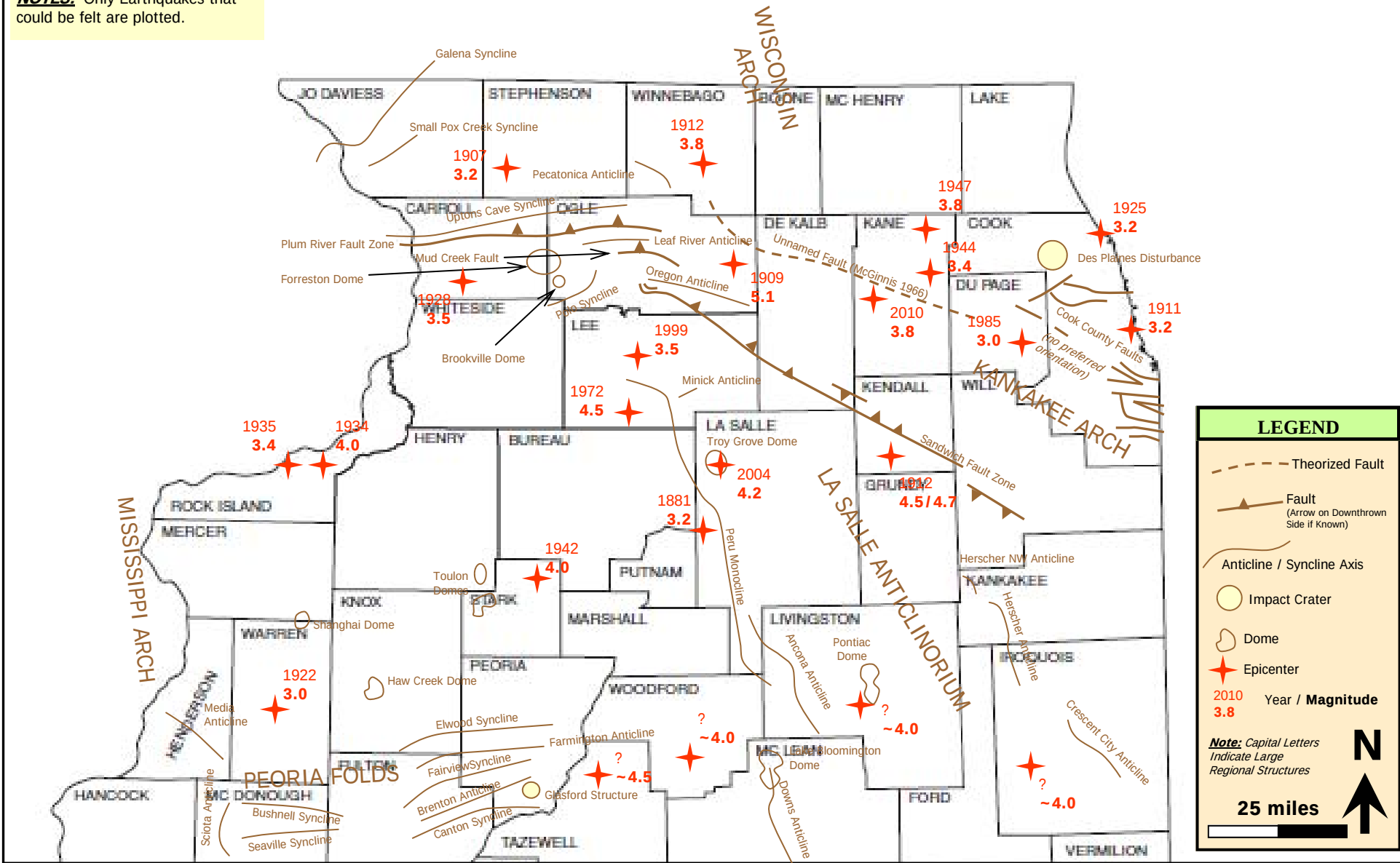


Historical Earthquakes in Northern Illinois

NOTES: Only Earthquakes that could be felt are plotted.



