# Macomb County Employees Retirement System 

## Actuarial Valuation as of December 31, 2015

March 2017

Conduent
123 North Wacker Drive
Suite 1000
Chicago, IL 60606
larry.langer@conduent.com
tel 312.846.3669
fax 312.846.3502

## Ladies and Gentlemen:

Macomb County retained Conduent HR Services (Conduent), formerly Buck Consultants at Xerox, to complete this actuarial valuation of the Macomb County Employees Retirement System. This report summarizes the actuarial valuation results of Macomb County Employees Retirement System as of December 31, 2015.

## Purpose of This Report

Conduent has prepared this report for Macomb County for use in review of the operation of the plan, including determining contributions to be made to the plan, and as a source of information for the financial statements of the plan. An actuarial valuation is performed on the retirement plan annually as of the beginning of the fiscal year. The main purposes of the actuarial valuation detailed in this report are:

1. To determine if the Commission's funding policy for the Retirement Plan is being met considering current assets and the current employer and member contribution rates; or determine the employer contribution necessary to meet the Commission's funding policy for the Plan;
2. To disclose the funding assets and liability measures as of the valuation date;
3. To review the current funded status of the Plan;
4. To compare actual and expected experience under the Plan during the last fiscal year;
5. And to report trends in contributions, assets, liabilities, and funded status over the last several years.

This actuarial valuation provides a "snapshot" of the funded position of the Retirement Plan based on the plan provisions, membership, assets, and actuarial assumptions as of the valuation date. Actuarial projections are also performed to provide a long-term view of the expected future funding status and contribution patterns.

Use of this report for any other purpose may not be appropriate and may result in mistaken conclusions due to failure to understand applicable assumptions, methodologies, or inapplicability of the report for that purpose. Conduent will not accept any liability for any such statement made without prior review by Conduent.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. Because of limited scope, Conduent performed no analysis of the potential range of such future differences.

## Data Used

The actuarial valuation is based on unaudited financial and member data provided by the staff of the Retirement System and summarized in this report. The benefits considered are those delineated in the plan as amended and restated effective December 31, 2015. The actuary did not verify the data submitted, but did perform tests for consistency and reasonableness.

## Assumptions and Methods

All costs, liabilities and other factors under the Plan were determined in accordance with generally accepted actuarial principles and procedures. An actuarial cost method is used to measure the actuarial liabilities which we believe is reasonable. Conduent is solely responsible for the actuarial data and actuarial results presented in this report. This report fully and fairly discloses the actuarial position of the Plan.

In our opinion, the actuarial assumptions used are reasonable, taking into account the experience of the Plan and reasonable long-term expectations, and represent our best estimate of the anticipated long-term experience under the Plan. The actuary performs an analysis of Plan experience periodically and recommends changes if, in the opinion of the actuary, assumption changes are needed to more accurately reflect expected future experience.

## Actuarial Certification

The assumptions and methods used to determine the Actuarially Determined Contribution (ADC) of the Macomb County Employees Retirement System as outlined in this report and all supporting schedules meet the parameters of the guidance from GASB for financial disclosure requirements. Based on member data and asset information provided by the Executive Director and staff of the Retirement System, we have prepared the Schedule of Funding Progress and Schedule of Employer Contributions that are included in the Financial Section of the Comprehensive Annual Financial Report.

This report contains many historical schedules. Conduent began performing these valuations beginning with the December 31, 2015 Annual Actuarial Valuation. Results prior to this date were replicated from the prior actuary and are included without audit or opinion.

Where presented, references to "funded ratio" and "unfunded accrued liability" typically are measured on an actuarial value of assets basis. It should be noted that the same measurements using market value of assets would result in different funded ratios and unfunded accrued liabilities. Moreover, the funded ratio presented is appropriate for evaluating the need and level of future contributions but makes no assessment regarding the funded status of the plan if the plan were to settle (i.e. purchase annuities) for a portion or all of its liabilities.

# CONDUENT 

The undersigned is an Enrolled Actuary, an Associate of the Society of Actuaries and Members of the American Academy of Actuaries and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained in this report. This report has been prepared in accordance with all Applicable Actuarial Standards of Practice. We are available to answer any questions on the material contained in the report, or to provide explanations or further details as may be appropriate.

Respectfully submitted,
Conduent Human Resource Services
?
Larry Langer, ASA, MAAA, EA
Principal, Retirement Consulting
Conduent Human Resource Services

## LL/em

cc: James Blydenburgh (Conduent)
MacCnty 032817 LL_AVR2016 Ifl v2.docx

## Table of Contents

Summary of Results ..... 1
Comparative Summary of Key Actuarial Valuation Results ..... 7
Section 1: Actuarial Funding Results
Section 1.1 - Actuarial Liabilities and Normal Cost ..... 8
Section 1.2 - Actuarial Contributions ..... 9
Section 1.3-Actuarial (Gain) / Loss ..... 10
Section 1.4 - Analysis of Financial Experience ..... 11
Section 1.5 - Actuarial Balance Sheet ..... 12
Section 1.6 - History of UAAL and Funded Ratio ..... 13
Section 1.7-Solvency Test ..... 14
Section 2: Plan Assets
Section 2.1 - Summary of Fair Value of Assets ..... 15
Section 2.2 - Changes in Fair Value of Assets ..... 16
Section 2.3-Actuarial Value of Assets ..... 17
Section 2.4 - Historical Asset Rate of Return ..... 19
Section 2.5 - Forecast of Expected Benefit Payments ..... 20
Section 3: Member Data
Section 3.1 - Summary of Members Included ..... 21
Section 3.2 - Age and Service Distribution of Active Members as of December 31, 2015 ..... 22
Section 3.3-Member Data Reconciliation ..... 27
Section 3.4 - Schedule of Active Member Data ..... 28
Section 3.5 - Schedule of Inactive Member Data ..... 28
Section 3.6 - Schedule of Retired Members by Type of Benefit and Option Elected. ..... 29
Section 3.6a - Schedule of DROP Participants by Option Elected ..... 30
Section 3.7 - Schedule of Benefit Payments ..... 31
Section 4: Actuarial Assumptions and Methods and Additional Information for Funding ..... 34
Section 5: Summary of Plan Provisions ..... 38
Glossary ..... 42

## Summary of Results

## Overview

The Macomb County Employees Retirement System provides pension and ancillary benefit payments to the terminated and retired employees of Macomb County, Michigan. A Retirement Commission comprised of employer, employee, and appointed representatives is responsible for administering the Plan and making investment decisions. This report presents the results of the actuarial valuation of the Employees Retirement System as of December 31, 2015.

## Membership

## Actives

As of December 31, 2015, there were 2,223 employees in active service covered under the provisions of the Plan not participating in DROP. The significant age, service, and salary information for these employees is summarized below, along with comparative figures from the last actuarial valuation one year earlier.

## December 31, 2015 December 31, 2014

| Active participants |  |  |
| :--- | ---: | ---: |
| $\quad$ Number | 2,223 | 2,134 |
| Average age | 44.2 years | 44.2 years |
| Average service | 9.3 years | 9.9 years |
| Total annual valuation salary | $\$ 110,557,514$ | $\$ 110,159,044$ |
| Average annual salary | $\$$ | 49,733 |

The number of active members increased by $4.2 \%$ from the previous valuation date. The average age of the active remained the same, and the average service decreased by 0.6 years. The total annual valuation salary increased by $0.4 \%$. The average salary decreased by $3.8 \%$ from the previous valuation. There were 1,874 active members who were also reported active in the December 31, 2014 actuarial valuation. The total salary for this group increased by $0.4 \%$, which was lower than the $7.0 \%$ increase we expected for the group.

Distributions of active members by age, service, and salary are given in Section 3.2. The salaries shown for active members are the actual annualized year salaries reported.
A schedule of active member data and reconciliation of the active membership from the previous year is shown in Sections 3.3 and 3.4.

## Inactives

In addition to the active members, there were 652 inactive vested members who did not elect to receive their accumulated contributions when they left covered employment. The significant age and annual benefit information for these inactive members are summarized below with comparative figures from the last actuarial valuation one year earlier.

December 31, 2015 December 31, 2014
Terminated vested participants

| Number | 652 | 226 |
| :--- | ---: | ---: |
| Average age | 47.1 years | 51.2 years |
| Average annual benefit payments | $\$ \quad 5,410$ | $\$ \quad 11,550$ |

The number of inactive vested members increased by $288.5 \%$ from the previous valuation. The average age of the inactive vested members decreased by 4.1 years. The Average Monthly Pension Benefit for these members decreased by $53.2 \%$ from the previous valuation. The large change from last year is attributable to a large data cleanup by the employer.

## CONDUENT

Distributions of inactive members by age and pension benefit are given in Section 3.6.

## Retirees and Beneficiaries

In addition to the active and inactive members, there were 2,184 retired members and 365 beneficiaries who are receiving monthly benefit payments on the valuation date. The significant age and annual benefit information for these members are summarized below with comparative figures from the last actuarial valuation performed one year earlier.

|  | December 31, 2015 | December 31, 2014 |
| :---: | :---: | :---: |
| Retired participants |  |  |
| Number | 2,184 | 2,248 |
| Average Age | 68.6 years | 68.3 years |
| Average annual retirement benefits | \$ 21,083 | \$ 20,417 |
|  | December 31, 2015 | December 31, 2014 |
| Survivors and beneficiaries of participants |  |  |
| Number | 365 | 243 |
| Average Age | 71.5 years | 74.1 years |
| Average annual retirement benefits | \$ 13,496 | \$ 13,422 |

The number of retired members and beneficiaries increased by $2.3 \%$ from the previous valuation date. The average age of the retired members and beneficiaries increased by 0.2 years. The total annual benefit payments for these members increased by $3.7 \%$ from the previous valuation date.

Distributions of retired members by age and form of payment are given in Section 3.6 and 3.7.

## DROP Participants

In addition to the actives, inactives, and retirees, there were 338 DROP members who are receiving monthly benefit payments on the valuation date. The significant age and annual benefit information for these members are summarized below.

December 31, 2015 December 31, 2014
DROP participants

| Number | 338 | 294 |  |
| :--- | ---: | ---: | ---: |
| Average Age | 57.1 years | 57.5 years |  |
| Average annual retirement benefits | $\$ \quad 28,014$ | $\$$ | 27,970 |
| Average pay | $\$ \quad 52,630$ |  | $\mathrm{~N} / \mathrm{A}$ |

In our opinion, the membership data collected and prepared for use in this actuarial valuation meets the data quality standards required under Actuarial Standards of Practice No. 23.

## Plan Assets

The Plan's assets are held in trust and invested for the exclusive benefit of plan members. The trust is funded by member and employer contributions, and pays benefits directly to eligible members in accordance with plan provisions. The assets are audited annually and are reported at fair value. On a fair value basis, the Plan has Net Assets Available for Benefits of $\$ 885.5$ million as of December 31, 2015. This includes a decrease of $\$ 54.8$ million over the Net Assets Available for Benefits of $\$ 940.3$ million as of December 31, 2014. During the prior year, the fair value of assets experienced an investment rate of return of $-1.73 \%$.

In order to reduce the volatility investment gains and losses can have on the Plan's actuarially required contribution and funded status, the Commission has adopted a five-year smoothing method to determine the actuarial value of assets used for funding purposes. This method recognizes gains and losses, i.e. the difference between actual investment return during the year and the expected return based on the valuation interest rate, on a level basis over a seven year period. In our opinion, this method complies with Actuarial Standards of Practice No. 44.

As of December 31, 2015, the assets available for benefits on an actuarial value basis were $\$ 902.9$ million. This includes an increase of $\$ 20.4$ million over the actuarial value of assets of $\$ 882.6$ million as of December 31, 2014. During the prior year, the actuarial value of assets experienced an actuarial rate of return of $6.86 \%$.

A summary of the assets held for investment, a summary of changes in assets, and the development of the actuarial value of assets is shown in Section 2.

## Actuarial Experience

Differences between the expected experience based on the actuarial assumptions and the actual experience create changes in the actuarial accrued liability, actuarial value of assets, and the unfunded actuarial accrued liability from one year to the next. These changes create an actuarial gain if the experience is favorable and an actuarial loss if the experience is unfavorable. The Plan experienced a total net actuarial loss of $\$ 3.3$ million during the prior year. This total net loss is about $0.4 \%$ of the plan's prior year actuarial accrued liability.

The demographic experience tracks actual changes in the plan's population compared to the assumptions for decrements such as mortality, turnover, and retirement, as well as pay increases. The Plan experienced a demographic gain of $\$ 2.8$ million during the year ending December 31, 2015. This gain decreased the unfunded actuarial accrued liability by $\$ 2.8$ million and increased the funded ratio by $0.3 \%$.

