

October 22, 2014

TO: Members of the MAG POPTAC Ad Hoc Subcommittee

FROM: Joshua Wright, Chair

SUBJECT: TRANSMITTAL OF MEETING NOTICE AND TENTATIVE AGENDA

Tuesday, October 28, 2014 – 9:00 a.m.
MAG Office, Second Floor, Chaparral Room
302 North 1st Avenue, Phoenix

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

Members of the subcommittee may attend either in person or by telephone conference call. If you are attending via audio conference please contact Merry Holmgren at (602) 254-6300 at least one day prior to the meeting.

If you drive to the meeting, please park in the garage under the building and bring your ticket to the meeting; parking will be validated. For those using transit, the Regional Public Transportation Authority 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 Merry Holmgren 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 4 people for the MAG POPTAC Ad Hoc Subcommittee. 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 Scott Wilken at (602) 254-6300.

TENTATIVE AGENDA
MAG Population Technical Advisory Committee Ad Hoc Subcommittee
October 28, 2014

1. Call to Order

2. Call to the Audience

An opportunity will be provided to members of the public to address the MAG POPTAC Ad Hoc Subcommittee 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 Ad Hoc Subcommittee 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 29, 2013.

4. Annual Population Estimates

a. Draft July 1, 2014 Maricopa County and Municipality Resident Population Updates and Methodology

Arizona Department of Administration (ADOA) is preparing the July 1, 2014 resident population updates for each county in the state. MAG has received a draft 2014 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 2010 Census as the base and housing unit data supplied and verified by MAG member agencies. These updates are needed by the Economic Estimates Commission.

2. For information.

3. For information, discussion and approval of the minutes of October 29, 2013.

4.

a. For information, discussion, and possible recommendation to the MAG POPTAC to approve the Draft July 1, 2014 Maricopa County and MAG Municipality Resident Population Updates, provided the Maricopa County control total is within one percent of the final control total.

Because there may be changes to the State and county control totals by ADOA, the MAG POPTAC Ad Hoc Subcommittee is requested to recommend approval of these updates to the MAG POPTAC provided the Maricopa County control total is within one percent of the final control total. See **Attachment One**.

- b. Maricopa County and Municipality Resident Population Updates Methodology Research

MAG staff will summarize research activities conducted in the past year on population update methods, will present suggestions for future research, and will solicit feedback and ideas from POPTAC Ad Hoc Subcommittee members on ways to improve population update methodologies.

- b. For information and discussion.

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
POPULATION TECHNICAL ADVISORY COMMITTEE AD HOC SUBCOMMITTEE

October 29, 2013
MAG Offices, Chaparral Room
302 N. 1st Ave, Phoenix

MEMBERS IN ATTENDANCE

Patrick Banger, Gilbert, Chair	*Wahid Alam, Mesa
Sam Andrea for David de la Torre, Chandler	Chris DePerro, Phoenix
Thomas Ritz, Glendale	A-Adam Yaron, Scottsdale
*Matt Holm, Maricopa County	*Sherri Lesser, Tempe

**Those members neither present nor represented by proxy.
A - Participated via audioconference*

OTHERS IN ATTENDANCE

Merry Holmgren, MAG	Sarah Murley, Applied Economics
Anubhav Bagley, MAG	Max Enterline, Phoenix
Scott Bridwell, MAG	Brett Burningham, Queen Creek
Jesse Ayers, MAG	Tom Doyle, El Mirage
Anubhav Bagley, MAG	Rodolfo Lopez, Maricopa
Vern Wolfley, MAG	A-Linda Edwards, Gilbert

1. Call to Order

Chair Patrick Banger called the meeting to order at 9:43 a.m.

2. Call to the Audience

There were no requests from the audience to address the MAG POPTAC Ad Hoc Subcommittee.

3. Approval of Minutes of June 25, 2013

Thomas Ritz made a motion to approve the minutes of June 25, 2013. Chris DePerro seconded the motion, and the motion passed unanimously.

