

July 1, 2012
Municipality Population Updates

MAG POPTAC Ad Hoc Subcommittee
October 30, 2012

July 1, 2012 update

| | April 1, 2010 (census) | July 1, 2010 | | July 1, 2011 | | July 1, 2012 | |
|-------------------|---------------------------|------------------|--------------|------------------|---------------|-------------------|---------------|
| | | Population | Change | Population | Change | Population update | Change |
| Apache Junction* | 294 | 294 | 0 | 294 | 0 | 296 | 2 |
| Avondale | 76,238 | 76,468 | 230 | 76,392 | 154 | 76,853 | 461 |
| Buckeye | 50,876 | 51,019 | 143 | 52,334 | 1,458 | 54,091 | 1,757 |
| Carefree | 3,363 | 3,358 | -5 | 3,367 | 4 | 3,387 | 20 |
| Cave Creek | 5,015 | 5,005 | -10 | 5,055 | 40 | 5,108 | 53 |
| Chandler | 236,123 | 236,687 | 564 | 238,381 | 2,258 | 241,160 | 2,779 |
| El Mirage | 31,797 | 31,911 | 114 | 31,862 | 65 | 32,060 | 198 |
| Fort McDowell | 971 | 975 | 4 | 971 | 0 | 976 | 5 |
| Fountain Hills | 22,489 | 22,444 | -45 | 22,554 | 65 | 22,690 | 136 |
| Gila Bend | 1,922 | 1,932 | 10 | 1,922 | 0 | 1,932 | 10 |
| Gila River* | 2,994 | 3,004 | 10 | 2,994 | 0 | 3,009 | 15 |
| Gilbert | 208,453 | 209,048 | 595 | 213,519 | 5,066 | 219,617 | 6,098 |
| Glendale | 226,721 | 227,217 | 496 | 227,446 | 725 | 228,958 | 1,512 |
| Goodyear | 65,275 | 65,404 | 129 | 67,337 | 2,062 | 69,003 | 1,666 |
| Guadalupe | 5,523 | 5,540 | 17 | 5,895 | 372 | 5,941 | 46 |
| Litchfield Park | 5,476 | 5,467 | -9 | 5,523 | 47 | 5,620 | 97 |
| Mesa | 439,041 | 439,929 | 888 | 441,160 | 2,119 | 444,758 | 3,598 |
| Paradise Valley | 12,820 | 12,810 | -10 | 12,972 | 152 | 13,103 | 131 |
| Peoria* | 154,058 | 154,164 | 106 | 155,754 | 1,696 | 157,618 | 1,864 |
| Phoenix | 1,445,632 | 1,449,242 | 3,610 | 1,451,966 | 6,334 | 1,464,405 | 12,439 |
| Queen Creek* | 25,912 | 25,998 | 86 | 26,764 | 852 | 27,243 | 479 |
| Salt River | 6,289 | 6,299 | 10 | 6,342 | 53 | 6,435 | 93 |
| Scottsdale | 217,385 | 217,365 | -20 | 217,965 | 580 | 219,664 | 1,699 |
| Surprise | 117,517 | 117,688 | 171 | 118,349 | 832 | 119,503 | 1,154 |
| Tempe | 161,719 | 161,974 | 255 | 162,503 | 784 | 164,625 | 2,122 |
| Tolleson | 6,545 | 6,573 | 28 | 6,541 | -4 | 6,578 | 37 |
| Wickenburg | 6,363 | 6,353 | -10 | 6,379 | 16 | 6,456 | 77 |
| Youngtown | 6,156 | 6,154 | -2 | 6,156 | 0 | 6,187 | 31 |
| Balance of County | 274,150 | 273,738 | -412 | 274,673 | 523 | 276,573 | 1,900 |
| | | | 0 | | | | |
| Total | 3,817,117 | 3,824,058 | 6,941 | 3,843,370 | 26,253 | 3,883,849 | 40,479 |