Continued tracking of the demographic experience is warranted in order to confirm the appropriateness of the actuarial assumptions. Details of the demographic, economic, and other assumptions used to value the plan liabilities and normal cost can be found in Section 6. In our opinion, the economic assumptions comply with Actuarial Standards of Practice No. 27 and the demographic assumptions comply with Actuarial Standards of Practice No. 35.

On the asset side, the Plan experienced a loss on an actuarial value of assets basis. The actual rate of return on the actuarial value of plan assets for the year ending December 31, 2015 was approximately $6.86 \%$ compared to the assumption of $7.50 \%$, resulting in an asset loss of $\$ 6.1$ million. This loss increased the unfunded actuarial accrued liability by $\$ 6.1$ million and decreased the funded ratio by $0.6 \%$.

The rate of return on the fair value of assets for the year ending December 31, 2015 was lower than the assumed rate of $7.50 \%$. The actuarial value of the assets recognizes only $1 / 5$ of the 2015 loss on fair value, delaying the recognition of the remaining $4 / 5$ over the next four years. Moreover, the actuarial value of assets also recognizes deferred portions of prior years' gains and losses on fair value. It should be noted that the plan's assumed asset return of $7.25 \%$ (changing from $7.50 \%$ for the December 31, 2015 valuation) is a long-term rate and short-term performance is not necessarily indicative of expected long-term future returns.

A summary of the actuarial gains and losses experienced during the prior year is shown in Section 1.3 and Section 1.4.

## Actuarial Contributions

Effective with the December 31, 2013 annual valuation, the Retirement Commission established a closed 20 year amortization policy assuming $5 \%$ payment increases. For this valuation, the period is 18 years.

The normal cost represents the cost of the benefits that accrue during the year for active members under the Entry Age Actuarial Cost Method. It is determined as a level percentage of pay which, if paid from entry age to the assumed retirement age, assuming all the actuarial assumptions are exactly met by plan experience would accumulate to a fund sufficient to pay all benefits provided by the Plan. The expected member contributions are subtracted from this amount to determine the employer normal cost. The employer normal cost for 2016 has been determined to be $\$ 13.4$ million or $12.57 \%$ of pay.

The cost method also determines the actuarial accrued liability which represents the value of all accumulated past normal cost payments. This amount is compared to the actuarial value of assets to determine if the Plan is ahead or behind in funding as of the valuation date. The difference between the total actuarial accrued liability and the actuarial value of assets equals the amount of unfunded actuarial accrued liability or surplus (if negative) on the valuation date. This amount is amortized and added to the employer normal cost to determine the annual actuarially required employer contribution for the year.

The unfunded actuarial accrued liability as of December 31, 2015 is $\$ 74.6$ million. This represents an increase of $\$ 46.1$ million in the unfunded actuarial accrued liability from last year's amount of $\$ 28.5$ million.

The annual actuarially required employer contribution for 2017 is $\$ 19.9$ million, or $18.6 \%$ of pay. This represents a decrease of $\$ 1.0$ million in the employer contribution amount of $\$ 20.9$ million for 2016 , or a decrease of $0.3 \%$ of pay from last year's employer contribution rate of $18.9 \%$.

The actuarial liabilities and development of the annual actuarial employer contribution is shown in Sections 1.1 and 1.2.

In our opinion, the measurement of the benefit obligations and determination of the actuarial cost of the Plan is performed in compliance with Actuarial Standards of Practice No. 4.

## Funded Status

The funded status is a measure of the progress that has been made in funding the plan as of the valuation date. It is determined as a ratio of the actuarial value of assets divided by the total actuarial accrued liability on the valuation date. A ratio of over 100\% represents a plan that is ahead in funding, and a ratio of less than 100\% represents a plan that is behind in funding on the valuation date.

As of December 31, 2015 the funded ratio of the Plan is $92.4 \%$. This represents a decrease of $4.5 \%$ from last year's funded ratio of $96.9 \%$ as of December 31, 2014.

A history of the unfunded actuarial accrued liability and the funded ratio is shown in Section 1.6.

## Changes in Plan Provisions

There have been no changes in benefits or other plan provisions considered in this actuarial valuation since the last valuation performed as of December 31, 2014 other than the closing of the Retirement System to new members as of December 31, 2015 and a $\$ 1,000$ termination benefit.

## Changes in Actuarial Assumptions, Methods, or Procedures

The December 31, 2015 annual actuarial valuation is the first performed by Conduent. As part of the transition from the prior actuary, we replicated the results of the December 31, 2014 annual actuarial valuation. As expected we were not able to match results exactly, likely due to differences in software used. Our actuarial accrued liability was within $1.5 \%$ of that developed by the prior actuary, which, in our opinion, is well within reason for transition. These results were reviewed with the Retirement Commission in its March 9, 2017 Retirement Commission meeting.

As part of the transition process, Conduent recommended changes to the assumptions used effective with the December 31, 2015 annual actuarial valuation. The Retirement Commission adopted these recommendations at its March 9, 2017 meeting. The changes were based upon an analysis of recent experience and future expectations regarding, administrative expense, salary increases and expected returns, as well as knowledge obtained from recent published mortality tables and anticipated future improvements published by the Society of Actuaries. The changes include:

- The mortality table was updated from RP2000 projected to 2015 to RP2014 Blue Collar for Road Commission and Sheriffs and RP 2014 for all others
- The MP2016 mortality improvement scale was added for all. The prior actuarial valuation did not include any mortality improvement.
- Base pay projections and inflation was reduced from $5.00 \%$ to $3.00 \%$
- Investment return was reduced from $7.50 \%$ to $7.25 \%$
- The administrative expense load was changed from $0.10 \%$ of payroll to the previous year's administrative expense increased by the inflation assumption and allocated by employer payroll.

As noted in Section 1.3, the total change in the accrued liability associated with the assumption changes was an increase of approximately $\$ 32.1$ Million.

Before the December 31, 2016 actuarial valuation is finalized, Conduent will provide recommendations to the Retirement Commission on potential changes in funding policy.

| Summary of Member Data |  |  |
| :---: | :---: | :---: |
| Number of Members Included in the Valuation |  |  |
| Active Members | 2,223 | 2,134 |
| Inactive Members | 652 | 226 |
| Retirees and beneficiaries | 2,549 | 2,785 |
| DROP Participants | 338 | N/A |
| Total | 5,762 | 5,145 |
| Annual Payroll |  |  |
| Average (actual) | 47,348 | 51,621 |
| Annual Benefit Payments |  |  |
| Inactive Members (Average) | 5,410 | 11,550 |
| Retirees and beneficiaries (Average) | 23,054 | 19,735 |
| DROP Participants (Average) | 28,014 | 27,970 |
| Summary of Assets |  |  |
| Fair Value |  |  |
| Rate of Return | (1.73)\% | 7.22\% |
| Actuarial Value |  |  |
| Rate of Return | 6.86\% | 9.47\% |
| Summary of Liabilities |  |  |
| Total Actuarial Accrued Liability | 977,566,461 | 911,095,833 |
| Actuarial Value of Assets | 902,930,628 | 882,565,132 |
| Unfunded Actuarial Accrued Liability | 74,635,833 | 28,530,701 |
| Funded Ratio | 92.37\% | 96.87\% |
| Maturity Ratio | 58.14\% | 70.26\% |

## Section 1: Actuarial Funding Results

Section 1.1 - Actuarial Liabilities and Normal Cost

| Actuarial Liabilities based on December 31, 2015 Valuation | General County | Sheriff's Department | Road Commission | Martha T. Berry | Totals |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Present Value of Projected Benefits |  |  |  |  |  |
| Active Members |  |  |  |  |  |
| Retirement Benefits | 188,308,320 | 117,490,965 | 55,729,912 | 11,230,222 | 372,759,419 |
| Withdrawal Benefits | 11,636,510 | 1,629,912 | 692,507 | 1,060,472 | 15,019,401 |
| Disability Benefits | 16,790,721 | 7,847,411 | 2,939,507 | 1,765,854 | 29,343,493 |
| Death Benefits | 2,772,163 | 2,237,188 | 833,214 | 258,474 | 6,101,039 |
| Return on Contributions | 1,176,821 | 177,748 | 119,720 | 156,448 | 1,630,737 |
| Total | 220,684,535 | 129,383,224 | 60,314,860 | 14,471,470 | 424,854,089 |
| 2. Vested Inactive Members with Deferred Benefits | 17,745,377 | 4,071,655 | 368,504 | 1,350,899 | 23,536,435 |
| 3. Non-Vested Inactive Members with Deferred Benefits | 445,618 | 18,985 | 0 | 56,636 | 521,239 |
| 4. Retired Members and Beneficiaries Receiving Benefits | 322,506,514 | 120,878,488 | 74,924,932 | 25,969,461 | 544,279,395 |
| 5. DROP Participants Receiving Benefits | 78,168,357 | 47,352,007 | 13,164,941 | 2,386,931 | 141,072,236 |
| 6. Total Present Value of Projected Benefits (1+2+3+4+5) | 639,550,401 | 301,704,359 | 148,773,237 | 44,235,397 | 1,134,263,394 |
| 7. Present Value of Future Normal Costs | 78,546,381 | 52,737,236 | 17,091,796 | 8,321,520 | 159,696,933 |
| 8. Total Actuarial Accrued Liability (6. - 7.) | 561,004,020 | 248,967,123 | 131,681,441 | 35,913,877 | 977,566,461 |
| Normal Cost for Fiscal year Beginning December 31, 2015 | General County | Sheriff's Department | Road Commission | Martha T. Berry | Totals |
| 1. Normal Cost | 9,330,140 | 4,896,781 | 2,167,812 | 800,282 | 17,195,015 |
| 2. Expected Member Contribution | $(1,943,434)$ | $(1,188,509)$ | $(459,528)$ | $(166,970)$ | $(3,758,441)$ |
| 3. Employer Normal Cost | 7,386,706 | 3,708,272 | 1,708,284 | 633,312 | 13,436,574 |


|  | General County | Sheriff's Department | Road Commission | Martha T. Berry | Totals |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Total Actuarial Accrued Liability |  |  |  |  |  |
| a. Active Members |  |  |  |  |  |
| i. Retirement Benefits | 127,135,140 | 71,257,529 | 40,931,901 | 5,071,608 | 244,396,178 |
| ii. Withdrawal Benefits | 5,674,027 | 645,976 | 327,418 | 406,189 | 7,053,610 |
| iii. Death Benefits | 1,426,432 | 1,110,529 | 456,881 | 89,046 | 3,082,888 |
| iv. Disability Benefits | 7,921,261 | 3,635,315 | 1,534,132 | 581,333 | 13,672,041 |
| v. Return on Employee Contributions | $(18,706)$ | $(3,361)$ | $(27,268)$ | 1,774 | $(47,561)$ |
| vi. Total | 142,138,154 | 76,645,988 | 43,223,064 | 6,149,950 | 268,157,156 |
| b. Inactive Members with Deferred Benefits | 18,190,995 | 4,090,640 | 368,504 | 1,407,535 | 24,057,674 |
| c. Retired Members and Beneficiaries Receiving Benefits | 322,506,514 | 120,878,488 | 74,924,932 | 25,969,461 | 544,279,395 |
| d. DROP Participants Receiving Benefits | 78,168,357 | 47,352,007 | 13,164,941 | 2,386,931 | 141,072,236 |
| e. Total (1.a.vi. + 1.b. + 1.c.) | 561,004,020 | 248,967,123 | 131,681,441 | 35,913,877 | 977,566,461 |
| 2. Actuarial Value of Assets | 521,864,679 | 235,587,948 | 107,801,706 | 37,676,295 | 902,930,628 |
| 3. Unfunded Actuarial Accrued Liability (UAAL) (1.e. -2.) | 39,139,341 | 13,379,175 | 23,879,735 | $(1,762,418)$ | 74,635,833 |
| 4. Funded Ratio (2. / 1.e.) | 93.02\% | 94.63\% | 81.87\% | 104.91\% | 92.37\% |
| 5. Maturity Ratio [(1.b. + 1.c.) / 1.e] | 60.73\% | 50.20\% | 57.18\% | 76.23\% | 58.14\% |
| 6. Employer Contribution for fiscal 2017 |  |  |  |  |  |
| Employer Normal Cost | 9,330,140 | 4,896,781 | 2,167,812 | 800,282 | 17,195,015 |
| Member Contribution | $(1,943,434)$ | $(1,188,509)$ | $(459,528)$ | $(166,970)$ | $(3,758,441)$ |
| Administrative Expense | 315,838 | 139,571 | 65,073 | 22,891 | 543,373 |
| UAAL Contribution | 2,617,795 | 894,853 | 1,597,172 | $(117,878)$ | 4,991,942 |
| Timing Adjustment | 516,017 | 237,135 | 168,526 | 26,916 | 948,594 |
| Total Employer Contribution Dollar | 10,836,356 | 4,979,831 | 3,539,055 | 565,241 | 19,920,483 |
| Total Employer Contribution (\% of Pay) | 17.63\% | 18.42\% | 28.56\% | 9.40\% | 18.63\% |
| 7. Discount Rate | 7.25\% | 7.25\% | 7.25\% | 7.25\% |  |
| 8. Amortization payments increase assumption | 5.00\% | 5.00\% | 5.00\% | 5.00\% |  |
| 9. Amortization period for 2017 contribution ${ }^{1}$ | 18 | 18 | 18 | 18 |  |

