

January 9, 2004

TO: Members of the MAG Population Technical Advisory Committee

FROM: George Pettit, Gilbert, Chair

SUBJECT: TRANSMITTAL OF MEETING NOTICE AND TENTATIVE AGENDA

Tuesday, January 20, 2004 - 10:00 a.m.
MAG Office, Suite 200, Saguaro Room
302 North 1st 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 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 9:55 a.m. and 10:00 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 marking 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.

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 Anubhav Bagley 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.

COMMITTEE ACTION REQUESTED

2. For information.

Members of the public will be requested not to exceed a three minute time period 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. Please note that 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 November 18, 2003
4. July 1, 2003 Maricopa County and Municipality Resident Population Updates

On October 24, 2003 the DES POPTAC recommended approval of July 1, 2003 Resident Population Updates for the State of Arizona and its counties. The Update recommended for Maricopa County was 3,396,875. The MAG POPTAC, and Management Committee recommended and the Regional Council accepted a set of Resident Population Updates based on an estimated control total of 3.4 million County residents plus or minus one percent. As the DES control total was within the one percent margin, MAG revised the Municipality Resident Population Updates using the recommended control total of 3,396,875 for Maricopa County.

These Updates were approved by the DES POPTAC on December 5, 2003. The updates are used to distribute \$23 million annually in lottery funds, to prepare financial plans, to determine municipal per capita water use targets and to set expenditure limitations where necessary. Please see Attachment One.

5. Enhancements to the Population Estimates Process

During the preparation of the 2003 resident population estimates a number of issues arose regarding the methods used to prepare the estimates at the State and County level. Support was expressed for pursuing enhancements to the methods prior to the development of the 2004 estimates. In response to this recommendation, MAG has hosted two brainstorming sessions to

3. For information, discussion and approval of the minutes of November 18, 2003.
4. For information and discussion.

5. For information and discussion

generate ideas on enhancements to the estimates methodology. The results of these brainstorming sessions will be passed on to the Arizona Department of Economic Security for consideration. The next meeting of the DES Methodology Subcommittee and the DES POPTAC will be held on January 23, 2004. A status report will be provided. Please see Attachment Two.

6. Preparation of July 1, 2004 Resident Population Updates

___ In preparation for the development of 2004 Resident Population Updates, the Arizona Department of Economic Security (DES) has forwarded to the Manager of each MAG Member Agency a memo requesting that he/she designate a contact or contacts for providing information on annexations and residential permit completions. The forms for designating the contact(s) are attached. Please coordinate with your manager to ensure that the contact is designated and a filled-out version of this form forwarded to Samuel Colon of DES by Wednesday, January 28, 2004. Please see Attachment Three.

7. 2005 Census Survey

On December 5, 2003 the MAG Regional Council unanimously recommended that MAG conduct a 2005 Census Survey at an estimated cost of \$7.5 million. This cost also includes a full count of population in Group Quarters and a homeless count.

MAG staff will be working with the Bureau of the Census on preparations for the Census Survey. An agreement for the 2005 Census Survey needs to be signed with the Census Bureau by March of 2004. MAG staff will be conferring with the Bureau of the Census staff on the logistics of the survey and will provide a status report.

8. Preparation of DES County Population Projections

The last set of official DES State and County projections were adopted in February of 1997. DES has been awaiting the arrival of county to county migration data by single year of age from

6. For information and discussion.

7. For information and discussion.

8. For information and discussion.

Census 2000 to develop an updated set of resident population projections for counties in Arizona. At the December DES POPTAC meeting DES was requested to look into developing a contingency plan and schedule for developing estimates, It was also requested that the item be placed on the January DES POPTAC Agenda. A status report will be provided.

9. 2003 Aerial Mapping

MAG has purchased aerial imagery from Aerials Express with a license allowing us to provide one copy of the imagery to each of our member agencies at no additional cost. On January 6, 2004 MAG staff sent an e-mail to GIS representatives and POPTAC representatives of Member staff informing them that the aerials were available upon request after signing a licensing agreement. MAG staff will provide a status report.

