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October 27, 2010

TO: Members of the MAG Population Technical Advisory Committee

FROM: Jim Bacon, Paradise Valley, Chair

SUBJECT: TRANSMITTAL OF MEETING NOTICE AND TENTATIVE AGENDA

Tuesday, November 2, 2010 - 10:00 a.m.  
MAG Office, Suite 200, Ocotillo Room  
302 North 1<sup>st</sup> Avenue, Phoenix

A meeting of the MAG Population Technical Advisory Committee (POPTAC) will be held at the time and place noted above.

**Members of the POPTAC are encouraged to attend by telephone conference call**, but may attend in person. If you are attending via audioconference please contact Steve Gross at (602) 254-6300 at least one day prior to the meeting.

If you are driving, please park in the garage under the building. Bring your ticket to the meeting and parking will be validated. For those using transit, the RPTA will provide transit tickets for your trip. For those using bicycles, please lock your bicycle in the bike rack in the garage.

Pursuant to Title II of the Americans with Disabilities Act (ADA), MAG does not discriminate on the basis of disability in admissions to or participation in its public meetings. Persons with a disability may request a reasonable accommodation, such as a sign language interpreter, by contacting Heidi Bickart at the MAG office. Requests should be made as early as possible to allow time to arrange the accommodation.

Please be advised that under procedures approved by the MAG Regional Council on June 26, 1996, all MAG committees need to have a quorum to conduct business. A quorum is a simple majority of the membership or 15 people for the MAG POPTAC. If you are unable to attend the meeting, please make arrangements for a proxy from your jurisdiction to represent you. If you have any questions or need additional information, please contact Heidi Bickart at (602) 254-6300.

## TENTATIVE AGENDA

1. Call to Order

2. Call to the Audience

An opportunity will be provided to members of the public to address the MAG POPTAC on items not scheduled on the agenda that fall under the jurisdiction of MAG, or on items on the agenda for discussion but not for action. Members of the public will be requested to limit their comments to three minutes. A total of 15 minutes will be provided for this agenda item, unless the Chair of the POPTAC provides for an exception to this limit. Those wishing to comment on action agenda items will be given an opportunity at the time the item is heard.

3. Approval of Meeting Minutes of October 26, 2010

4. Approval of Draft Provisional July 1, 2010 Maricopa County and Municipality Resident Population Updates and Methodology

Arizona Department of Commerce (ADOC) is preparing the Provisional July 1, 2010 resident population updates for each county in the state. MAG has received a draft 2010 County population update for Maricopa County. MAG staff has developed a draft set of provisional municipality updates based on the draft control total for Maricopa County. The updates, which are used to prepare budgets and set expenditure limitations, were prepared using the 2005 Census Survey as the base and housing unit data supplied and verified by MAG member agencies. These updates are needed by the Economic Estimates Commission and are provisional since these will be revised based on the Census 2010 results. Because there may be changes to the State and county control totals by ADOC, the MAG POPTAC is requested to recommend approval of these updates to the MAG Management Committee provided the

## COMMITTEE ACTION REQUESTED

2. For information.

3. For information, discussion and approval of the minutes of October 26, 2010.

4. For information, discussion and possible recommendation to the MAG Management Committee to approve the Draft Provisional July 1, 2010 Maricopa County and MAG Municipality Resident Population Updates, provided the Maricopa County control total is within one percent of the final control total.

Maricopa County control total is within one percent of the final control total. Please see Attachment One.

5. Next Meeting of MAG POPTAC

The November 23, 2010 meeting of the MAG POPTAC is canceled. The next meeting of the MAG POPTAC is scheduled for Tuesday, December 28, 2010 at 10:00 a.m. Please adjust your calendars accordingly.

5. For information and discussion.

MINUTES OF THE  
MARICOPA ASSOCIATION OF GOVERNMENTS  
POPULATION TECHNICAL ADVISORY COMMITTEE

October 26, 2010  
MAG Office, Saguaro Room  
302 North 1<sup>st</sup> Ave, Phoenix