[^0]Section 1.3-Actuarial (Gain) / Loss (\$'s in 000's)


## CONDUENT

Section 1.4 - Analysis of Financial Experience
Analysis of Actuarial (Gains) and Losses Resulting from Differences Between
Assumed Experience and Actual Experience (\$'s in 000's)

|  | Year End | Last Year's |
| :--- | :---: | :---: |
| Type of (Gain) or Loss | December 31, 2015 | AAL |


| COLA Experience | 0 | $0.00 \%$ |
| :--- | ---: | ---: |
| Salary Experience | $(14,754)$ | $(1.60) \%$ |
| Investment Experience | 6,065 | $0.66 \%$ |
| Retirement Experience | $(1,119)$ | $(0.12) \%$ |
| Turnover Experience | $(674)$ | $(0.07) \%$ |
| Deaths among active Experience | $(655)$ | $(0.07) \%$ |
| Disability retirements Experience | $(192)$ | $(0.02) \%$ |
| Change in service accrual rate | 0 | $0.00 \%$ |
| Inactive mortality Experience | 2,815 | $0.30 \%$ |
| Return to Work | $(981)$ | $(0.11) \%$ |
| New Entrants | 3,268 | $0.35 \%$ |
| Contribution Shortfall | 0 | $0.00 \%$ |
| Other | $\underline{9,511}$ | $1.03 \%$ |
| (Gain) or Loss During Year From Experience | 3,284 | $0.36 \%$ |

## Section 1.5 - Actuarial Balance Sheet

December 31, 20151. Actuarial Value of Assets ..... 902,930,628
2. Present Value of Future Contributions
a. Expected Member Contributions ..... 36,247,171
b. Employer Normal Cost ..... 120,449,762
c. State Appropriations ..... 0
d. Total ..... 156,696,933
3. Unfunded Actuarial Accrued Liability/(Reserve) ..... 74,635,833
4. Total Assets [1. + 2.(d) + 3.] ..... 1,134,263,394
Benefit Obligations
5. Present Value of Future Benefits

| a. | Active members | $424,854,089$ |
| :--- | :--- | ---: |
| b. | Inactive members | $24,057,674$ |
| c. | Retirees, disabilities and beneficiaries | $544,279,395$ |
| d. | DROP members | $\mathbf{1 4 1 , 0 7 2 , 2 3 6}$ |
| e. | Total | $1,134,263,394$ |

## CONDUENT

Section 1.6 - History of UAAL and Funded Ratio (\$'s in 000's)

| Valuation Date | Actuarial Value of Assets (AVA) <br> (a) | Actuarial Accrued Liability (AAL) <br> (b) | Unfunded Actuarial Accrued Liability <br> (UAAL) <br> (b-a) | Funded Ratio (AVA as a \% of AAL) (a/b) | Covered Payroll (c) | UAAL as a Percentage of Covered Payrol (b-a)/(c) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| December 31, 2006 | 781,450 | 721,658 | $(59,793)$ | 108.3\% | 128,821 | (46.4)\% |
| December 31, 2007 | 847,305 | 772,650 | $(74,655)$ | 109.7\% | 126,696 | (58.9)\% |
| December 31, 2008 | 855,266 | 805,888 | $(49,377)$ | 106.1\% | 121,823 | (40.5)\% |
| December 31, 2009 | 866,357 | 814,564 | $(51,793)$ | 106.4\% | 116,523 | (44.4)\% |
| December 31, 2010 | 862,916 | 837,168 | $(25,748)$ | 103.1\% | 110,795 | (23.2)\% |
| December 31, 2011 | 828,692 | 854,324 | 25,632 | 97.0\% | 108,900 | 23.5\% |
| December 31, 2012 | 795,606 | 867,219 | 71,613 | 91.7\% | 105,392 | 67.9\% |
| December 31, 2013 | 837,653 | 884,042 | 46,389 | 94.8\% | 102,253 | 45.4\% |
| December 31, 2014 | 882,565 | 911,096 | 28,531 | 96.9\% | 110,159 | 25.9\% |
| December 31, 2015 | 902,931 | 977,566 | 74,636 | 92.4\% | 110,558 | 67.5\% |

Section 1.7 - Solvency Test (\$'s in 000's)

| Aggregate Accrued Liability For |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Valuation Date | (1) <br> Active Member Contributions | (2) <br> Inactive Members | (3) <br> Active Members (Employer- Financed Portion) | Valuation Assets | (1) | Accrued red by Ass <br> (2) | ies <br> (3) |
| December 31, 2011 | 3,736 | 573,550 | 277,038 | 828,692 | 100.00\% | 100.00\% | 90.75\% |
| December 31, 2012 | 3,569 | 589,270 | 274,380 | 795,606 | 100.00\% | 100.00\% | 73.90\% |
| December 31, 2013 | 3,720 | 627,384 | 252,938 | 937,653 | 100.00\% | 100.00\% | 81.66\% |
| December 31, 2014 | 3,597 | 640,125 | 267,374 | 882,565 | 100.00\% | 100.00\% | 89.33\% |
| December 31, 2015 | 3,668 | 709,409 | 264,489 | 902,931 | 100.00\% | 100.00\% | 71.78\% |

## Section 2: Plan Assets

## Section 2.1 - Summary of Fair Value of Assets

## Fair Value as of Dec. 31, 2015 <br> Fair Value as of Dec. 31, 2014

1. Cash and Short-Term Investments
a. Cash and cash equivalents
b. Other short-term
c. Total
2. Investments at Fair Value
a. U.S. Treasury and agencies
b. Fixed Income
c. Domestic Stocks and Equity
d. International Equity
e. Real Estate
f. Hedge Funds
g. Total
3. Other Assets
4. Total Assets (1.c. + 2.g. + 3.)
5. Receivables ${ }^{1}$
a. Interest and Dividends
b. Investments Sold
c. Other Receivables
d. Total

$$
456,316
$$

995,094
d.
6. Payables ${ }^{1}$
a. Payable for Investments Purchased
b. Securities Lending Obligation in Excess of Collateral
c. Accounts Payable and Accrued Liabilities
d. Total
7. Net Assets for Pension [4. + 5.d. - 6.d.]

36,050,277
$1, \underline{945}$
36,052,222

| $4.05 \%$ | $17,253,542$ | $1.83 \%$ |
| :--- | ---: | ---: |
| $\underline{0.00 \%}$ | $\underline{0}$ | $\underline{0.00 \%}$ |
| $4.05 \%$ | $17,253,542$ | $1.83 \%$ |


| 0 | $0.00 \%$ | 0 | $0.00 \%$ |
| ---: | ---: | ---: | ---: |
| $61,890,245$ | $6.95 \%$ | $64,099,088$ | $6.82 \%$ |
| $551,380,141$ | $61.88 \%$ | $605,436,434$ | $64.39 \%$ |
| 0 | $0.00 \%$ | 0 | $0.00 \%$ |
| 0 | $0.00 \%$ | 0 | $0.00 \%$ |
| $\underline{241,730,630}$ | $\underline{27.13 \%}$ | $\underline{253,467,096}$ | $\underline{26.96 \%}$ |
| $855,001,016$ | $95.96 \%$ | $923,002,618$ | $98.17 \%$ |

## Section 2.2 - Changes in Fair Value of Assets

## Additions

1. Contributions
a. Contributions from Employers
b. Contributions from Plan Members
21,281,612
22,152,820
c. Total
3,667,705
3,597,063
24,949,317
25,749,883
2. Net Investment Income
a. Interest and Dividends
b. Net Appreciation(Depreciation)

6,834,437
9,913,675
c. Rental Income
$(16,974,183)$
60,282,265
d. Net Securities Lending Income

0
e. Securities Lending Unrealized Gain/(Loss)
f. Miscellaneous
g. Total
h. Investment Expense
i. Net Investment Income
3. Total Additions

## Deductions

4. Total Additions

| a. Retirement Benefits | $62,808,671$ | $57,744,672$ |
| :--- | ---: | ---: |
| b. Refund of Contributions | 467,958 | 328,355 |
| c. Death | 0 | 0 |
| d. Supplemental Payment | 0 | 0 |
| e. Administrative Expenses | 527,547 | 523,640 |
| Total Deductions | $63,804,176$ | $58,596,667$ |
| Net Increase | $(54,803,657)$ | $31,566,641$ |

7. Net Assets Held in Trust for Pension Benefits
a. Beginning of Year
940,256,160
908,689,519
b. End of Year
$885,452,503$
940,256,160

## Section 2.3 - Actuarial Value of Assets

| Development of Actuarial Value of Assets |  |  | Amount |
| :---: | :---: | :---: | :---: |
| 1. Actuarial Value of Assets as of December 31, 2014 |  |  | 882,565,132 |
| 2. Unrecognized Return as of December 31, 2014 |  |  | 57,691,028 |
| 3. Fair Value of Assets as of December 31, 2014 (1. + 2.) |  |  | 940,256,160 |
| 4. Contribution |  |  |  |
| a. Member (includes purchased service) |  |  | 3,667,705 |
| b. Employer |  |  | 21,281,612 |
| c. State appropriations |  |  | $\underline{0}$ |
| d. Total |  |  | 24,949,317 |
| 5. Distributions |  |  |  |
| a. Benefit payments |  |  | 62,808,671 |
| b. Refund of contributions |  |  | 467,958 |
| c. Administrative Expenses |  |  | 527,547 |
| d. Total |  |  | 63,804,176 |
| 6. Expected Return at $7.50 \%$ on |  |  |  |
| a. Item 1 |  |  | 66,192,385 |
| b. Item 4 (d.) |  |  | 935,599 |
| c. Item 5 (d.) |  |  | 2,392,657 |
| d. Total [a. + b. - c.] |  |  | 64,735,327 |
| 7. Actual Return on Fair Value for Fiscal Year |  |  | $(15,948,798)$ |
| 8. Return on be Spread for Fiscal year [(7. - 6(b)] |  |  | $(80,684,125)$ |
| 9. Total Fair Value of Assets as of December 31, 2015 |  |  | 885,452,503 |
| 10. Return to be Spread |  |  |  |
| Fiscal Year | Return to be Spread | Unrecognized Percent | Unrecognized Return |
| 2015 | $(80,684,125)$ | 80\% | $(64,547,300)$ |
| 2014 | 2,821,240 | 60\% | 1,692,744 |
| 2013 | 102,328,360 | 40\% | 40,931,344 |
| 2012 | 22,225,435 | 20\% | 4,445,087 |
| 2011 | (74,265,775) | 0\% | 0 |
|  | Total |  | $(17,478,125)$ |
| 11. Preliminary Actuarial Value of Assets (9. - 10.) |  |  | 902,930,628 |
| 12. Corridor |  |  |  |
| a. Lower Limit: $80 \%$ * 9 . |  |  | 708,362,003 |
| b. Upper Limit: $120 \%$ * 9 . |  |  | 1,062,543,003 |
| c. Adjustment to 11. to fit limits |  |  | 0 |
| 13. Actuarial Value of Assets (11. + 12.c.) |  |  | 902,930,628 |
| 14. Recognized Rate of Return for the Year on Actuarial Value of Assets ${ }^{1}$ |  |  | 6.86\% |
| 15. Rate of Return for the Year on Market Value of Assets (2. X 7. / [3. + 9. - 7.]) |  |  | (1.73)\% |

[^1]
## Section 2.3-Actuarial Value of Assets (cont'd)