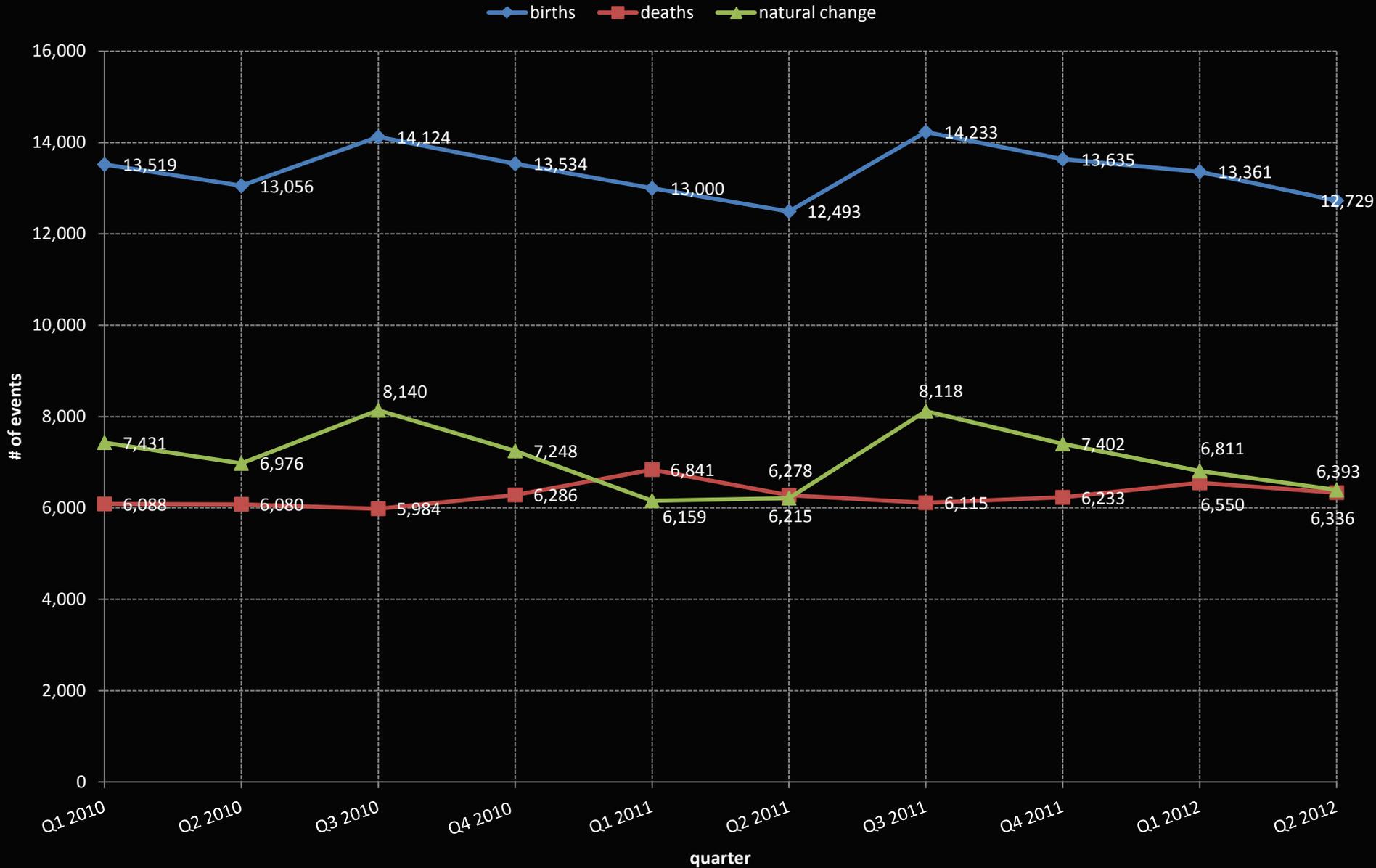
Methodology

| Geography | Method Name | Data Variables | Calculation |
|----------------------------------|------------------------------|---|--|
| Maricopa County | Composite | Births and Deaths (for ages 0 – 4) | Apply Censal ratios from Census 2010 For ages 65+ use average of Social Security and Medicare estimates |
| | | School Enrollment (for ages 5 -17) | |
| | | Active drivers Licenses (for ages 18 - 64) | |
| | | Social Security, Medicare Enrollment (for ages 65+) | |
| Jurisdictions in Maricopa County | Housing Unit Method (HUM) | Housing Unit Completions | Calculate non-annexed population in households using: Housing units Occupancy rate Persons per household |
| | | Jurisdiction occupancy rate and persons per household from Census 2010 | |
| | | Annexed housing units | Calculate annexed population in households using: Annexed units Block occupancy rate Block persons per household |
| | | Block-level occupancy rate and persons per household | |
| | | Group Quarter Population | Add GQ population |

