ANALYSIS OF UNPAID LOSSES AND ALAE AS OF JUNE 30, 2024

City of Chandler

September 12, 2024

Contents

1. Executive Summary

Purpose and Scope

Oliver Wyman Actuarial Consulting, Inc. (Oliver Wyman) has been engaged by the City of Chandler (the City) to review its retained workers compensation (WC) exposures. The purpose of this analysis is to estimate the City's unpaid losses and allocated loss adjustment expense (ALAE[1]) as well as claim cost projections.

It is intended that this analysis will be used by the City of Chandler solely as a guide in its determination of its financial statement liabilities related to its self-insured exposures and for forecasting loss costs for budgeting purposes.

The conclusions in this report are related to its stated purpose only and may not be applicable for other purposes.

Specifically, the scope of services includes the following items:

- Unpaid losses and ALAE as of June 30, 2024 for claims incurred through that same date.
- Projected ultimate losses and ALAE for policy period July 1, 2024-25.
- Estimates of the 70%, 80% and 90% probability levels of the unpaid losses and ALAE as well as the projected ultimate losses as of June 30, 2024.

The estimates as of June 30, 2024 (accounting date) are based on data evaluated as of June 30, 2024 (valuation date) and additional information provided to Oliver Wyman through August 9, 2024(review date).

The estimates are prepared on a nominal (undiscounted) basis, i.e. without considering the time value of money.

Additionally, estimates are presented as actuarial central estimates. An actuarial central estimate is defined as an expected value over the range of reasonably possible, as opposed to all conceivable, outcomes.

Estimates are also provided at varying probability levels which are either above or below the actuarial central estimate.

Amounts are provided net of non-insurance recoveries (e.g., salvage and subrogation) and are limited to the City's per occurrence retention. All insurance is considered to be valid and fully collectable.

Unless otherwise stated, all references to losses throughout this report and accompanying exhibits should be understood to include ALAE.

The scope of this project did not include the estimation of any expenses other than ALAE and ULAE that are sometimes associated with insurance programs. Such expenses include unallocated loss adjustment expense (ULAE), reinsurance premiums, the costs of trustee, legal, administrative, risk management and actuarial services, taxes, fees and assessments, and costs for surety bonds or letters of credit pertaining to outstanding liabilities or capital requirements. ULAE is the insurance industry term generally used to refer to any claims-handling costs that cannot be attributed to individual claims. Fees paid to third party administrators (TPAs) and salaries paid to in-house claim adjusters and in-house defense attorneys represent examples of this type of expense.

[1] ALAE is an insurance industry term which generally refers to defense, litigation and cost containment amounts

This report sets forth the results of Oliver Wyman's analysis and is accompanied by exhibits which should be considered integral parts of this report.

For limitations on distribution of this report please see the *Distribution and Use* section of this report.

Please note that all values in this report are in U.S. currency.

Actuarial Findings

Unpaid Losses and ALAE

Table 1 below summarizes the nominal unpaid losses & ALAE, at the appropriate self-insured retention (SIR) levels as of June 30, 2024. Estimates are presented both at an actuarial central estimate and the 70%, 80% and 90% probability levels.

Table 1: Estimated Unpaid Losses & ALAE

Evaluation Date	Actuarial Central Estimate	Probability Levels		
		70th	80th	90th
As of June 30, 2024	11,708,406	13,406,125	15,572,180	19,154,952
As of June 30, 2023	11,105,144	11,985,477	13,718,696	16,533,865
Change	*603,262*	*1,420,648*	*1,853,483*	*2,621,087*

The estimate of approximately $11.7 million as of June 30, 2024 represents an increase of approximately $603 thousand since the actuarial analysis performed as of June 30, 2023. This increase is driven by the inclusion of policy year 7/1/23 – 6/30/24 (which is at an increased retention level compared to policy period 7/1/21 – 6/30/22 and prior), partially offset by payments made and decreases in the estimated ultimates for previous policy periods driven by better than expected development. Actual incurred loss development over the last twelve months across policy years 7/1/22 – 6/30/23 and prior was $205 thousand, significantly less than the expected $1.27 million. However, payments made against policy years 7/1/22 – 6/30/23 and prior ($1.12 million) were also lower than expected ($1.94 million).

The increase is further amplified at the higher probability levels, as the increased retention brings additional volatility.