10. Proposed Information Services (IS) Projects for the Fiscal Year (FY) 2005 MAG Unified Planning Work Program (UPWP)

MAG is assembling its draft FY 2005 MAG UPWP. The IS Division has proposed two new projects for FY 2005. One of the projects examines a new socioeconomic projections model – UrbanSim – and possibly partnering with the Pima Association of Governments and the Central Arizona Association of Governments on the development of an urban model incorporating the best features of SAM and UrbanSim. The other project collects additional socioeconomic variables for future socioeconomic modeling such as land values. MAG staff will discuss these projects and solicit input on them and other UPWP items from the MAG POPTAC.

11. MAG POPTAC Schedule for 2004

A tentative schedule of the MAG POPTAC meetings for 2004 has been prepared. Please see Attachment Four.

12. Next Meeting of the MAG POPTAC

The next meeting of the MAG POPTAC is scheduled for Tuesday February 17, 2003.

9. For information and discussion.

10. For information and discussion.

11. For information and discussion.

12. For information and discussion.

MINUTES OF THE
MARICOPA ASSOCIATION OF GOVERNMENTS
POPULATION TECHNICAL ADVISORY COMMITTEE

November 18, 2003
MAG Office, Suite 200, Cholla Room
302 North 1st Avenue
Phoenix, Arizona

MEMBERS IN ATTENDANCE

George Pettit, Gilbert, Chairman	*Horatio Skeete, Litchfield Park
John Petroff, Apache Junction	**Tom Ellsworth, Mesa
Adrian Williamson, Avondale	Matt Holm, Maricopa County
*Liz Zeller, Buckeye	Prisila Ferreira, Peoria
*Usama Abujbarah, Cave Creek	Tim Tilton, Phoenix
David de la Torre, Chandler	Dennis Cady for John Kross, Queen Creek
Shannon Campbell for Mark Smith, El Mirage	Harry Higgins, Scottsdale
Denise Lacey, Fountain Hills	*Scott Phillips, Surprise
*Terry Yergan, Gila River Indian Community	Ryan Levesque, Tempe
**Ron Short, Glendale	*Mark Fooks, Youngtown
**Janeen Gaskin, Goodyear	*Stuart Boggs, RPTA
*Gary Smith, Guadalupe	Anne MacCracken, Valley Metro
Lenore Lancaster for Paul Michaud, Paradise Valley	**Paula Loper, Gila Bend

*Those members neither present nor represented by proxy.

**Participated via audioconference

OTHERS IN ATTENDANCE

Sam Andrea, Chandler	Rita Walton, MAG
Mike Pierce, MAG	Mele Koneya, MAG
Anubhav Bagley, MAG	Seth Paine, MAG
David Williams, MAG	Tim Bolton, Peoria

1. Call to Order

The meeting was called to order at 10:00 a .m. by Chairman George Pettit.

2. Call to the Audience

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

3. Approval of Minutes of August 19, 2003

It was moved by Harry Higgins, seconded by Denise Lacey and unanimously recommended to approve the meeting minutes of September 23, 2003.

4. Preparation of July 1, 2003 Maricopa County Resident Population Update

Anubhav Bagley explained that on October 24, 2003 the DES POPTAC recommended approval of July 1, 2003 Resident Population Updates for the State of Arizona and its counties. The Update recommended for Maricopa County was 3,396,875. The MAG POPTAC, Management, and Management Committee recommended and the Regional Council accepted a set of Resident Population Updates based on an estimated control total of 3.4 million County residents plus or minus one percent. As the DES control total is within the one percent margin, MAG has revised the Municipality Resident Population Updates using the recommended control total of 3,396,875 for Maricopa County. The DES POPTAC will consider these updates for approval on December 5, 2003. The updates are used to distribute \$23 million annually in lottery funds, to prepare financial plans, to determine municipal per capita water use targets and to set expenditure limitations where necessary.

