

February 8, 2005

TO: Members of the MAG Population Technical Advisory Committee

FROM: George Pettit, Gilbert, Chair

SUBJECT: TRANSMITTAL OF MEETING NOTICE AND TENTATIVE AGENDA

Tuesday, February 15, 2005 - **9:00 a.m.**  
MAG Office, Suite 200, **Cholla 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. **Please note that the meeting will be held in the Cholla Room rather than the Saguaro Room.**

Members of the POPTAC may attend either in person, by telephone conference call or by videoconference. To videoconference to the meeting, prior arrangements need to be made with Heidi Pahl at MAG and or your site coordinator. Those attending by telephone conference call are requested to call 602-261-7510 between 8:55 a.m. and 9:00 a.m. After prompting, please enter the meeting ID number 767822 (POPTAC) on your telephone key pad followed by the pound sign. If you have a problem or require assistance, please dial 0 after calling the number above.

If you are driving, please park in the garage under the Compass Bank 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 Harry Wolfe 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 13 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 Harry Wolfe at (602) 254-6300.

TENTATIVE AGENDA

COMMITTEE ACTION REQUESTED

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 not to exceed a three minutes for their comments. A total of 15 minutes will be provided for the Call to the Audience agenda item, unless the Chair of the POPTAC requests 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 January 18, 2005

4a. Development of Maricopa County Projections

Executive Order 95-2 requires that official population projections be prepared every five years. DES staff presented a draft set of projections at the January 28, 2005 DES POPTAC meeting. DES staff indicated that they would be developing a refined draft, which has not yet been received. Once approved, the county projections will become the control total for the subregional projections prepared by MAG. A status report will be provided.

4b. Status Report on MAG Subregional Projections

MAG staff are currently working on the development of subregional projections. As a part of the projections process member agency knowledge is solicited and constraints are also applied for open space, flood plains, steep slopes and water. As has been done in the past, MAG will be forwarding a letter to members of the Management Committee asking them to confirm that they have or will have enough water to support their population growth. If there is not

2. For information.

3. For information, discussion and approval of the minutes of January 18, 2005.

4a. For information, discussion and possible action.

4b. For information and discussion.

enough water, the Manager will be asked to provide the maximum population the current and anticipated water supply will support by 2030.

4c. Approval of Additional Assumption for the 2005 MAG Socioeconomic Projections

At the January 2005 meeting of the MAG POPTAC a set of assumptions were approved for use in developing a new set of socioeconomic projections. An additional assumption that will be need to be approved pertains to the method for projecting post high school enrollment. The MAG POPTAC Ad Hoc Subcommittee will be making a recommendation on the assumption to the MAG POPTAC. Please see Attachment One.

4d. Review of 2000 and 2004 Base Data and 2004 Inventory Databases.

As a starting point for the preparation of subregional projections, MAG is posting population, housing and employment base data for 2000 and 2004 on the MAG IMS Website. In addition 2004 inventory databases for post high school enrollment, hotels/motels, and retirement areas are also being posted. Please review the data and provide any comments that you have by Thursday, February 24, 2005. In the near future buildout and net capacity projections will also be made available on the MAG Website. For instructions on how to access the website, please see Attachment Two.

5. 2005 Census Survey

MAG staff will provide an update on preparations for the 2005 Census Survey including media, recruitment, office space and the Census questionnaire. MAG staff will also review the homeless street count conducted last month.

A report will also be presented on a potential increase in the cost of the 2005 Census Survey and how MAG plans to work with member agencies to minimize any cost increases.

The Census Bureau has indicated that if MAG and MAG member agencies can provide certain geographic data and MAG can facilitate the collection of this data, costs of the 2005 census survey can be reduced.

4c. For information, discussion and approval of the recommendation of the MAG POPTAC Ad Hoc Subcommittee on the method for projecting post-high school enrollment.

4d. For information and discussion.

5. For information, discussion and possible action.

6. Assistance for Compiling a List of Group Quarters for the 2005 Census Survey

On February 1, 2005 MAG staff sent out a preliminary listing of Group Quarter facilities by jurisdiction. This list represents a starting point for updating Group Quarters and member agency representatives have been requested to make updates to the Group Quarters and return the updates to MAG by March 1, 2005. MAG will then forward the list to the Census Bureau for them to assemble a master list of Group Quarters. A status report will be provided.

