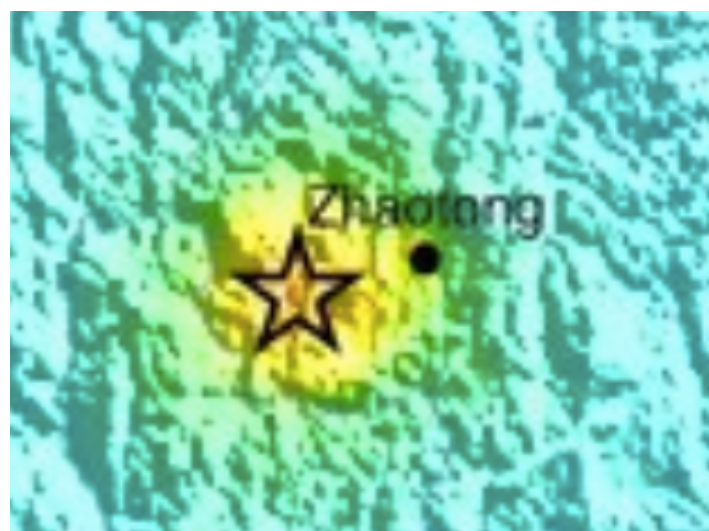


Rapid Earthquake Assessment

Event: 6.5 Earthquake near Wenping Town in Ludian Co. Yunnan China Date: August 3, 2014, 4:30 PM

1. Surveying agency information: Earthquake Resource Center Chengdu, Sichuan, China In cooperation with the International Disaster Relief Network (IDRN)	
Name of the surveyor: Frank Dunne and "Rita" Ran Dan	Date of assessment: August 9-10, 2014 (+6)
Contact Info: rengroup@me.com or WeChat : SpecialFX	Report Date : Tuesday, August 12, 2014

2. Geographic information (extra information on separate page)		
Province	District	Villages
Yunnan (Far norther boarder with Sichuan)	LuDian County, NW of Wenping Township, 27.245°N 103.427°E depth=10.0km (6.2mi)	LongTou Mt. town, (Dragon Head Mountain) 10 small townships hosting 80 villages clusters badly affected (including 2 Muslims villages (Hui)
Weather	Terrain	Fatalities / Injured (Aug. 9)
Heavy Rains forecasted for the next several days. Mudslide risk very high	Mountainous, some paved roads, cobble stone roads, and pack dirt roads to remote communities.	617 Fatalities 112 Missing 3143+ injured 3 Army Rescue workers have died.



3. Population data

Affected population (count)					
Families	Township (urban)	Villagers/Rural	Children under 12	Total population	
240,000	7%	83%		1.08 Million	
Are IDPs* present? <input type="checkbox"/> Yes <input type="checkbox"/> No (IDPs = individuals outside their village of residence)					
Displaced Children's IDP	Province	Town	Number	Cause	
	Yunnan	Wenping (LuDian County)	150 (Aug. 11)	Orphaned Missing Adult Care not available.	
CONSTRAINTS TO RETURN: <input type="checkbox"/> Transport <input type="checkbox"/> house damaged <input type="checkbox"/> house occupied <input type="checkbox"/> village empty <input type="checkbox"/> insecurity <input type="checkbox"/> fear of other ethnic groups <input type="checkbox"/> access to food and basic					
These children will be returned to their villages as soon as local care is ready. Camp being run by ZiGong NGO Volunteer Union. Urgent request for emotional care camp ASAP					
1. Vulnerable groups					
Count of persons	Unaccompanied elders	Unaccompanied minors	Severe disability	Chronically ill	Female headed households

4. Main needs of the affected population - Please prioritize needs for each cluster.

Shelter	Nutrition	Health	WATSAN
<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low	<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low	<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low	<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low
Protection	Education	Non food items*	
<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low	<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low	<input type="checkbox"/> High <input type="checkbox"/> Med <input type="checkbox"/> Low	

* Non-food items include: stoves, clothing.



The building above was a 3 story building the 2nd floor pancaked crushing the neighbors new 3000 rabbit farm. IDRN workers deliver relief supplies to the families.

5. Access

Accessible by road? No By: Car **70%** 4WD **90%** 5 MT Truck **60%** 25 MT Truck

Travel time from HQ to affected region:

- Accessibility: Immediate Date roads close due to weather/season: _____ Year-round
- Road currently closed due to _____
 - Expected date road will be open for passage _____
 - Type of vehicle needed for passage once road is open Car **4WD**
 - Can aid be delivered? **Yes** No
 - What size vehicle will be able to use this road Car 4WD SUV 5 MT Truck 25+ MT Truck
 - Are there any security concerns on this road? **Yes** No

Army is continually opening new roads, and clearing landslides, but with the rain expect delays due to new mudslides and bridge repairs. Check with disaster command center for updates on accessibility to area especially during the 2nd week of August with heavy rain forecasts.