4. Draft July 1, 2013 Maricopa County and Municipality Resident Population Updates and Methodology

Scott Bridwell presented the Draft July 1, 2013 Maricopa County and Municipality Resident Population Updates. He said that the updates start with the April 1, 2010 census count, but for some places and for the county balance, the figures have been adjusted by the Count Question Resolution. He said there was an increase in population of around 120,000, with roughly half coming in the past year. He said the methodology that was applied was the same as last year. He said a county-level total was derived using the Composite Method, which breaks the different cohorts into components and looks for proxies that can be measured over time to represent change in the cohorts. He said the county-level figure is then distributed to the place level, using changes in housing counts, group quarters, and any annexations that included housing units. He discussed the different proxies that are used for the different cohorts, including births for 0-5 years old, school enrollment for 6-18, active driver's licenses for 18-64, and an average of Social Security enrollment and Medicare enrollment for 65 and over. Chris DePerro asked if, along with active driver's licenses, if non-driver IDs are used. Anubhav Bagley said that for that cohort, only active driver's license figures are used. He said there is a problem with the dataset, however, in that there are adjustments that need to be made at a later date as new information is provided by Arizona Motor Vehicle Services. Scott Bridwell discussed some potential new data sources that could help overcome some of the shortcomings of the data sources that are used now, as well as ways to improve the existing data sources. Anubhav Bagley said that staff is asking the POPTAC Ad Hoc subcommittee to recommend approval to the full POPTAC, as long as the control total is within one percent of the final county-level control total.

Thomas Ritz asked about the rest of the MAG approval process. Anubhav Bagley said that this would go to POPTAC after the Ad Hoc meeting, then to MAG Management Committee on November 6, 2013, then to MAG Regional Council on December 4, 2013.

Chris DePerro made a motion to recommend approval of the draft July 1, 2013 Maricopa County and Municipality Resident Population Updates provided the Maricopa County control total is within one percent of the final control total. Thomas Ritz seconded the motion and the motion passed unanimously.

The meeting adjourned at 9:57 am.

DRAFT
Jurisdiction Population Update
(Maricopa County)
Census 2010 and July 1, 2014

Jurisdiction	Total Population			Percent Change		Share	
	April 1, 2010 (Census 2010)	July 1, 2014	Change	Overall	Annual	Share of Growth	Share of County
Apache Junction*	294	300	6	2.0%	0.48%	0.0%	0.0%
Avondale	76,238	78,018	1,780	2.3%	0.54%	0.9%	1.9%
Buckeye	50,876	58,745	7,869	15.5%	3.44%	4.2%	1.5%
Carefree	3,363	3,450	87	2.6%	0.60%	0.0%	0.1%
Cave Creek	5,015	5,349	334	6.7%	1.53%	0.2%	0.1%
Chandler^	236,326	249,193	12,867	5.4%	1.26%	6.8%	6.2%
El Mirage	31,797	32,826	1,029	3.2%	0.75%	0.5%	0.8%
Fort McDowell	971	990	19	2.0%	0.46%	0.0%	0.0%
Fountain Hills	22,489	23,069	580	2.6%	0.60%	0.3%	0.6%
Gila Bend	1,922	1,959	37	1.9%	0.45%	0.0%	0.0%
Gila River*	2,994	3,056	62	2.1%	0.48%	0.0%	0.1%
Gilbert^	208,352	235,276	26,924	12.9%	2.90%	14.3%	5.9%
Glendale	226,721	232,468	5,747	2.5%	0.59%	3.1%	5.8%
Goodyear	65,275	74,678	9,403	14.4%	3.22%	5.0%	1.9%
Guadalupe	5,523	6,078	555	10.0%	2.28%	0.3%	0.2%
Litchfield Park	5,476	5,887	411	7.5%	1.72%	0.2%	0.1%
Mesa	439,041	455,150	16,109	3.7%	0.85%	8.6%	11.4%
Paradise Valley	12,820	13,444	624	4.9%	1.12%	0.3%	0.3%
Peoria*	154,058	163,682	9,624	6.2%	1.44%	5.1%	4.1%
Phoenix^	1,447,128	1,505,070	57,942	4.0%	0.93%	30.8%	37.6%
Queen Creek*	25,912	31,279	5,367	20.7%	4.53%	2.9%	0.8%
Salt River	6,289	6,551	262	4.2%	0.96%	0.1%	0.2%
Scottsdale	217,385	225,490	8,105	3.7%	0.87%	4.3%	5.6%
Surprise	117,517	123,682	6,165	5.2%	1.21%	3.3%	3.1%
Tempe	161,719	169,384	7,665	4.7%	1.10%	4.1%	4.2%
Tolleson	6,545	6,771	226	3.5%	0.80%	0.1%	0.2%
Wickenburg	6,363	6,578	215	3.4%	0.78%	0.1%	0.2%
Youngtown	6,156	6,409	253	4.1%	0.95%	0.1%	0.2%
Balance of County^	272,552	280,168	7,616	2.8%	0.65%	4.1%	7.0%
Total	3,817,117	4,005,000	187,883	4.9%	1.14%	100.0%	100.0%

