

# **Proposed House and Senate Districts**

**Maps Submitted by Curt Hartman**

**September 25, 2023**

## Overview of Proposal

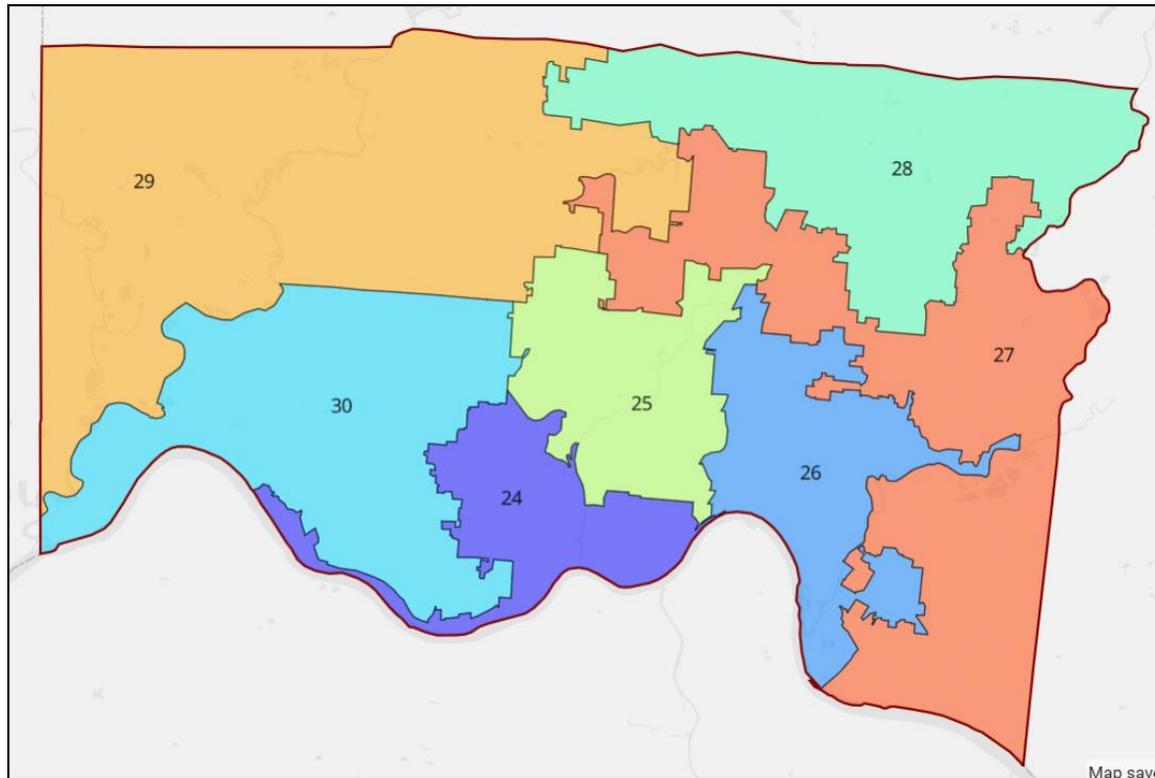
- Maps submitted by McColley LaRe on Sept 20, 2023, served as baseline.
- Changes made only to HD 27 and HD 28 in Hamilton County and SD 7 and SD 8 in Hamilton and Warren Counties.
- Genesis of needed change of the McColley LaRe Map is due to the failure of HD 27 to be compact.
  - Ohio Constitution, Art. IX, Sec. 6(C) provides for additional consideration with respect to house districts: “General assembly districts shall be compact.”
- Difference of population for HD 27 and HD 28 between McColley LaRe Map and Hartman Map negligible. HD 27 from 121,968 (McColley LaRe) to 121,827 (Hartman); HD 28 from 121,789 (McColley LaRe) to 121,930 (Hartman).