Allocation of Retirement Systems Assets

|  | General County | Sheriff's Department | Road Commission | Martha T. Berry | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Valuation assets at start of year | 512,995,018 | 226,696,095 | 105,693,839 | 37,180,180 | 882,565,132 |
| 2. Employee Contributions | 1,998,859 | 1,033,281 | 461,755 | 173,810 | 3,667,705 |
| 3. Employer contributions | 11,939,393 | 5,715,220 | 2,956,376 | 670,623 | 21,281,612 |
| 4. Benefits paid | 38,831,958 | 13,034,492 | 8,251,490 | 2,690,731 | 62,808,671 |
| 5. Refund of contributions | 253,660 | 19,436 | 76,700 | 118,162 | 467,958 |
| 6. Administrative expense allocated on BOT asset value | 306,639 | 135,506 | 63,178 | 22,224 | 527,547 |
| 7. Average valuation assets [1. $\left.+0.5^{*}\{2 .+3 .-4 .-5 .-6\}.\right]$ | 500,268,016 | 223,475,629 | 103,207,221 | 36,186,838 | 863,137,704 |
| 8. Investment income allocated on average valuation assets | 34,323,666 | 15,332,786 | 7,081,104 | 2,482,799 | 59,220,355 |
| 9. Transfer in | 0 | 0 | 0 | 0 | 0 |
| Transfer out | $\underline{0}$ | $\underline{0}$ | $\underline{0}$ | $\underline{0}$ | $\underline{0}$ |
| Net transfer of assets | 0 | 0 | 0 | 0 | 0 |
| 10. Valuation assets at end of year $[1 .+2 .+3 .-4 .-5 .-6 .+8 .+9 .]$ | 521,864,679 | 235,587,948 | 107,801,706 | 37,676,295 | 902,930,628 |
| 11. Total Revenues [2. +3. + 8.] | 48,261,918 | 22,081,287 | 10,499,235 | 3,327,232 | 84,169,672 |
| Percentage of revenue attributable to: |  |  |  |  |  |
| Employee contributions | 4.1\% | 4.7\% | 4.4\% | 5.2\% | 4.4\% |
| Employer contributions | 24.7\% | 25.9\% | 28.2\% | 20.2\% | 25.3\% |
| Investment income | 71.0\% | 69.4\% | 67.5\% | 74.6\% | 70.4\% |
| 12. Total Expenditures [4. $+5 .+6$. | 39,392,257 | 13,189,434 | 8,391,368 | 2,831,117 | 63,804,176 |
| Percentage of expenditures attributable to: |  |  |  |  |  |
| Benefits paid | 98.6\% | 98.8\% | 98.3\% | 95.0\% | 98.4\% |
| Refund of contributions | 0.6\% | 0.1\% | 0.9\% | 4.2\% | 0.7\% |
| Investment income | 0.8\% | 1.0\% | 0.8\% | 0.8\% | 0.8\% |

Section 2.4 - Historical Asset Rate of Return

| Year Ending December 31 | Actuarial Value of Assets | Market Value of Assets |
| :---: | :---: | :---: |
| 2010 | $3.30 \%$ | $12.90 \%$ |
| 2011 | $0.15 \%$ | $(1.42) \%$ |
| 2012 | $0.11 \%$ | $11.51 \%$ |
| 2013 | $10.55 \%$ | $20.90 \%$ |
| 2014 | $9.47 \%$ | $7.22 \%$ |
| 2015 | $6.86 \%$ | $(1.73) \%$ |

Section 2.5 - Forecast of Expected Benefit Payments (\$000)

| Year Ending December 31 | Active <br> Employees | Retired, Disabled, Beneficiary, and Deferred Vested Participants | DROP <br> Participants | Grand Total |
| :---: | :---: | :---: | :---: | :---: |
| 2016 | 7,449 | 51,599 | 11,402 | 70,450 |
| 2017 | 4,680 | 50,643 | 8,731 | 64,054 |
| 2018 | 6,410 | 50,123 | 12,588 | 69,121 |
| 2019 | 7,970 | 49,681 | 18,207 | 75,858 |
| 2020 | 10,791 | 49,090 | 17,571 | 77,452 |
| 2021 | 14,624 | 48,472 | 14,896 | 77,993 |
| 2022 | 17,570 | 47,845 | 9,516 | 74,931 |
| 2023 | 20,540 | 47,368 | 9,235 | 77,142 |
| 2024 | 24,047 | 46,704 | 9,197 | 79,947 |
| 2025 | 27,057 | 45,980 | 9,160 | 82,197 |
| 2026 | 29,585 | 45,231 | 9,151 | 83,966 |
| 2027 | 31,569 | 44,480 | 9,148 | 85,197 |
| 2028 | 35,443 | 43,499 | 9,098 | 88,040 |
| 2029 | 39,268 | 42,527 | 9,019 | 90,814 |
| 2030 | 42,068 | 41,489 | 8,980 | 92,537 |
| 2031 | 44,931 | 40,684 | 8,901 | 94,515 |
| 2032 | 47,428 | 39,584 | 8,823 | 95,835 |
| 2033 | 49,768 | 38,394 | 8,737 | 96,899 |
| 2034 | 51,934 | 37,159 | 8,643 | 97,735 |
| 2035 | 53,435 | 35,879 | 8,539 | 97,853 |
| 2036 | 54,015 | 34,527 | 8,425 | 96,967 |
| 2037 | 55,632 | 33,098 | 8,299 | 97,029 |
| 2038 | 57,035 | 31,636 | 8,162 | 96,832 |
| 2039 | 58,969 | 30,154 | 8,010 | 97,133 |
| 2040 | 61,171 | 28,620 | 7,841 | 97,633 |
| 2041 | 62,990 | 27,094 | 7,659 | 97,743 |
| 2042 | 64,714 | 25,515 | 7,461 | 97,690 |
| 2043 | 65,568 | 23,929 | 7,244 | 96,741 |
| 2044 | 65,491 | 22,367 | 7,010 | 94,868 |
| 2045 | 65,301 | 20,797 | 6,758 | 92,855 |
| 2046 | 64,817 | 19,249 | 6,487 | 90,553 |

## Section 3: Member Data

Section 3.1 - Summary of Members Included

| As of December 31 | General $2015$ | County $2014$ | $\begin{aligned} & \text { Sheriff's } \\ & 2015 \end{aligned}$ | $\begin{aligned} & \text { Department } \\ & 2014 \end{aligned}$ | $\begin{aligned} & \text { Road Cc } \\ & 2015 \end{aligned}$ | $\begin{aligned} & \text { imission } \\ & 2014 \end{aligned}$ | $\begin{aligned} & \text { Martha } \\ & 2015 \end{aligned}$ | $\begin{aligned} & \text { Berry } \\ & 2014 \end{aligned}$ | $\begin{aligned} & \text { Total } \\ & 2015 \end{aligned}$ | 2014 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Active Members |  |  |  |  |  |  |  |  |  |  |
| 1. Number | 1,448 | 1,392 | 408 | 380 | 199 | 214 | 168 | 148 | 2,223 | 2,134 |
| 2. Average Age | 45.8 | 45.6 | 39.0 | 39.3 | 43.8 | 44.8 | 42.7 | 42.3 | 44.2 | 44.2 |
| 3. Average Credited Service | 8.7 | 9.2 | 11.0 | 11.8 | 13.7 | 15.1 | 5.1 | 6.1 | 9.3 | 10.0 |
| 4. Average Annual Earning | 43,215 | 48,443 | 61,039 | 65,307 | 59,889 | 58,077 | 34,867 | 37,034 | 47,348 | 51,621 |
| Retirees, Disableds and Beneficiaries |  |  |  |  |  |  |  |  |  |  |
| 1. Number | 1,758 | 1,919 | 293 | 341 | 307 | 324 | 191 | 201 | 2,549 | 2,785 |
| 2. Average Age | 69.7 | 68.2 | 64.6 | 62.9 | 69.1 | 68.8 | 69.0 | 67.8 | 69.0 | 67.7 |
| 3. Average Monthly Pension Benefit | 1,688 | 1,495 | 3,807 | 3,168 | 2,188 | 1,915 | 1,132 | 1,058 | 1,950 | 1,717 |
| DROP Participants |  |  |  |  |  |  |  |  |  |  |
| 1. Number | 233 | 221 | 65 | 57 | 31 | 10 | 9 | 6 | 338 | 294 |
| 2. Average Age | 58.3 | 58.4 | 53.2 | 52.9 | 56.9 | 61.2 | 57.5 | 58.4 | 57.1 | 57.5 |
| 3. Average Monthly Pension Benefit | 1,873 | 1,888 | 3,961 | 4,124 | 2,637 | 2,320 | 1,498 | 1,615 | 2,334 | 2,331 |
| Vested Terminations ${ }^{1}$ |  |  |  |  |  |  |  |  |  |  |
| 1. Number | 475 | 179 | 51 | 18 | 3 | 13 | 123 | 16 | 652 | 226 |
| 2. Average Age | 47.4 | 51.1 | 46.1 | 49.1 | 48.7 | 51.9 | 46.1 | 53.7 | 47.1 | 51.2 |
| 3. Average Monthly Pension Benefit | 478 | 886 | 905 | 1,777 | 1,892 | 987 | 123 | 885 | 451 | 962 |
| Total Number of Members | 3,914 | 3,490 | 817 | 739 | 540 | 551 | 491 | 365 | 5,762 | 5,145 |

[^2]Section 3.2 - Age and Service Distribution of Active Members as of December 31, 2015 - Total

| Attained Age |  | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | Over 34 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-19 | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-24 | Number | 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 54 |
|  | Total Salary | 1,718,446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,718,446 |
|  | Average Salary | 31,823 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 31,823 |
| 25-29 | Number | 145 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 157 |
|  | Total Salary | 4,993,772 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 5,482,848 |
|  | Average Salary | 34,440 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 34,923 |
| 30-34 | Number | 154 | 46 | 42 | 2 | 1 | 0 | 0 | 0 | 245 |
|  | Total Salary | 5,754,883 | 2,216,071 | 2,430,284 | N/A | N/A | 0 | 0 | 0 | 10,569,867 |
|  | Average Salary | 37,369 | 48,175 | 57,864 | N/A | N/A | 0 | 0 | 0 | 43,142 |
| 35-39 | Number | 107 | 53 | 107 | 38 | 0 | 0 | 0 | 0 | 305 |
|  | Total Salary | 3,977,876 | 2,525,832 | 6,254,827 | 2,239,049 | 0 | 0 | 0 | 0 | 14,997,584 |
|  | Average Salary | 37,176 | 47,657 | 58,456 | 58,922 | 0 | 0 | 0 | 0 | 49,172 |
| 40-44 | Number | 98 | 49 | 96 | 109 | 25 | 0 | 0 | 0 | 377 |
|  | Total Salary | 3,712,209 | 2,317,664 | 5,416,389 | 6,735,718 | 1,577,544 | 0 | 0 | 0 | 19,759,524 |
|  | Average Salary | 37,880 | 47,299 | 56,421 | 61,796 | 63,102 | 0 | 0 | 0 | 52,413 |
| 45-49 | Number | 103 | 51 | 105 | 91 | 71 | 27 | 1 | 0 | 449 |
|  | Total Salary | 3,761,036 | 2,401,338 | 5,299,505 | 5,634,336 | 4,679,536 | 1,588,303 | N/A | 0 | 23,431,542 |
|  | Average Salary | 36,515 | 47,085 | 50,471 | 61,916 | 65,909 | 58,826 | N/A | 0 | 52,186 |
| 50-54 | Number | 93 | 48 | 94 | 40 | 27 | 15 | 2 | 0 | 319 |
|  | Total Salary | 3,581,348 | 2,168,730 | 4,642,401 | 2,067,952 | 1,754,820 | N/A | N/A | 0 | 15,314,766 |
|  | Average Salary | 38,509 | 45,182 | 49,387 | 51,699 | 64,993 | N/A | N/A | 0 | 48,009 |
| 55-59 | Number | 58 | 31 | 75 | 27 | 9 | 1 | 0 | 0 | 201 |
|  | Total Salary | 2,066,927 | 1,385,905 | 3,445,031 | 1,228,660 | N/A | N/A | 0 | 0 | 8,736,902 |
|  | Average Salary | 35,637 | 44,707 | 45,934 | 45,506 | N/A | N/A | 0 | 0 | 43,467 |
| 60-64 | Number | 28 | 14 | 25 | 5 | 5 | 0 | 0 | 1 | 78 |
|  | Total Salary | 1,236,502 | N/A | 1,288,807 | N/A | N/A | 0 | 0 | N/A | 3,784,584 |
|  | Average Salary | 44,161 | N/A | 51,552 | N/A | N/A | 0 | 0 | N/A | 48,520 |
| 65-59 | Number | 3 | 7 | 5 | 5 | 2 | 2 | 1 | 0 | 25 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 968,572 |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 38,743 |
| 70+ | Number | 2 | 2 | 2 | 6 | 1 | 0 | 0 | 0 | 13 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
| Total | Number | 845 | 313 | 551 | 332 | 141 | 45 | 4 | 1 | 2,223 |
|  | Total Salary | 30,982,761 | 14,612,612 | 28,972,901 | 18,580,469 | 9,030,682 | 2,789,877 | N/A | N/A | 105,254,524 |
|  | Average Salary | 36,666 | 46,686 | 52,582 | 57,525 | 64,047 | 61,997 | N/A | N/A | 47,348 |

