

Commonwealth of Kentucky  
Finance and Administration Cabinet  
Department of Revenue  
**Office of Property Valuation**  
501 High Street Post Office Box 1202  
Frankfort KY 40602-1202

**M E M O R A N D U M**

To: All Property Valuation Administrators  
From: David L Gordon  
Re: Explanation of the FAD Calculations  
Date: 05 June 2009

Explanation of the Formula for Allocation of Deputies

As voted upon at the 2008 Fall Revenue Conference, the PVA Association approved use of a new Formula for Allocation of Deputies (FAD). FAD takes into account more categories than parcel count. It also includes categories of Population, Automobiles, Tangible forms entered, and Square miles. The factors for each category were determined as follows, based upon a total estimate of 637 deputies for all 120 counties:

Parcel Factor of 3,354/employee

Total Parcels statewide 2007 =  $2,136,693/637 = 3,354$  parcels/employee

Population Factor of 6,658/employee

2007 US Census Bureau Estimate for Kentucky =  $4,241,474/637 = 6,658$  people/employee

Automobiles Factor of 6,983/employee

Total Kentucky automobiles 2007 =  $4,448,335/637 = 6,983$  automobiles/employee

Tangible Forms Factor of 180/employee

Total Tangible Forms Entered 2007 =  $114,656/637 = 180$  forms enter/employee

Square Miles Factor of 63.44/employee

Total Kentucky Square Miles =  $40,409/637 = 63.44$  miles/employee

For each county, the appropriate category for that county was divided by the corresponding factor. The Parcel Factor was left untouched, as it is important for each county. The remaining four factors (Population, Automobiles, Tangible forms, Square miles, or PATS) were averaged and then added to the Parcel Factor. That total was divided by two to give the final Deputy Allocation. This weighted average keeps parcel count as an important factor, but still allows the other work in the office to contribute as well. **The PATS factors are based upon 2007 numbers for each county in 2007.**

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For rounding, normal rounding methods were used as shown in the following example:

- Round down to 3 if between 3.01 -3.24
- Round up to 3.5 if between 3.25 – 3.50
- Round down to 3.5 if between 3.51 – 3.74
- Round up to 4 if between 3.75 -3.99.

The minimum number of deputies for a county was kept at two (2).

In the example below, Clark County is used:

Clark County

- Total 2007 Parcels: 17,153
- 2007 Population: 35,550
- 2007 Automobiles: 39,046
- 2007 Tangibles: 900
- 2007 Square Miles: 255.16

The Clark County FAD 2010 of five (5) deputies is calculated as follows:

	<u>Clark, 2007</u>	<u>Factor</u>	<u># Deputies</u>	<u>Explanation</u>
Parcels	17,153	3354	5.11	(17,153/3,354)
Population	35,550	6659	5.34	(35,550/6,659)
Automobiles	39,046	6983	5.59	(39,046/6,983)
Tangibles	900	180	5.00	(900/180)
Square Miles	255.16	63.44	4.02	(255.19/63.44)
		<b>PATS Avg=</b>	<b>4.99</b>	(P+A+T+S)/4
		PATS Avg	<b>4.99</b>	
		Parcel Factor	<u>5.11</u>	
		<b>Raw Deputy</b>	5.05	(PATS + Parcel Factor)/2)

Round Down = 5

**Clark County Deputy Allocation = 5 deputies**

**A spreadsheet is being sent to all counties giving the numbers used for every county, and the calculation for FAD deputies.**