## HD 27 Under McColley LaRe Map

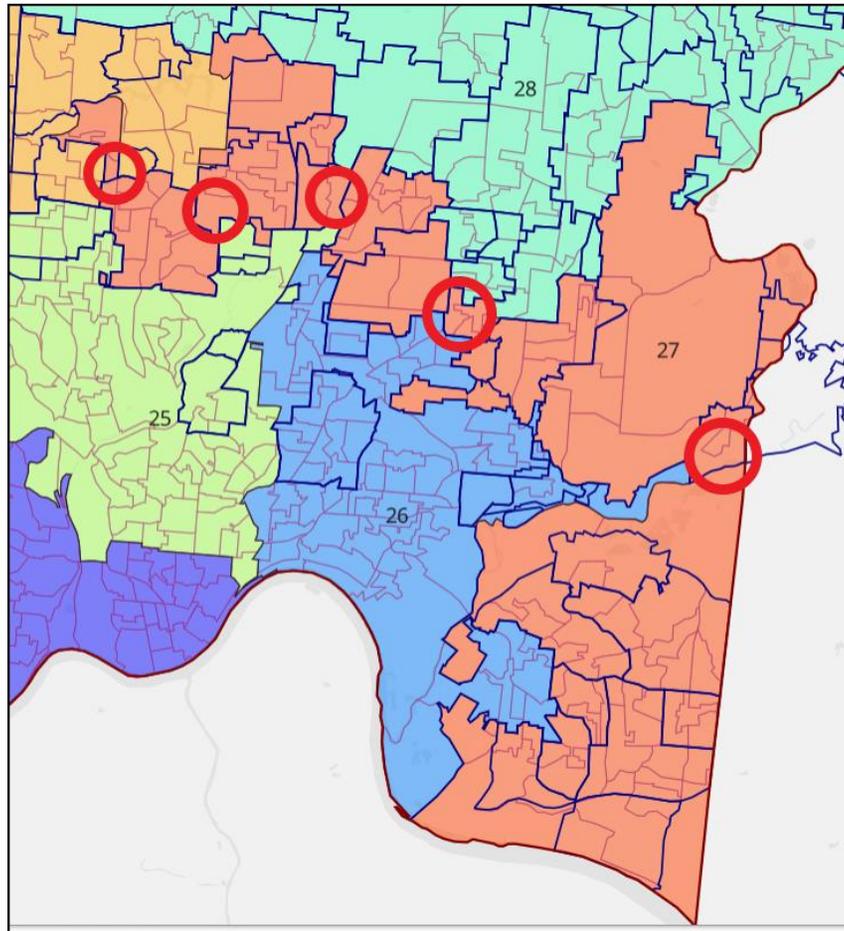
HD 27 is one of seven HDs within Hamilton County.

HD 27 narrowly snakes through the middle of the county, linking disparate communities:



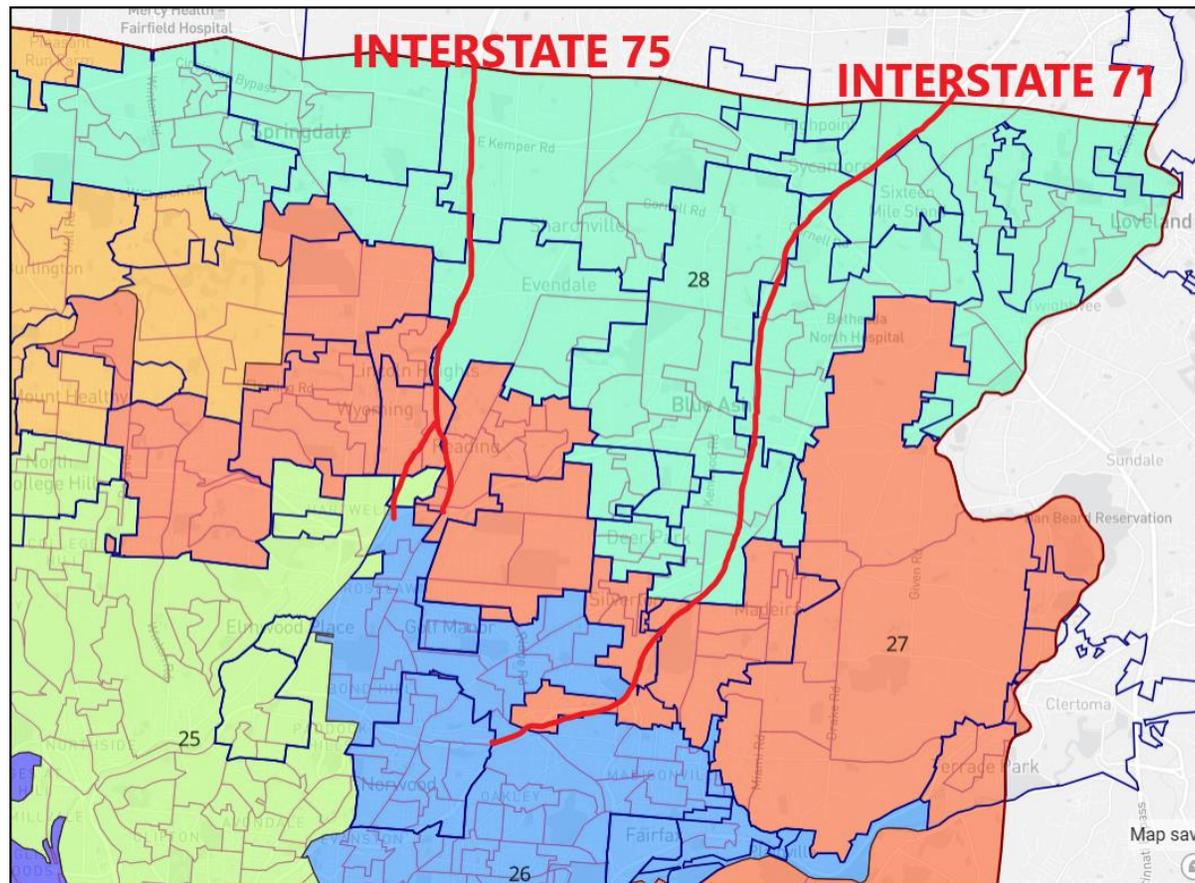
## HD 27 Under McColley LaRe Map

In five distinct locations, HD 27 utilizes a single precinct to link larger sections of the district together, significantly negating compactness.