Section 3.2-Age and Service Distribution of Active Members as of December 31, 2015-General County (continued)

| Attained Age |  | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | Over 34 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-19 | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-24 | Number | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 |
|  | Total Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 25-29 | Number | 73 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 79 |
|  | Total Salary | 2,078,078 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 2,228,057 |
|  | Average Salary | 28,467 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 28,203 |
| 30-34 | Number | 100 | 28 | 13 | 0 | 1 | 0 | 0 | 0 | 142 |
|  | Total Salary | 3,552,225 | 1,196,300 | N/A | 0 | N/A | 0 | 0 | 0 | 5,321,457 |
|  | Average Salary | 35,522 | 42,725 | N/A | 0 | N/A | 0 | 0 | 0 | 37,475 |
| 35-39 | Number | 79 | 39 | 54 | 16 | 0 | 0 | 0 | 0 | 188 |
|  | Total Salary | 2,881,643 | 1,872,442 | 2,818,881 | N/A | 0 | 0 | 0 | 0 | 8,289,710 |
|  | Average Salary | 36,476 | 48,011 | 52,201 | N/A | 0 | 0 | 0 | 0 | 44,094 |
| 40-44 | Number | 75 | 37 | 53 | 55 | 8 | 0 | 0 | 0 | 228 |
|  | Total Salary | 2,976,526 | 1,648,145 | 2,749,733 | 2,815,672 | N/A | 0 | 0 | 0 | 10,530,954 |
|  | Average Salary | 39,687 | 44,544 | 51,882 | 51,194 | N/A | 0 | 0 | 0 | 46,188 |
| 45-49 | Number | 77 | 40 | 80 | 51 | 26 | 13 | 0 | 0 | 287 |
|  | Total Salary | 2,909,601 | 1,786,723 | 3,880,318 | 2,869,345 | 1,517,600 | N/A | 0 | 0 | 13,664,606 |
|  | Average Salary | 37,787 | 44,668 | 48,504 | 56,262 | 58,369 | N/A | 0 | 0 | 47,542 |
| 50-54 | Number | 66 | 45 | 67 | 33 | 11 | 10 | 2 | 0 | 234 |
|  | Total Salary | 2,472,876 | 2,011,140 | 3,021,147 | 1,524,236 | N/A | N/A | N/A | 0 | 10,451,977 |
|  | Average Salary | 37,468 | 44,692 | 45,092 | 46,189 | N/A | N/A | N/A | 0 | 44,667 |
| 55-59 | Number | 44 | 27 | 67 | 21 | 6 | 1 | 0 | 0 | 166 |
|  | Total Salary | 1,578,209 | 1,187,575 | 2,926,928 | 830,140 | N/A | N/A | 0 | 0 | 6,956,747 |
|  | Average Salary | 35,868 | 43,984 | 43,685 | 39,530 | N/A | N/A | 0 | 0 | 41,908 |
| 60-64 | Number | 26 | 10 | 24 | 5 | 4 | 0 | 0 | 1 | 70 |
|  | Total Salary | 1,161,568 | N/A | 1,171,514 | N/A | N/A | 0 | 0 | N/A | 3,365,531 |
|  | Average Salary | 44,676 | N/A | 48,813 | N/A | N/A | 0 | 0 | N/A | 48,079 |
| 65-59 | Number | 2 | 7 | 5 | 5 | 2 | 2 | 1 | 0 | 24 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 948,004 |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 39,500 |
| 70+ | Number | 2 | 2 | 2 | 6 | 1 | 0 | 0 | 0 | 13 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
| Total | Number | 561 | 241 | 365 | 192 | 59 | 26 | 3 | 1 | 1,448 |
|  | Total Salary | 20,117,969 | 10,791,981 | 17,298,592 | 9,300,780 | 3,340,281 | 1,507,646 | N/A | N/A | 62,574,982 |
|  | Average Salary | 35,861 | 44,780 | 47,393 | 48,442 | 56,615 | 57,986 | N/A | N/A | 43,215 |

Section 3.2-Age and Service Distribution of Active Members as of December 31, 2015 - Sheriff's Department (continued)

| Attained Age |  | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | Over 34 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-19 | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-24 | Number |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
|  | Total Salary | 1,041,406 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,041,406 |
|  | Average Salary | 38,571 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38,571 |
| 25-29 | Number | 54 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 58 |
|  | Total Salary | 2,396,924 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 2,634,611 |
|  | Average Salary | 44,387 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 45,424 |
| 30-34 | Number | 25 | 14 | 21 | 0 | 0 | 0 | 0 | 0 | 60 |
|  | Total Salary | 1,104,212 | N/A | 1,457,155 | 0 | 0 | 0 | 0 | 0 | 3,427,785 |
|  | Average Salary | 44,168 | N/A | 69,386 | 0 | 0 | 0 | 0 | 0 | 57,130 |
| 35-39 | Number | 5 | 4 | 36 | 13 | 0 | 0 | 0 | 0 | 58 |
|  | Total Salary | N/A | N/A | 2,394,211 | N/A | 0 | 0 | 0 | 0 | 3,888,701 |
|  | Average Salary | N/A | N/A | 66,506 | N/A | 0 | 0 | 0 | 0 | 67,047 |
| 40-44 | Number | 7 | 4 | 25 | 39 | 11 | 0 | 0 | 0 | 86 |
|  | Total Salary | N/A | N/A | 1,597,191 | 2,930,514 | N/A | 0 | 0 | 0 | 5,845,257 |
|  | Average Salary | N/A | N/A | 63,888 | 75,141 | N/A | 0 | 0 | 0 | 67,968 |
| 45-49 | Number | 5 | 5 | 13 | 24 | 26 | 0 | 0 | 0 | 73 |
|  | Total Salary | N/A | N/A | N/A | 1,843,278 | 1,931,944 | 0 | 0 | 0 | 5,122,191 |
|  | Average Salary | N/A | N/A | N/A | 76,803 | 74,306 | 0 | 0 | 0 | 70,167 |
| 50-54 | Number | 3 | 2 | 16 | 3 | 8 | 3 | 0 | 0 | 35 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 2,292,002 |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 65,486 |
| 55-59 | Number | 1 | 1 | 4 | 2 | 2 | 0 | 0 | 0 | 10 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
| 60-64 | Number | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
|  | Total Salary | 0 | 0 | 0 | 0 | N/A | 0 | 0 | 0 | N/A |
|  | Average Salary | 0 | 0 | 0 | 0 | N/A | 0 | 0 | 0 | N/A |
| 65-59 | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70+ | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | Number | 127 | 34 | 115 | 81 | 48 | 3 | 0 | 0 | 408 |
|  | Total Salary | 5,322,105 | 2,132,159 | 7,575,409 | 6,131,297 | 3,471,779 | N/A | 0 | 0 | 24,904,062 |
|  | Average Salary | 41,906 | 62,711 | 65,873 | 75,695 | 72,329 | N/A | 0 | 0 | 61,039 |

Section 3.2-Age and Service Distribution of Active Members as of December 31, 2015 - Road Commission (continued)

| Attained Age |  | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | Over 34 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-19 | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-24 | Number | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | Total Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 25-29 | Number | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
|  | Total Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 30-34 | Number | 8 | 1 | 8 | 2 | 0 | 0 | 0 | 0 | 19 |
|  | Total Salary | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | N/A |
| 35-39 | Number | 6 | 1 | 14 | 9 | 0 | 0 | 0 | 0 | 30 |
|  | Total Salary | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 1,772,749 |
|  | Average Salary | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 59,092 |
| 40-44 | Number | 5 | 1 | 16 | 14 | 6 | 0 | 0 | 0 | 42 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 2,666,833 |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 63,496 |
| 45-49 | Number | 6 | 0 | 5 | 12 | 16 | 14 | 1 | 0 | 54 |
|  | Total Salary | N/A | 0 | N/A | N/A | N/A | N/A | N/A | 0 | 3,520,449 |
|  | Average Salary | N/A | 0 | N/A | N/A | N/A | N/A | N/A | 0 | 65,193 |
| 50-54 | Number | 6 | 0 | 8 | 4 | 8 | 2 | 0 | 0 | 28 |
|  | Total Salary | N/A | 0 | N/A | N/A | N/A | N/A | 0 | 0 | 1,787,630 |
|  | Average Salary | N/A | 0 | N/A | N/A | N/A | N/A | 0 | 0 | 63,844 |
| 55-59 | Number | 3 | 2 | 4 | 4 | 1 | 0 | 0 | 0 | 14 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | N/A |
| 60-64 | Number | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | Total Salary | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | 0 | 0 | N/A | 0 | 0 | 0 | 0 | 0 | N/A |
| 65-59 | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 70+ | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | Number | 44 | 6 | 56 | 45 | 31 | 16 | 1 | 0 | 199 |
|  | Total Salary | 1,815,998 | N/A | 3,539,465 | 2,990,060 | 2,116,236 | N/A | N/A | 0 | 11,917,815 |
|  | Average Salary | 41,273 | N/A | 63,205 | 66,446 | 68,266 | N/A | N/A | 0 | 59,889 |

Section 3.2-Age and Service Distribution of Active Members as of December 31, 2015 (continued)

| Attained Age |  | 0-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | Over 34 | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15-19 | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20-24 | Number | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
|  | Total Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 25-29 | Number | 14 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
|  | Total Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 30-34 | Number | 21 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
|  | Total Salary | 786,208 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 900,665 |
|  | Average Salary | 37,438 | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 37,528 |
| 35-39 | Number | 17 | 9 | 3 | 0 | 0 | 0 | 0 | 0 | 29 |
|  | Total Salary | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 1,046,424 |
|  | Average Salary | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 36,084 |
| 40-44 | Number | 11 | 7 | 2 | 1 | 0 | 0 | 0 | 0 | 21 |
|  | Total Salary | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 716,480 |
|  | Average Salary | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 34,118 |
| 45-49 | Number | 15 | 6 | 7 | 4 | 3 | 0 | 0 | 0 | 35 |
|  | Total Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 1,144,296 |
|  | Average Salary | N/A | N/A | N/A | N/A | N/A | 0 | 0 | 0 | 32,694 |
| 50-54 | Number | 18 | 1 | 3 | 0 | 0 | 0 | 0 | 0 | 22 |
|  | Total Salary | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 783,157 |
|  | Average Salary | N/A | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 35,598 |
| 55-59 | Number | 10 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 11 |
|  | Total Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 60-64 | Number | 2 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 6 |
|  | Total Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | N/A | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 65-59 | Number | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
|  | Total Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
|  | Average Salary | N/A | 0 | 0 | 0 | 0 | 0 | 0 | 0 | N/A |
| 70+ | Number | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Total Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
|  | Average Salary | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | Number | 113 | 32 | 15 | 5 | 3 | 0 | 0 | 0 | 168 |
|  | Total Salary | 3,726,689 | 1,310,823 | N/A | N/A | N/A | 0 | 0 | 0 | 5,857,665 |
|  | Average Salary | 32,980 | 40,963 | N/A | N/A | N/A | 0 | 0 | 0 | 34,867 |


|  | Active Data | Deferred Benefits ${ }^{1}$ | Inactive Members |  |  |  | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | DROP | Retired Members | Disabled <br> Members | Beneficiaries |  |
| As of December 31, 2014 | 2,134 | 226 | 294 | 2,099 | 149 | 243 | 5,145 |
| Changes due to: |  |  |  |  |  |  |  |
| Age/Service Retirements | (37) | (11) | 0 | 48 | 0 | 0 | 0 |
| Disability Retirements | (1) | (1) | 0 | 0 | 2 | 0 | 0 |
| Deaths Without Beneficiary | 0 | 0 | 0 | (38) | (9) | (22) | (69) |
| Deaths With Beneficiary | (2) | 0 | (2) | (34) | (2) | 40 | 0 |
| Non-Vested Terminations | (41) | 0 | 0 | 0 | 0 | 0 | (41) |
| Vested Terminations | (93) | 93 | 0 | 0 | 0 | 0 | 0 |
| Rehires | 9 | (9) | 0 | 0 | 0 | 0 | 0 |
| Cash-Outs | (10) | (4) | 0 | 0 | 0 | 0 | (14) |
| Expiration of Benefits | 0 | 0 | 0 | (1) | 0 | (5) | (6) |
| Data Corrections | 0 | $358{ }^{1}$ | 0 | (14) | (46) | 72 | 370 |
| Transfers Out | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DROP | (76) | 0 | 46 | 30 | 0 | 0 | 0 |
| New Entrants | 340 | 0 | 0 | 0 | 0 | 37 | 377 |
| Net Change | 89 | 426 | 44 | (9) | (55) | 122 | 617 |
| As of December 31, 2015 | 2,223 | 652 | 338 | 2,090 | 94 | 365 | 5,762 |