7. Boundary and Annexation Survey (BAS)

The BAS was recently distributed to member agencies. This survey provides member agencies with an opportunity to update their corporate limits through the end of 2004. Having an updated set of corporate limits will be important for the September 1, 2005 Census Survey. Although a response to the Survey is not due until April 1, 2005, member agencies are strongly urged to complete this information as soon as possible to facilitate the inclusion of new corporate limits in the Census Bureau boundary file. A status report will be provided.

8. Recommendations for Streamlining the Data Collection and Dissemination Process

In late 2004 the MAG POPTAC requested that MAG undertake a project to look into measures to streamline data collection and dissemination efforts for MAG member agencies. Member agencies are asked to provide a substantial amount of information to multiple agencies and the intent of the project is to minimize duplication of effort.

The first phase of the project focused upon the data needed to prepare the annual population estimates: residential completions, group quarters and annexations. A status report will be provided.

6. For information and discussion.

7. For information and discussion.

8. For information discussion and possible action.

9. 2005 Regional Report

On January 25, 2005 MAG released a Regional Report which presents an overview of the region and a tool for measuring the performance of the region on key indicators. Members of the MAG POPTAC provided a substantial amount of data which contributed to the success of the report. A video on the Regional Report will be presented at noon in the Saguaro Room. You are invited to attend and bring your own lunch. Cake will be provided.

10. Next Meeting of the MAG POPTAC

The next meeting of the MAG POPTAC is scheduled for Tuesday March 15, 2005 at 9:00 a.m.

9. For information and discussion.

10. For information and discussion.

MINUTES OF THE  
MARICOPA ASSOCIATION OF GOVERNMENTS  
POPULATION TECHNICAL ADVISORY COMMITTEE

January 18, 2005  
MAG Office, Suite 200, Saguaro Room  
302 North 1<sup>st</sup> Avenue  
Phoenix, Arizona

MEMBERS IN ATTENDANCE

George Pettit, Gilbert, Chairman  
\*Bryant Powell, Apache Junction  
\*Adrian Williamson, Avondale  
Phil Garthright, Buckeye  
\*Usama Abujbarah, Cave Creek  
Sam Andreas for David de la Torre, Chandler  
Mark Smith, El Mirage  
Dana Burkhardt, Fountain Hills  
/ Bev Turner, Gila Bend  
\*Terry Yergan, Gila River Indian Community  
# Kate Langford, Glendale  
\* Janeen Gaskin, Goodyear

Gary Smith, Guadalupe  
\*Mike Cartsonis, Litchfield Park  
Wahid Alam, Mesa  
Gary Norris for Matt Holm, Maricopa County  
Prisila Ferreira, Peoria  
Max Enterline, Phoenix  
\*Shawney Ekadis, Queen Creek  
\* Harry Higgins, Scottsdale  
Stephanie Wilson, Surprise  
Hector Tapia, Tempe  
Mark Fooks, Youngtown  
\* Anne MacCracken, Valley Metro

\*Not in attendance

/ Participated via video conference

# Participated via audio conference

OTHERS IN ATTENDANCE

Max Enterline, Phoenix  
Anubhav Bagley, MAG  
Heidi Pahl, MAG

Elaine Trammell, MAG  
Harry Wolfe, MAG  
Steve Gross, MAG

1. Call to Order

The meeting was called to order by Chairman George Pettit at 9:05 a.m.

2. Call to the Audience

There were no requests to address the MAG POPTAC.

3. Approval of Meeting Minutes of November 16, 2004

It was moved by Max Enterline, and seconded by Karen Flores to approve the meeting minutes of November 16, 2004.

4a. Preparation of 2005 MAG Socioeconomic Projections

In June 2003 the MAG Regional Council approved MAG Interim Subregional Projections. These were interim because official updated DES projections were not available, and the Maricopa County projections used were based upon projections prepared on behalf of the Arizona Department of Commerce.

DES is developing draft 2005 county population projections. Once these County projections are approved and official, MAG will need to use them to prepare an official set of subregional projections. The time frame for preparing these projections is very tight because of the need to have them approved in time to be used for air quality conformity analysis.

County projections will need to be recommended by the MAG POPTAC in February and approved by the MAG Regional Council in March. Subregional projections will need to be recommended in April, and approved in May. Please see Attachment One.

4b. Review of Data Inputs for 2005 MAG Socioeconomic Projections

In order to prepare for the development of 2005 MAG subregional socioeconomic projections, MAG staff distributed to POPTAC members land use and development databases for review and comment. The databases were made available the week of December 13, 2004 and comments are due by January 21, 2005. These databases will be revised as necessary based on input received from MAG member agencies and will then be used as the base for the official 2005 socioeconomic projections. A status report will be provided.

