

Slopes_CN



Tags

slope, relief, percent slope

Summary:

This layer was generated to show County-wide relief representation, expressed as 'percent slope' and aggregated in four classifications, based on their percentages and their increase in slope severity. Aggregation into the classifications was performed to assist in increased readability and simplification of map symbolization tasks.

Feature Type: Polygon

Number of Records: 367820

Publication Date: 2005-01-01

Date of Data (Temporal Period Extent): 2005-01-01

Extent: San Diego County

Extent in Longitude Latitude

North 33.511553
West -117.597986 **East** -116.080156
South 32.530161

Extent in the item's coordinate system

North 2129759.999958
West 6150763.740027 **East** 6613437.000025
South 1775304.099981

Description:

Aggregated slopes for San Diego County. This dataset was built from a 10 meter GRID that was derived from a 2002 IfSAR elevation surface of the entire County. The IfSAR data was processed as first returns using X band data and that means that houses, trees, and other surface features show-up in the elevation model. Once the elevation model was reclassified and resized from its original resolution to a larger 10 meter resolution, the slope function was applied to it through GRID. This continuous surface built in GRID is the Raster GRID model called

[sde.SANGIS.slope_stp_83]. This dataset was later reclassified and then vectorized into all slopes greater than 25%. That dataset exists as a vector dataset in SDE called [sde.SANGIS.SLOPE_STEEP25]. The GRID classifications in the source slope range from 0% slope to 2484.47753% slope. This translates essentially into flat to 87.70 degrees in angle. The reason 90 degree slopes are not recorded is most likely related to the 10 meter grid cell in horizontal distance. This translates into nowhere in the county is there a vertical elevation change greater than 787 feet ($H = h + D * \tan(\Theta)$) in a horizontal distance of less than 30 feet. This product received additional processing yielding four classifications of slopes: slopes less than 15% slope, slopes 15% to less than 25%, slopes 25% to less than 50% and slopes 50% or greater.

Credits:

Ross Martin with County of San Diego, Planning and Development Services, LUEG GIS Service.

Use Limitation:

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Refer to SanGIS website (www.sangis.org) to obtain further information on mapping and data extraction services available from SanGIS.

Topics and Keywords

Topic Categories: Geoscientific Planning Cadastral

Themes:

slope, relief, percent slope

Places:

County of San Diego, California

Resource Details:

Status: Completed
Type: Vector
Update Frequency: Not Planned
Next Update: Not specified

Spatial Reference System:

Type: Projected

Reference: GCS_North_American_1983
Projection: NAD_1983_StatePlane_California_VI_FIPS_0406_Feet

Identifier: 2230
Codespace: EPSG
Version: 5.3(9.0.0)

Contacts:

Point of Contact

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Distribution Ordering Instructions:

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Fields:

Overview:

County-wide relief representation, expressed as 'percent slope' and aggregated into the four classifications of: Slopes less than 15% slope, slopes 15% to less than 25%, slopes 25% to less than 50% and slopes 50% or greater.

Attribute item GRIDCODE is Code for aggregate slope categories

__FID (OID)

Internal feature number.

Shape (Geometry)

Feature geometry.

GRIDCODE (Double)

Code for aggregate slope categories

- 1, Slope less than 15% slope
- 2, Slope 15% to less than 25%
- 3, slope 25% to less than 50%
- 4, Slope 50% or greater

Shape_Area (Double)

Area of feature in internal units squared.

SHAPE_LEN (Double)

Metadata Last Update: 2023-03-13

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