6. Electricity/Communications

Army has restored electricity to most tent camps, rural areas are still without electricity. 70% of the population has access to mobile celular towers. WiFi has been set up at the Long Quan secondary school command center in LongTou Mt. Township. Some power outages should be expected.

How many hours per day? 0-6 hr 6-12 hr 12-18 hr 18-24 hr

7. Shelter, accommodation

Housing damage (percentage of total village)

Damage resulted from current disaster	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
No damage	<input type="checkbox"/> 0%	<input type="checkbox"/> 25%	<input type="checkbox"/> 50%	<input type="checkbox"/> 75%	<input type="checkbox"/> 100%
Moderately damaged	<input type="checkbox"/> 0%	<input type="checkbox"/> 25%	<input type="checkbox"/> 50%	<input type="checkbox"/> 75%	<input type="checkbox"/> 100%
Severely damaged	<input type="checkbox"/> 0%	<input type="checkbox"/> 25%	<input type="checkbox"/> 50%	<input type="checkbox"/> 75%	<input type="checkbox"/> 100%
Completely destroyed	<input type="checkbox"/> 0%	<input type="checkbox"/> 25%	<input type="checkbox"/> 50%	<input type="checkbox"/> 75%	<input type="checkbox"/> 100%

Total number of families Estimates based on visual observation

In the open	In tents	Camps/Communal buildings	With host families
<10%	85%		

8. Food	
Degree of household food stocks destroyed: <input type="checkbox"/> 0% <input type="checkbox"/> 25% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> 100%	
Expected duration of household food stocks	
<input type="checkbox"/> 0	<input type="checkbox"/> 1 week <input type="checkbox"/> 1 month
Sources of food available in village	
<input checked="" type="checkbox"/> Humanitarian distribution 70%	<input checked="" type="checkbox"/> Household garden/farm 80%
<input type="checkbox"/> Household stocks	<input type="checkbox"/> Shops or market 10%

9. Water supply	
Availability to population: <input type="checkbox"/> 0% <input type="checkbox"/> 25% <input type="checkbox"/> 50% <input checked="" type="checkbox"/> 75% <input type="checkbox"/> 100%	
Primary village water source:	Condition:
<input type="checkbox"/> Well open <input type="checkbox"/> Well closed pump <input checked="" type="checkbox"/> Stream/river - most non potable now <input type="checkbox"/> Storage container <input checked="" type="checkbox"/> Piped water system - most broken now <input checked="" type="checkbox"/> Humanitarian Supplies - Army, ltd. NGO <input type="checkbox"/> Other	<input type="checkbox"/> Working <input type="checkbox"/> Damaged <input type="checkbox"/> Contaminated <input type="checkbox"/> Destroyed <input checked="" type="checkbox"/> Army is supplying water to the townships, however rural communities are still without water supply, bottled water being supplied

10. Sanitary facilities	
Pop. with access to functioning sanitary facilities: <input type="checkbox"/> 0% <input type="checkbox"/> 25% <input type="checkbox"/> 50% <input type="checkbox"/> 75% <input type="checkbox"/> 100%	
Functioning sanitary facilities:	Access to facilities:
<input type="checkbox"/> Inside toilets <input checked="" type="checkbox"/> Latrines about half are still functioning <input type="checkbox"/> None	<input type="checkbox"/> Adequate <input checked="" type="checkbox"/> Inadequate

11. Health	
Main health concerns:	Availability of medicines/medical supplies:
<input checked="" type="checkbox"/> Diarrhea <input type="checkbox"/> Vomiting <input checked="" type="checkbox"/> Trauma <input checked="" type="checkbox"/> Hepatitis A <input checked="" type="checkbox"/> Respiratory <input checked="" type="checkbox"/> TB	<input checked="" type="checkbox"/> Adequate in main town <input type="checkbox"/> Basic <input type="checkbox"/> Inadequate - for rural communities <input type="checkbox"/> 249 community health workers and disease prevention personal sent to the area <input type="checkbox"/>
Functioning health facilities:	
<input type="checkbox"/> Primary Health Care without Doctor <input type="checkbox"/> Primary Health Care with Doctor	<input checked="" type="checkbox"/> Hospital - (Tent) <input type="checkbox"/> Clinic <input type="checkbox"/> None

12. Education

School buildings:

Number of primary schools/students? **6000 (K-6)**

Number of secondary schools/students? **2000 (7-12 grades)**

Fully usable/alternative available 0

Repairable/partly useable 1

Destroyed **14**

Details and additional information:

One secondary school is functional but damaged, and houses the command center and volunteer center. 2300 secondary students hope to start school by September. Primary schools will come on line as temporary buildings are erected. The first one has already started. Vice director of education Mr. WenYong has requested emotional recovery camps for primary students.

13 Agriculture

% remaining of harvest 25% 50% 75% 100%

% remaining farming land 25% 50% 75% 100%

% remaining animals 25% 50% 75% 100%

% remaining equipment 25% 50% 75% 100%

How long till next harvest?