MEMBERS IN ATTENDANCE

Jim Bacon, Paradise Valley, Chair	*Rick Buss, Gila Bend
Charlie McClendon, Avondale, Vice Chair	* Kyle Mieras, Gilbert
*Bryant Powell, Apache Junction	Sonny Culbreth, Litchfield Park
A- Andrea Marquez, Buckeye	*Matt Holm, Maricopa County
A-DJ Stapley, Carefree	*Wahid Alam, Mesa
*Usama Abujbarah, Cave Creek	*Ed Boik, Peoria
David de la Torre, Chandler	A-Chris DePerro, Phoenix
A-Mark Smith, El Mirage	Dave Williams, Queen Creek
A-Eugene Slechta, Fountain Hills	*Bryan Meyers,
*Terry Yergan, Gila River Indian Community	Salt River Pima-Maricopa Indian Community
Thomas Ritz, Glendale	A-Eddie Lamperez, Scottsdale
A-Katie Wilken, Goodyear	A- Lloyd Abrams, Surprise
*Gino Turrubiarres, Guadalupe	A-Arlene Palisoc for Lisa Collins, Tempe
	Anne McCracken, Valley Metro
	*Lloyce Robinson, Youngtown

\* Not in attendance

A - Participated via audioconference

OTHERS IN ATTENDANCE

Jerry O'Donnell, US Census Bureau	Tim Strow, MAG
Heidi Bickart, MAG	Hanyi Li, MAG
Jami Garrison, MAG	Anubhav Bagley, MAG
Don Thorstenson, MAG	Eric Morgan, Avondale
Peter Burnett, MAG	

1. Call to Order

The meeting was called to order at 10:07am by the Chair, Jim Bacon.

2. Call to the Audience

No comments were made by the audience.

3. Approval of the Meeting Minutes of September 28, 2010

Eddie Lamperez stated that he would like the meeting minutes amended to reflect that he attended the September 28, 2010 POPTAC meeting via audio conference. David de la Torre moved, Dave Williams seconded and it was unanimously recommended to approve the meeting minutes of September 28, 2010 as amended.

#### 4. Census Update

Jim Bacon introduced Jerry O'Donnell and thanked him for attending POPTAC. Mr. Bacon stated that the PowerPoint is available on the MAG web site for those attending via audio conference. Jerry O'Donnell, Denver Census Bureau Manager of Partnership and Data Services, gave a presentation of an overview of the American Community Survey (ACS), 2010 Census, and population estimates. Mr. O'Donnell covered the following topics: population and housing census, ACS, estimates, Count Question Resolution program, the Economic Census, economic indicators, and the new American FactFinder.

Mr. O'Donnell discussed the schedule for release of Census 2010 data products, what data will be received at what level of geography, what variables are benched to what, how to use Census 2010 results, and information on undercount rates. He provided information on the ACS multi-year data release, when to use one-year versus five-year ACS data, reliability versus currency depending on data needs, and differences between Census 2010 and ACS definitions.

Jerry O'Donnell noted that the Census 2000 participation rates on the Census Bureau web site in April 2010 were not final participation rates and have since been updated to the final rates which are different than the rates posted on the web site in the spring of 2010. He said this is disconcerting and Census Bureau headquarters stated this was done so that preliminary Census 2010 mail participation rates were compared to preliminary Census 2000 mail participation rates. Jim Bacon asked what the differences were between Census 2000 and Census 2010 Census mail participation rates. Anubhav Bagley announced that MAG has created a table showing final Census 2000 and Census 2010 mail participation rates by jurisdiction and when the table is finalized it will be shared with the POPTAC. He announced that Maricopa County's participation rate was 72 percent in Census 2000 and stayed the same in Census 2010. Mr. Bagley announced that there have been quite a few changes in participation rates for the cities. Heidi Bickart added that this information will also be shared with PIOs.

Sonny Culbreth asked how PO Boxes were accounted for in the mail participation rates. Jerry O'Donnell responded that PO Boxes were handled as part of the Census Bureau non-response follow-up operation.

Thomas Ritz asked if the redistricting file will include housing data. Jerry O'Donnell replied yes, housing unit counts, as well as own or rent will be available at the block level with the redistricting data.

Jim Bacon asked how the Census Bureau distributes the population counts to the States. Jerry O'Donnell responded that the Census Bureau will distribute the file state by state and the exact date the file will be distributed to the Arizona State legislature is unknown, but it will be sometime February - March 2011.

Anubhav Bagley asked if the redistricting data will be available at the block level. Jerry O'Donnell replied yes. Mr. Bagley asked what census tract and block group will be used for the ACS 5-year estimates. Jerry O'Donnell replied that the ACS 5-year estimates released in December 2010 will

be using the Census 2000 geography. The 2011 ACS releases will be by Census 2010 geography. He noted that comparisons to Census 2000 can be done with the 5-year ACS data released this December.