[^3]Section 3.4-Schedule of Active Member Data

| Valuation Date | General County | Sheriff's Department | Number <br> Road Commission | Martha T. Berry | Total | Annual Earnings | Annual Average Earnings | Percent Increase / (Decrease) in Average Earnings |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| December 31, 2009 | 1,497 | 419 | 245 | 164 | 2,325 | 116,522,938 | 50,117 |  |
| December 31, 2010 | 1,452 | 401 | 230 | 174 | 2,257 | 110,795,240 | 49,090 | (2.0)\% |
| December 31, 2011 | 1,422 | 390 | 216 | 170 | 2,198 | 108,900,180 | 49,545 | 0.9\% |
| December 31, 2012 | 1,334 | 376 | 213 | 156 | 2,079 | 105,391,874 | 50,694 | 2.3\% |
| December 31, 2013 | 1,328 | 377 | 207 | 156 | 2,068 | 102,252,875 | 49,445 | (2.5)\% |
| December 31, 2014 | 1,392 | 380 | 214 | 148 | 2,134 | 110,159,004 | 51,621 | 4.4\% |
| December 31, 2015 | 1,448 | 408 | 199 | 168 | 2,223 | 105,254,524 | 47,348 | (8.3)\% |

Section 3.5 - Schedule of Inactive Member Data

| Valuation Date | General County | Number |  |  |  | Annual Retirement Benefits |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Sheriff's Department | Road Commission | Martha <br> T. Berry | Total |  | Average Annual Retirement Benefits |
| December 31, 2013 | 185 | 18 | 14 | 19 | 236 | 2,795,885 | 11,847 |
| December 31, 2014 | 179 | 18 | 13 | 16 | 226 | 2,610,266 | 11,550 |
| December 31, 2015 | 475 | 51 | 3 | 123 | 652 | 3,527,398 | 5,410 |

Section 3.6 - Schedule of Retired Members by Type of Benefit and Option Elected

| Amount of Monthly Pension Benefit |  |  |  | Type of Pension Benefit |  |  |  | Option Selected |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Number of Recipients | 1 | 2 | 3 | 1 | 3 | 4 | 5 |
| \$ | 1 | - | \$ 300 | 115 | 59 | 53 | 3 | 80 | 9 | 22 | 4 |
|  | 301 | - | 600 | 354 | 260 | 81 | 13 | 180 | 37 | 65 | 72 |
|  | 601 | - | 900 | 373 | 297 | 62 | 14 | 164 | 46 | 59 | 104 |
|  | 901 | - | 1,200 | 318 | 259 | 41 | 18 | 121 | 37 | 65 | 95 |
|  | 1,201 | - | 1,500 | 224 | 185 | 27 | 12 | 81 | 33 | 45 | 65 |
|  | 1,501 | - | 1,800 | 209 | 173 | 26 | 10 | 82 | 25 | 38 | 64 |
|  | 1,801 | - | 2,100 | 189 | 154 | 23 | 12 | 56 | 28 | 54 | 51 |
|  | 2,101 | - | 2,400 | 161 | 145 | 13 | 3 | 43 | 21 | 46 | 51 |
|  | 2,401 | - | 2,700 | 130 | 119 | 10 | 1 | 35 | 20 | 32 | 43 |
|  | 2,701 | - | 3,000 | 117 | 106 | 10 | 1 | 27 | 13 | 41 | 36 |
|  | 3,001 | - | 3,300 | 92 | 81 | 10 | 1 | 18 | 7 | 33 | 34 |
|  | 3,301 | - | 3,600 | 70 | 66 | 2 | 2 | 14 | 6 | 19 | 31 |
|  | 3,601 | - | 3,900 | 54 | 50 | 2 | 2 | 13 | 6 | 20 | 15 |
|  | 3,901 | - | 4,200 | 37 | 35 | 1 | 1 | 5 | 4 | 12 | 16 |
| Over \$4,200 |  |  |  | 106 | 101 | 4 | 1 | 21 | 8 | 43 | 34 |
| Totals |  |  |  | 2,549 | 2,090 | 365 | 94 | 940 | 300 | 594 | 715 |

Type Of Pension Benefit

1. Regular retirement
2. Survivor payment
3. Disability

Option Selected
$1=$ Straight Life
3 = Years Certain
4 = Joint and Survivor
5 = Pop-Up

## CONDUENT

Section 3.6a - Schedule of DROP Participants by Option Elected

| Amount of Monthly Pension Benefit |  |  | Option Selected |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Number of Recipients | 1 | 3 | 4 | 5 |
| \$ 1 | - \$ 300 | 0 | 0 | 0 | 0 | 0 |
| 301 | - 600 | 4 | 2 | 0 | 0 | 2 |
| 601 | - 900 | 32 | 9 | 1 | 4 | 18 |
| 901 | - 1,200 | 39 | 11 | 5 | 6 | 17 |
| 1,201 | - 1,500 | 37 | 10 | 1 | 8 | 18 |
| 1,501 | - 1,800 | 30 | 8 | 1 | 5 | 16 |
| 1,801 | - 2,100 | 26 | 11 | 4 | 7 | 4 |
| 2,101 | - 2,400 | 28 | 4 | 4 | 7 | 13 |
| 2,401 | - 2,700 | 21 | 5 | 1 | 6 | 9 |
| 2,701 | - 3,000 | 33 | 8 | 0 | 6 | 19 |
| 3,001 | - 3,300 | 16 | 5 | 2 | 3 | 6 |
| 3,301 | - 3,600 | 16 | 3 | 0 | 3 | 10 |
| 3,601 | - 3,900 | 8 | 0 | 1 | 1 | 6 |
| 3,901 | - 4,200 | 9 | 2 | 0 | 2 | 5 |
| Over \$4,200 |  | 39 | 7 | 3 | 12 | 17 |
| Totals |  | 338 | 85 | 23 | 70 | 160 |
| Option Selected |  |  |  |  |  |  |
| 1 = Straight Life |  |  |  |  |  |  |
| 3 = Years Certain |  |  |  |  |  |  |
| 4 = Joint and Survivor |  |  |  |  |  |  |
| 5 = Pop-Up |  |  |  |  |  |  |

## Section 3.7-Schedule of Benefit Payments

| Attained Age | Regular Retirement \& Survivor Payment |  | Disability |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | Annual Allowances | No. | Annual Allowances | No. | Annual Allowances |
| Under 30 | 9 | 99,066 | 0 | 0 | 9 | 99,066 |
| 30-34 | 8 | 113,718 | 0 | 0 | 8 | 113,718 |
| 35-39 | 2 | 46,943 | 1 | 22,925 | 3 | 69,869 |
| 40-44 | 6 | 24,881 | 4 | 69,381 | 10 | 94,262 |
| 45-49 | 10 | 204,405 | 13 | 314,782 | 23 | 519,186 |
| 50-54 | 105 | 3,018,832 | 15 | 274,463 | 120 | 3,293,296 |
| 55-59 | 286 | 8,443,906 | 14 | 312,756 | 300 | 8,756,661 |
| 60-64 | 461 | 10,729,657 | 13 | 200,295 | 474 | 10,929,952 |
| 65-69 | 524 | 10,796,426 | 10 | 140,964 | 534 | 10,937,390 |
| 70-74 | 378 | 7,180,316 | 10 | 113,704 | 388 | 7,294,020 |
| 75 | 62 | 995,953 | 2 | 21,166 | 64 | 1,017,119 |
| 76 | 50 | 892,581 | 1 | 6,030 | 51 | 898,611 |
| 77 | 52 | 957,281 | 0 | 0 | 52 | 957,281 |
| 78 | 46 | 636,987 | 3 | 35,051 | 49 | 672,039 |
| 79 | 45 | 654,680 | 0 | 0 | 45 | 654,680 |
| 80 | 34 | 455,992 | 1 | 15,285 | 35 | 471,277 |
| 81 | 37 | 520,299 | 2 | 15,407 | 39 | 535,705 |
| 82 | 36 | 495,777 | 0 | 0 | 36 | 495,777 |
| 83 | 42 | 480,016 | 1 | 9,667 | 43 | 489,683 |
| 84 | 40 | 399,558 | 2 | 13,199 | 42 | 412,757 |
| 85 | 20 | 266,226 | 1 | 1,637 | 21 | 267,864 |
| 86 | 47 | 498,883 | 0 | 0 | 47 | 498,883 |
| 87 | 29 | 362,747 | 1 | 6,813 | 30 | 369,559 |
| 88 | 24 | 278,987 | 0 | 0 | 24 | 278,987 |
| 89 | 20 | 221,009 | 0 | 0 | 20 | 221,009 |
| 90 | 25 | 251,138 | 0 | 0 | 25 | 251,138 |
| 91 | 11 | 78,357 | 0 | 0 | 11 | 78,357 |
| 92 | 13 | 97,612 | 0 | 0 | 13 | 97,612 |
| 93 | 6 | 36,892 | 0 | 0 | 6 | 36,892 |
| 94 | 5 | 29,749 | 0 | 0 | 5 | 29,749 |
| 95 | 5 | 46,108 | 0 | 0 | 5 | 46,108 |
| 96 | 8 | 22,565 | 0 | 0 | 8 | 22,565 |
| 97 | 5 | 44,626 | 0 | 0 | 5 | 44,626 |
| 98 | 2 | 9,395 | 0 | 0 | 2 | 9,395 |
| 99 | 0 | 0 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 | 0 | 0 |
| 101 | 1 | 2,417 | 0 | 0 | 1 | 2,417 |
| 102 | 0 | 0 | 0 | 0 | 0 | 0 |
| 103 | 1 | 4,685 | 0 | 0 | 1 | 4,685 |
| Total | 2,455 | 49,398,670 | 94 | 1,573,525 | 2,549 | 50,972,195 |

Section 3.7a - Schedule of Benefit Payments

| Deferred Vested Members |  |  |
| :---: | :---: | :---: |
| Attained Age | No. | Estimated Annual Allowances |
| Under 30 | 42 | 0 |
| 30 | 53 | 2,955 |
| 31 | 78 | 16,407 |
| 32 | 94 | 74,281 |
| 33 | 92 | 76,281 |
| 34 | 142 | 76,987 |
| 35 | 101 | 91,433 |
| 36 | 29 | 55,609 |
| 37 | 14 | 5,090 |
| 38 | 4 | 5,655 |
| 39 | 1 | 391 |
| 40 | 0 | 0 |
| 41 | 0 | 0 |
| 42 | 0 | 0 |
| 43 | 0 | 0 |
| 44 | 2 | 356 |
| 45 | 0 | 0 |
| 46 | 0 | 0 |
| 47 | 0 | 0 |
| 48 | 0 | 0 |
| 49 | 0 | 0 |
| 50 | 0 | 0 |
| 51 | 0 | 0 |
| 52 | 0 | 0 |
| 53 | 0 | 0 |
| 54 | 0 | 0 |
| 55 | 0 | 0 |
| 56 | 0 | 0 |
| 57 | 0 | 0 |
| 58 | 0 | 0 |
| 59 | 0 | 0 |
| 60 | 0 | 0 |
| 61 | 0 | 0 |
| 62 | 0 | 0 |
| 63 | 0 | 0 |
| 64 | 0 | 0 |
| 65 | 0 | 0 |
| 66 | 0 | 0 |
| 67 | 0 | 0 |
| Total | 652 | 3,198,234 |

Section 3.7b - Schedule of Benefit Payments

| Attained Age | DROP Members |  |
| :---: | :---: | :---: |
|  | No. | Estimated Annual Allowances |
| Under 30 | 0 | 0 |
| 30 | 0 | 0 |
| 31 | 0 | 0 |
| 32 | 0 | 0 |
| 33 | 0 | 0 |
| 34 | 0 | 0 |
| 35 | 0 | 0 |
| 36 | 0 | 0 |
| 37 | 0 | 0 |
| 38 | 0 | 0 |
| 39 | 0 | 0 |
| 40 | 0 | 0 |
| 41 | 0 | 0 |
| 42 | 0 | 0 |
| 43 | 0 | 0 |
| 44 | 0 | 0 |
| 45 | 0 | 0 |
| 46 | 3 | 86,313 |
| 47 | 2 | 107,238 |
| 48 | 4 | 179,766 |
| 49 | 7 | 338,439 |
| 50 | 18 | 630,347 |
| 51 | 27 | 1,001,895 |
| 52 | 27 | 841,812 |
| 53 | 26 | 933,271 |
| 54 | 25 | 813,716 |
| 55 | 20 | 532,486 |
| 56 | 20 | 568,658 |
| 57 | 20 | 606,477 |
| 58 | 21 | 502,004 |
| 59 | 21 | 375,674 |
| 60 | 17 | 384,306 |
| 61 | 21 | 334,362 |
| 62 | 16 | 275,302 |
| 63 | 14 | 337,013 |
| 64 | 7 | 150,206 |
| 65 | 8 | 190,777 |
| 66 | 2 | 14,033 |
| 67 | 1 | 9,012 |
| 68 | 11 | 255,553 |
| Total | 338 | 9,468,687 |

## Section 4: Actuarial Assumptions and Methods and Additional Information for Funding

Valuation Date

12/31/2015
Actuarial Methods
Actuarial Cost Method
Entry Age
Amortization Method
Period
18 years. Iniitally established as 20 years with the December 31, 2013 annual actuarial valuation
Open or Closed
Closed - each year the period is expected to reduce by 1 year
Aggregate or Layered basis
Aggregate - the entire UAAL as of the valuation date is amortized
UAAL Payment Increase
The UAAL payments are developed such that they increase by $5 \%$ per year
Assets Valuation Method
5-year adjusted market value
Actuarial Assumptions
Investment Rate of Return $\quad$ 7.25\%
Payroll Increases 4.0\%-10.0\% Vary by Employee Group
Inflation Assumption 3.00\%
Marriage Assumption
$100 \%$ of males and $100 \%$ of females are married, with males three years older than their female spouse.