Note: Totals may not add due to rounding

* Maricopa County portion only

^ Census 2010 counts adjusted to reflect Census Count Question Resolutions

Sources: U.S. Census Bureau, Arizona State Demographer's Office, Maricopa Association of Governments

Last updated October 21, 2014

DRAFT Municipality Population and Housing Unit Update (Maricopa County)

April 1, 2010 and July 1, 2014
Maricopa Association of Governments

Jurisdiction	Census 2010 (April 1, 2010)							April 1, 2010 - June 30, 2014					July 1, 2013 Update		July 1, 2014 Update			Jurisdiction	
	Population			Housing Units		Occupancy Rate	Persons per Occupied Units	Residential Completions	Residential Demolitions	Annexed Housing Units	Annexed Household Population	Change in Group Quarters	Housing Units	Population	Total Housing Units	Population			
	Total	Household	Group Quarter	Total	Occupied											Household	Group Quarter		Total
Apache Junction*	294	294	0	293	210	71.67%	1.40000	0	0	0	0	0	293	298	293	300	0	300	Apache Junction*
Avondale	76,238	76,078	160	27,001	23,386	86.61%	3.25314	113	14	0	0	-24	27,082	77,511	27,100	77,882	136	78,018	Avondale
Buckeye	50,876	45,782	5,094	18,207	14,424	79.22%	3.17402	2,410	0	8	16	386	19,905	56,460	20,625	53,265	5,480	58,745	Buckeye
Carefree	3,363	3,316	47	2,251	1,654	73.48%	2.00484	14	0	0	0	0	2,261	3,424	2,265	3,403	47	3,450	Carefree
Cave Creek	5,015	5,015	0	2,579	2,150	83.37%	2.33256	117	3	1	0	0	2,648	5,228	2,694	5,349	0	5,349	Cave Creek
Chandler^	236,326	235,780	546	94,472	86,992	92.08%	2.71036	3,160	52	7	22	-18	96,966	246,197	97,587	248,665	528	249,193	Chandler^
El Mirage	31,797	31,784	13	11,326	9,416	83.14%	3.37553	140	1	0	0	0	11,407	32,472	11,465	32,813	13	32,826	El Mirage
Fort McDowell	971	971	0	308	283	91.88%	3.43110	0	0	0	0	0	308	984	308	990	0	990	Fort McDowell
Fountain Hills	22,489	22,307	182	13,167	10,339	78.52%	2.15756	75	0	0	0	0	13,217	22,893	13,242	22,887	182	23,069	Fountain Hills
Gila Bend	1,922	1,922	0	943	664	70.41%	2.89458	0	0	0	0	0	943	1,948	943	1,959	0	1,959	Gila Bend
Gila River*	2,994	2,984	10	835	748	89.58%	3.98930	1	0	0	0	0	836	3,038	836	3,046	10	3,056	Gila River*
Gilbert^	208,352	208,048	304	74,870	69,335	92.61%	3.00062	7,603	12	2	5	0	80,195	227,603	82,463	234,972	304	235,276	Gilbert^
Glendale	226,721	223,464	3,257	90,505	79,114	87.41%	2.82458	665	26	0	0	-310	91,036	231,109	91,144	229,521	2,947	232,468	Glendale
Goodyear	65,275	61,447	3,828	25,027	21,491	85.87%	2.85920	2,980	3	0	0	235	27,163	72,275	28,004	70,615	4,063	74,678	Goodyear
Guadalupe	5,523	5,508	15	1,376	1,292	93.90%	4.26316	85	0	0	0	0	1,455	6,019	1,461	6,063	15	6,078	Guadalupe
Litchfield Park	5,476	5,439	37	2,716	2,263	83.32%	2.40345	147	3	0	0	0	2,813	5,759	2,860	5,850	37	5,887	Litchfield Park
Mesa	439,041	435,503	3,538	201,173	165,374	82.20%	2.63344	2,844	49	372	494	430	203,491	450,310	204,340	451,182	3,968	455,150	Mesa
Paradise Valley	12,820	12,789	31	5,643	4,860	86.12%	2.63148	145	0	0	0	0	5,751	13,282	5,788	13,413	31	13,444	Paradise Valley
Peoria*	154,058	152,831	1,227	64,814	57,454	88.64%	2.66006	2,592	4	3	8	0	66,477	160,545	67,405	162,455	1,227	163,682	Peoria*
Phoenix^	1,447,128	1,425,390	21,738	590,612	515,208	87.23%	2.76663	10,540	568	5	18	4,079	596,676	1,485,751	600,589	1,479,253	25,817	1,505,070	Phoenix^
Queen Creek*	25,912	25,896	16	8,394	7,569	90.17%	3.42132	1,484	0	0	0	0	9,214	29,048	9,878	31,263	16	31,279	Queen Creek*
Salt River	6,289	6,284	5	2,607	2,198	84.31%	2.85896	51	0	0	0	0	2,652	6,498	2,658	6,546	5	6,551	Salt River
Scottsdale	217,385	216,226	1,159	124,001	101,273	81.67%	2.13508	2,207	69	0	0	-24	124,985	222,213	126,139	224,355	1,135	225,490	Scottsdale
Surprise	117,517	117,243	274	52,586	43,272	82.29%	2.70944	1,649	28	0	0	0	53,609	121,629	54,207	123,408	274	123,682	Surprise
Tempe	161,719	151,531	10,188	73,462	66,000	89.84%	2.29592	1,739	25	0	0	922	74,522	165,158	75,176	158,274	11,110	169,384	Tempe
Tolleson	6,545	6,545	0	2,169	1,959	90.32%	3.34099	34	1	0	0	0	2,169	6,632	2,202	6,771	0	6,771	Tolleson
Wickenburg	6,363	6,174	189	3,617	2,909	80.43%	2.12238	17	0	32	60	0	3,640	6,493	3,666	6,389	189	6,578	Wickenburg
Youngtown	6,156	5,953	203	2,831	2,470	87.25%	2.41012	65	0	0	0	0	2,831	6,236	2,896	6,206	203	6,409	Youngtown
Balance of County^	272,552	271,436	1,116	141,494	117,276	82.88%	2.31451	1,409	3	-430	-623	0	142,106	277,846	142,470	279,052	1,116	280,168	Balance of County^
Total	3,817,117	3,763,940	53,177	1,639,279	1,411,583	86.11%	2.66647	42,286	861	0	0	5,676	1,666,651	3,944,859	1,680,704	3,946,147	58,853	4,005,000	Total