Jerry O'Donnell said the Census Bureau will use the most recent year population estimate and boundaries as a control for multi-year estimates. He emphasized the importance of the annual Boundary and Annexation Survey. He said 2011 ACS will be controlled to the Census 2010 results. He said the 2010 ACS 5 year data will be controlled to the 2009 population estimates and the most recent boundaries from 2010 BAS.

Jerry O'Donnell said there are tutorials available on the census.gov web site for ACS, under the tab: Guidance for Data Users.

Thomas Ritz asked if the Census Bureau has considered giving cities greater than 65,000 population community level data for the economic hot report and quarterly workforce indicators. Jerry O'Donnell responded that the Census Bureau is considering this, they are testing the data, but he is not sure of the timeline. He said the biggest challenge is to get the agencies together to work on these datasets.

David de la Torre asked if the new American FactFinder web site will have the capability to click on an area on a map if a census tract number is not known. Jerry O'Donnell replied yes, it will have that functionality.

#### 5. Arizona Department of Commerce Update

Anubhav Bagley presented information on the July 1, 2010 population estimate methodology. He stated that the Arizona Department of Commerce is going to produce a provisional number as required by State law and that number will be revised twice when the State control total is released and again when the P.L. 94-171 file is released.

Anubhav Bagley explained that the population estimates needs to go through the MAG committee process. He said this means that the POPTAC Ad Hoc Subcommittee and the full POPTAC need to hold a meeting next week to recommend approval of the July 1, 2010 population estimates to the MAG Management Committee which will meet November 10, 2010. Heidi Bickart gathered responses of meeting attendees as to their availability for a brief audio conference-based meeting on Tuesday November 2, 2010 at 10 a.m. She noted that POPTAC quorum is 15 members. She received 15 affirmations to attend an audio conference next Tuesday. She said a POPTAC agenda will be sent this week and phone calls will be made a day prior to the meeting to confirm quorum.

#### 6. Data Collection Timeline

Heidi Bickart referred members to revised Attachment One, a schedule for the collection of data for the next 6 months. Ongoing data collection efforts include land use information, employment and residential completions. She noted that Attachment One has been revised. She said that the revision includes updates to the MAG due date column. She asked the POPTAC if they had any suggestions or changes to the document as it is a work-in-progress. She said the purpose of the document is to alert them to the MAG schedule of data collection.

## 7. MAG Housing Analysis

Peter Burnett said MAG staff has created a project page on the MAG web site that contains maps on valley foreclosures: <http://www.azmag.gov/Projects/Project.asp?CMSID=3554>. This data is from The Information Market. He said MAG staff will continue to produce the maps and analysis on a quarterly basis. He said the first map shows the number of foreclosed properties as of September 2010 is 20,102. He said the next map shows a total of 39,047 properties that are pending foreclosure, meaning they have been sent a letter of foreclosure. He said the third map shows a combination of foreclosed properties and pending foreclosures and that total is at 59,149. The number from June 2010 that was last reported was at 57,180, so there was a 3.4% increase. The line graph on this next slide shows the foreclosure activity that MAG has been tracking since April of 2009. The green line at the top is the combination of actual foreclosed and pending foreclosure. The blue line is pending, and the red is actual foreclosures. Mr. Burnett presented a line graph that showed as pending foreclosures are decreasing, actual foreclosures are increasing. He noted the overall trend of distressed properties since April of 2009 has stayed steady.

Peter Burnett said MAG staff also analyzed residential housing data from the Maricopa County assessor. He presented this analysis in tables at the meeting. The first table shows the average square feet of single family homes shown by year the housing unit was constructed and shown by each jurisdiction. The first column is the current average square feet regardless of when the housing unit was constructed. The bottom row is the overall county average, and the graph on the screen represents those numbers and shows the overall upward trend for the size of homes.

Mr. Burnett said the next table and graph show the percent of single family homes that have pools. This is shown by city and by the years that the housing unit was constructed. He noted that it is interesting to see how the percentages of homes with pools have gone down over the years.

Peter Burnett reminded that the quarter three residential completions are due to MAG by November 1, 2010.

## 8. Central Phoenix Framework Study

Tim Strow provided an update of the MAG Central Phoenix Framework Study which is the latest in a series of long range planning studies done by MAG. He said this study's goal is to develop an environmentally sustainable multimodal transportation network, to determine and prioritize capacity, operational and safety improvements, and form a framework for regional connections and roadways within the study area.