Forecasted Ultimate Losses and ALAE for Future Period

The nominal losses and ALAE expected to be incurred during policy period 7/1/24 – 6/30/25 by the City, with a self-insured retention of $3.0 million for police and fire employees and $1.5 million for all other employees, are as shown in Table 2 below.

Table 2: Projected Ultimate Losses & ALAE

Self-Insured Retention	Actuarial Central Estimate	Probability Levels		
		70th	80th	90th
1.5M / 3M	3,042,000	3,486,132	4,079,322	5,077,098

This forecast is based on Oliver Wyman's estimated loss costs (losses per unit of exposure) and the City's forecasted exposures of approximately $185 million in payroll. It should be noted that since the projected losses and ALAE are directly related to the forecasted exposures, if actual exposures differ from the forecast, the projected losses and ALAE should be adjusted accordingly.

The forecasted ultimate losses of $3.04 million reflects an increase of approximately $157 thousand from the forecasted ultimate losses provided in the previous report of $2.89 million. While the projected loss cost has decreased since the prior report, from $1.78 per $100 payroll to $1.65 per $100 payroll, the decrease was more than offset by an increase in the estimated exposure, from $163 million to $185 million.

Relevant Comments

Estimated unpaid losses and ALAE are composed of case reserves and an incurred but not reported (IBNR) provision. The case reserves are established by individual claim adjusters on open claims. Case reserves are based on the facts of a claim as they are known as of the valuation date; however, the ultimate value of each claim will likely differ from the current incurred estimate.

IBNR is estimated by Oliver Wyman and includes a provision for a) events that have occurred for which claims have not been reported; b) future development on known open claims; c) claims that have been reported but not yet recorded; and d) claims that have closed but will reopen.

The fact that the IBNR estimate includes a provision for development on known claims does not necessarily imply that there is a problem with the case reserves. Please note that Oliver Wyman's IBNR estimate is appropriate for all historical periods in aggregate but not necessarily for any one particular period.

Loss and ALAE estimates may be dependent on exposure projections; if actual exposures differ from projected amounts, loss and ALAE should be adjusted accordingly.

2. Background

Founded on May 17, 1912, the City of Chandler is located in the Greater Phoenix Valley of Arizona, located 20 miles from the Phoenix Sky Harbor Airport.

The City began self-insuring its Workers' Compensation exposures on July 1, 2002 and has maintained a self-insured retention since inception. Prior to that date, the City's Workers' Compensation liabilities were covered through a guaranteed cost program.

The City's self-insured retentions since July 1, 2002 are as displayed below. All self-insured retentions are assumed to be on a per occurrence basis and eroded by loss and ALAE.

Policy Years	Self-Insured Retention	
	Police / Fire	All Other
7/1/02-03 to 7/1/11-12	500,000	
7/1/12-13 to 7/1/14-15	600,000	
7/1/15-16 to 7/1/17-18	1,000,000	600,000
7/1/18-19 to 7/1/19-20	1,250,000	600,000
7/1/20-21	2,250,000	750,000
7/1/21-22	3,000,000	1,000,000
7/1/22-23 to 7/1/23-24	3,000,000	1,500,000

3. Data

For this study, Oliver Wyman relied upon the following information, provided by the City:

- Historical ground-up and unlimited detailed claims listing for both open and closed claims as of June 30, 2024
- Historical estimated and audited (where applicable) payrolls by period
- Historical retention limits by period

Additionally, Oliver Wyman relied on the following information:

- Oliver Wyman's prior study titled "*Actuarial Analysis of Workers' Compensation Unpaid Losses and ALAE as of June 30, 2023*" and dated September 13, 2023.
- Industry loss development factors, increased limit factors and benefit level changes from the Annual Statistical Bulletin published by the National Council on Compensation Insurance (NCCI)

4. Methodology

The estimates in this report are developed in accordance with generally accepted actuarial methodology and applicable standards of practice promulgated by the Actuarial Standards Board. Below is a discussion of the actuarial methodologies and assumptions underlying the analysis. Projections for the City assume that the patterns observed in historical periods will be applicable to future periods.

Oliver Wyman first selected ultimate losses limited to $75,000, which provides a more stable base for projections than the City's historical SIRs. Oliver Wyman then used the City's data supplemented with insurance industry data to adjust the estimates limited to $75,000 to the actual SIR by policy period.