5. Population Options for 2005

George Pettit reported that on November 5, 2003 the MAG Management Committee recommended that MAG conduct a 2005 Census Survey at an estimated cost of \$9.4 million, with the costs distributed in accordance with a formula developed by the MAG Management Subcommittee on 2005 Population Options. There were two dissenting votes and two abstentions. Mr. Pettit indicated that the latest cost figures from the Census Bureau indicate a lower cost of the survey and that a compromise might be forthcoming. FHWA has indicated that the agency is still willing to provide half the cost of a survey up to \$6 million for the remaining jurisdictions. Furthermore, Dennis Smith and Harry Wolfe have been working with the communities and FHWA. FHWA has agreed to step forward and provide an additional amount to help address the concerns raised at the Management Committee.

6. Preparation of DES County Population Projections

Anubhav Bagley explained that the last set of official DES State and County projections were adopted in February of 1997. DES is currently awaiting the arrival of county-to-county migration data by single year of age from Census 2000 to develop an updated set of resident population projections for counties in Arizona. At a meeting last week DES indicated that this data may not be released by the Census Bureau. Harry Wolf and Anubhav Bagley will suggest to DES to look at developing a contingency plan at the next State POPTAC meeting in December.

7. Interactive Mapping on the MAG Website

Rita Walton gave a presentation on the use of the MAG interactive mapping application. The interactive mapping website is live and updated. This allows the user to adjust visible and active layers, calculate data, conduct queries, create reports, and conduct thematic mapping. She asked for input from POPTAC members on the kinds of reports and data they would like integrated into the website. The list of Census and MAG Regional Analysis Zone variables for use in thematic mapping on the website distributed at the meeting will also be sent to POPTAC members. For further questions members can contact Mele Koneya at mkoneya@mag.maricopa.gov.

8. Regional Annual Report and Developments of Regional Significance

Rita Walton reported that the MAG Planners Stakeholders Group in working with the Regional Development Division at MAG have been involved in two major projects – the Regional Annual Report and Analysis of Regionally Significant Development Projects. She introduced David Williams, MAG Associate working with the Regional Development Division on the Regional Annual Report.

David Williams gave a presentation on the Planners Stakeholders Group (PSG) Regional Annual Report for 2003. The goal of the PSG is to release a report as soon as possible in 2004. To test the data collection forms and procedures, data is currently being collected from three test cities (Phoenix, Gilbert, and Buckeye). Mr. Williams explained that data will need to be collected from various departments of the Cities and Towns and that help will be needed from POPTAC members.

Rita Walton provided a status report on the Regionally Significant Developments Project. The Regional Council has directed MAG to collect data on Regionally Significant Developments to provide balance information on the impact of developments on regional transportation. Information will be reviewed on general plans, amendments, specific area plans, and proposed developments. Regionally significant developments are defined as those developments capable of generating 20,000 average daily trips (equivalent to one freeway lane of traffic). Other criteria including size of the development were also mentioned. Local agencies will notify MAG to analyze developments. MAG will compile information and run the build out models with and without the development. The transportation model will be run to assess each development's contribution to congestion levels. This information will then be provided back to the city to help them in the planning process.

Ryan Levesque asked whether size threshold for consideration of a development as regionally significant would be in building square feet or in site acres. Rita explained that the criteria considered both the building square footage and the land area of the parcel.

Denise Lacey mentioned that Fountain Hills does not have a member at the Planners

Stakeholders Group. Rita suggested that Denise contact Jack Tomasik or Michelle Green to be included in the group.

Harry Higgins inquired if MAG POPTAC had a representative from the Salt River Pima Maricopa Indian Community. Ms. Walton informed him that all jurisdictions are invited to send representatives but some elect to only receive the information. Harry Higgins suggested that MAG should invite a representative of the Salt River Development Company to POPTAC since they are involved in the planning efforts at the Indian Community.

