

*Price \$1. Earthquake Investigation in the United States, Special Publication Price \$ The following- processed reports are available from the Director, United States Coast and Geodetic Survey, Wash- ington 25, D. C. Seismological Bulletin.*

The earthquake was felt across 7 states No injuries have been reported CNN The Oklahoma Corporation Commission is telling operators to shut down 35 disposal wells that may have played a role in a 5. The disposal wells, which are linked to fracking and other industries that need to dispose of toxic waste water by injecting it deep into the earth, have recently drawn concern that they may actually induce earthquakes. The commission, which regulates fuel, oil, gas, public utilities and transportation industries, is investigating to determine the epicenter of the quake that hit Pawnee, said commission spokesman Matt Skinner. The Environmental Protection Agency is also investigating, Fallin said. Read More Skinner says earthquakes in Oklahoma are generally not directly caused by fracking, but rather by pressure from the disposal wells, which are used by the industry to get rid of the toxic waste water that comes out of the earth along with oil and gas. The basement is above where the critical faults lie that shift and make earthquakes. Controversial disposal method Oil and gas drillers and other industries use the disposal wells to inject toxic waste water deep into the earth, which raises questions about possible pollution of the water supply. The wells are used to dispose of fracking waste. Fluid injection is a controversial tactic tied to hydraulic fracturing, the drilling technique known as "fracking" that has dramatically increased U. When oil and gas is pumped out of the ground, salty water often flows out with it. This water, which can also contain heavy metals and other pollutants , is typically injected under high pressure back into disposal wells -- a practice that the geological agency has said can induce earthquakes. Rural Pawnee County and the city of Pawnee had at least six buildings damaged, with one homeowner suffering minor injuries, Fallin said. The earthquake damaged at least one historic building in Pawnee, city officials told CNN. It could be cosmetic damage. Fallin issued a declaration of emergency for Pawnee County to start the process of "helping individuals, families and businesses impacted by the earthquakes" and help them request any necessary assistance. With earthquakes in the central and eastern United States, "the ground is softer, so the seismic waves have a much farther travel distance then an earthquake in California or Nevada," said another USGS geophysicist, Robert Sanders. Oklahoma Corporation Commission staff is at the office reviewing disposal wells in the vicinity of the earthquake near Pawnee. The largest was at 7: ET , with the preliminary 5. The other quake magnitudes ranged from 2. Despite minimal damage, the quake set off anxious speculation on social media. Felt the earth move in Rogers, Arkansas. Had to Google to find out what was going on.

Chapter 2 : List of earthquakes in - Wikipedia

*Earthquake investigation in the United States [Ernest Lester Jones] on [www.nxgvision.com](http://www.nxgvision.com) \*FREE\* shipping on qualifying offers. This book was digitized and reprinted from the collections of the University of California Libraries.*

On September 19 a powerful 7. A little more than a week previously, Mexico was hit by a magnitude 8. A series of earthquakes in Japan on April 14 to April 16 was the most costly earthquake event in , according to Munich Re. Those quakes, of 6. Also on April 16, a magnitude 7. At least people died, and more than 2, others were injured. In New Zealand, a 7. The February 5 6. Damage was most significant in the city of Tainan, where several multi-story buildings collapsed. About people died in the quake. A series of earthquakes in Italy as high as 6. On April 16, a magnitude 7. The quake caused fatalities, more than 2, injuries and widespread damage in two provinces. On April 14, , a magnitude 7. Twenty-eight hours later a magnitude 7. Japanese officials have confirmed 41 deaths. On February 6, , a strong magnitude 6. On August 24, , a 6. It was followed by a series of aftershocks in October one of which registered magnitude 6. According to Swiss Re, only a fraction of these losses were covered. On March 11, a devastating tsunami hit the coast of northeast Japan, triggered by a powerful earthquake approximately 80 miles offshore. The Japan and New Zealand quakes are among the 10 costliest world earthquakes and tsunamis, based on insured damages, according to Munich Re see table.

## Chapter 3 : Facts + Statistics: Earthquakes and tsunamis | III

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The Coast and Geodetic Survey, a forerunner of the National Ocean Survey, had coordinated the collection of seismological data in the United States for many years. Geological Survey in Geological Survey, is located in Golden, Colorado, 10 miles west of Denver. The NEIC has three main missions. First, the NEIC determines, as rapidly and as accurately as possible, the location and size of all significant earthquakes that occur worldwide. The NEIC disseminates this information immediately to concerned national and international agencies, scientists, critical facilities, and the general public. Second, the NEIC collects and provides to scientists and to the public an extensive seismic database that serves as a solid foundation for scientific research, principally through the operation of modern digital national and global seismograph networks and through cooperative international agreements. The NEIC is the national data center and archive for earthquake information. Third, the NEIC pursues an active research program to improve its ability to locate earthquakes and to understand the earthquake mechanism. These efforts are all aimed at mitigating the risks of earthquakes to mankind; and they are made possible by the fine international cooperation that has long characterized the science of seismology. The NEIC operates a hour-a-day service to determine the location and magnitude of significant earthquakes in the United States and around the world as rapidly and accurately as possible. This information is communicated to federal and state government agencies who are responsible for emergency response, to government public information channels, to national and international news media, to scientific groups including groups planning aftershock studies , and to private citizens who request information. When a damaging earthquake occurs in a foreign country, the earthquake information is passed to the staffs of the American embassies and consulates in the affected countries and to the United Nations Department of Humanitarian Affairs DHA. The NEIC issues rapid reports for those earthquakes with magnitudes at least 3. At the present time, the NEIC staff locates and publishes approximately 30, earthquakes on a yearly basis. These are the most important of the many million earthquakes which are estimated to occur each year. Known by many people in the news media as Mr. The NEIC collects data through the operation of national and global networks, and through cooperative agreements. To enable the detection and location of all felt earthquakes with the U. The NEIC also relies on the cooperation of a variety of seismic reporting networks throughout the world to gather data. The NEIC also collects non-instrumental reports of the effects of earthquakes on people and man-made structures and prepares isoseismal maps showing the distribution of intensities in widely felt or damaging shocks. The data that are collected by the NEIC are published in a variety of formats and publications and are available electronically via the Internet. The "Earthquake Data Report" EDR , also a monthly publication, provides additional and more detailed information, mainly for the use of seismologists. A wide range of research is also conducted at the NEIC. These research efforts are intended to improve the data service provided by the NEIC to the scientific community and the general public; and, ultimately, to aid in earthquake hazard mitigation.

## Chapter 4 : National Earthquake Information Center (NEIC)

*United States has had: (M or greater) 52 earthquakes in the past 24 hours earthquakes in the past 7 days; 1, earthquakes in the past 30 days.*

## Chapter 5 : Full text of "Earthquake investigation in the United States"

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## Chapter 8 : List of earthquakes in the United States - Wikipedia

*The National Earthquake Information Center (NEIC), was established in Rockville, Maryland, in as part of the National Ocean Survey of the Department of Commerce. The Coast and Geodetic Survey, a forerunner of the National Ocean Survey, had coordinated the collection of seismological data in the United States for many years.*

## Chapter 9 : Oklahoma earthquake rattles six surrounding states - CNN

*The following is a list of notable earthquakes and/or tsunamis which had their epicenter in areas that are now part of the United States with the latter affecting areas of the United States.*