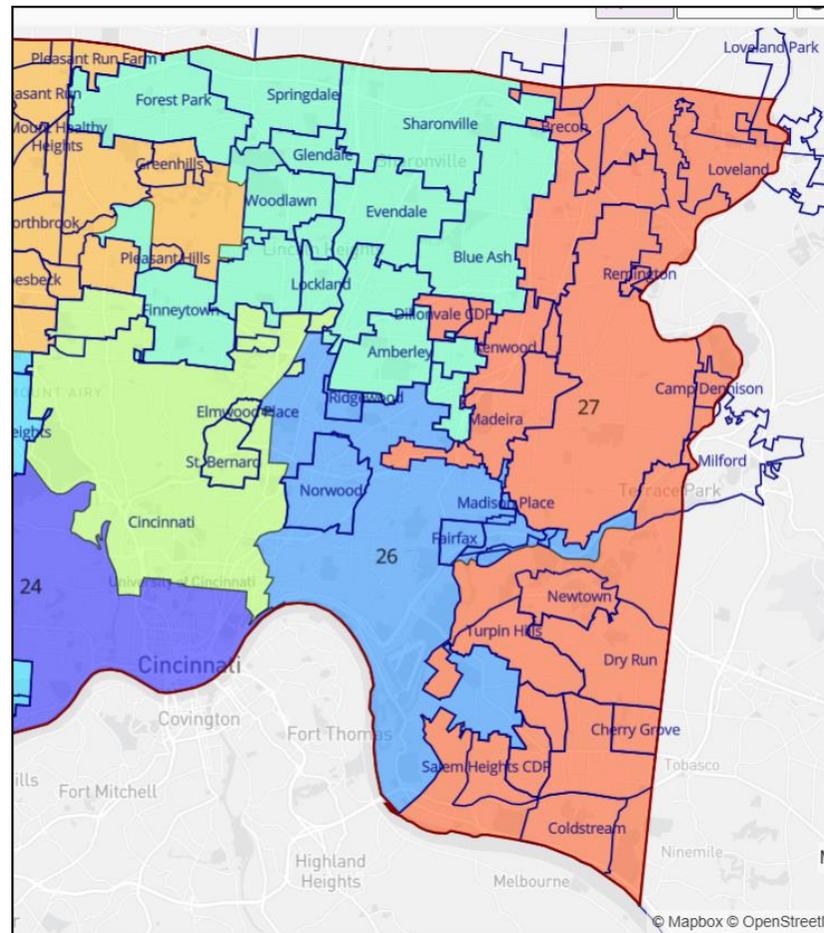
## HD 27 Under McColley LaRe Map

HD 27 is divided by the two major north-south interstates through Hamilton County (Interstate 71 and Interstate 5), forcing eastern suburbs into distinctly different areas between the Interstates and then west of Interstate 75:



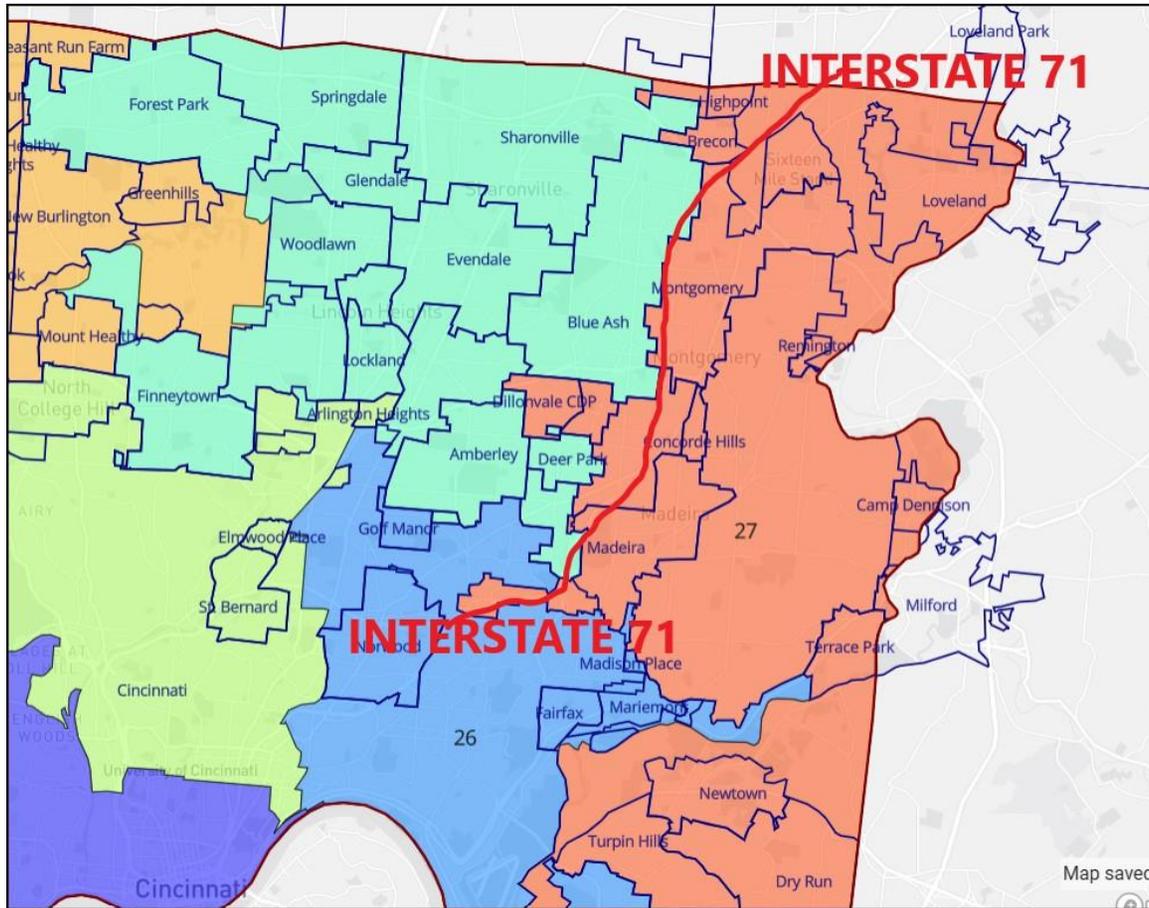
## HD 27 / HD 28 Under Hartman Map

HD 27 and HD 28 both redrawn along their more historical areas and linking similar communities:



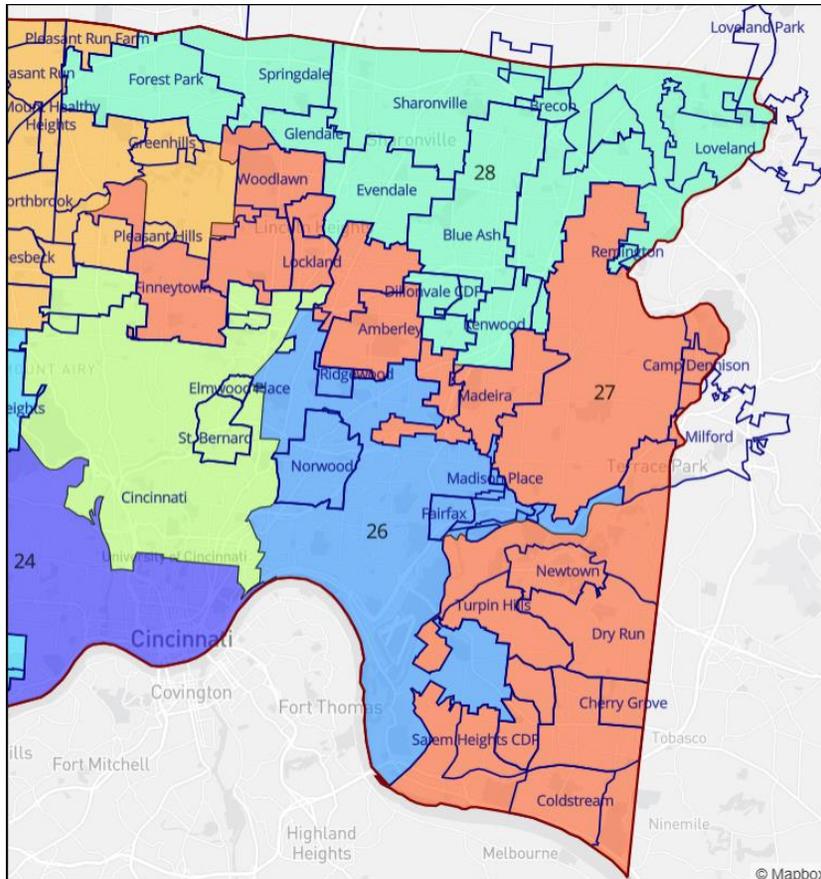
## HD 27 Under Hartman Map

Western boundary of HD 27 and eastern boundary of HD 28 now generally Interstate 71:

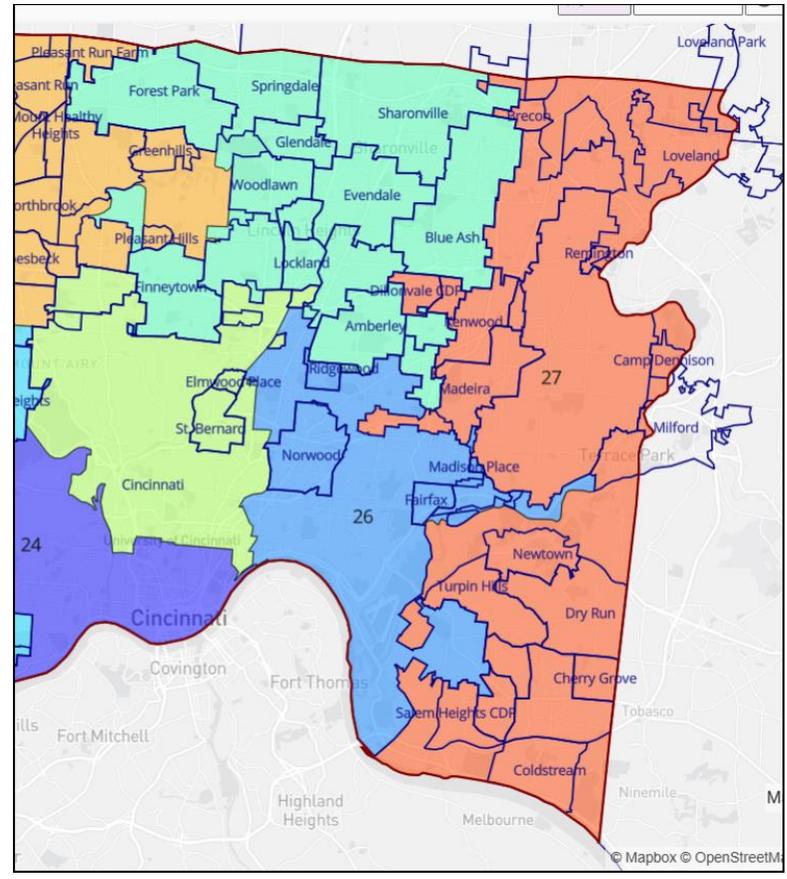


# HD 27 / HD 28 Under Hartman Map

HD 27 and HD 28 both more compact than under McColley LaRe Map:



**McColley LaRe Map**

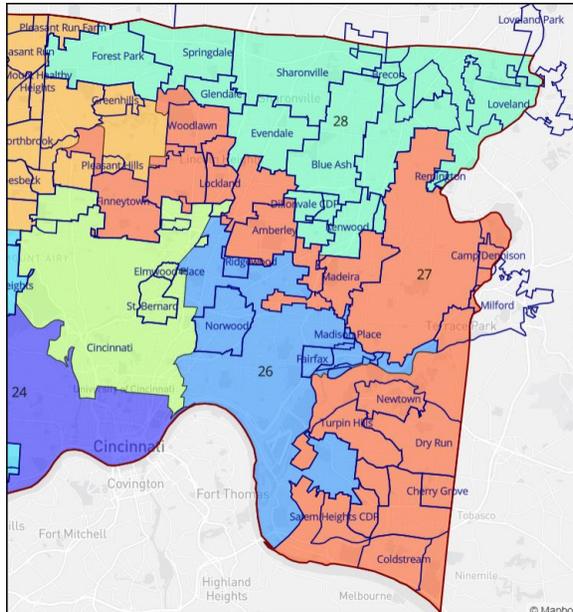


**Hartman Map**

# Hartman Map (HD 27 and HD28)

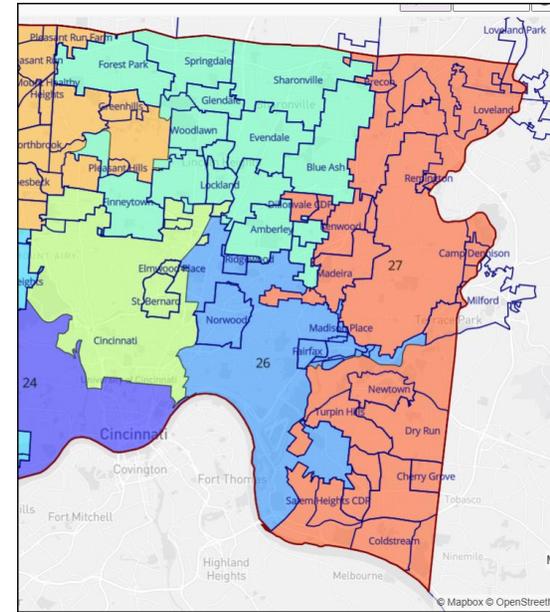
## Significantly More Compact than McColley LaRe Map

### McColley LaRe Map



ID	Reock Rating	Polsby-Popper Rating	Normalized Rating	Normalized Rating	Normalized Rating
27	0.2648	6	0.0711	0	1
28	0.2102	0	0.1969	24	34