9. Regional Update

MAG POPTAC members provided status reports on activities in their jurisdictions.

10. Next Meeting of the MAG POPTAC

George Pettit indicated that the next meeting of the MAG POPTAC is scheduled for January 20, 2004.

The meeting adjourned at 10:45a.m.

ATTACHMENT ONE

July 1, 2003 Municipality Resident Population Updates

MARICOPA ASSOCIATION OF GOVERNMENTS
POPULATION BY JURISDICTION
2000 CENSUS AND JULY 1, 2003

Jurisdiction	Total Population			Percent Growth		Share	
	April 1, 2000 (Census)	July 1, 2003 (Draft)	Change	Overall	Annual	Share of Growth	Share of County
Apache Junction *	273	275	2	0.7%	0.2%	0.0%	0.0%
Avondale	35,883	53,925	18,042	50.3%	13.4%	5.6%	1.6%
Buckeye **	8,497	13,030	4,533	53.3%	14.1%	1.4%	0.4%
Carefree	2,927	3,220	293	10.0%	3.0%	0.1%	0.1%
Cave Creek	3,728	4,150	422	11.3%	3.4%	0.1%	0.1%
Chandler	176,581	208,450	31,869	18.0%	5.2%	9.8%	6.1%
El Mirage	7,609	25,330	17,721	232.9%	44.8%	5.5%	0.7%
Fountain Hills	20,235	22,105	1,870	9.2%	2.8%	0.6%	0.7%
Gila Bend	1,980	2,025	45	2.3%	0.7%	0.0%	0.1%
Gila River *	2,699	2,740	41	1.5%	0.5%	0.0%	0.1%
Gilbert	109,697	151,290	41,593	37.9%	10.4%	12.8%	4.5%
Glendale	218,812	230,610	11,798	5.4%	1.6%	3.6%	6.8%
Goodyear	18,911	30,290	11,379	60.2%	15.6%	3.5%	0.9%
Guadalupe	5,228	5,330	102	2.0%	0.6%	0.0%	0.2%
Litchfield Park	3,810	3,870	60	1.6%	0.5%	0.0%	0.1%
Mesa	396,375	434,215	37,840	9.5%	2.8%	11.7%	12.8%
Paradise Valley	13,664	14,215	551	4.0%	1.2%	0.2%	0.4%
Peoria *	108,363	126,410	18,047	16.7%	4.9%	5.6%	3.7%
Phoenix	1,321,045	1,387,670	66,625	5.0%	1.5%	20.5%	40.9%
Queen Creek *	4,197	7,360	3,163	75.4%	18.9%	1.0%	0.2%
Salt River	6,405	6,735	330	5.2%	1.6%	0.1%	0.2%
Scottsdale	202,705	217,555	14,850	7.3%	2.2%	4.6%	6.4%
Surprise	30,848	51,585	20,737	67.2%	17.1%	6.4%	1.5%
Tempe	158,625	159,615	990	0.6%	0.2%	0.3%	4.7%
Tolleson	4,974	5,415	441	8.9%	2.6%	0.1%	0.2%
Wickenburg	5,082	5,685	603	11.9%	3.5%	0.2%	0.2%
Youngtown	3,010	3,670	660	21.9%	6.3%	0.2%	0.1%
Unin-New River	10,740	11,005	265	2.5%	0.8%	0.1%	0.3%
Unin-Rio Verde	1,419	1,545	126	8.9%	2.7%	0.0%	0.0%
Unin-Sun City	38,309	38,635	326	0.9%	0.3%	0.1%	1.1%
Unin-Sun City West	26,344	26,345	1	0.0%	0.0%	0.0%	0.8%
Unin-Sun Lakes	11,936	13,140	1,204	10.1%	3.0%	0.4%	0.4%
Unin-Other	111,238	129,435	18,197	16.4%	4.8%	5.6%	3.8%
Total	3,072,149	3,396,875	324,726	10.6%	3.1%	100.0%	100.0%

* Maricopa County portion only

** Buckeye's growth rate from 2000 to 2003 resulted in part from the transfer of the Lewis Prison population. The Census Bureau had incorrectly assigned the prison population to the unincorporated area in the 2000 Census.