Note: Totals may not add due to rounding

* Maricopa County portion only

^ Census 2010 counts adjusted to reflect Census Count Question Resolutions

Sources: U.S. Census Bureau, Arizona State Demographer's Office, Maricopa Association of Governments

Last updated October 21, 2014

See attached document for methodology

Methodology for Preparing July 1, 2014 Municipality Population Updates

1. Prepare Census Data

Using the Census 2010 as the Base, determine the April 1, 2010 household population, group quarter population, total housing units, occupied housing units, occupancy rates and population per occupied unit for total units for each jurisdiction. Adjust the original census counts to reflect results of the Census Count Question Resolution (CQR) Program.

2. Collect New Data

Obtain the residential housing unit completions and demolitions for the time period from July 1, 2013 through June 30, 2014 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 household and occupancy rates from the Census 2010 blocks intersecting each annexed/de-annexed area.

Obtain July 1, 2014 group quarters population from survey of MAG member agencies. Subtract the April 1, 2010 group quarter count from the July 1, 2014 to obtain the change in group quarter population.

3. Calculate July 1, 2014 Housing Units

Calculate the July 1, 2014 total 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 change in the household population using the Housing Unit Method (HUM) by multiplying the annual change in the housing stock of non-annexed units by the respective occupancy rates and persons per occupied unit by municipality and adding this to the annexed population for each municipality. The occupancy rate and persons per occupied unit by municipality were taken from Census 2010 to calculate the new household population.

Calculate the total household population by adding the change in household population to the estimated household population for the previous year.

Bench the residential population in households to the county control total for population in households from Arizona State Demographer's Office (SDO) to obtain July 1, 2014 population in households. Benching is necessary when the MAG derived total population does not match the control total obtained from SDO. The household population difference is distributed proportional to the pre-beneched household population results for July 1, 2014.

Calculate the total resident population for July 1, 2014 by adding the July 1, 2014 group quarter population from step 2 to the July 1, 2014 household population.