



Topo Map Symbols	
Primary highway, hard surface	
Secondary highway, hard surface	
Light-duty road, hard or improved surface	
Unimproved road	
Trail	
Railroad: single track	
Railroad: multiple track	
Bridge	
Drawbridge	+ + 0 +
Tunnel	······ +): ===(
Footbridge	
Overpass—Underpass	
Power transmission line with located tower	
Landmark line (labeled as to type)	TELEPHONE

COLORS OF THE MAP

BLACK: MAN-MADE FEATURES, SUCH AS BUILDINGS AND ROADS.

RED-BROWN: RELIEF FEATURES AND ELEVATION (CONTOUR LINES ON RED-LIGHT READABLE MAPS).

BROWN: RELIEF FEATURES & ELEVATION (CONTOUR LINES ON OLDER MAPS). GREEN: VEGETATION (WOODS, ORCHARDS, VEGITATION).

BLUE: DRAINAGE (WATER).

RED: POPULATED AREAS, MAIN ROADS AND BOUNDARIES ON OLDER MAPS.















- Also called quadrangles
- Nearly 54,000 for the U.S.
- Done by the US Geological Survey (USGS) since 1897
- Map out the entire country in a standard fashion



Topographic maps

- Show 2D features, point, line and area; also show 3D via contour lines
- Common symbols are in the appendix of the text
- Note the contour interval at the bottom of the map

Symbolization - Showing elevation on a map Flooding a fish tank for science

looding a fish tank for science

- Another way of showing elevation is by drawing lines of equal elevation called *isohypses* or more commonly called *contour lines*
- Conceptually it's like the high tide line at the beach
- Adding progressively more and more water to a fish tank will leave a series of levels on various shaped objects







- Contour lines or isohypses are types of isopleths
- There are several other types of isopleths that can show:
 - barometric pressure isobar
 - air/water temp. isotherm
 - wind/water velocity isotach
 - rainfall isohyet

TERRAIN FEATURES

• Five Major

Hidden Valley Ranch Salad Dressing

- Hilltop, Valley, Ridge, Saddle, Depression
- Three Minor
 - Draw, Spur, Cliff
- Two Supplementary

Cut, Fill





























Creating a Hand Drawn Profile Creating a Hand Drawn Profile 1. Draw equally spaced horizontal lines on the sheet 3. Tape the Topographic map above the graph lines of paper you will be using to create the profile map you created for the profile map (graph paper is good to use since the grid lines help 4. Draw a horizontal line keep lines parallel). through the 2. Label the horizontal lines with the values of the Topographic map at a elevations from the Topographic map. desired location. 50 This line will be 40 referred to as a cutting 30 line through the 20 remainder of the 10 presentation. - 0 CONTINUE CONTINUE



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