MAG is required to round the county resident population total to the nearest 25 persons and the municipality population to the nearest 5 persons.

Sources: U.S. Bureau of the Census Year 2000 Census, MAG Residential Completion database.

Prepared by the Maricopa Association of Governments, September 2003.

Approved by the MAG Regional Council, October 2003.

JULY 1, 2003 MUNICIPALITY POPULATION AND HOUSING UNIT UPDATE

TABLE 1

MARICOPA ASSOCIATION OF GOVERNMENTS

Jurisdiction	Year 2000 Census (April 1, 2000)					Net Units 4/01/2000 - 6/30/2003	Population from new Units	Annexations		July 1, 2003 Effective		July 1, 2003 Update			
	Population			Housing Units				Population	Housing Units	Pop. Per Occupied Unit	Occupancy Rate	Population		Total (Round to 5)	Total Housing Units
	Total	Household	Group Quarter	Total	Occupied							Household	Group Quarter		
Apache Junction *	273	273	0	328	163	0	0	0	0	1.67	0.50	273	0	275	328
Avondale	35,883	35,737	146	11,419	10,640	6,290	18,005	7	2	3.26	0.93	53,748	176	53,925	17,711
Buckeye	8,497	6,528	1,969	2,344	2,158	717	1,718	44	14	2.92	0.92	8,290	4,741	13,030	3,075
Carefree	2,927	2,927	0	1,769	1,389	194	295	0	0	2.10	0.78	3,222	0	3,220	1,963
Cave Creek	3,728	3,728	0	1,753	1,571	213	421	0	0	2.36	0.90	4,149	0	4,150	1,966
Chandler	176,581	175,799	782	66,592	62,377	13,213	30,991	533	188	2.77	0.94	207,323	1,125	208,450	79,993
El Mirage	7,609	7,608	1	3,162	2,121	5,588	17,717	5	5	3.51	0.82	25,330	0	25,330	8,760
Fountain Hills	20,235	20,228	7	10,491	8,653	887	1,704	0	0	2.33	0.83	21,932	171	22,105	11,378
Gila Bend	1,980	1,980	0	766	659	17	43	0	0	3.00	0.86	2,023	0	2,025	783
Gila River *	2,699	2,654	45	685	629	10	40	0	0	4.22	0.92	2,694	45	2,740	695
Gilbert	109,697	109,631	66	37,007	35,405	12,141	32,845	8,747	2,858	3.04	0.96	151,223	66	151,290	52,006
Glendale	218,812	215,955	2,857	79,667	75,700	4,833	11,778	15	5	2.84	0.95	227,748	2,864	230,610	84,505
Goodyear	18,911	16,541	2,370	6,771	6,179	4,784	10,942	0	0	2.60	0.91	27,483	2,805	30,290	11,555
Guadalupe	5,228	5,220	8	1,184	1,110	26	111	0	0	4.70	0.94	5,331	0	5,330	1,210
Litchfield Park	3,810	3,780	30	1,633	1,508	28	60	0	0	2.50	0.92	3,840	30	3,870	1,661
Mesa	396,375	392,426	3,949	175,701	146,643	15,270	36,619	1,222	432	2.67	0.84	430,267	3,949	434,215	191,403
Paradise Valley	13,664	13,652	12	5,499	5,034	243	551	0	0	2.70	0.92	14,203	12	14,215	5,742
Peoria *	108,363	106,849	1,514	42,570	39,183	7,564	17,991	0	0	2.70	0.92	124,840	1,568	126,410	50,134
Phoenix	1,321,045	1,298,577	22,468	495,832	465,834	27,056	65,550	61	21	2.78	0.94	1,364,188	23,482	1,387,670	522,909
Queen Creek *	4,197	4,197	0	1,229	1,172	1,009	3,070	0	0	3.41	0.95	7,267	94	7,360	2,238
Salt River	6,405	6,355	50	2,526	1,959	95	330	0	0	3.27	0.78	6,685	50	6,735	2,621
Scottsdale	202,705	201,028	1,677	104,974	90,669	8,167	14,334	4	2	2.20	0.86	215,366	2,190	217,555	113,143
Surprise	30,848	30,724	124	16,260	12,484	10,758	20,737	0	0	2.40	0.79	51,461	124	51,585	27,018
Tempe	158,625	153,383	5,242	67,068	63,602	462	950	0	0	2.41	0.95	154,333	5,280	159,615	67,530
Tolleson	4,974	4,974	0	1,485	1,432	251	442	0	0	3.30	0.94	5,416	0	5,415	1,736
Wickenburg	5,082	5,039	43	2,691	2,341	113	227	149	65	2.16	0.87	5,415	271	5,685	2,869
Youngtown	3,010	2,857	153	1,783	1,641	150	205	0	0	1.72	0.92	3,062	610	3,670	1,933
Unin-New River	10,740	10,695	45	4,514	3,921	124	266	0	0	2.72	0.87	10,961	45	11,005	4,638
Unin-Rio Verde	1,419	1,419	0	1,168	761	112	126	0	0	1.85	0.65	1,545	0	1,545	1,280
Unin-Sun City	38,309	37,641	668	27,731	23,490	258	328	0	0	1.60	0.85	37,969	668	38,635	27,989
Unin-Sun City West	26,344	26,083	261	17,359	14,997	0	0	0	0	1.74	0.86	26,083	261	26,345	17,359
Unin-Sun Lakes	11,936	11,936	0	7,746	6,683	842	1,205	0	0	1.78	0.86	13,141	0	13,140	8,588
Unin-Other	111,238	110,942	296	48,524	40,778	11,630	28,794	-10,786	-3,592	2.70	0.84	128,949	490	129,435	56,557
Total	3,072,149	3,027,366	44,783	1,250,231	1,132,886	133,045	318,392	0	0	2.67	0.91	3,345,758	51,117	3,396,875	1,383,276