To develop the estimates of limited ultimate losses, Oliver Wyman applied the following generally accepted actuarial techniques:

- Paid and incurred loss development methods
- Case reserve development method
- Paid and incurred Bornhuetter-Ferguson methods
- Frequency / severity method
- Loss cost method

The following describes each of these methods in more detail.

Loss Development Methods

Loss development methods involve estimating how a cohort of claims will change in value over time. This cohort of claims is typically defined as claims which have occurred over a span of time which is usually a full year which is referred to as a particular accident year. Oliver Wyman derived loss development patterns based on accident year development triangles created from available historical experience for the City, supplemented with insurance industry data where appropriate. For example, if an entity's exposure is small, if there are not enough historical periods of data to determine its own patterns, or if the entity's own patterns are volatile, then insurance industry data may be applied.

Under the *paid loss development method*, a loss payment pattern is applied directly to the latest evaluation of cumulative paid losses by accident year to project ultimate losses.

Under the *incurred loss development method*, a loss reporting pattern is applied directly to the latest incurred losses (case reserves plus cumulative paid losses) by accident year to project ultimate losses.

An advantage of the *paid loss development method* is that its predictive accuracy is independent of case reserving practices and philosophies.

An advantage of the *incurred loss development method* is that incurred losses provide a larger statistical database than paid losses (since case reserves are used in addition to payments) and that incurred losses provide more current information (since the establishment of case reserves occurs before payments are made).

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Bornhuetter-Ferguson Methods

The Bornhuetter-Ferguson (B-F) method is a blending of the results of the loss development method with an *a priori* expectation of ultimate losses. The *a priori* expectation of ultimate losses, or preliminary ultimate losses, are based on the results of the loss development methods described above and the results of the loss cost method (described below) for more recent periods.

Under the *incurred B-F method*, the City's (or industry's) historical reporting pattern is used to estimate the percentage of ultimate losses which are unreported as of the valuation date. This percentage is then multiplied by preliminary ultimate losses to produce expected unreported losses. Expected unreported losses are also known as IBNR.

The *paid B-F* method relies on a mathematical procedure similar to the *incurred B-F method*. Payment patterns are used in place of reporting patterns and unpaid losses are estimated in place of unreported losses. Unpaid losses equal case reserves plus IBNR.

An advantage of the B-F method is that estimates of ultimate losses tend to be more stable than estimates produced by the loss development method. This is because estimates based on the B-F method are generally a weighted average between the estimate based on the loss development method and the preliminary ultimate loss.

Loss Cost Method

Under the *loss cost method*, an ultimate loss cost, or loss amount per exposure unit, is judgmentally selected to obtain the ultimate loss estimate. The ultimate loss cost selection is based on the City's historical loss costs, adjusted for inflation and benefit levels. The preliminary estimate of ultimate losses is based on the results of the loss development methods described above.

This method can be useful for estimating ultimate losses for more recent and future periods. The advantages of using a *loss cost method* for the most recent periods are that it accounts for changes in exposure and is less affected by changes in claims closing and case reserving practices than the loss development methods.

Frequency / Severity Method

Under the *frequency / severity method*, the ultimate losses for each period are the product of the selected ultimate severity (i.e., average cost per claim) multiplied by the estimated ultimate number of claims. The preliminary estimate of ultimate losses is based on the results of the loss development methods described above.

The ultimate severity for the most recent period is judgmentally selected based on the historical limited severities, trended to the current period's cost and benefit level. The ultimate severity for prior periods equals the selected current severity, detrended to the appropriate cost and benefit level to derive estimates of ultimate losses.

Estimated Ultimate Number of Claims

Similar to the paid and incurred loss development factors, reported claim count development factors are calculated based on historical claims triangles created from the City's own experience. The selected count development factors are applied to the latest reported counts to determine an estimate of the ultimate number of claims.

A second estimate of the ultimate number of claims is developed based on a combination of the frequency and Bornhuetter-Ferguson methods. The frequency method is used to develop the preliminary estimate. The Bornhuetter-Ferguson method uses the preliminary estimate and the reported claim count development pattern to determine a second estimate of ultimate claim counts. Oliver Wyman then judgmentally selects the ultimate number of claims based on the two estimates.

Estimated Ultimate Losses and ALAE at Retained Limits

To develop the estimates of retained ultimate losses, Oliver Wyman applied three generally accepted actuarial techniques: the Increased Limit Factor (ILF) Method, the LDF method, and the Excess Method.

