

## DEBRIS-FLOW DATA SHEET (1 of 5)

### LOCATION AND BACKGROUND INFORMATION

Form completed by Richard Giraud Date 08-08-05 UGS File

Name of event: Indian Canyon/SR191 Debris Flow August 5, 2005

These data sheets describe a thunderstorm debris flow event that closed SR191. A limited amount of information was obtained from Ervan Rhoades with UDOT (435-738-5732) the photos were taken by Jason Davis with UDOT.

Date of Event: August 5, 2005, Friday

Debris Flow Location: SR191 mile post 276, between Helper and Duchesne

County: Utah

Geographic Area: Book Cliffs

USGS Quadrangle (BLM No.): ?

Section, Township, Range: ?

Name of Drainage: ?

Triggering Event: Brief, intense thunderstorm rainfall. The flow closed the road at 2:30 PM

Other Background Information: UDOT closed the highway until 1:30- AM on Saturday the following day. The vehicles near the flow waited until the road was cleared. UDOT had the road cleared in about 5 hours.

Other location information for highway milepost:

Carbon/Duchesne Co line at MP 260

2005 Landslide at MP 261

top of summit at MP 267

August 2005 rock/earth flow at MP 276

US-40 & SR-191 in Duchesne at MP 352.9

**DEBRIS-FLOW DATA SHEET (2 of 5)**

**DRAINAGE BASIN CONDITIONS AND HILLSLOPE RESPONSE**

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Area: ?

Aspect: ?

Slope Steepness:

Elevation(s) of Debris-Flow Source(s): ?

Vegetation: Chaparral

Extent of Upland Erosion: ?

Existing Landslide Masses: ?

Bedrock Geology: ?

Surficial Geology: ?

Soils: NRCS: ?

## DEBRIS-FLOW DATA SHEET (3 of 5)

### CHANNEL CONDITIONS AND RESPONSE

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Observed Channel Reach:

Stream Flow: Ephemeral

Channel Relief: ?

Length: ?

Basin Relief Ratio (measured as the maximum relief from basin mouth divided by the length of the longest stream channel extended to the drainage divide: ?

Gradient: ?

Morphology and Flow Types: ?

Flow Depth: ?

Sediment Availability: ?

Incision Depths: ?

Channel Bulking Rate: ?

Erosion Volumes: ?

**DEBRIS-FLOW DATA SHEET (4 of 5)**

**ALLUVIAL-FAN CONDITIONS**

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Area:

Gradient:

Surface Morphology:

Vegetation: Sagebrush brush and grass.

Development: Highway was closed.

Nature of Deposits: Muddy clay rich deposit likely Green River formation

## DEBRIS-FLOW DATA SHEET (5 of 5)

### DEBRIS-FLOW DEPOSIT

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Area: Rough estimate based on UDOT observation 100 x 40 x 6 feet thick.

Thickness: 4-5 feet on the highway

Volume: UDOT reported about 1000 cubic yards were deposited on the road

Material Contribution: Sediment bulking from thunderstorm rainfall runoff.

Nature of Deposit: Relatively fine grained deposit base on photos.

Deposit Relief: Less than 0.5 foot quite smooth based on photos.