Note: Totals may not add due to rounding.

* Maricopa County portion only.

Sources: U.S. Bureau of the Census Year 2000 Census, Arizona Department of Economic Security, Maricopa Association of Governments Residential Completion database.

Prepared by the Maricopa Association of Governments, September 2003.

Approved by the MAG Regional Council, October 2003.

ATTACHMENT TWO

Summary of Methodology Options for Resident Population Estimates

Prepared by Dr. Alberta Charney, University of Arizona
Based on Discussions at January 6, 2004 Population Estimates Brainstorming Session

Summary of Methodology Options

- I. State-level Composite Method
Serious attention has to be paid to developing a state-level Composite Method.
 - A. For Under 5.
 - i. Ratio of: 2000 Pop Under 5 / (sum of last 4-years births)
 1. Vital records data tend to be reliable and available by county. Do border counties have problems with non-residents' births? This could be a source of error.
 - B. For 5-17(18).
 - i. Ratio: 2000 5-17 Pop / School enrollment.
 1. Problems with School enrollment:
 - a. Numbers substantially smaller than comparable 2000 5-17 Census population
 - i. Difference bigger than growth between October count and Spring Census would suggest.
 - ii. Difference bigger than dropouts and home-schooling would suggest(?).
 - b. Harry's numbers different from Samuels.
 - i. Definition may be different (private vs. public)
 - ii. Even Samuel's larger numbers are considerably smaller than 2000 Census figures
 - ii. Alternatives?
 - C. For 18-65
 - i. Ratio of: 2000 18-65 Pop / Valid Drivers' Licenses for persons aged 18-65
 1. Problems with Valid Drivers' Licenses
 - a. Annual numbers bounce around prior to 2000. Without knowing why, very little confidence in future numbers.
 - ii. Alternatives?
 1. If drivers' license data is unusable, it is not clear how to estimate this huge population component. Possibilities include voter registration (could change depending on election cycle), housing units (too similar to housing method), tax returns (ratio of tax returns to population can change with changes in tax code)
 - D. For over 65.