STRUCTURE (a.k.a.)	ACTIVE	AGE	TYPE	RELIEF (feet)	USED AS GAS STORAGE	NOTES
Anaconda Anticline (Anaconda & Garfield Domes)	No	Mississippian-Pennsylvanian	SO2	150-290	Yes	Possibly Faulted, part of La Salle Anticlinorium
Aurora Syncline (Aurora-Paw Paw Syncline)	No	Ordovician-Devonian?	SO3	100-150	No	
Brookville Dome	Unknown	Post Silurian	SO1	138 on Galena	No-Planned but abandoned because cap rock is permeable	
Cook County Faults	Yes	Post Silurian	SO2	10-55	No	Possibly related to Des Plaines Disturbance and isostatic rebound
Crescent City Anticline	No	Cambrian	SO2	120 (minimum)	Explored	
Des Plaines Disturbance	No	Post Pennsylvanian-Pre Quaternary	SO1	>800	No	Impact crater, possibly related to some of the Cook County Faults
Downs Anticline	No	Devonian-Pennsylvanian	SO2	325-700	Yes-Basal Structure	Part of the La Salle Anticlinorium
Forreston Dome	Unknown	Post Silurian	SO1	175 on Galena, > 200 on Franconia	No	Minor faults present
Haw Creek Dome	?	?	SO2	30-40	No	
Herscher Anticline (Richtey-Herscher Anticline)	Unknown	Post Silurian	SO1	200 (shallow), 90 (deep)	Yes	Part of the La Salle Anticlinorium?
Herscher NW Anticline	Unknown	Post Silurian	SO2	58	Yes	Part of the La Salle Anticlinorium?
Galena Syncline	No	Possibly Silurian	SO2	50	No	
Glasford Structure	No	Late Ordovician	SO2	100-125	No	Impact Crater on top of Galena
Kankakee Arch	No	Ordovician-Silurian or Devonian	SO1	>1000	No	Approximately 65 miles long, connects to Wisconsin and Cincinnati Arches
Lake Bloomington Dome	Unknown	Post Pennsylvanian	SO2	60 (shallow), 100 (deep)	Yes	Part of the La Salle Anticlinorium
Leaf River Anticline	No	Post Silurian	SO2	80 ~100	No	Minor faulting on crest
Media Anticline	No	Late Devonian-Mississippian	SO2	80-100	No	Controlled by a single fault with 150 feet of displacement at depth
Minick Anticline	No	Cambrian to Ordovician	SO3	?	No	
Mississippi Arch	Yes	Post Mississippian	SO0	>500	No	
Mud Creek Fault	No	Silurian-Pennsylvanian?	SO2	>100	No	Possibly connected to Plum River Fault
Oregon Anticline	No	Post Silurian-Pre Quaternary	SO2	200-300	No	Related to Sandwich Fault Zone
Pectonica Anticline	Unknown	Pre Quaternary	SO2	30	Yes-Cambrian Eau Claire Formation	
Peoria Folds	No	Various	SO1	<100	No	
Peru Monocine	Unknown	Ordovician-Post Devonian	SO2	1300	No	Moderate Faulting, part of La Salle Anticlinorium
Plum River Fault Zone	Unknown	Silurian-Devonian and Post Pennsylvanian-Pre Quaternary	SO1	100-400	No	Fault is 112 miles long and extends into Iowa, Normal and Thrust Faults
Polo Syncline (Polo Basin)	No	Ordovician-Silurian?	SO1	Unknown	No	
Pontiac Dome	No	Post Pennsylvanian	SO2	70-90	Yes	Part of the La Salle Anticlinorium
Sandwich Fault Zone	No?	Post Silurian-Pre Quaternary	SO1	800 (maximum)	No	Fault is 85 miles long Normal and Thrust Faults
Shanghai Dome	No	Late Cambrian-Early Ordovician	SO2	90 (Ironton)	Yes-in the Ironton-Galesville	
Small Pox Syncline	No	Post Silurian-Pre Quaternary	SO2	10-30	No	
Toulon Domes	No	?	SO2	100-85-55 (Galena)	No-used as compressed air storage	Drapes over Precambrian hills
Troy Grove Dome	Yes	Ordovician-Devonian?	SO2	100-1500 (deeper with depth)	Yes	Contains 4 main crest faults with approximately 180 feet of displacement Part of the La Salle Anticlinorium
Unnamed Fault Zone	Unknown	Precambrian to Late Cambrian	SO0	?	No	Existence uncertain
Uptons Cave Syncline (Stephenson-Ogle Count Line Syncline)	Unknown	Pre Quaternary	SO2	?	No	
Wisconsin Arch	No	Upper Cambrian to Devonian	SO1	>3000	No	Connects to Kankakee Arch

References: Earthquake Facts 1991-1 ISGS, Structural Features in Illinois B-100 1995 Nelson, Earthquakes in the Central United States-Three Centuries of Earthquakes 1699-2002 USGS, Earthquakes Hazard Program for Illinois 2010 USGS