In the ILF Method, Oliver Wyman used the City's data supplemented with insurance industry data to create ILFs, which are ratios of expected losses at different limits to expected losses at the selected limit of $75,000. These selected ILFs were multiplied by the $75,000 limited ultimate loss estimates to bring these estimates to the actual retention by policy period. This method can be useful for estimating ultimate losses for policy periods that are less mature. Typically, this is most useful for more recent or future policy periods and for policy periods with a significantly high retention, where actual losses have not yet had time to develop into that layer.

In the LDF Method, Oliver Wyman used internal data to adjust the selected limited loss development factors to reflect the incurred loss development pattern appropriate for the actual retention limit by policy period. These LDFs were then applied to the retained incurred losses. This method is useful when it is appropriate to assume that historical development patterns are representative of future development patterns, regardless of what has been reported so far in a given policy period.

In the Excess Method, Oliver Wyman used the aforementioned ILFs, LDFs at the $75,000 limit, and LDFs at the actual retention limit to calculate an estimate of IBNR excess of the $75,000 limit. This amount was then added to the limited ultimate losses and the excess incurred losses to estimate ultimate losses at the actual retention limit. This method is a blend of the ILF and LDF methods.

Unpaid Losses and ALAE

Unpaid losses and ALAE at retained limits as of June 30, 2024 were calculated by subtracting actual payments as of the same date from selected ultimate losses at retained limits.

Forecasted Ultimate Losses and ALAE for Future Period

Ultimate losses for the forecasted future period limited to $75,000 per occurrence were selected based on the results of two methods, the Loss Cost method and the Frequency / Severity method. The selected ultimate losses are then adjusted to additional retentions by the application of selected ILFs. The ILFs were derived as described in the "Ultimate Losses and ALAE at Retained Limits" section of this report. The two methods are described below.

Loss Cost Method

Under the Loss Cost method, ultimate losses for the forecasted future period were estimated by multiplying forecasted payroll by a projected loss cost limited to $75,000 per occurrence. The ultimate loss cost selection was based on the City's historical loss costs, adjusted for inflation and benefit levels, as applicable.

Frequency / Severity Method

Under the frequency / severity method, ultimate losses for the forecasted future period are the product of the selected ultimate severity (i.e., average cost per claim) multiplied by the estimated ultimate number of claims.

The ultimate frequency for the forecasted future period was judgmentally selected based on the historical frequencies, trended to the forecast period. The selected ultimate frequency was then multiplied by projected exposure to arrive at an estimate of estimated number of claims.

The ultimate severity for the forecasted future period was judgmentally selected based on the historical limited severities, trended to the forecast period's cost and benefit level.

Estimates at Various Probability Levels

Oliver Wyman's approach to estimating probability levels measures the variability or statistical fluctuation associated with the self-insurance process itself, i.e., "process risk." Oliver Wyman has also judgmentally introduced a variable for "parameter risk," which is defined as the additional fluctuation which would result if the actual parameter is different from the estimated parameter for the expected number of claims or the average claim cost. The methodology does not, however, consider "model risk," or the risk that the techniques used by Oliver Wyman may not be appropriate to the City's experience.

The parameters for the model were determined based on Oliver Wyman's analysis of the claim detail. Specifically, Oliver Wyman has assumed loss severity follow a lognormal distribution. The frequency for the distribution was estimated based on the number of open and IBNR claims, while the severity was based on the City's own loss experience.

5. Distribution and Use

Usage and Responsibility of Client – Oliver Wyman prepared this report for the sole use of the client named herein for the stated purpose. This report includes important considerations, assumptions, and limitations and, as a result, is intended to be read and used only as a whole. This report may not be separated into, or distributed, in parts other than by the client to whom this report was issued, as needed, in the case of distribution to such client's directors, officers, or employees. All decisions in connection with the implementation or use of advice or recommendations contained in this report are the sole responsibility of the client named herein.

Third Party Reliance and Due Diligence – Oliver Wyman's consent to any distribution of this report (whether herein or in the written agreement pursuant to which we issued this report) to parties other than of the client named herein does not constitute advice by Oliver Wyman to any such third parties. Any distribution to third parties shall be solely for informational purposes and not for purposes of reliance by any such parties. Oliver Wyman assumes no liability related to third party use of this report or any actions taken or decisions made as a consequence of the results, advice or recommendations set forth herein. This report should not replace the due diligence on behalf of any such third party.

