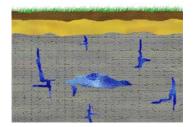
Florida's geology allows for the creation of many interesting features including sinkholes, underground rivers, springs, and caves. These features make up what is called karst topography which forms as flowing water slowly dissolves the limestone and dolostone.



This lake is actually a spring which opens into and underwater cave system. Photo–Ron DeAmorim

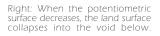
Sinkholes, a sometimes problematic karst feature, form when a water formed void in carbonate rock collapses. Collapse sinkholes occur when a large void forms in the limestone. The cavity continues to grow in size until it can no longer support the weight of the overlying sand and soil. At this time the surface collapses forming a sinkhole, usually rapidly and sometimes catastrophically. The famous Winter Park sinkhole that opened in May 1981 had a volume of almost a quarter of a million cubic vards.



Left: Water begins to dissolve



expands as water continues to dissolve the





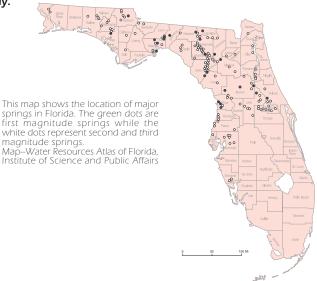


Left: This huge sinkhole opened up in Winter Park, Florida in May, 1981. Notice the four lane road for scale. The red circle in the upper left marks two people. Photo–Florida Geologic

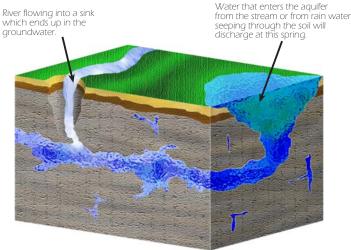




A spring occurs when groundwater discharges to the surface through natural openings in the ground. Florida is home to 27 of the country's 78 first-magnitude springs, that is, springs that discharge greater than 64.6 million gallons a day to the surface. Spring Creek Springs of Wakulla County has an average discharge of over a billion gallons of water each



In some locations, rivers flow into sinkholes or other openings in the ground and "disappear" below the Earth's surface. These underground rivers flow though pore spaces as well as through underground caves. When groundwater moves through these natural pipes, it is called conduit flow. Later the water may issue forth from springs. As you can see, natural systems are all interconnected. What you do in one place may affect water quality hundreds of miles away.



All of the water (rain, surface water, waste water, etc.) that enters the aquifer and discharges at this spring is said to originate from within this springshed.

of springsheds. A springshed is the entire area that contributes water to a given spring. For example, assume there is a lake that is connected by groundwater flow to a spring 50 miles to the south. This lake, although 50 miles away, is within the springshed. Everyone needs to be careful about what they put in the groundwater. It may not only affect the water directly below their feet, but also many miles away.

The interaction of surface and groundwater has brought about the idea