Expected quality of harvest?

Other: **Primary cash crops are: Potato, Prickly Ash (hua jiao 花椒) also know as numbing spice, corn, and peaches, cherries, walnuts and asian pears. Subsistence farming, cows, chickens, pigs, and vegetables.**

Peaches and Cherries have been harvested, Huajiao will be harvestable this month, asian pears may rot on the trees as roads are full of relief vehicles and people are too busy dealing with the trauma of the event.

14. Food Supply

In Region:

- Adequate for short term due to local gardens and government provisions
- What essential items available? (Vegetables, potatoes and feed corn,) Most stores are closed due to inventory shortages or damage. Basic nutrition provided by government, mostly instant (Roman) noodles.

- How close are the nearest markets to the crisis region where essential food items can be purchased? 1-2 hours drive, but most local folks don't have vehicals, and about 80% of the motorcycles are being used to transport supplies from the town centers to the mountian villages.
- What are the cost compared to other regions where food supplies may be purchased? Currently the government is suppling the locals with complementary meals, rice, cooking oils.
- What are the primary source for essential food items?
 - Markets:
 - Home gardens
 - other _____

15. Current Aid Activities

Distributions:

- **Food** - coordinated by local officials and the Army. We don't know about the remote places but these are resilient farmers.
- **Water:** The army is providing water for 377,000 people, bottled water is abundant for urban dwellers and volunteers.
- **NFI** - Bedding is a challenge as most homes are too dangerous to recover items.
- **Shelter** - Tents are being set up by volunteers and army but flat space is very limited
- Other: Temporary (steel and foam) buildings have just started to be erected for schools.

16. Current Needs

Sectors: explain situation and need as much as possible

- sanitation: Garbage is piling up but some garbage trucks are operating.
 - water: Water treatment systems for remote clusters would be helpful.
 - education: All but one school are non-functional, Goal is to have temporary buildings ready to go by early Sept. start. **Requesting children's emotional care camps in late August.**
 - **healthcare**
 - electricity - Occasional power interruptions occur
 - other: **Cooking facilities for wood burning fires are needed for cluster families remotely.**
- Details Many families in the remote hills have to make do with makeshift taro "lean-to" shelters to keep their supplies dry during the rain. More tarps and rope

17. Current Leading institutions/individuals (note if potential man/woman of peace and/or champion and who is the primary point of contact)

Name	Contact Info
<ul style="list-style-type: none"> □ Political: _____ □ Religious (Priest, Imam, Pastor, Monk...): _____ □ Military: Chengdu Military District □ Healthcare: Local Disease Control Centers □ Education: Yunnan Zhaotong Education Department □ social services _____ □ who will assist in distributions: Everyone local and volunteers are assisting in food and water □ who will assist in medical clinic: No request for medical assistance yet. □ who will assist in shelter/reconstruction: Army is in charge, many volunteer organizations help □ other: _____ 	

18. Other organizations working in area

Village Name Organizational Name: Size of organization: Activity(ies) (WATSAN, Food, Medical...):

19. SUMMARY

The Ludian 6.5 earthquake occurred at 4:30 PM local time, on 3 August 2014, I felt it in Chengdu 350 miles away. American geological surveys indicated that the epicenter was 29 km (18 mi) WSW of [Zhaotong](#) city at a depth of 10.0 km (6.2 mi),^[25] in Ludian County.^[38] Causing over CYN460M (US\$75 Million) in damage.

[IRDN sent an assessment team to the zone the first day the road opened \(Aug. 8th day +5\).](#)

1.08 Million people living in roughly 240,000 house-holds, estimated 50% or more are totally destroyed. Over 3000 injured with 112 people missing and 617 deaths. The disaster command center is located in the largest township of Longtou Mt. (Dragon-Head Mt.)

The army and local disaster response has been excellent, and the volunteer effort is running smoothly. Heavy rains started and are forecasted for the remainder of the week, causing

19. SUMMARY (CONT)

mudslides, road hazards and adding grief for those homes with no roofs.90% of the people in the most affected areas are living in tents or make-shift lean-to tarp tents, and trying to keep what they could salvage from homes dry.The governments highest request from our NGO is to provide emotional child-care camps for the primary school aged children to prepare them for a scheduled early September start date in temporary buildings now being erected.

We can be involved in providing cluster home wood-burning kitchen kits, water treatment systems, bedding and tarp supplies to the remote affected communities. We can also partner with the local NGO's conducting the children's camps by providing supplies, and support for training, transportation and volunteer care. Each camp cost \$1200 and ministers up to 200 children through 25 camp counselors and 2 Chinese licensed counselors.

Tremendous opportunities should be available to partner with Chinese NGO's to form cluster village Economic Recovery Development projects such as the rabbit farm reconstruction opportunity. We will continue to seek partners interested in these opportunities.

Note: There are 13 minority people groups in this area including Hui (Muslim), Hani, Yi, Miao and others.