6. Considerations and Limitations

Oliver Wyman has prepared this analysis in conformity with its intended utilization by persons technically competent in the areas addressed and for the stated purposes only. Judgments as to the conclusions, indications, methods, and data contained in this analysis should be made only after studying the analysis in its entirety. Furthermore, Oliver Wyman staff is available to explain any matter presented herein. It is assumed that the user of the analysis will seek such explanation as to any matter in question.

Data Verification – For our analysis, we relied on data and information provided by the client named herein without independent audit. Though we have reviewed the data for reasonableness and consistency, we have not audited or otherwise verified this data. Our review of data may not always reveal imperfections. We have assumed that the data provided is both accurate and complete. The results of our analysis are dependent on this assumption. If this data or information is inaccurate or incomplete, our findings and conclusions might therefore be unreliable.

Prospective Policy / Accident Period Estimates – We estimated the prospective policy/accident period estimates developed in this analysis using estimated loss costs and the projected exposures. Prospective period loss and ALAE estimates are directly related to the projected exposures. Therefore, if actual exposures differ from the projection, we would need to adjust the prospective policy/accident period estimates accordingly.

Supplemental Data – Where historical data of the client named herein was either (i) not available, (ii) not appropriate or (iii) not sufficiently credible to develop our actuarial assumptions, we supplemented it with external information, as we deemed appropriate. Although we believe these external sources may be more predictive of future experience of the client named herein than any other data of which we are aware, the use of external data adds to the uncertainty associated with our projections.

Exclusion of Other Program Costs – The scope of the project does not include the estimation of any costs other than those described herein. Such ancillary costs may include unallocated loss adjustment expenses (ULAE); excess insurance premiums; the costs of trustee, legal, administrative, risk management and actuarial services; fees and assessments; and costs for surety bonds or letters of credit pertaining to claim liabilities.

Assumption of Valid Insurance / Reinsurance – We assumed that all insurance/reinsurance is valid and fully collectible. We made no assessment, and do not express any opinion, concerning the viability or collectability of any insurance or reinsurance. We have not evaluated the financial strength, claims-paying ability or any other factors with regard to the past, current, and prospective insurers/reinsurers of the client named herein.

Funding of Claim Payments – We have not examined any assets that may be supporting the liabilities, and have made no assumptions regarding the maturities and liquidity of these assets, should they exist. This examination is beyond the scope of our review.

Rounding and Accuracy – Our models may retain more digits than those displayed. Also, the results of certain calculations may be presented in the exhibits with more or fewer digits than would be considered significant. As a result, there may be rounding differences between the results of calculations presented in the exhibits and replications of those calculations based on displayed underlying amounts. Also, calculation results may not have been adjusted to reflect the precision of the calculation.

Unanticipated Changes – We developed our conclusions based on an analysis of the data of the client named herein and on the estimation of the outcome of many contingent events. We developed our estimates from the historical claim experience and covered exposure, with adjustments for anticipated changes. Our estimates make no provision for extraordinary future emergence of new types of losses not sufficiently represented in historical databases or which are not yet quantifiable. Also, we assumed that the client named herein will remain a going concern, and we have not anticipated any impacts of potential insolvency, bankruptcy, or any similar event.

Internal / External Changes – The sources of uncertainty affecting our estimates are numerous and include factors internal and external to the client named herein. Internal factors include items such as changes in claim reserving or settlement practices. The most significant external influences include, but are not limited to, changes in the legal, social, or regulatory environment surrounding the claims process. Uncontrollable factors such as general economic conditions also contribute to the variability.

Uncertainty Inherent in Projections – While this analysis complies with applicable Actuarial Standards of Practice, users of this analysis should recognize that our projections involve estimates of future events and are subject to economic and statistical variations from expected values. We have not anticipated any extraordinary changes to the legal, social, or economic environment that might affect the frequency or severity of claims. For these reasons, we do not guarantee that the emergence of actual losses will correspond to the projections in this analysis.

Probability Levels – We have calculated estimates of the statistical uncertainty associated with the process risk inherent in our estimates. However, unless otherwise indicated, our probability level estimates do not address parameter or model risk. To the extent that the probability estimates do not address parameter risk or model risk, the true variability of results is greater than the range of outcomes presented. The client named herein may wish to consider this additional uncertainty in evaluating the estimates presented in this report.

