The ideal district population, 39,202, is based on the 2020 Census. HD 37 has 39,314 people, which is 0.29% from the ideal.

10.62% of the people in the district are new constituents.

21.62% of the district is American Indian and Alaskan Native, alone or in combination with one or more other races.
1.02% of the district is Asian, alone or in combination with one or more other races.
4.84% of the district is Black or African American, alone or in combination with one or more other races.
0.96% of the district is Native Hawaiian or other Pacific Islander, alone or in combination with one or more other races.
65.42% of the district is non-Hispanic white.
5.04% of the district is some other race or ethnicity.
7.66% of the district is of Hispanic or Latino origin.

Counties: Kay, Osage
Cities: Burbank, Fairfax, Foraker, Grainola, Hominy, Kaw City, Kildare, McCord, Pawhuska, Ponca City, Shidler, Webb City, White Eagle
School Districts: Bowring, Frontier, Hominy, Kildare, McCord, Newkirk, Pawhuska, Ponca City, Shidler, Woodland, Wynona
Senate Districts: 10
Congressional Districts: 3