**Sichuan earthquake 2008**

**What were the effects of the earthquake?**

* 87,150 people killed and missing
* 4,800,000 people left homeless
* $137.5 billion spent on rebuilding in the affected areas
* Destroyed 5.4 million homes and damaged another 21.4 million
* At several locations surface rupture was 3-4meters vertically. At other points it was reported as high as 5.6meters.
* In the town of Yingxiu, which was at the epicentre, only about 2,300 people out of the town’s more than 10,000 survived the earthquake.
* Phones lines and power supplies were knocked out in many areas in Sichuan province. Power was restored in most places Beichuan Country remained blacked out and Hongyuan had power outages due to aftershocks.
* Numerous earthquake induced landsides occurred.
* 28,820 km of roads were damaged. A large amount of roads had been repaired and opened up mid-May.
* Flood risk increased. 69 dams in the area were damaged and in danger of bursting. Reservoirs had to be drained to reduce the risk.
* Large landslides along river valleys formed ‘quake lakes’. Tangjiashan quake-lake was reported as the largest.
* Soil and rock loosed by the ground shaking was prone to forming mud flows especially in heavy rainfall.
* Flooding risk increased because the earthquake caused landslides that had blocked the rivers.
* In Chengdu Metropolitan area water facilities were damaged but water service in small rural towns and villages was severely damaged.
* Electric power generation plants, hydro and coal fires sustained damage and remained out of service for 60 days after the earthquake.
* Telecommunications were interrupted by damage to equipment, distribution and power outages.
* Approximately 30,000 miles of roads and railways, 3,000 bridges and 100 tunnels were damaged.
* Major highways and expressways were closed.
* Lateral spreading also occurred. One fissure in Dujiangyan City was 50 meters long.
* Over 85,000 acres of agricultural crops were devastated, 20,000 agricultural machines and more than 12.5million livestock.
* Numerous rock falls in mountainous terrain occurred. In some cases the rocks and boulders were up to several meters in size.
* The loss of human life and the large number of people with injuries has reduced the agricultural labour force in some areas.
* In 2007 Sichuan provinces GDP from tourism was RMB1050.53 billion. The earthquake caused damage to the tourism industry with a loss of RMB 31.55 billion.



Collapsed four story Xuankou Middle School in Tinxiu.



Surface fault rupture wit h2 m vertical displacement at Gaoyuan Village



Surface fault rupture with 5 m vertical displacement



Surface fault rupture contributed to failure of Gaoyuan Bridge.



Landslides along the Min River between Dujiangyan and Hongkou