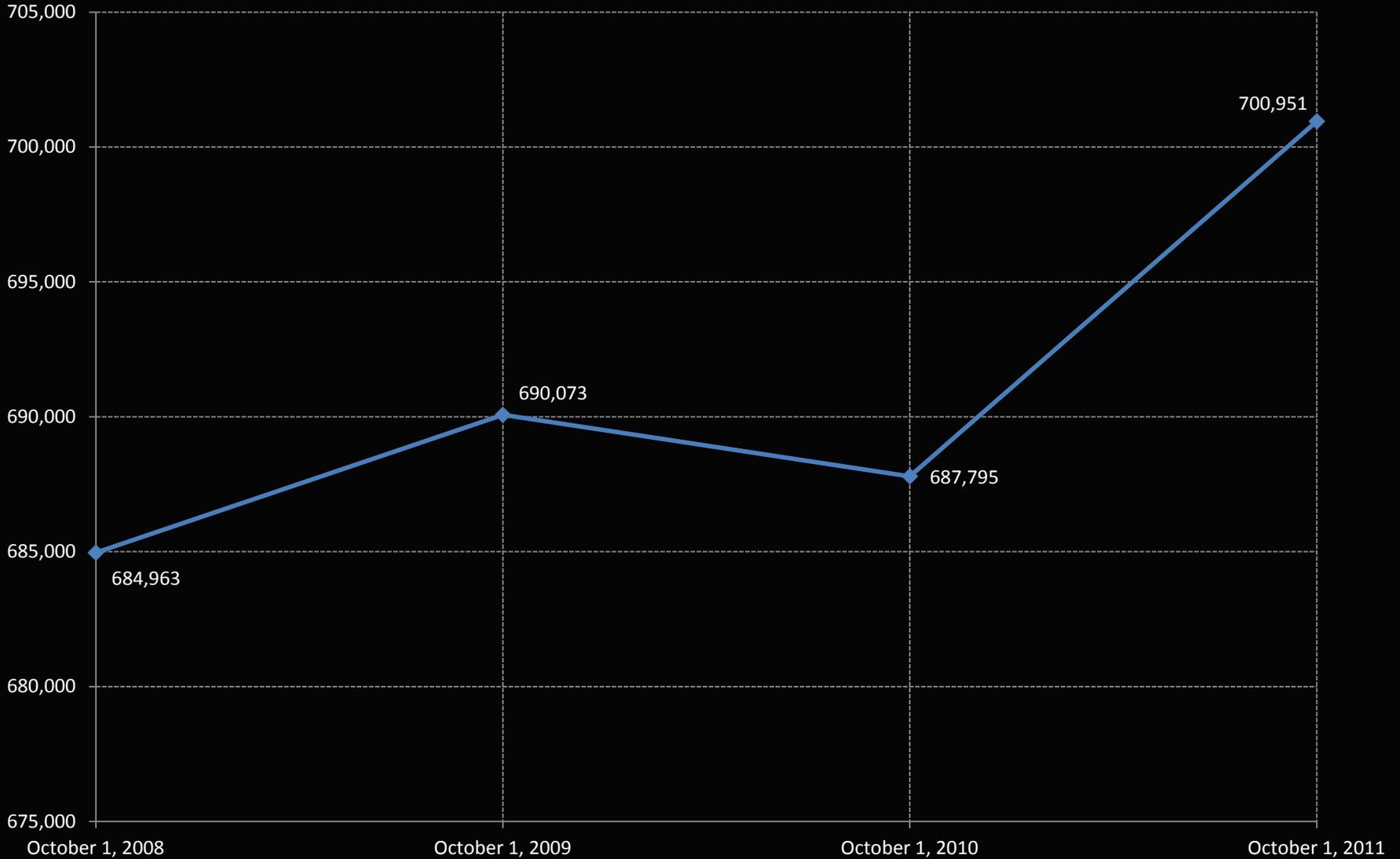
Methodology changes

- Housing unit method (HUM)
 - **2011 update:** determine HUM population by multiplying **total** housing stock by Census 2010 persons per household and occupancy rates.
 - **2012 update:** use July 1 2011 as base. Determine HUM population by (1) multiplying **new** housing stock by Census 2010 persons per household and occupancy rates and then (2) adding the new household population to the July 1 2011 household population.
- Controlling HUM results to county control
 - **2011 update:** distribute differences by scaling change in household population since April 1 2010.
 - **2012 update:** distribute differences by scaling the total household population.