Tim Strow said a draft Central Phoenix Buildout for the study area comprising dwelling units, population and employment was sent out for review to MAG member agencies in the study area.

## 9. Regional Updates

Anubhav Bagley said that unfortunately MAG did not receive the HUD sustainability planning grant. He noted that MAG will be meeting with HUD to learn what we could have done to be more competitive in the grant selection in the future.

10. Next Meeting of MAG POPTAC

Chairman Jim Bacon said the next meeting of the MAG POPTAC scheduled for Tuesday, November 23, 2010 will be canceled. Mr. Bacon noted that MAG POPTAC will hold an audio conference meeting Tuesday November 2, 2010 at 10:00 a.m. to recommend approval of the July 1, 2010 population estimates. The meeting adjourned at 11:45 a.m.

**PROVISIONAL JURISDICTION POPULATION UPDATE  
2005 CENSUS SURVEY and JULY 1, 2010**

Jurisdiction	Total Population			Percent Growth		Share	
	September 1, 2005 (Census Survey)	July 1, 2010	Change	Overall	Annual	Share of Growth	Share of County
Apache Junction *1 *2	275	276	1	0.4%	0.1%	0.0%	0.0%
Avondale	69,356	81,671	12,315	17.8%	3.4%	3.6%	2.0%
Buckeye	25,406	52,315	26,909	105.9%	16.1%	7.9%	1.3%
Carefree	3,684	3,968	284	7.7%	1.5%	0.1%	0.1%
Cave Creek	4,766	5,219	453	9.5%	1.9%	0.1%	0.1%
Chandler	230,845	246,172	15,327	6.6%	1.3%	4.5%	6.1%
El Mirage	32,061	33,566	1,505	4.7%	1.0%	0.4%	0.8%
Fort McDowell *1	824	824	0	0.0%	0.0%	0.0%	0.0%
Fountain Hills	24,492	26,075	1,583	6.5%	1.3%	0.5%	0.6%
Gila Bend	1,808	1,897	89	4.9%	1.0%	0.0%	0.0%
Gila River *1 *2	2,742	2,742	0	0.0%	0.0%	0.0%	0.1%
Gilbert	173,072	219,681	46,609	26.9%	5.1%	13.6%	5.4%
Glendale	242,369	248,683	6,314	2.6%	0.5%	1.8%	6.2%
Goodyear	46,213	65,178	18,965	41.0%	7.4%	5.5%	1.6%
Guadalupe	5,555	5,980	425	7.7%	1.5%	0.1%	0.1%
Litchfield Park	4,528	5,118	590	13.0%	2.6%	0.2%	0.1%
Mesa	448,096	462,133	14,037	3.1%	0.6%	4.1%	11.4%
Paradise Valley	13,863	14,761	898	6.5%	1.3%	0.3%	0.4%
Peoria *2	138,109	159,073	20,964	15.2%	3.0%	6.1%	3.9%
Phoenix	1,475,834	1,579,162	103,328	7.0%	1.4%	30.1%	39.1%
Queen Creek *2	15,916	25,405	9,489	59.6%	10.2%	2.8%	0.6%
Salt River *1	6,796	6,944	148	2.2%	0.4%	0.0%	0.2%
Scottsdale	234,752	243,960	9,208	3.9%	0.8%	2.7%	6.0%
Surprise	88,265	109,343	21,078	23.9%	4.5%	6.2%	2.7%
Tempe	165,796	178,567	12,771	7.7%	1.5%	3.7%	4.4%
Tolleson	6,498	6,913	415	6.4%	1.3%	0.1%	0.2%
Wickenburg	6,077	6,436	359	5.9%	1.2%	0.1%	0.2%
Youngtown	6,163	6,456	293	4.8%	1.0%	0.1%	0.2%
Balance of County	226,355	244,729	18,374	8.1%	1.6%	5.4%	6.1%
<b>Total</b>	<b>3,700,516</b>	<b>4,043,247</b>	<b>342,731</b>	<b>9.3%</b>	<b>1.8%</b>	<b>100.0%</b>	<b>100.0%</b>

\*1 Included in "Balance of County" in 2005 Census Survey.

\*2 Maricopa County portion only.