4c. Review and Approval of Model Assumptions for 2005 MAG Socioeconomic Projections

The MAG Socioeconomic projections are based upon model assumptions. These assumptions pertain to the Floor Area Ratios, geography used, etc. etc. Attached is a set of model assumptions. These assumptions will be reviewed and the MAG POPTAC will be requested to approve them.

4d. Review Residential Completions to September 1, 2004

MAG has prepared an updated set of residential completions to September 1, 2004. These completions will be used in the projections process to ensure that known development is taken into account.

5. 2005 Census Survey

MAG staff will provide a status report on preparations for the 2005 Census Survey including media, recruitment, office space and outdoor locations.

6. Assistance for Compiling a List of Group Quarters for the 2005 Census Survey

The Census Bureau will be conducting a full count of population in group quarters along with its census survey of population in households. Member agencies are responsible for providing a preliminary list of group quarters to the Census Bureau by March and the final list by June 2005.

At the December meeting of the MAG POPTAC MAG staff offered to provide assistance to member agencies in compiling lists of Group Quarters. Using a variety of sources, MAG staff will be extracting a preliminary list of Group Quarters by local jurisdiction. This lists represent a starting point for transmitting Group Quarters data to the Census Bureau and will need to be reviewed and updated as necessary by member agencies. The process used to compile the list is described in Attachment Four.

7. Next Meeting of the MAG POPTAC

The next meeting of the MAG POPTAC is scheduled for Tuesday February 15, 2004 at 9:00 a.m.

## ATTACHMENT ONE

### Assumptions About Post Secondary Enrollment

- Post-secondary enrollment projections are a component of socioeconomic projections used to drive the travel demand model.
- A phone survey of post-secondary education providers was conducted to gather information on current enrollment and expansion plans. All institutions that require a high school diploma for admission and have at least 100 students were included in the survey.
- The Maricopa Community Colleges District provided total enrollment projections for 2005 to 2010.
- ASU provided its enrollment projections for 2000 through 2015. ASU estimates that current capacity enrollment will be reached by 2015. Distance learning students are not included in the projections.
- Based upon statewide findings, private colleges are projected to grow between 2 percent (traditional colleges) and 8 percent (non-traditional). The projected enrollment is capped at 25% increase over 2000 enrollment for tradition institutions, and a 50% increase over 2000 enrollment for non-traditional institutions.
- Student enrollment is also limited by the physical size of the campus.

*See also, attached paper (Paper 8) on Post Secondary Enrollment*

#### Recommendation Requested:

- Use the post-secondary enrollment projection methodology as identified in the accompanying paper (Paper 8), “Post-Secondary Enrollment.”

## PAPER 8

### POST-SECONDARY ENROLLMENT

Post-secondary enrollment projections are a component of socioeconomic projections required by the MAG travel demand model because of its potential impact on trip generation. This survey of post-secondary education providers was conducted to gather information on current enrollment and expansion plans. The methodology described here will produce estimates of post-secondary enrollment by institution for 2000 through 2030. The methodology used divides enrollment into four components—community colleges, public universities (ASU), traditional private colleges and non-traditional private colleges.

**Institution Survey:** As a first step in creating enrollment projections for Maricopa County, a phone survey of post-secondary education providers was conducted to gather information on enrollment and expansion plans. Ninety-one institutions of higher education in Maricopa County were identified. All institutions that require a high school diploma for admission, and have at least 100 students were included in the survey. These standards are consistent with earlier MAG post-secondary enrollment projections.

**Projections for Community Colleges:** The methodology for projecting community college enrollment combines historical participation rates by age cohort with projected population by age. In addition, information from the Maricopa Community College District about future expansion plans is also incorporated.

For the eleven existing campuses, detailed historical information was available about student enrollment by age cohort. Using such data, age-based participation rates were calculated.

The first step is to calculate participation rates by age for each campus. Since community colleges target students within approximately 10 miles from the campus, participation rates were calculated by dividing enrollment in each age cohort for a particular campus by population in that age cohort in the host MPA. In some cases, multiple smaller MPAs were combined.

Since MPA-level population is not projected by age, the county age distribution, which varies by year, was applied uniformly to all MPA-level population estimates for a given year. The results of this calculation yield a participation rate by age cohort by campus. These participation rates were then applied to projected population by MPA by age for the relevant geographic areas.

There are also several new community college sites that will come on line in the next 5 to 15 years. Information on projected enrollment and timing was obtained from the Facilities Department at the Maricopa Community Colleges District. Two sites are expected to reach 4,000 to 5,000 students by 2010. A third site is expected to build out between 2010 and 2020.