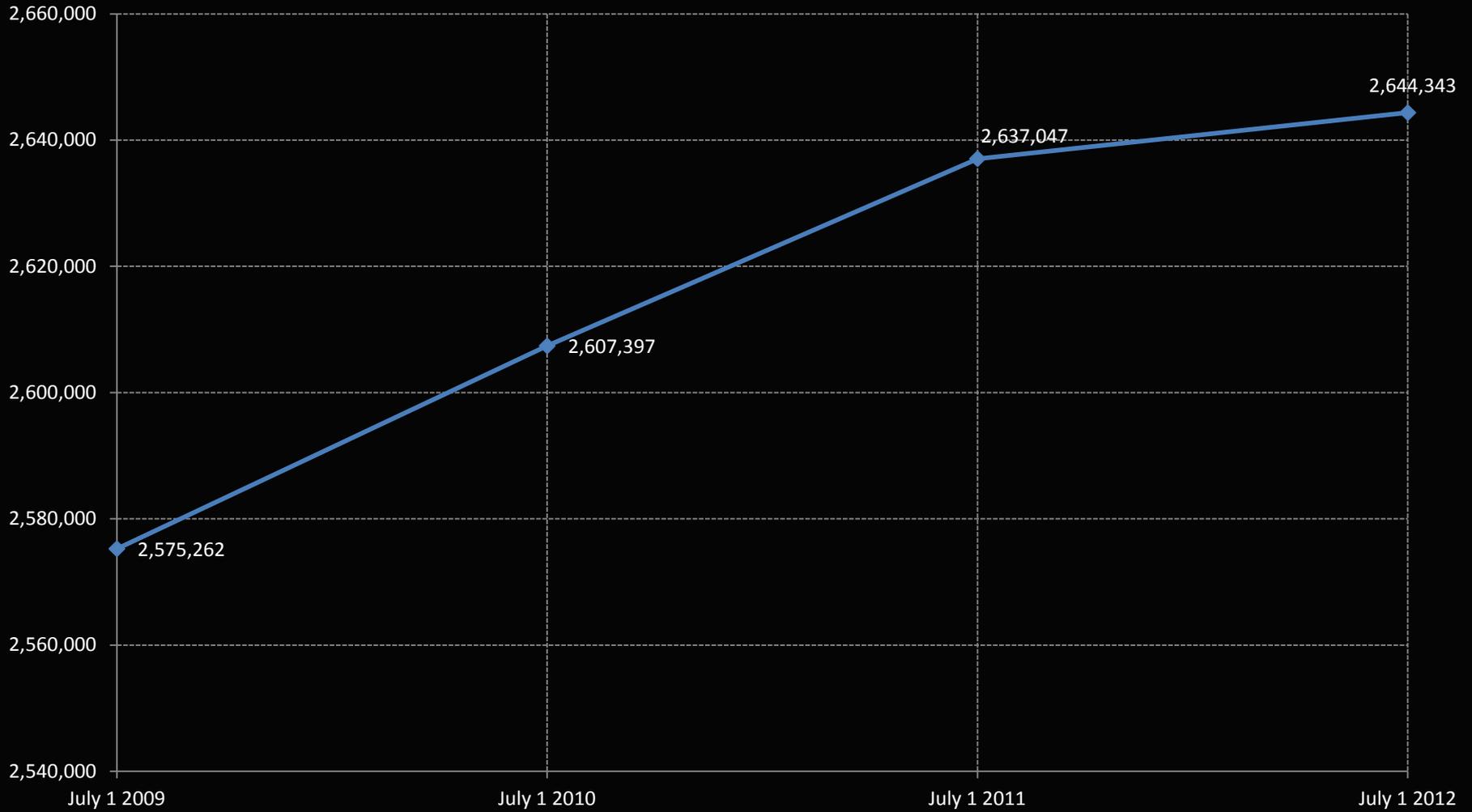
Maricopa County births, deaths & natural change: 2010 – 2012 by quarter



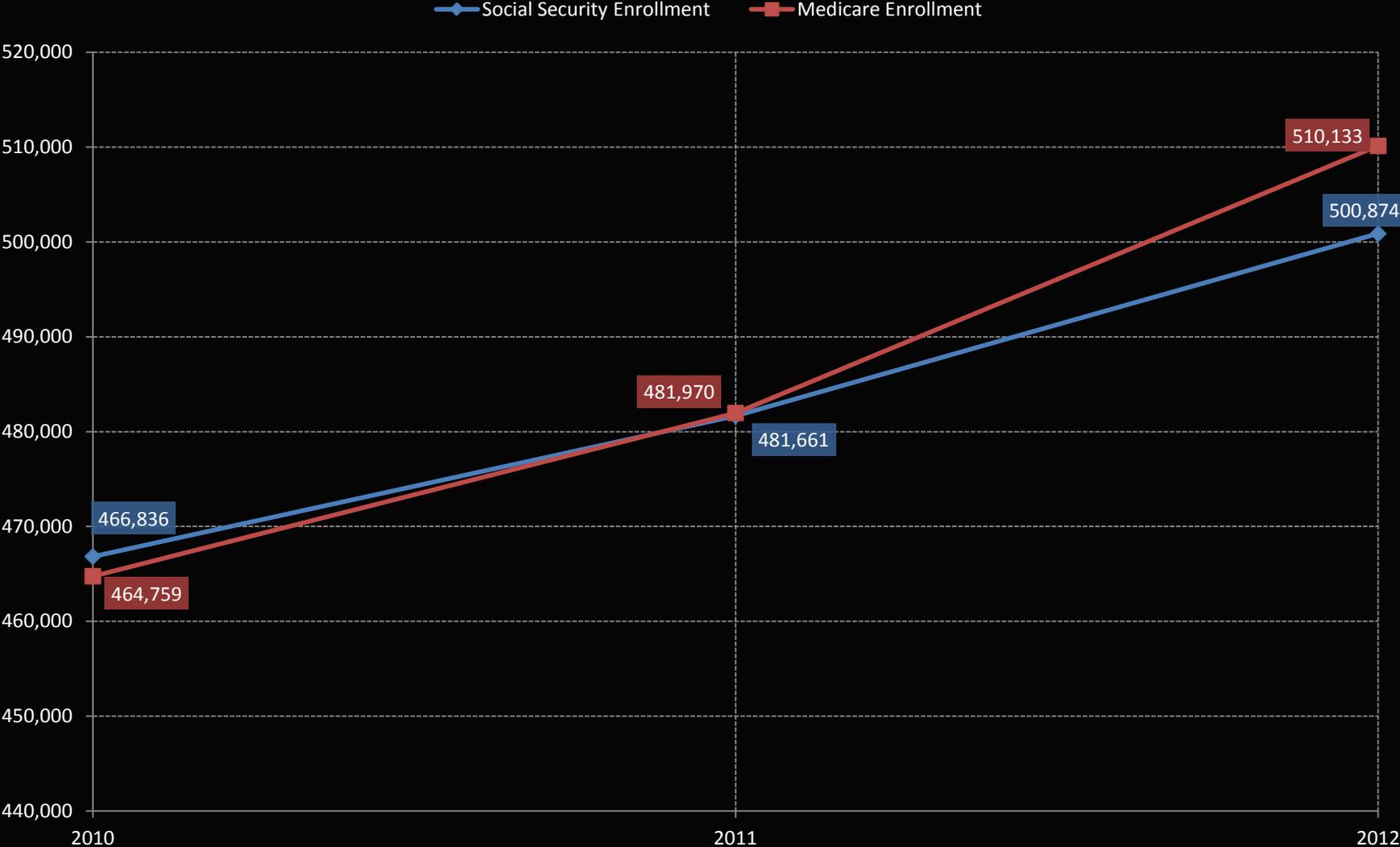
Maricopa County school enrollment: October 1, 2008 - 2011



