlines.

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PROPERTY: ESSENTIAL FACILITIES (10)		
Name/Description	Location	Contact Phone
Police Stations <ul style="list-style-type: none"> • Station 1 • Station 2 • Station 3 • Station 4 	<ul style="list-style-type: none"> • 20 Main Street • 12 South Avenue • 211 Thompson Street • 3 Airport Road 	<ul style="list-style-type: none"> • Captain Ton (123-456-1115) • Captain Bean (123-754-1424) • Captain Gomez (123-255-6139) • Captain Ha (123-446-9852)
Fire Stations <ul style="list-style-type: none"> • Station A • Station B • Station C • Station D 	<ul style="list-style-type: none"> • 27 Main Street • 19 South Avenue • 218 Thompson Street • 10 Airport Road 	<ul style="list-style-type: none"> • Captain Mielbrecht (123-456-2778) • Captain Goosby (123-754-1441) • Captain Chiesa (123-255-9139) • Captain James (123-446-5252)
Shelters <ul style="list-style-type: none"> • Red Cross Shelter 1 • Red Cross Shelter 2 • Social Service Shelter 	<ul style="list-style-type: none"> • 57 West Road (Sumter High School) • 42 50th Avenue • 334 N. Thompson St. (Sumter Community Center) 	<ul style="list-style-type: none"> • Rose Low (123-886-6232) • Rose Low (123-886-6232) • Brenda Valu (123-255-9797)
Medical Facilities <ul style="list-style-type: none"> • Central Valley Hospital • Sumter Community Hospital 	<ul style="list-style-type: none"> • 77 Valley Road • 27 Hospital Avenue 	<ul style="list-style-type: none"> • Dr. Mike Roth (123-245-9181) • Dr. Linda Walsh (123-154-8552)
Public Works Facilities <ul style="list-style-type: none"> • Sumter Central Facilities 	<ul style="list-style-type: none"> • 2774 Main Street 	<ul style="list-style-type: none"> • Todd Bosse (123-456-1235)
Other		

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