### Hartman Map



ID	Reock Rating	Polsby-Popper Rating	Normalized Rating	Normalized Rating	Normalized Rating
27	0.3427	37	0.1173	4	23
28	0.3876	55	0.1366	9	31

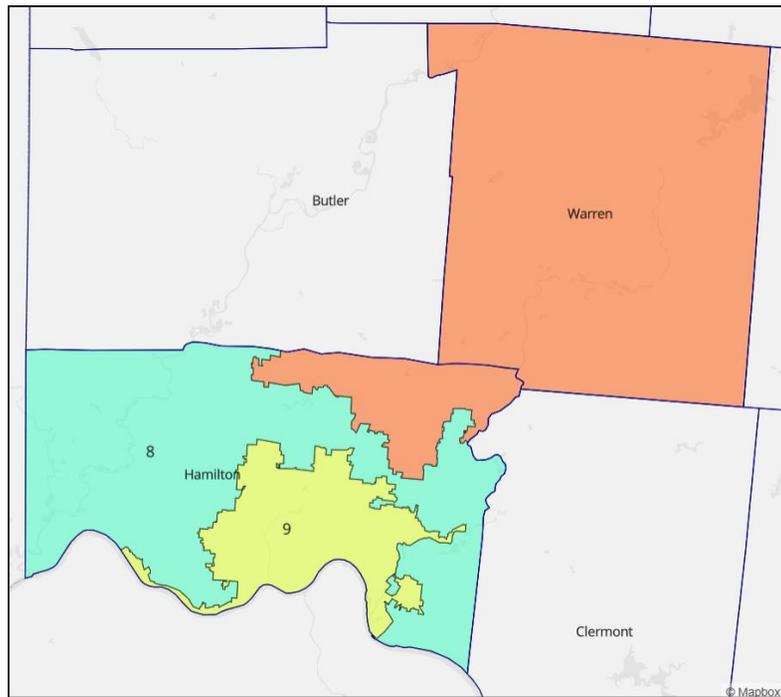
The raw Reock measurement [0–1] Polsby–Popper measurement [0–1] values normalized [0–100] so higher value is better, using historical data and ideal values. KIWYSI values inverted their [1–100] smaller-is-better ranks so that bigger is better to track Reock and Polsby–Popper. [Values from DavesRedistricting application.]

## **Impact of Hartman May HD 27 and HD 28 on partisan aspects**

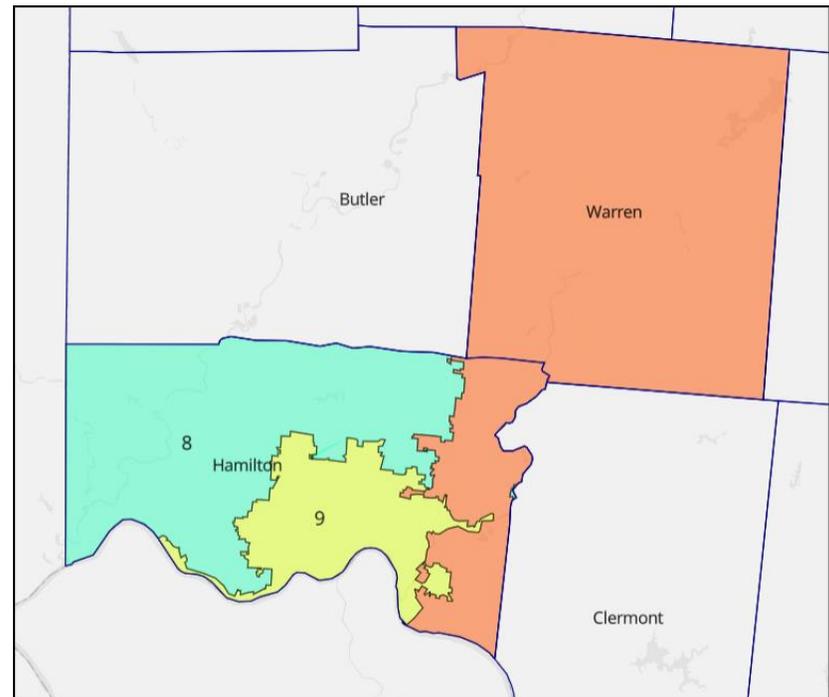
- Under McColley LaRe Map, both HD 27 and HD 28 are toss-up/highly competitive districts.
- Under Hartman Map, HD 27 becomes GOP District and HD 28 becomes Democratic District.
- Under Constitution, compactness is factor to impact district maps; toss-up or highly competitive districts is not a constitutional standard

