

Subsidence Incident Reports

Shapefile



Tags

subsidence, sinkhole, karst, Florida

Summary

To map the occurrence and spatial distribution of subsidence incidents in Florida.

Description

What is a Subsidence Incident? Sinkholes are closed depressions in areas underlain by soluble rock such as limestone, dolostone, gypsum, or salt. Sinkholes form when surface sediments subside into underground voids created by the dissolving action of groundwater in the underlying bedrock. Other subterranean events can cause holes, depressions or subsidence of the land surface that may mimic sinkhole activity. These include subsurface expansive clay or organic layers which compress as water is removed, collapsed or broken sewer and drain pipes or broken septic tanks, improperly compacted soil after excavation work, and even buried trash, logs and other debris. Commonly, a reported depression is not verified by a licensed professional geologist to be a true sinkhole, and the cause of subsidence is not known. Such an event is called a subsidence incident. The Florida Geological Survey maintains and provides a downloadable database of reported subsidence incidents statewide. While this data may include some true sinkholes, the majority of the incidents have not been field-checked and the cause of subsidence is not verified.

FIELD NAME	Generalized Field Description	Field Definition
REF_NUM	FGS/FSRI Assigned Reference Number	Consists of 2-digit DEP County Code and 3-digit Sequential Entry Number (Lookup table for County Codes = CO_CODES worksheet)
ADDED_BY	Person who added the record	Initials of staff member who compiled and input subsidence incident report information
TRUE_SINK	Verified sinkhole	Is the event a true sinkhole?
DATE_ADD	Date Added	Date information added to the database
DATE_REV	Date Revised	Date information revised in the database
OMONTH	Occurrence month	Month the event occurred
ODAY	Occurrence day	Day the event occurred
OYEAR	Occurrence year	Year the event occurred
TIME	Occurrence time	Time the event occurred (if available)
LONG_DD	Longitude Degrees	Longitude Degrees
LONG_MM	Longitude Minutes	Longitude Minutes
LONG_SS	Longitude Seconds (decimal if known)	Longitude Seconds (decimal if known)
LONGDEC	Longitude Decimal Degrees	Longitude Decimal Degrees
LAT_DD	Latitude Degrees	Latitude Degrees

LAT_MM	Latitude Minutes	Latitude Minutes
LAT_SS	Latitude Seconds (decimal if known)	Latitude Seconds (decimal if known)
LATDEC	Latitude Decimal Degrees	Latitude Decimal Degrees
COUNTY	County	County of occurrence
TWNSHP	PLSS Township	PLSS Township
RANGE	PLSS Range	PLSS Range
SECTION	PLSS Section	PLSS Section
QTRSECT1	Quarter section	Smaller of the two quarter sections
QTRSECT2	Quarter section	Larger of the two quarter sections
Q_CONVERT1	Quarter section	FGS code for smaller of quarter sections (Lookup table - QTRCODE worksheet)
Q_CONVERT2	Quarter section	FGS code for larger of quarter sections (Lookup table - QTRCODE worksheet)
QQ_FGS	Quarter section	Read Quarter of Quarter (QtrConvert1 of QtrConvert2) (Lookup table - QTRCODE worksheet)
QUAD	USGS Quadrangle Name	USGS 1:24000 (7.5 minute x 7.5 minute) Quadrangle Name
RPT_SOURCE	Source of report	Entity / organization that first reported the subsidence incident feature, if applicable
RPT_PHONE	Report phone number	Phone number associated with the source of the report
RPT_NAME	Report name	Name of individual within the reporting organization who fielded the incident report
EVENT_DATE	Date of reported event	Date on which the feature was first observed and documented
ONAME	Owner's name	Owner's name at time of occurrence
OSTREET	Owner's address	Owner's address at time of occurrence
OCITY	Owner's city	Owner's city at time of occurrence
OZIP	Owner's zip code	Owner's zip code at time of occurrence
EVT_ADDR	Event address	Address where feature occurred
OPHONE	Owner's phone number	Owner's phone number at time of occurrence
SIZDIM	Dimensions	How were dimensions of subsidence feature determined (Lookup table - SIZDIM worksheet)
SINSHAPE	Shape	Shape of subsidence feature (Lookup table - SINSHAPE worksheet)
SINLNTH	Length	Length (longest side) of feature (FT)
SINWIDTH	Width	Width (shortest side) of feature (FT)
SINDEPTH	Depth	Depth (ground surface to bottom) of feature (FT)
SLOPE	Slope of Sides	Side slope angle of event (measured angle of incline)
WATSIN	Water visible	Is water visible in the feature?
WATBLS	Water below land surface (FT)	Ground surface to top of water in feature (FT)
LIMVIS	Limestone visible	Is limestone visible in feature?
CAVVIS	Cave visible	Is a cave or fracture visible in feature?
SUBRATE	Subsidence rate	What is the rate of subsidence of feature? (Lookup table - SUBRATE worksheet)
TRIGGERS	Triggering mechanisms	What were possible triggers of the feature? (Lookup table -

		TRIGCODE worksheet)
COL_CODE	Pre-collapse indicators	What were the feature's pre-collapse indicators? (Lookup table - PRECOLLAPSE worksheet)
PROPDAM	Property damage	Was there any structure damage associated with the feature?
REPAIRED	Feature repaired	Was the affected area repaired?
PLANNED	Repairs planned	Are repairs planned for the feature?
TOPO1	Topography - FLAT	Topology codes for the feature's location
TOPO2	Topography - HILLTOP	Topology codes for the feature's location
TOPO3	Topography - SLOPE	Topology codes for the feature's location
TOPO4	Topography - VALLEY	Topology codes for the feature's location
TOPO5	Topography - DEPRESSION	Topology codes for the feature's location
TOPO6	Topography - SEE COMMENTS	Topology codes for the feature's location
DRAINSTR	Drainage structures present	Are there any drainage structures within close distance to feature?
LUCODE	Land use code	Land use code for property where feature occurred (Lookup table – LAND USE worksheet)
LANDUS1	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
LANDUS2	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
LANDUS3	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
LANDUS4	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
LANDUS5	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
LANDUS6	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
LANDUS7	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
LANDUS8	Land use code	Additional site-specific land use code for feature (Lookup table – LAND USE worksheet)
SOILTYPE	Soil type	Soil type where the feature occurred
NEARSIN	Near sink	Is this reported feature near another known or suspected feature?
OLDSIN	Old sinks	Did feature occur at or near an old feature?
COMMENTS	Other comments	Comments pertaining to feature or updates
COMMENTS2	Additional comments	Additional comments pertaining to feature or updates
ACCESS	Access to sink	How can feature be accessed
WITNAM	Witness Name	Name of witness who observed feature
WITADDRE	Witness Address	Address where witness can be potentially contacted
WITCZIP	Witness Zip Code	Witness's zip code
WITPHONE	Witness Phone	Phone number of witness

Credits

There are no credits for this item.

Use limitations

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