Maricopa County active drivers licenses: 2009 - 2012

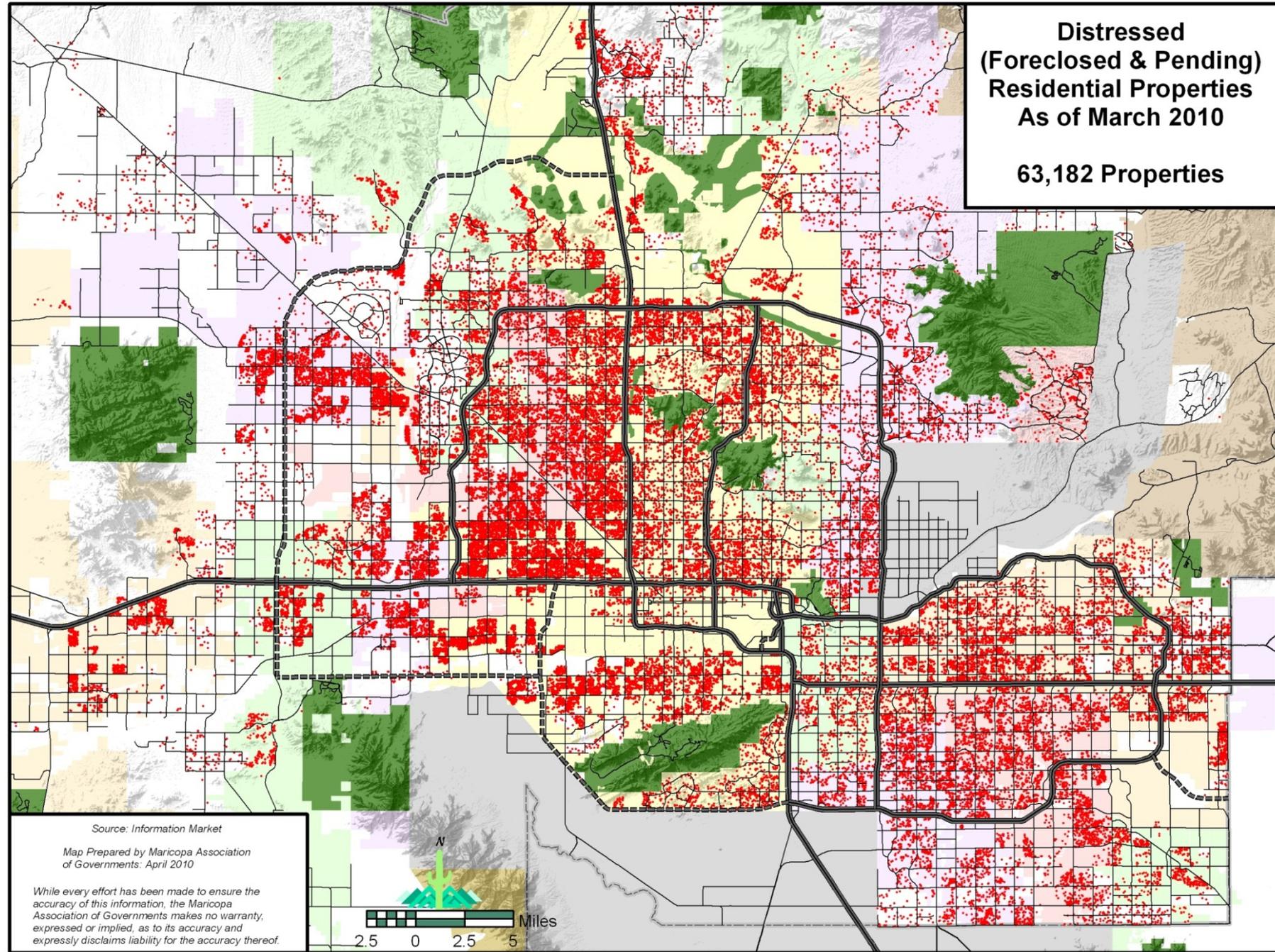


Maricopa County Social Security and Medicare enrollment (ages65+): 2010 - 2011



**Distressed
(Foreclosed & Pending)