Sources: U.S. Bureau of the Census Year 2005 Census Survey, Arizona Department of Commerce, Maricopa Association of Governments

**PROVISIONAL MUNICIPALITY POPULATION AND HOUSING UNIT UPDATE**

**SEPTEMBER 1, 2005 and JULY 1, 2010  
MARICOPA ASSOCIATION OF GOVERNMENTS**

Jurisdiction	Year 2005 Census Survey (September 1, 2005)							September 2, 2005 - June 30, 2010				Provisional July 1, 2010 Update					Jurisdiction	
	Population			Housing Units		Occupancy Rate	Persons per Occupied Units	Residential Completions	Residential Demolitions	Annexed Housing Units	Change in Group Quarters	Total Housing Units	Occupancy Rate	Effective Pers. Per Occ. Unit	Population			
	Total	Household	Group Quarter	Total	Occupied										Household	Group Quarter		Total
Apache Junction *1 *2	275	275	0	328	163	0.49695	1.68712	1	0	0	0	329	0.49695	1.68667	276	0	276	Apache Junction *1 *2
Avondale	69,356	69,182	174	22,510	21,468	0.95371	3.22256	4,400	29	6	33	26,887	0.95371	3.17693	81,464	207	81,671	Avondale
Buckeye	25,406	20,557	4,849	7,262	6,506	0.89590	3.15970	10,198	0	61	395	17,521	0.89590	2.99876	47,071	5,244	52,315	Buckeye
Carefree	3,684	3,684	0	2,180	1,724	0.79083	2.13689	148	0	0	56	2,328	0.79083	2.12507	3,912	56	3,968	Carefree
Cave Creek	4,766	4,761	5	2,228	2,021	0.90709	2.35576	252	21	4	-5	2,463	0.90709	2.33621	5,219	0	5,219	Cave Creek
Chandler	230,845	229,288	1,557	86,927	83,640	0.96219	2.74137	6,295	88	11	353	93,145	0.96219	2.72545	244,262	1,910	246,172	Chandler
El Mirage	32,061	31,988	73	10,192	9,478	0.92995	3.37497	560	31	0	-11	10,721	0.92995	3.36049	33,504	62	33,566	El Mirage
Fort McDowell *1	824	824	0	275	231	0.84000	3.56710	0	0	0	0	275	0.84000	3.56710	824	0	824	Fort McDowell *1
Fountain Hills	24,492	24,321	171	12,243	10,777	0.88026	2.25675	829	0	0	79	13,072	0.88026	2.24430	25,825	250	26,075	Fountain Hills
Gila Bend	1,808	1,808	0	702	593	0.84473	3.04890	17	0	21	0	740	0.84473	3.03528	1,897	0	1,897	Gila Bend
Gila River *1 *2	2,742	2,697	45	695	639	0.91942	4.22066	0	0	0	0	695	0.91942	4.22066	2,697	45	2,742	Gila River *1 *2
Gilbert	173,072	172,836	236	58,856	56,984	0.96819	3.03306	14,379	64	2,718	941	75,889	0.96819	2.97384	218,504	1,177	219,681	Gilbert
Glendale	242,369	238,406	3,963	87,491	84,407	0.96475	2.82448	2,543	8	3	0	90,029	0.96475	2.81755	244,720	3,963	248,683	Glendale
Goodyear	46,213	43,152	3,061	16,631	15,334	0.92201	2.81414	7,628	2	52	776	24,309	0.92201	2.73682	61,341	3,837	65,178	Goodyear
Guadalupe	5,555	5,552	3	1,208	1,174	0.97185	4.72913	102	0	0	-3	1,310	0.97185	4.69710	5,980	0	5,980	Guadalupe
Litchfield Park	4,528	4,461	67	2,132	1,869	0.87664	2.38684	306	0	0	5	2,438	0.87664	2.36078	5,046	72	5,118	Litchfield Park
Mesa	448,096	442,269	5,827	192,516	165,502	0.85968	2.67229	6,266	50	275	422	199,007	0.85968	2.66471	455,884	6,249	462,133	Mesa
Paradise Valley	13,863	13,816	47	5,640	5,069	0.89876	2.72559	400	0	0	3	6,040	0.89876	2.70988	14,711	50	14,761	Paradise Valley
Peoria *2	138,109	135,247	2,862	51,674	49,190	0.95193	2.74948	8,779	6	0	0	60,447	0.95193	2.71477	156,211	2,862	159,073	Peoria *2
Phoenix	1,475,834	1,446,542	29,292	544,804	522,180	0.95847	2.77020	43,181	946	389	0	587,428	0.95847	2.75271	1,549,870	29,292	1,579,162	Phoenix
Queen Creek *2	15,916	15,676	240	4,895	4,635	0.94688	3.38209	3,180	0	2	185	8,077	0.94688	3.26618	24,980	425	25,405	Queen Creek *2
Salt River *1	6,796	6,746	50	2,636	2,058	0.78073	3.27794	52	0	0	26	2,688	0.78073	3.27242	6,868	76	6,944	Salt River *1
Scottsdale	234,752	232,456	2,296	115,943	105,226	0.90757	2.20911	5,148	163	0	83	120,928	0.90757	2.20119	241,581	2,379	243,960	Scottsdale
Surprise	88,265	87,775	490	39,606	33,707	0.85106	2.60406	10,459	62	14	12	50,017	0.85106	2.55691	108,841	502	109,343	Surprise
Tempe	165,796	159,112	6,684	70,290	67,889	0.96584	2.34371	4,238	132	0	4,285	74,396	0.96584	2.33246	167,598	10,969	178,567	Tempe
Tolleson	6,498	6,491	7	1,982	1,919	0.96821	3.38249	142	1	0	-7	2,123	0.96821	3.36295	6,913	0	6,913	Tolleson
Wickenburg	6,077	5,887	190	3,170	2,763	0.87161	2.13066	148	1	65	0	3,382	0.87161	2.11904	6,246	190	6,436	Wickenburg
Youngtown	6,163	5,822	341	2,719	2,574	0.94667	2.26185	79	1	0	141	2,797	0.94667	2.25636	5,974	482	6,456	Youngtown
Balance of County	226,355	224,566	1,789	113,771	100,369	0.88220	2.23740	13,789	25	-3,621	95	123,914	0.88220	2.22147	242,845	1,884	244,729	Balance of County
<b>Total</b>	<b>3,700,516</b>	<b>3,636,197</b>	<b>64,319</b>	<b>1,461,506</b>	<b>1,360,089</b>	<b>0.93061</b>	<b>2.67350</b>	<b>143,519</b>	<b>1,630</b>	<b>0</b>	<b>7,864</b>	<b>1,603,395</b>	<b>0.93061</b>	<b>2.66134</b>	<b>3,971,064</b>	<b>72,183</b>	<b>4,043,247</b>	<b>Total</b>