- i. Ratio of 2000 Over 65 Pop / Medicare enrollees over 65 in 1999 * last year Medicare enrollees = current estimate of pop over 65.
 - 1. Problems with Medicare enrollees over 65.
 - a. Data lagged 1 year.
 - b. The portion over 65 has only been available since 1999, so may not be available in future.
 - ii. Ratio of 2000 Over 65 Pop / Drivers license holders over 65.
 - iii. Ratio of 2000 over 65-80 Pop / Drivers license holders over 65-80
 - iv. Ratio of 2000 over 80 Pop / 1999-2000 death rate for persons over 80 * number of persons over 80 who died
 - v. Combinations of (i) through (iv), or using different age “break-off” ages for drivers license and death rate. If drivers’ license data is poor or unavailable by age group, death rate could be substituted for whole Over 65 group.

E. Group Quarters.

- i. How is this dealt with? Many college kids from other states do not change their drivers’ licenses, yet college students are counted as “residents.” At the same time, we can’t add all college students back in because many are AZ residents who carry AZ drivers’ licenses. For 18-65, we could use Non-Group Quarter Pop 18-65 in the ratios so we can then add Group Quarter data back on?
- ii. Prisoners represent similar problems. Many would have valid drivers’ licenses, unless they’ve been incarcerated a very long time. Using Non-Group Quarter Pop 18-65 ratios, then adding GQ back on seems to make the most sense.

II. State-Level Component Method.

- A. Uses 2000 Population, adds births since 2000, subtracts deaths since 2000, adds change (+ or -) in group quarters, and adds net-migration.
 - i. How to estimate net-migration.
 - 1. Change in housing units * PPH
 - 2. Change in postal addresses * PPH
 - 3. Change in drivers’ licenses * ratio of pop:licenses in 2000
 - 4. Change in age-specific deaths (e.g., over 65) * Over 65 Pop in 2000 for over 65 net migration
 - a. Can be done for other age groups as well.
 - 5. Change in school enrollment * ratio of pop 5-17:enrollment in 2000
 - 6. Change in births * 2000 Pop in child-bearing years (18-45?)

III. County-Level Methods

- A. I recommend against a regression-based ratio-correlation method.
 - i. I improved on tradition ratio-correlation method a decade ago by using “change” in population in each county as a regression of

“change” in medicare enrollment by county, “change” ...[I don't remember what finally ended up in our old equations. Use of “change” in the methodology prevented pop estimates from having major jumps following the census year.

- ii. However, regressions tend to drive estimates “to the center”. Thus, counties that have very high medicare enrollment rates would be underestimated relative to counties that have very low medicare enrollment rates because the regression would estimate “an average.”
- B. If a ratio method is used, it should be directly based on formulas, rather than a regression. Thus, if state pop over 65 is being distributed across counties based on Medicare data, then each county should have different Medicare enrollment to Over 65 Pop ratios. These different enrollment rates should be directly applied, rather than relying on a regression-estimated coefficient.
- C. My own preference would be to use the same variables at the county level that are used at the state level. So if the state is estimated with a composite method using drivers licenses, school enrollment, birth rates, and Medicare enrollment, then it would be ideal to then share those estimated population pieces down to counties using comparable data sets. Similarly, if a births, deaths, net-migration component method is used, then the same variables used to estimate net-migration at the state level should be used to share down net-migration to counties (recognizing that each county's ratio may be different, based on 2000 data).
- i. Questions:
 - 1. If we can resolve school enrollment problems at the state level, how good are the data at the county level?
 - 2. Again, if we can resolved questions about drivers licenses at the state level, are the data available at the county level?
 - 3. Are drivers' licenses available by county, by age group?