## Impact of new HD 27 and HD 28 on SD 7 and SD 8

With SD 7 including two HDs in Warren County, HD 27 now moved from SD 8 to SD 7 and HD 28 moved from SD 7 to SD 8 (as geographical tie to Warren County shifted). This is consistent with historical senate district.



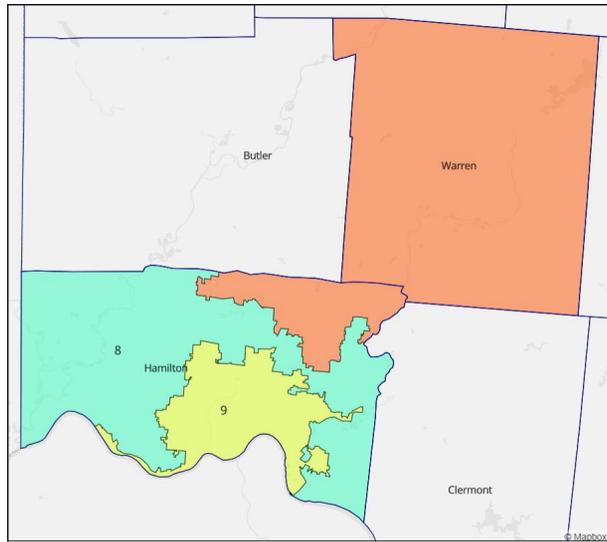
**McColley LaRe Map**



**Hartman Map**

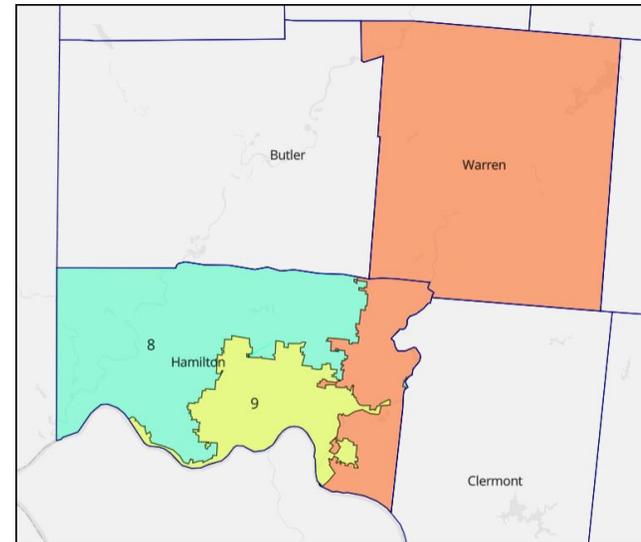
# COMPACTNESS Comparison Hartman Map (SD 7 and SD 8)

## McColley LaRe Map



ID	Reock Rating	Polsby-Popper Rating	Rating	KIWYSI Score	
7	0.3742	50	0.3327	58	49
8	0.2741	10	0.0934	0	15

## Hartman Map



ID	Reock Rating	Polsby-Popper Rating	Rating	KIWYSI Score	
7	0.3611	44	0.2228	31	35
8	0.2765	11	0.1973	24	31

The raw Reock measurement [0–1] Polsby–Popper measurement [0–1] values normalized [0–100] so higher value is better, using historical data and ideal values. KIWYSI values inverted their [1–100] smaller-is-better ranks so that bigger is better to track Reock and Polsby–Popper. [Values from DavesRedistricting application.]











