



**RELATIVE HYDROCOMPACTION SUSCEPTIBILITY
CEDAR CITY, UTAH**

SN	Soils normally not subject to hydrocompaction problems. Terrain underlain by bedrock at shallow depth or coarse sediments containing low percentage of fine material.
Massive	Massive landslide deposits. Contain extremely variable soils, some of which may be susceptible to hydrocompaction. WARNING: Developments on this terrain may reinstate mass movement; this possibility should be examined by an engineering geologist.
Minimal	Minimally suspect soils. Some possibility of occurrence: hydrocompaction soils in this zone are likely to be thin and shallow. TESTING DESIRABLE BEFORE PURCHASING OR DEVELOPING LAND Recommendation: 1 test hole per 20 lots. 50 feet minimum depth into soil or at least 5 feet into bedrock, to acquire undisturbed soils for laboratory testing.
Moderate	Moderately suspect soils. Deleterious soils likely to be thin and shallow. TESTING HIGHLY DESIRABLE BEFORE PURCHASING OR DEVELOPING LAND. Recommendation: 1 test hole per 10 lots. 50 feet minimum depth into soil or at least 5 feet into bedrock.
Suspect	Suspect soils. Deleterious soils may be thin to moderately thick. TESTING NECESSARY BEFORE PURCHASING OR DEVELOPING LAND Recommendation: 1 test hole per 4 lots. 50 feet minimum depth into soil or at least 5 feet into bedrock.
SS	Susceptible soils. Deleterious soils likely to be moderately thick to thick. TESTING NECESSARY BEFORE PURCHASING OR DEVELOPING LAND Recommendation: 1 test hole per 2 lots. 70 feet minimum depth into soil or at least 5 feet into bedrock.
HSS	Highly susceptible soils. Testing may reveal information indicating residential or other development unfeasible. TESTING NECESSARY BEFORE PURCHASING OR DEVELOPING LAND Recommendation: 3 test hole per 4 lots. 70 feet minimum depth into soil or at least 5 feet into bedrock.
	= Location of ground cracks observed in 1977. All are associated with man-made developments.

CEDAR CITY, UTAH

Relative Hydrocompaction Susceptibility

Relative degree of susceptibility to hydrocompaction is depicted on this map (see legend). Geomorphologic analysis. With aerial photographs at a scale of 1:20,000 as the primary tool, was principally employed in the preparation of this map. Only limited field checking has been done; no drilling, sampling or testing undertaken other than that shown in RI No. 124.

This map has been constructed utilizing all information available through March 1978, and is subject to revision as additional data from future drilling becomes available.

Purpose of this map is to inform all interested government agencies, private enterprises, and individuals planning to construct new buildings or to purchase existing buildings of a potential natural hazard from unstable ground, termed "hydrocompaction". This geologic phenomenon may be aggravated by activities of man.

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Disclaimer
Cedar City Corporation assumes no liability for the accuracy of this map. Intent is for viewing purposes only.

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CEDAR CITY CORP.
10 North Main
Cedar City, Utah 84720

Map prepared for City of Cedar City by State of Utah, Geological & Mineral Survey.

Since this is a natural hazard, no liability is implied or assumed by the State of Utah, Four Corners Regional Commission, the City of Cedar City, nor the county of Iron County.