ATTACHMENT THREE
DES CONTACT DESIGNATION FORMS



ARIZONA DEPARTMENT OF ECONOMIC SECURITY
1789 West Jefferson · P.O. Box 6123 · Phoenix, Arizona 85005-6123

Janet Napolitano
Governor

David A. Berns
Director

MEMORANDUM

TO: County, City & Town Political
Leaders/Administrators

FROM: Samuel Colón - 045Z
State Demographer for Estimates

DATE: January 7, 2004

SUBJECT: **Completions and Annexations Data Contact Request**

The Completions and Annexations data collection process will start on March 3, 2004. We need your assistance in providing us with the name and address of the person who is going to be the Completions and Annexations contact for your jurisdiction. These persons should be familiarized with the Completion and Annexation process, as they will be responsible for collecting and making sure the data get to us on time. Both the Completions and Annexation data are used in the Housing Unit Method to calculate your jurisdiction population estimates. *Please, let us know who is going to be your Completions and Annexations local contact by completing the attached forms. Other than the forms no other way of announcement will be accepted.* We need to have your completed forms by January 28, 2004.

Please return the completed forms and any questions or comments to:

Samuel A. Colon, State Demographer for Estimates
Population Statistics Unit, Site Code 045Z
Arizona Department of Economic Security
P. O. Box 6123
Phoenix, AZ 85005-6123
Telephone: (602) 542-5984
Fax: (602) 542-7425
E-Mail: samuel.colon@de.state.az.us

Thank you for your assistance.

ANNEXATIONS LOCAL CONTACTS

2004 POPULATION ESTIMATES

NAME: -----

ADDRESS 1: -----

ADDRESS 2: -----

CITY: -----

ZIP CODE: -----

TELEPHONE: -----

FAX: -----

E-MAIL: -----

Please return completed form by January 28, 2004 to:

Samuel Colon, State Demographer for Estimates
Population Statistics Unit, Site Code 045Z
PO Box 6123, Phoenix, AZ 85005-6123
Telephone: (602) 542-5984
Fax: (602): 542-7425
E-Mail: Samuel.colon@de.state.az.us

Thank you.

COMPLETIONS LOCAL CONTACTS

2004 POPULATION ESTIMATES

NAME: -----

ADDRESS 1: -----

ADDRESS 2: -----

CITY: -----

ZIP CODE: -----

TELEPHONE: -----

FAX: -----

E-MAIL: -----

Please return completed form by January 28, 2004 to:

Samuel Colon, State Demographer for Estimates
Population Statistics Unit, Site Code 045Z
PO Box 6123, Phoenix, AZ 85005-6123
Telephone: (602) 542-5984
Fax: (602): 542-7425
E-Mail: Samuel.colon@de.state.az.us

Thank you.

January 9, 2004

ATTACHMENT FOUR

TO: Members of the MAG POPTAC

FROM: Harry P. Wolfe, Socioeconomic Program Manager

SUBJECT: TENTATIVE 2004 MAG POPTAC AND AD HOC SUBCOMMITTEE MEETING SCHEDULE

Noted below is the tentative 2004 meeting schedule for the MAG Population Technical Advisory Committee (POPTAC) and the MAG POPTAC Ad Hoc Subcommittee. The meetings are scheduled to be held on the second Tuesday of each month in the Saguaro Room. All MAG POPTAC meetings are scheduled to begin at 10:00 a.m. unless notified otherwise.

January 20, 2004
February 17, 2004
March 16, 2004
April 20, 2004
May 18, 2004
June 15, 2004
July 20, 2004
August 17, 2004
September 21, 2004
October 19, 2004
November 16, 2004

MAG POPTAC Ad Hoc Subcommittee meetings are scheduled to be held on the same day as the MAG POPTAC meetings from 8:30 a.m. to 10:00 a.m. in the Saguaro Room. If you have any questions or need additional information, please contact me at (602) 254-6300.