

Arizona Data Notes

Overall observations that applied to all States I have worked on

Please refer to data notes I wrote for Texas, in the Texas match results folder.

Arizona specifics

NPI used as index for calculations

A number of IKN rows that have practice names but not individual dentist names were matched with NPPES by NPI (each carries a dentist's name). For this reason, when the head values are calculated, I used NPI rather than names as index. Here are a few views of possible groupings.

Grouped by specialty

1000 WILLOW CREEK RD STE E, PRESCOTT, AZ, 86301-1645	general	0.810412
1000 WILLOW CREEK RD STE K, PRESCOTT, AZ, 86301-1645	specialist	0.250000
1000 WILLOW CREEK RD STE, BLACK CANYON CITY, AZ, 85324	general	0.111111
1000 WILLOW CREEK RD STE, PRESCOTT, AZ, 86301-1645	general	0.111111
1000 WILLOW CREEK RD, PRESCOTT, AZ, 86301-1645	specialist	0.250000

Grouped by NPI

1000 WILLOW CREEK RD STE E, PRESCOTT, AZ, 86301-1645	1.073669e+09	0.045455
	1.629064e+09	0.076923
	1.659525e+09	0.111111
	1.689838e+09	0.076923
	1.831312e+09	0.500000
1000 WILLOW CREEK RD STE K, PRESCOTT, AZ, 86301-1645	1.598090e+09	0.250000
1000 WILLOW CREEK RD STE, BLACK CANYON CITY, AZ, 85324	1.659525e+09	0.111111
1000 WILLOW CREEK RD STE, PRESCOTT, AZ, 86301-1645	1.659525e+09	0.111111
1000 WILLOW CREEK RD, PRESCOTT, AZ, 86301-1645	1.598090e+09	0.250000

Grouped by name

1000 WILLOW CREEK RD STE E, PRESCOTT, AZ, 86301-1645	BINGHAM, ROBERT C	0.153846
	CONDERATO, KATHLEEN A	0.045455
	EFTEKHARI, MASSOUD	0.111111
	SINNARD, MARK K	0.500000
1000 WILLOW CREEK RD STE K, PRESCOTT, AZ, 86301-1645	KLEINMAN, BRIAN S	0.250000
1000 WILLOW CREEK RD STE, BLACK CANYON CITY, AZ, 85324	EFTEKHARI, MASSOUD	0.111111
1000 WILLOW CREEK RD STE, PRESCOTT, AZ, 86301-1645	EFTEKHARI, MASSOUD	0.111111

1000 WILLOW CREEK RD, PRESCOTT, AZ, 86301-1645
1000 WILLOW CREEK ROAD SU, TUCSON, AZ, 85737

KLEINMAN, BRIAN 0.250000
KLEINMAN, BRIAN S 0.250000

Mis-spelled names

Arizona BOD data has a number of mis-spelled city names. Some city names are actually census tract names. Therefore, I manually checked all the city names and made changes so that they can be matched to county names using a city-to-county list provide by the state.

Urbanicity Data is Misleading

Arizona has only 15 counties and each of them is geographically very large. This makes the population of each county larger.

Therefore, the higher number of urban counties is a deceptive feature.

This in general should indicate that we need to take into account each state's unique ways to divide its land into counties. A value of 1 in RUCC for Arizona is not the equivalent of 1 in RUCC for Texas as Texas is just the opposite for having very small counties. The urbanicity tables and charts we have should be interpreted in the context of each state's county sizes.

	Total Area, mi ²	Total No. of counties	State Area ratio	Average Area per county, mi ²
Arizona	113,642	15	1	7,576
Texas	261,914	254	2.3	1,031

BOD Drop-offs

When I made the BOD stand-alone part, I compared the original BOD list of names with those matched with IKN, and took the un-matched. However, at the final stage, the BOD stand-alone part still has names that overlapped with the IKN matched. There could be various reasons for this to happen. I took the simple step of comparing the BOD with IKN-matched again and dropped off the overlaps in BOD without investigating why the overlaps occurred.

Considering that the total number of dentists we get are usually higher than what ADA reported for 2018, the above step is great for keeping the total number of dentists down.