

Jessica J. Castleton, Ben A. Erickson, and Greg N. McDonald

2018



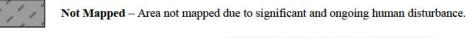




## **EXPLANATION**

slopes greater than 35 degrees within a rockfall source area within a geologic unit moderately susceptible to

slopes greater than 35 degrees within a rockfall source area within a geologic unit having lowsusceptibility to



ROCKFALL HAZARD CATEGORIES High - Slopes that are greater than or equal to 20 degrees within a geologic unit highly susceptible to rockfall, and

Moderate - Slopes between 20 and 35 degrees within a geologic unit moderately susceptible to rockfalland M<sub>RFH</sub>

Low - Slopes between 20 and 35 degrees within a geologic unit having low susceptibility to rockfall. Rockfall hazard is considered negligible in the remainder of the study area if not included in one of the above hazard

## USING THIS MAP

This map shows areas of relative rockfall hazard in the Tickville Spring quadrangle. We recommend performing site-specific geotechnical/geologic-hazard investigations within the mapped rockfall hazard areas. These investigations can resolve uncertainties inherent in generalized hazard mapping and help ensure safety by identifying the need for rockfall-resistant design or mitigation. For most areas, site-specific assessment may only require a field geologic evaluation to determine if a rockfall source is present. However, if a source is identified, additional work to adequately assess the hazard is needed. This map is based on limited geologic and slope data, and aerial photograph analysis. The quality of the map depends on the quality of these data, which varies throughout the study area. The mapped boundaries between rockfall-hazard categories are approximate and gradational. Small, localized areas of higher or lower rockfall potential are likely to exist within any given map area, but their identification is precluded due to the generalized map scale and the relatively sparse data. This map is not intended for use at scales other than 1:24,000, and is designed for use in general planning to indicate the need for site-specific geotechnical/geologic-hazard investigations. The rockfall-hazard categories do not consider hazards caused by cuts, fills, or other alterations to the natural terrain. This map is intended primarily for planning purposes and should not be used as a substitute for site-specific geotechnical/geologic-hazard investigations conducted by qualified professionals. Site-specific geotechnical/geologic-hazard investigations are required to produce more detailed rockfall-hazard information.

For additional information about the rockfall hazard in the Tickville Spring quadrangle, refer to the accompanying report.,