## Expenses

Previous year's administrative expense increased by the inflation assumption and allocated by employer payroll.

## Participant Data

All census data used in these calculations was supplied by the employer.

Section 4 - Actuarial Assumptions, Methods and Additional Information for Funding
Retirement age:
According to the following rates upon the attainment of retirement eligibility.

| Normal Retirement Age Category (see Section 4) |  |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Age | General | Sheriff's |  | Road | MTB | Retirement <br> Service |
| 50 | $15 \%$ | - | - | $15 \%$ | 25 | Sheriff's <br> Department |
| 51 | $15 \%$ | - | - | $15 \%$ | 26 | $40 \%$ |
| 52 | $15 \%$ | - | - | $15 \%$ | 27 | $40 \%$ |
| 53 | $15 \%$ | - | - | $15 \%$ | 28 | $40 \%$ |
| 54 | $15 \%$ | - | - | $15 \%$ | 29 | $40 \%$ |
| 55 | $15 \%$ | - | $25 \%$ | $15 \%$ | 30 | $40 \%$ |
| 56 | $15 \%$ | - | $25 \%$ | $15 \%$ | 31 | $35 \%$ |
| 57 | $15 \%$ | - | $25 \%$ | $15 \%$ | 32 | $35 \%$ |
| 58 | $15 \%$ | - | $25 \%$ | $15 \%$ | 33 | $35 \%$ |
| 59 | $25 \%$ | - | $25 \%$ | $25 \%$ | 34 | $35 \%$ |
| 60 | $25 \%$ | $25 \%$ | $25 \%$ | $25 \%$ | $35 \& U p$ | $100 \%$ |
| 61 | $25 \%$ | $25 \%$ | $30 \%$ | $25 \%$ | - | - |
| 62 | $25 \%$ | $25 \%$ | $30 \%$ | $25 \%$ | - | - |
| 63 | $25 \%$ | $25 \%$ | $30 \%$ | $25 \%$ | - | - |
| 64 | $25 \%$ | $25 \%$ | $30 \%$ | $25 \%$ | - | - |
| 65 | $25 \%$ | $100 \%$ | $100 \%$ | $25 \%$ | - | - |
| 66 | $25 \%$ | - | - | $25 \%$ | - | - |
| 67 | $25 \%$ | - | - | $25 \%$ | - | - |
| 68 | $25 \%$ | - | - | $25 \%$ | - | - |
| 69 | $25 \%$ | - | - | $25 \%$ | - | - |
| $70 \& 4 p$ | $100 \%$ | - | - | $100 \%$ | - | - |

## Section 4 - Actuarial Assumptions, Methods and Additional Information for Funding

For all General County and Martha T. Berry MCF members hired on or after January 1, 2002 the following retirement probabilities will apply:

| Retirement Rates |  |  |
| :---: | :---: | :---: |
| Retirement Ages | General County | Martha T. Berry MCF |
| 55 | $10 \%$ | $10 \%$ |
| 56 | $10 \%$ | $10 \%$ |
| 57 | $10 \%$ | $10 \%$ |
| 58 | $10 \%$ | $10 \%$ |
| 59 | $20 \%$ | $20 \%$ |
| 60 | $20 \%$ | $20 \%$ |
| 61 | $20 \%$ | $20 \%$ |
| 62 | $25 \%$ | $25 \%$ |
| 63 | $25 \%$ | $25 \%$ |
| 64 | $25 \%$ | $25 \%$ |
| 65 | $25 \%$ | $25 \%$ |
| 66 | $25 \%$ | $25 \%$ |
| 67 | $25 \%$ | $25 \%$ |
| 68 | $25 \%$ | $25 \%$ |
| 69 | $25 \%$ | $25 \%$ |
| $70 \&$ Up | $100 \%$ | $100 \%$ |

## Healthy Mortality

RP2014 Blue Collar for Road Commission and Sheriffs and RP2014 for all others, both with MP2016 mortality improvement scale

## Disability Incidence

| Disability Rates |  |
| :---: | :---: |
| Age | \% of Active Members Becoming Disabled within Next Year |
| 25 | $0.09 \%$ |
| 30 | $0.11 \%$ |
| 35 | $0.15 \%$ |
| 40 | $0.22 \%$ |
| 45 | $0.36 \%$ |
| 50 | $0.61 \%$ |
| 55 | $1.01 \%$ |
| 60 | $1.66 \%$ |

Section 4 - Actuarial Assumptions, Methods and Additional Information for Funding
Turnover

| \% of Active Members Separating within Next Year <br> Sample AgeYears of <br> Service |  |  |  |  |  |
| :---: | ---: | ---: | ---: | ---: | ---: |
| ALL | General <br> County | Sheriff's <br> Department | Road <br> Commission | Martha T <br> Berry MCF |  |
|  | 1 | $12.00 \%$ | $4.00 \%$ | $6.50 \%$ | $12.00 \%$ |
|  | 2 | $8.00 \%$ | $4.00 \%$ | $6.00 \%$ | $9.00 \%$ |
|  | 3 | $6.00 \%$ | $3.00 \%$ | $5.50 \%$ | $8.00 \%$ |
| 25 | 5 | $6.00 \%$ | $3.00 \%$ | $5.00 \%$ | $6.00 \%$ |
| 30 |  | $5.80 \%$ | $1.60 \%$ | $4.50 \%$ | $6.00 \%$ |
| 35 |  | $5.30 \%$ | $1.10 \%$ | $2.50 \%$ | $5.80 \%$ |
| 40 |  | $4.30 \%$ | $1.00 \%$ | $2.00 \%$ | $5.30 \%$ |
| 45 |  | $3.30 \%$ | $0.75 \%$ | $1.50 \%$ | $4.30 \%$ |
| 50 |  | $2.30 \%$ | $0.50 \%$ | $1.00 \%$ | $3.30 \%$ |
| 55 |  | $1.80 \%$ | $0.25 \%$ | $0.50 \%$ | $1.80 \%$ |
| 60 |  | $1.75 \%$ | $0.25 \%$ | $0.50 \%$ | $1.75 \%$ |
|  |  | $1.50 \%$ | $0.25 \%$ | $0.50 \%$ | $1.50 \%$ |

## Changes Since the Prior Valuation

- The mortality table was updated from RP2000 projected to 2015 to RP2014 Blue Collar for Road Commission and Sheriffs and RP 2014 for all others
- The MP2016 mortality improvement scale was added for all. The prior actuarial valuation did not include any mortality improvement.
- Base pay projections and inflation was reduced from $5.00 \%$ to $3.00 \%$
- Investment return was reduced from $7.50 \%$ to $7.25 \%$
- The administrative expense load was changed from $0.10 \%$ of payroll to the previous year's administrative expense increased by the inflation assumption and allocated by employer payroll.


## Section 5: Summary of Plan Provisions

| Division Code | Division Name | Benefit Tier | Service <br> Needed <br> to Vest | DROP <br> Eligible? | Retirement Eligibility (Age/Service) | Multiplier | Employer Maximum | FAC <br> Period | Employee Contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | General Non Union | Hired on or before 12/31/01 or vested by 2/26/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \text { No } \\ & \text { No } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} 60 / 8 \text {, Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 2 | UAW Animal Shelter | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after $1 / 1 / 2002$ \& before $1 / 1 / 2012$ Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} 60 / 8 \text {, Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 3 | AFSCME Local 411 | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* }^{*} \\ & \text { Yes* } \\ & \text { No } \end{aligned}$ | $60 / 8$, Rule of 70 (min age 50) $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 6 | Macomb County Environmental Heath Association | Hired on or before 12/31/01 or vested by 5/1/09 Hired on/after $1 / 1 / 2002$ \& before $1 / 1 / 2012$ Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 60 / 8 \text {, Rule of } 70 \text { (min age 50) } \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 8 | Teamsters 214 Court Reporters | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{gathered} \hline \text { Yes* } \\ \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | $60 / 8$, Rule of 70 (min age 50) $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 9 | International Union of Operating Engineers (Boiler Operators) | Hired on or before $12 / 31 / 01$ or vested by $5 / 1 / 09$ Hired on/after 1/1/2002 \& before $1 / 1 / 2012$ Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $60 / 8$, Rule of 70 (min age 50) $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 10 | TPOAM Circuit Court Officers | Hired on or before 12/31/01 or vested by 7/24/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{gathered} \hline \text { Yes* } \\ \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | $60 / 8$, Rule of 70 (min age 50) $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 11 | MNA Unit I Heath Dept. | Hired on or before $12 / 31 / 01$ or vested by $5 / 1 / 09$ Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* }^{*} \\ & \text { Yes* } \\ & \text { No } \end{aligned}$ | $60 / 8$, Rule of 70 (min age 50) $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{gathered}$ | $\begin{aligned} & 65 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & \hline \end{aligned}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 12 | UAW Local 412 Unit 49 Information Technology | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years <br> 8 years <br> 15 years | $\begin{gathered} \text { Yes* } \\ \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | $\begin{gathered} 60 / 8 \text {, Rule of } 70(\min \text { age 50) } \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 13 | UAW Local 889 Specialized Offices | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after $1 / 1 / 2002$ \& before $1 / 1 / 2012$ Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $60 / 8$, Rule of 70 (min age 50) $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 15 | Building Trades Association | Hired on or before 12/31/01 or vested by 5/1/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \end{aligned}$ | $60 / 8$, Rule of 70 (min age 50) $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{gathered} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{gathered}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |

* Must be vested on 12/31/2012, otherwise not eligible for DROP.

Section 5 - Summary of Plan Provisions

| Division Code | Division Name | Benefit Tier | Service Needed to Vest | DROP Eligible? | Retirement Eligibility (Age/Service) | Multiplier | Employer Maximum | FAC Period | Employee Contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16 | UAW Local 412 Unity 46 Assistant Prosecutors | Hired on or before 12/31/01 or vested by 9/14/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 60 / 8, \text { Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 18 | Teamsters Local 214 FOC/Circuit Court | Hired on or before 12/31/01 or vested by 7/24/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{array}{\|c} \hline 60 / 8 \text {, Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 19 | General | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 60 / 8 \text {, Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{aligned} & 65 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & \hline \end{aligned}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 21 | POAM JJC | Hired on or before 12/31/01 or vested by 5/1/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years <br> 8 years <br> 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 60 / 8, \text { Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{aligned} & \hline 65 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & \hline \end{aligned}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 24 | UAW Local 889 MCCSA | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* }^{*} \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{array}{\|c} \hline 60 / 8, \text { Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 25 | UAW Local 412 Unit 75 Supervisors | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 60 / 8 \text {, Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 27 | TPOAM Macomb Co. Senior Service Employees Association | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{array}{\|c} \hline 60 / 8 \text {, Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{array}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 28 | TPOAM Juvenile Court \& Justice Center Employees | Hired on or before 12/31/01 or vested by 6/19/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} 60 / 8 \text {, Rule of } 70(\min \text { age 50) } \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{aligned} & \hline 65 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & \hline \end{aligned}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 30 | UAW Local 412 Unit 95 Assistant Corporation Counsel | Hired on or before 12/31/01 or vested by 2/27/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 60 / 8 \text {, Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{aligned} & 65 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & \hline \end{aligned}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 43 | UAW Local 889 Probate Court/ Corporation Counsel | Hired on or before 12/31/01 or vested by 6/19/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{gathered} \hline 60 / 8, \text { Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 65 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 44 | UAW Local 412 - Unit 98 MCCSA Professionals | Hired on or before 12/31/01 or vested by 2/26/09 Hired on/after 1/1/2002 \& before 1/1/2012 Hired on/after 1/1/2012 | 8 years 8 years 15 years | $\begin{gathered} \hline \text { Yes* }^{*} \\ \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | $\begin{gathered} \hline 60 / 8, \text { Rule of } 70(\min \text { age } 50) \\ 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline 2.4 \% / 1 \%(26 \mathrm{yrs}) \\ 2.20 \% \\ 2.20 \% \\ \hline \end{array}$ | $\begin{aligned} & 65 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & \hline \end{aligned}$ | 4 years <br> 5 years <br> 5 years | $\begin{aligned} & \hline 3.5 \% \\ & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |

* Must be vested on 12/31/2012, otherwise not eligible for DROP.