Residential Properties
As of March 2010**

63,182 Properties



Source: Information Market

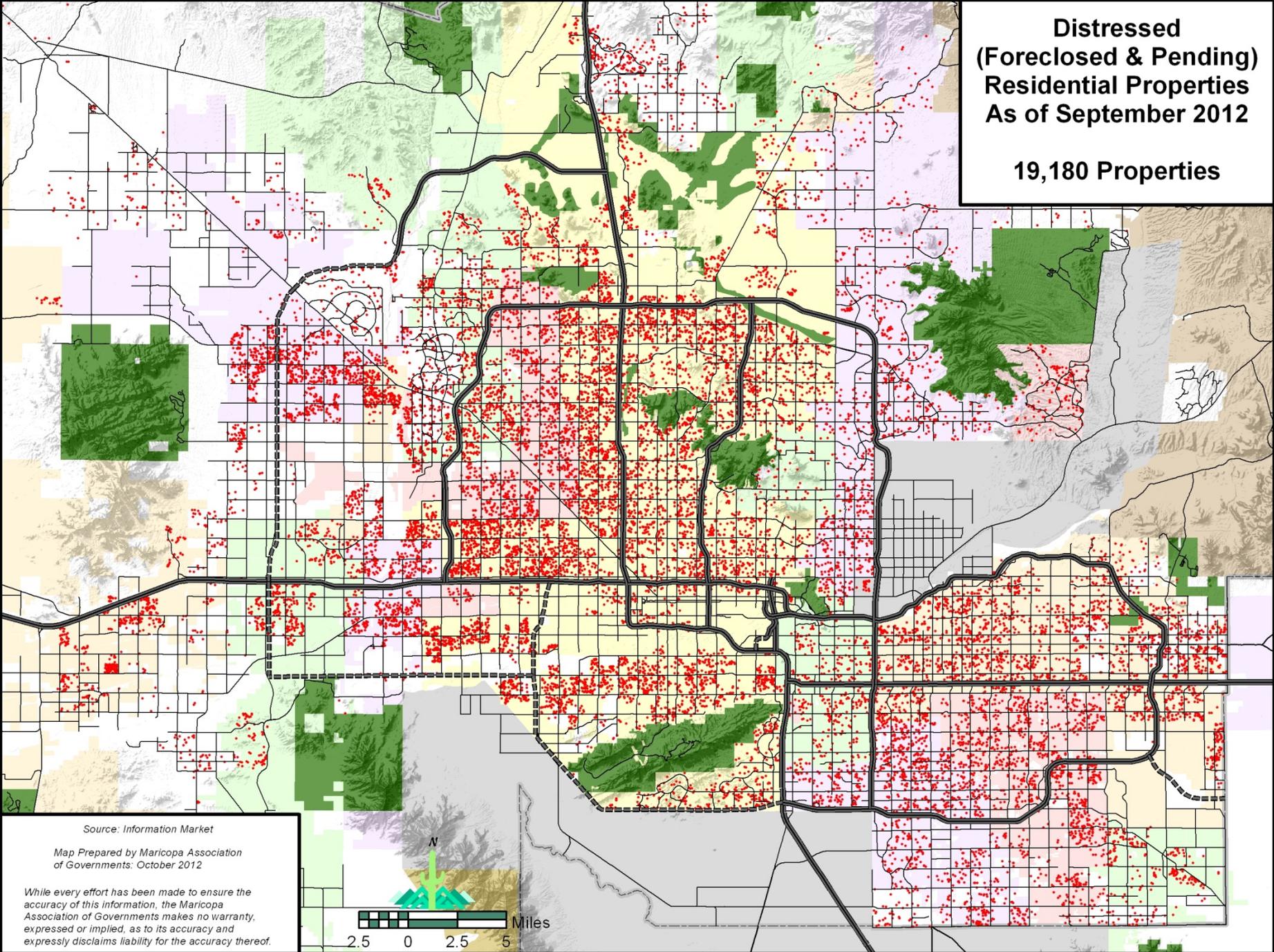
Map Prepared by Maricopa Association
of Governments: April 2010

