The ideal district population, 39,202, is based on the 2020 Census. HD 51 has 38,848 people, which is -0.9% from the ideal. 16.35% of the people in the district are new constituents.

13.05% of the district is American Indian and Alaskan Native, alone or in combination with one or more other races. 0.84% of the district is Asian, alone or in combination with one or more other races. 1.75% of the district is Black or African American, alone or in combination with one or more other races. 0.14% of the district is Native Hawaiian or other Pacific Islander, alone or in combination with one or more other races. 79.26% of the district is non-Hispanic white. 3.79% of the district is some other race or ethnicity. 5.25% of the district is of Hispanic or Latino origin.

Counties: Grady, Stephens
Cities: Alex, Blanchard, Bradley, Bray, Bridge Creek, Central High, Chickasha, Duncan, Marlow, Middleburg, Nimnukah, Norge, Rush Springs, Tuttle
School Districts: Alex, Amber-Pocasset, Blanchard, Bray-Doyle, Bridge Creek, Cement, Central High, Chickasha, Dibble, Friend, Lindsay, Marlow, Middleburg, Newcastle, Nimnukah, Pioneer, Rush Springs, Sterling, Tuttle
Senate Districts: 23, 31, 43
Congressional Districts: 4