\*1 Included in "Balance of County" in 2005 Census Survey.

\*2 Maricopa County portion only.

Sources: U.S. Bureau of the Census Year 2005 Census Survey, Arizona Department of Commerce, Maricopa Association of Governments

## **Methodology for Preparing July 1, 2010 Municipality Population Updates**

### **1. Prepare Census Data**

Use the 2005 Census Survey as the Base, determine the September 1, 2005 household population, group quarter population, total housing units, occupied housing units, occupancy rates and population per occupied unit for total units for each jurisdiction.

### **2. Collect New Data**

Obtain the residential housing unit completions and demolitions for the time period from September 2, 2005 through June 30, 2010 from the MAG member agencies.

Obtain annexed and de-annexed housing unit data from member agencies. Determine population change from annexations/de-annexations using persons per occupied housing unit and occupancy rates.

Obtain July 1, 2010 group quarters population from survey of MAG member agencies.

### **3. Calculate July 1, 2010 Housing Units**

Calculate the July 1, 2010 housing stock by municipality by adding the net housing units (completions minus demolitions) and the net housing units annexed from step 2 above to the Census base.

### **4. Calculate July 1, Resident Population**

Calculate household population using the Housing Unit Method (HUM) by multiplying the housing stock from step 3 times the respective occupancy rates and persons per occupied unit by municipality.

The occupancy rate and persons per occupied unit by municipality were taken from the 2005 Census Survey to calculate the new household population.

Bench the residential population in households to the county control total for population in households from Arizona Department of Commerce (DOC) to obtain July 1, 2010 population in households. Benching is necessary when the MAG derived total population does not match the control total obtained from DOC. The control total is derived as the weighted average of the Housing Unit Method and the Composite Method. MAG benches its numbers by municipality by proportionately distributing the difference based on the change from the base Census population.

Calculate the total resident population for July 1, 2010 by adding the July 1, 2010 group quarter population from step 2 to the July 1 2010 household population.