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2.5 0 2.5 5 Miles

**Distressed
(Foreclosed & Pending)
Residential Properties
As of September 2012**

19,180 Properties



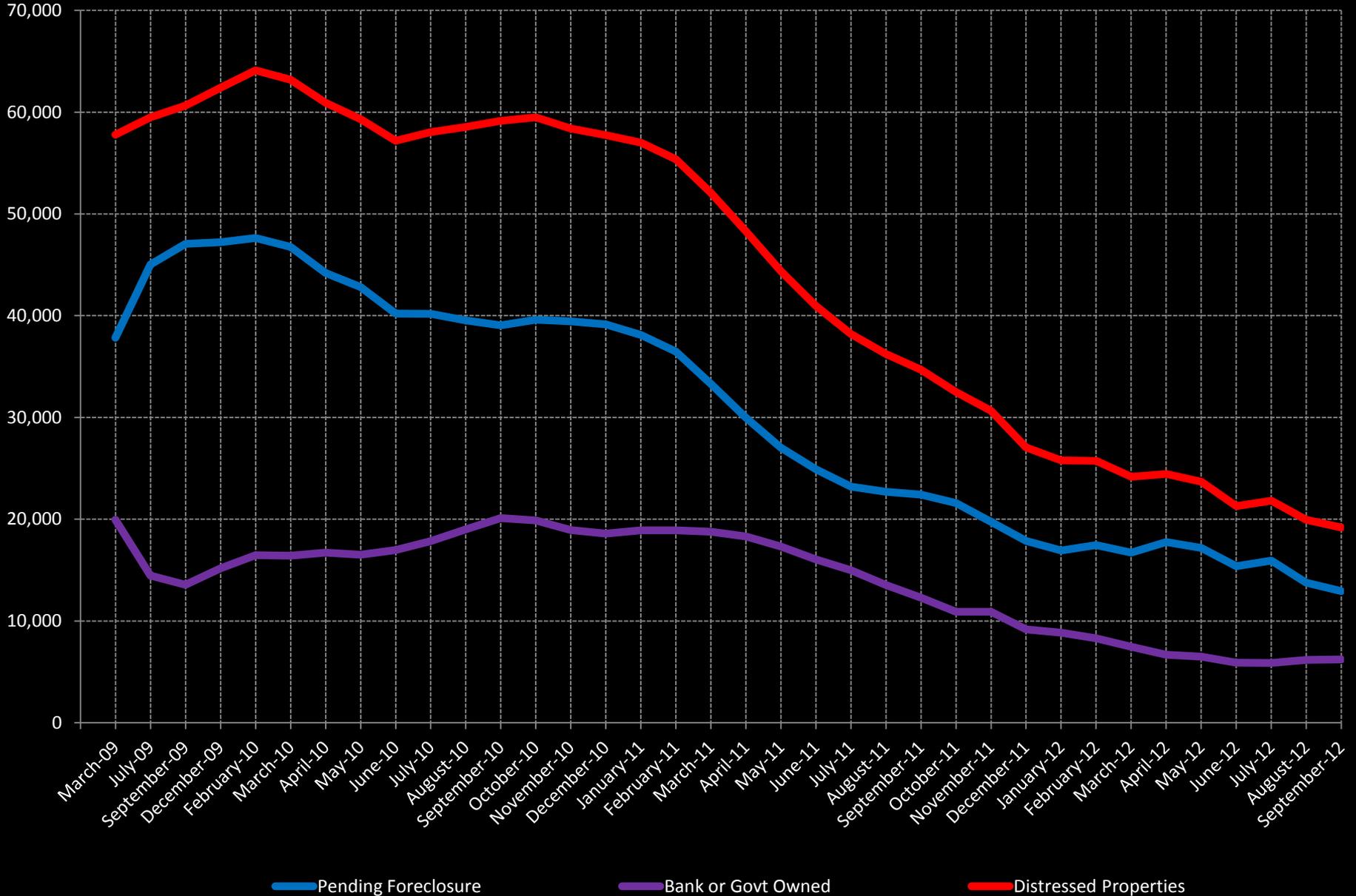
Source: Information Market

Map Prepared by Maricopa Association
of Governments: October 2012

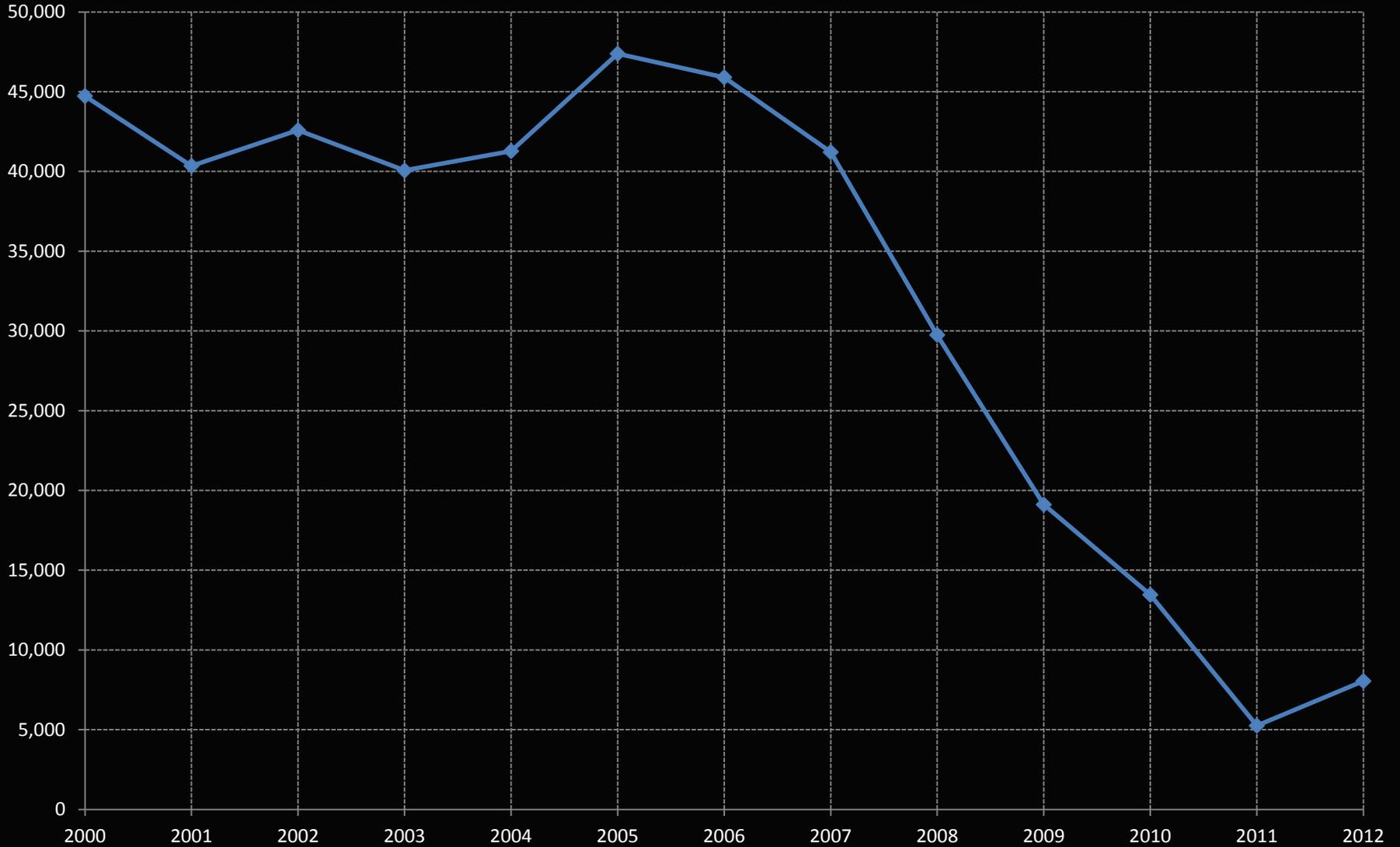
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2.5 0 2.5 5 Miles

Distressed Properties in Maricopa County (March 2009 -September 2012)



Housing unit completions: July 1, 2000 - 2011



Future methodology changes

- Population updates enhancement task order:
 - Working with Alberta Charney at University of Arizona
 - Exploring approaches for improving estimates methodology
 - Testing with historical datasets including: ACS, births, deaths, school enrollment, employment, residential completions
 - Most promising approach: retain general HUM model but use annual indicators to update occupancy rate inputs

Subcommittee recommendation

- Recommendation to the MAG POPTAC