Section 5 - Summary of Plan Provisions

| Division Code | Division Name | Benefit Tier | Service <br> Needed <br> to Vest | DROP <br> Eligible? | Retirement Eligibility (Age/Service) | Multiplier | Employer Maximum | FAC <br> Period | Employee Contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | POLC - Command | Hired before 8/20/2010 Hired on/after 8/20/2010 | 8 years 15 years | $\begin{aligned} & \text { Yes } \\ & \text { Yes } \end{aligned}$ | 60/8, 25 \& out 60/15, 25 \& out | $\begin{array}{\|l\|} \hline 2.4 \%(26 \mathrm{yrs}) / 1 \% \\ 2.4 \%(26 \mathrm{yrs}) / 1 \% \\ \hline \end{array}$ | $\begin{aligned} & 65 \% \text { of FAC } \\ & 65 \% \text { of FAC } \end{aligned}$ | 3 years <br> 3 years | $\begin{aligned} & 4 \% \\ & 4 \% \end{aligned}$ |
| 7 | POAM Deputies | Hired before 6/1/2013 <br> Hired into the County on or after 6/1/6013 | 8 years 15 years | $\begin{gathered} \hline \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | 60/8, 25 \& out 60/15, 25 \& out | 2.64\% for 25 yrs 2.64\% for 25 yrs | $\begin{array}{\|l\|} \hline 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 3 years 3 years | $\begin{aligned} & 4 \% \\ & 4 \% \end{aligned}$ |
| 7 | POAM Dispatchers | Hired before 6/1/2013 <br> Hired into the County on or after 6/1/6013 | 8 years 15 years | $\begin{gathered} \hline \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | 60/8, 25 \& out 60/15, 25 \& out | $\begin{array}{\|l} \hline 2.4 \%(26 \mathrm{yrs}) / 1 \% \\ 2.4 \%(26 \mathrm{yrs}) / 1 \% \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \end{array}$ | 3 years <br> 3 years | $\begin{aligned} & 4 \% \\ & 4 \% \end{aligned}$ |
| 20 | POLC Captains | Hired before 6/1/2013 <br> Hired into the County on or after 6/1/6013 | 8 years <br> 15 years | Yes Yes | $\begin{aligned} & 60 / 8,25 \text { \& out } \\ & 60 / 15,25 \text { \& out } \end{aligned}$ | $\begin{aligned} & \hline 2.4 \%(26 \mathrm{yrs}) / 1 \% \\ & \text { 2.4\%(26 yrs) / 1\% } \\ & \hline \end{aligned}$ | $\begin{aligned} & 65 \% \text { of FAC } \\ & 65 \% \text { of FAC } \end{aligned}$ | 3 years <br> 3 years | $\begin{aligned} & 4 \% \\ & 4 \% \end{aligned}$ |
| 26 | Corrections Officers | Hired before 6/1/2013 | 8 years | Yes* | 60/8, 25 \& out | 2.4\%(26 yrs) / 1\% | 66\% of FAC | 3 years | 4\% |
| 26 | Corrections Officers | Hired into the County on or after 6/1/6013 | 15 years | No | 60/15, 25 \& out | 2.4\%(26 yrs) / 1\% | 66\% of FAC | 3 years | 4\% |

* Must be vested on 12/31/2012, otherwise not eligible for DROP.

| Division Code | Division Name | Benefit Tier | Service Needed to Vest | DROP Eligible? | Retirement Eligibility (Age/Service) | Multiplier | Employer Maximum | FAC <br> Period | Employee Contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 31 | Road Commission Non Union | Hired into the County (Dept of Roads) before 4/1/11 | 8 years | No | 60/8, Rule of 70 (min age 55) | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
|  |  | Hired into the County (Dept of Roads) on or after 4/4/11 and before 6/1/13 | 8 years | No | 55/25, 60/8 | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
|  |  | Hired into the County (Dept of Roads) on or after 6/1/13 | 15 years | No | 55/25, 60/15 | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
| 32 | Road Commission ADTECH | Hired before 10/19/09 | 8 years | Yes* | 60/8, Rule of 70 (min age 55) | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
|  |  | Hired on/after 10/19/09 and before 12/17/13 | 8 years | Yes* | 55/25, 60/8 | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
|  |  | Hired on/after 12/17/13 | 15 years | No | 55/25, 60/15 | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
| 33 | Road Commission AFSCME Local 893 | Hired before 6/15/10 | 8 years | Yes* | Rule of 70 (min age 55) | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
|  |  | Hired on/after 6/15/10 and before 6/1/13 | 8 years | Yes* | 55/25, 65/8 | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |
|  |  | Hired on/after 6/1/13 | 15 years | No | 55/25, 65/15 | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 3 years | 3.5\% |

* Must be vested on 12/31/2012, otherwise not eligible for DROP.


## Section 5 - Summary of Plan Provisions

| Division Code | Division Name | Benefit Tier | Service <br> Needed to Vest | DROP <br> Eligible? | Retirement Eligibility (Age/Service) | Multiplier | Employer Maximum | FAC Period | Employee Contribution |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4 | MNA (RNs at MTB) | Hired before 1/1/2012 <br> Hired on or after 1/1/2012 | 8 years <br> 15 years | $\begin{gathered} \hline \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{aligned} & 2.20 \% \\ & 2.20 \% \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline 66 \% \text { of FAC } \\ 66 \% \text { of FAC } \\ \hline \end{array}$ | 5 years <br> 5 years | $\begin{aligned} & 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 5 | Service Employees International Union (LPNs at MTB) | Hired before 1/1/2012 <br> Hired on or after 1/1/2012 | 8 years 15 years | $\begin{gathered} \hline \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{gathered}$ | $\begin{aligned} & 2.20 \% \\ & 2.20 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \end{aligned}$ | 5 years 5 years | $\begin{aligned} & \hline 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 14 | AFSCME 411 MTB | Hired on or before 12/31/2001 or vested by 6/15/2009 | 8 years | Yes* | 60/8, Rule of 70 (min age 50) | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 4 years | 3.5\% |
|  |  | Hired on/after 1/1/2002 \& before 1/1/2012 Hired on or after 1/1/2012 | 8 years 15 years | $\begin{gathered} \hline \text { Yes* } \\ \text { No } \\ \hline \end{gathered}$ | $\begin{gathered} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \end{gathered}$ | $\begin{aligned} & \hline 2.20 \% \\ & 2.20 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \end{aligned}$ | 5 years 5 years | $\begin{aligned} & \hline 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |
| 40 | MTB Non Union Employees | Hired on or before 12/31/2001 or vested by 2/26/2009 | 8 years | No | 60/8, Rule of 70 (min age 50) | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 4 years | 3.5\% |
|  |  | Hired on/after 1/1/2002 \& before 1/1/2012 Hired on or after 1/1/2012 | 8 years 15 years | $\begin{aligned} & \hline \text { No } \\ & \text { No } \end{aligned}$ | $\begin{gathered} \hline 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \end{gathered}$ | $\begin{aligned} & \hline 2.20 \% \\ & 2.20 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \\ & \hline \end{aligned}$ | 5 years 5 years | $\begin{aligned} & \hline 2.5 \% \\ & 2.5 \% \end{aligned}$ |
| 42 | MTB UAW Supervisors | Hired on or before 12/31/2001 or vested by 2/26/2009 | 8 years | Yes* | 60/8, Rule of 70 (min age 50) | 2.4\% / 1\% (26 yrs) | 65\% of FAC | 4 years | 3.5\% |
|  |  | Hired on/after 1/1/2002 \& before 1/1/2012 Hired on or after 1/1/2012 | 8 years 15 years | $\begin{aligned} & \hline \text { Yes* } \\ & \text { No } \\ & \hline \end{aligned}$ | $\begin{array}{r} 55 / 25,60 / 8 \\ 55 / 25,60 / 15 \\ \hline \end{array}$ | $\begin{aligned} & 2.20 \% \\ & 2.20 \% \\ & \hline \end{aligned}$ | $\begin{aligned} & 66 \% \text { of FAC } \\ & 66 \% \text { of FAC } \end{aligned}$ | 5 years 5 years | $\begin{aligned} & \hline 2.5 \% \\ & 2.5 \% \\ & \hline \end{aligned}$ |

* Must be vested on 12/31/2012, otherwise not eligible for DROP.

Participation in the plan
The Retirement System is closed to new hires effective December 31, 2015

Termination Benefit
At termination, participants are eligible for a $\$ 1,000$ lump sum payment.

## Section 5 - Summary of Plan Provisions

## Summary of DROP Provisions

Please refer to the Appendix for DROP eligibility provisions. The other provisions of the DROP are listed below:

- The DROP is a forward DROP.
- Members can DROP when they first become eligible for an unreduced benefit.
- Upon entering the DROP, $100 \%$ of the member's monthly retirement benefit will be credited to the DROP account.
- The DROP account will be credited with the same interest rate used to accumulate member contributions (currently 3.5\%).
- The maximum DROP period is five years. Members may continue to work past the maximum DROP period but no additional retirement benefits will be credited to the member's DROP account. Interest on the DROP account will continue to accrue for members working past the maximum DROP period.
- Member contributions to the Retirement System will cease upon entering the DROP.
- Upon actual retirement, the member would receive a monthly annuity equal to the accrued benefit credited to the DROP account under any form of payment available from the plan, and the lump sum amount accumulated in the DROP account. Members elect their form of payment at time of DROP.
- The monthly annuity as of the DROP date is calculated based on service, final average compensation and benefit provisions as of the DROP date less the annuity withdrawal reduction, if applicable; this amount is not changed for any subsequent changes in pay or benefit provisions. The annuity withdrawal is paid at the time of DROP.
- For POLC (Union 1 \& 20) and MCDPSA (Union 26), interest is earned on the DROP account balance at the end of each month, and shall be paid to the employee's DROP account no later than the last day of the following month.
- For POLC (Union 1), effective August 20, 2010, for new entries into DROP, upon reaching the five year maximum DROP participation period, the DROP participant shall terminate his/her employment.
- For POAM (Union 7), effective August 6, 2010, an employee of Macomb County who is a member of the POAM-Deputies and Dispatchers, may voluntarily elect to participate in the DROP, upon obtaining the minimum age and service requirements for a normal service retirement.


## Glossary

## Actuarial Accrued Liability

Total accumulated cost to fund pension benefits arising from service in all prior years.

## Actuarial Cost Method

Technique used to assign or allocate, in a systematic and consistent manner, the expected cost of a pension plan for a group of plan members to the years of service that give rise to that cost.

## Actuarial Present Value of Future Benefits

Amount which, together with future interest, is expected to be sufficient to pay all future benefits.

## Actuarial Valuation

Study of probable amounts of future pension benefits and the necessary amount of contributions to fund those benefits.

## Actuary

Person who performs mathematical calculations pertaining to pension and insurance benefits based on specific procedures and assumptions.

GASB 67
Governmental Accounting Standards Board Statement Number 67.

## Maturity Ratio

The ratio of the actuarial accrued liability for members who are no longer active to the total actuarial accrued liability. A ratio of over $50 \%$ indicates a mature plan. The higher the maturity ratio, the more volatile the contribution rate will be from year to year given actuarial gains and losses.

## Normal Cost

That portion of the actuarial present value of benefits assigned to a particular year in respect to an individual participant or the plan as a whole.

Unfunded Actuarial Accrued Liability (UAAL)
The portion of the actuarial accrued liability not offset by plan assets.


[^0]:    ${ }^{1}$ Closed 20-year period beginning with December 31, 2014 Valuation

[^1]:    ${ }^{1}$ The rate of return is based on the change in the actuarial value of assets from last year to this year. The rate of return is calculated assuming contributions and disbursements occur halfway through the year.

[^2]:    ${ }^{1}$ Vested at time of termination, not refunded contributions or commenced benefit.

[^3]:    ${ }^{1}$ Includes participants owed a refund of their contributions.