COVID-19 Pandemic – We have included no explicit adjustments in this report for the effect of the COVID-19 pandemic on loss experience except as specifically noted in this report.

7. Acknowledgement of Qualifications

I, Adam Hirsch, am a Senior Principal with Oliver Wyman Actuarial Consulting, Inc. I am a Fellow of the Casualty Actuarial Society (FCAS), a member of the American Academy of Actuaries (MAAA) and I meet the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* of the American Academy of Actuaries to render the actuarial opinion contained herein.

I, Brandon Yu, am a Senior Manager with Oliver Wyman Actuarial Consulting, Inc. I am a Fellow of the Casualty Actuarial Society (FCAS), a member of the American Academy of Actuaries (MAAA) and I meet the *Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States* of the American Academy of Actuaries to render the actuarial opinion contained herein.

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Appendix A. Glossary

Accident Period
The period in which the event giving rise to a claim occurred, regardless of when the claim is actually reported.

Accounting Date
The point in time at which the estimate of unpaid claims and ALAE is evaluated.

Actuarial Central Estimate
An estimate that represents an expected value over the range of reasonably possible outcomes. Such range of reasonably possible outcomes may not include all conceivable outcomes.

Allocated Loss Adjustment Expense (ALAE)
Expense costs associated with the handling and settling of an individual claim that can be directly attributed to the particular claim. Fees paid to outside defense attorneys and investigation firms are examples of this expense cost.

Case Reserves
The unpaid claim estimates established by adjusters on an individual claim basis.

Claim
A demand for payment under the coverage provided by a plan or contract. As used throughout this Glossary, it also includes suits, potentially compensable events, notifications, and unasserted claims.

Claim Adjustment Expenses
The costs of administering, determining coverage for, settling, or defending claims. Claim adjustment expenses include allocated claim adjustment expenses and unallocated claim adjustment expenses.

Claim Frequency
The number of claims that occur over a period of time per unit of exposure.

Claim Reporting Pattern
The rate at which claims are assumed to be reported over time.

Claim Severity
The average cost per claim.

Coefficient of Variation
A statistical measure of dispersion. The coefficient of variation is calculated as the standard deviation of the random process divided by the expected value (mean).

Confidence Level
The probability that the outcome of a random process will not exceed an associated estimate. For example, a 75% confidence level for an unpaid claim estimate of $10 million would indicate that there is a 75% probability that the actual claim payments will be less than or equal to $10 million. The estimate is defined in the context of the risks modeled in our analysis and may not consider all factors contributing to variability of outcomes.

Credibility
A measure of the predictive value of a body of data.

Development

The change between valuation dates in the observed values of certain fundamental quantities that may be used in the unpaid claim estimation process.

For example, the number of reported claims associated with events occurring within a particular period will change from one valuation date to the next until all claims have been reported. In a similar fashion, the paid claim amounts for events occurring within a particular period will change from one valuation date to the next until all claims have been reported and closed. The change in the number of reported claims or the change in the paid claim amounts is referred to as development. The concept of development also applies to reported incurred losses.

Estimated Ultimate Incurred Losses

The estimated cost of claims during a period. Ultimate incurred losses represent the total of paid claim amounts, case reserves, and IBNR.

Event

The incident or activity that triggers potential for claim or allocated claim adjustment expense payment.

Exposure

A measure of the underlying potential for claim costs.

IBNR

The unpaid claim estimate for: (a) events that have occurred for which claims have not been reported as of the accounting date, (b) future development of the case reserves, (c) claims that have been reported but not yet recorded in the loss listing, and (d) claims that have been closed but that will be reopened.

Loss

The cost associated with a claim. The cost may or may not include loss adjustment expenses.

Loss Adjustment Expenses

The costs of administering, determining coverage for, settling, or defending claims. Loss adjustment expenses include allocated loss adjustment expenses and unallocated loss adjustment expenses.

Loss Cost

The loss amount per exposure unit.

Method

The systematic procedure for developing an actuarial estimate.

Model

A mathematical or empirical representation of a specified phenomenon.

Model Risk

The risk that the methods are not appropriate to the circumstances or the models are not representative of the specified phenomenon.

Paid Losses

The total aggregate dollar amount paid on all reported claims as of a certain date.

Parameter Risk
The risk that the assumptions or parameters used in the methods or models are not representative of future outcomes.

Payment Pattern
The rate at which claims are paid over time.

