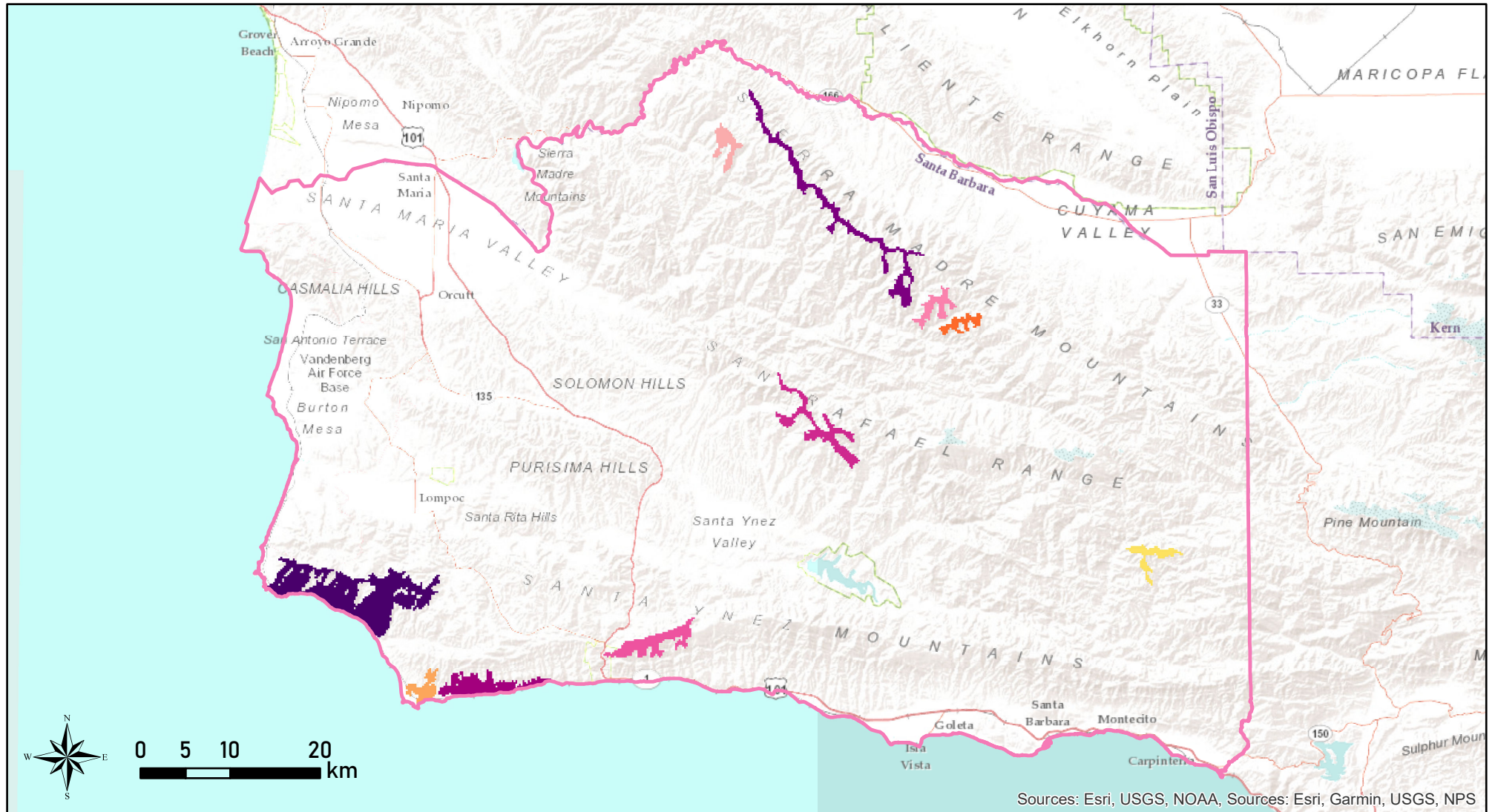
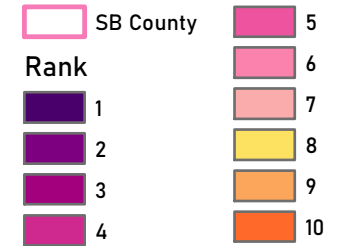


Top 10 Sites for Wind Turbine Installation in Santa Barbara (SB) County

As the Energy Division from the Planning & Development office of SB County is planning to subsidize WES 250 kW turbines to support small-scale wind energy in mainland SB county, potential sites suitable for turbine installation are identified. Criteria for selection include having wind speeds greater than 6 m sec⁻¹ at 30-50 meters in height, within 7500 m of a major road, not within 7500 m of an airport, not within 1 mile of urban nor projected growth area, not within fire harzard zones, and not on state or federal lands designated as parks or for other public use. The 10 most contiguous areas are ranked and displayed below.

Ten Most Suitable Sites



Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

Map created by: Shuhan Song 2/23/20

Source: Airports - ESRI Data and Maps 2004. Street centerlines - Santa Barbara County GIS (SBCGIS), 2008. County boundary - SBCGIS, 2008. Fire hazard zone - Fire and Resource Assessment Program (FRAP), 2007 & 2008. Parcels: SBCGIS, 2009. Urban 2001 - ESRI Data and Maps 2004.. Urban growth by 2020 - California Digital Atlas (Cal-Atlas), 2002. Wind speed - National Renewable Energy Laboratory (NREL), 2003 / Wind Energy Resource Atlas of the United States. ESRI 2011. ArcGIS Desktop: Release 10. Redlands, CA: Environmental Systems Research Institute.