 - to approve the Draft July 1, 2012 Maricopa County and MAG Municipality Resident Population Updates provided the Maricopa County control total is within one percent of the final control total.

| | |
|-------------------|------------------|
| Apache Junction* | 296 |
| Avondale | 76,853 |
| Buckeye | 54,091 |
| Carefree | 3,387 |
| Cave Creek | 5,108 |
| Chandler** | 241,160 |
| El Mirage | 32,060 |
| Fort McDowell | 976 |
| Fountain Hills | 22,690 |
| Gila Bend | 1,932 |
| Gila River* | 3,009 |
| Gilbert | 219,617 |
| Glendale | 228,958 |
| Goodyear | 69,003 |
| Guadalupe | 5,941 |
| Litchfield Park | 5,620 |
| Mesa | 444,758 |
| Paradise Valley | 13,103 |
| Peoria* | 157,618 |
| Phoenix | 1,464,405 |
| Queen Creek* | 27,243 |
| Salt River | 6,435 |
| Scottsdale | 219,664 |
| Surprise | 119,503 |
| Tempe | 164,625 |
| Tolleson | 6,578 |
| Wickenburg | 6,456 |
| Youngtown | 6,187 |
| Balance of County | 276,573 |
| Total | 3,883,849 |

* Maricopa County portion only

** Updated with Count Question Resolution Results, October 2012

July 1, 2012
Municipality Population Updates

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