**Projections for Arizona State University:** The Office of Institutional Analysis at ASU was able to provide projected enrollment by campus through 2015, at which time capacity enrollment would be neared. Distance learning students were excluded from these enrollment figures.

**Projections for Private Colleges:** In order to project enrollment at private two and four-year colleges in Maricopa County, the methodology used in the statewide projections prepared for the Governor's Task Force on Higher Education was adopted. To apply this methodology, private colleges in the survey were divided into traditional and non-traditional schools. Non-traditional schools can generally be described as those that aggressively market to working adults and provide flexible class schedules and compressed instructional formats.

Based on the statewide findings on growth rates at private colleges in Arizona, traditional colleges are projected to grow at 2 percent per year, while non-traditional colleges are expected to grow at 8 percent per year. A further breakdown was done to calculate the growth rates during each five year period, that decrease over time from 2 to 0.4 percent annually for traditional schools, and 9 to 1 percent annually for non-traditional schools. These rates were then applied to current enrollment by institution to calculate the projections. The rates were trended forward through 2030, based on projected growth rates through 2020. However, for multi-campus non-traditional schools it is likely that they will open new campuses in the future rather than continue to grow indefinitely at existing sites. For this reason projected enrollment is capped at a 25 percent increase over the 2000 enrollment number for traditional institutions, and a 50 percent increase over the 2000 enrollment number for non-traditional institutions. Another factor that determines maximum projected enrollment is the physical size of the campus.

ATTACHMENT TWO

February 8, 2005

TO: Members of the MAG POPTAC

FROM: Don Worley, GIS Program Manager

SUBJECT: REVIEW OF BASE DATA AND INVENTORY FOR 2005 SOCIOECONOMIC PROJECTIONS

MAG is asking for a review of base data and inventory data which will be used as input into the next set of MAG socioeconomic projections. A description of the data to be reviewed and how to access it is described below. Please forward any comments on this data to me at [dworley@mag.maricopa.gov](mailto:dworley@mag.maricopa.gov) by February 24th, 2005.

**Base population, housing unit and employment data:**

Base population, housing unit and employment data for July 1, 2000 and July 1, 2004 may be reviewed at the MAG ArcIMS website at:

[http://ims.mag.maricopa.gov/website/mag\\_saz](http://ims.mag.maricopa.gov/website/mag_saz)

For base population and housing units, we are asking for your review of population in households, population in group quarters, housing units, and households (occupied housing units). For employment, we are providing the employment from our Year 2000 employer database, the Year 2000 total employment, the employment from our Year 2004 employer database, and the Year 2004 total employment. The 'Other' employment category includes work-at-home and construction employment. Because construction employment follows development, employment projections may show declines in future years. The 'work-at-home' numbers from the Year 2000 Census were not available when we did the July 2003 Interim Projections, however, that data is now available and was incorporated it into this dataset. Due to these two factors, you may notice variations in the 'other' employment category.

This data is by Socioeconomic Analysis Zone (SAZ). SAZs have the same geographic boundaries as Transportation Analysis Zones (TAZ), however, the SAZs include the entirety of Maricopa County.

When you open this site and agree to the disclaimer, the orange lines on the map represent the SAZ boundaries. You may then use the navigational tools, the selection tools, the reporting tools, and the thematic mapping tool to review the data. There are hints for using these tools in the user guide accessed by clicking on "Help". If you are using WindowsXP, you will need to allow pop-ups by disabling the pop-up blocking function. Click on "tools", "pop-up blocker", and then "turn of pop-up blocker".

### **Inventory datasets:**

The hotel/motel, post high school, and age restricted residential area inventory datasets may be reviewed at the MAG ArcIMS website at:

[http://ims.mag.maricopa.gov/website/mag\\_review](http://ims.mag.maricopa.gov/website/mag_review)

The inventory datasets are for the Year 2004. We are asking for your review of the location, name and number of rooms for the hotels/motels; the location, name and 2004 enrollment for the post high school institutions; and the location and name of age restricted residential areas.

When you open this site and agree to the disclaimer, click on the layer which you wish to review to make that layer active. You may then use the navigational tools, the identity tools, and the selection tools to review the data.

Please forward all comments on this data to me at [dworley@mag.maricopa.gov](mailto:dworley@mag.maricopa.gov) by February 24th, 2005. This data is draft and is for internal review only and should not be distributed outside of your jurisdiction. If you have any questions on the data or the use of the ArcIMS website, please feel free to call Don Worley or Mele Koneya at (602) 254-6300.