Process Risk
The uncertainty associated with the projection of future contingencies that are inherently variable, even when the parameters are known with certainty.

Reported Incurred Loss Amount
The total of paid claim amounts and case reserves.

Review Date
The date through which information is considered in the unpaid claim estimate analysis.

Risk Margin
An amount that may be added to the unpaid claim estimate to recognize the uncertainty in the estimate.

Salvage
Recoveries due to the sale of damaged or recovered property.

Subrogation
Recoveries from a third party responsible for the event for which a claim has already been paid.

Tail or Unreported Loss Estimate
The unpaid loss estimate for events that have occurred for which claims have not been reported as of the accounting date.

Unallocated Loss Adjustment Expense (ULAE)
Loss adjustment expenses that cannot be attributed to an individual claim. Typically includes salaries, utilities, and rent apportioned to the claim adjustment expense function but not readily assignable to specific claims.

Unpaid Loss Estimate
The estimate of the obligation for future payments resulting from losses due to past events.

Valuation Date
The date through which transactions are included in the data used in the unpaid claim estimate analysis.

City of Chandler
Workers' Compensation
Losses & ALAE Forecast for period 7/1/2024 to 6/30/2025
Based on Data as of June 30, 2024

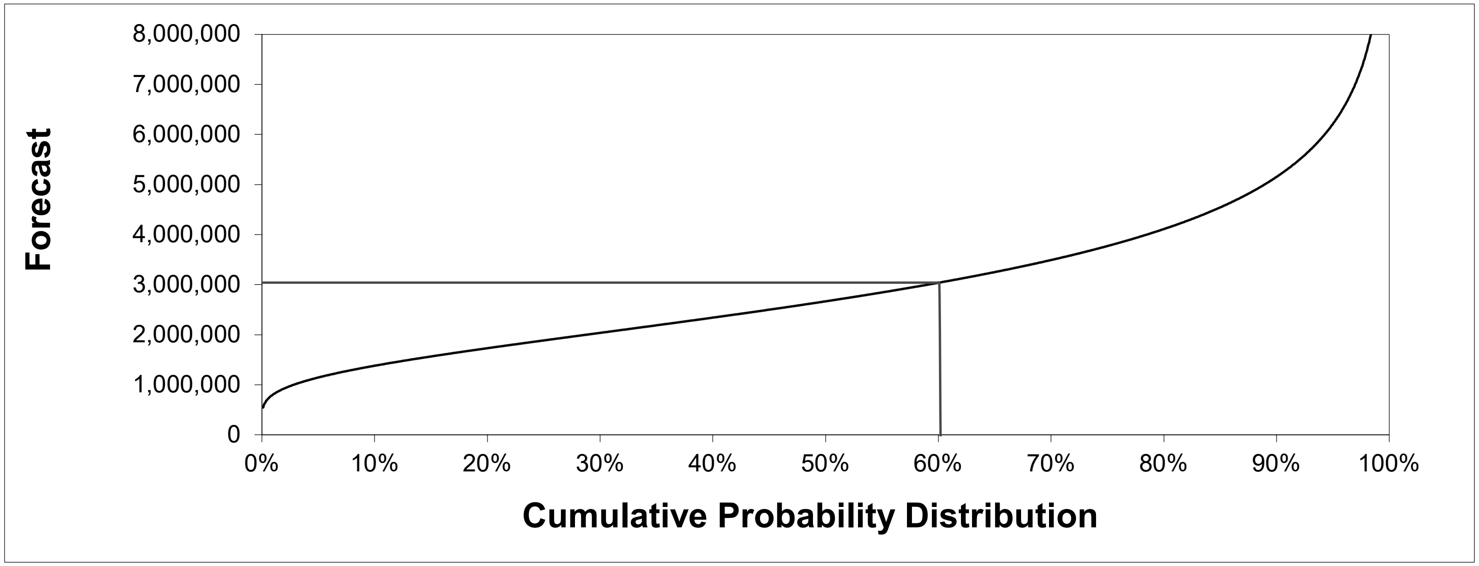
(1)	Forecasted Loss Cost Limited to $75,000	7.43					
(2)	Projected Exposures ($1,000 Payroll)	184,749					
		75,000	***750k / 1M***	***750k / 1.25M***	***750k / 2.25M***	***1M / 3M***	***1.5M / 3M***
(3)	Increased Limit Factor from $75,000 to SIR	1.000	1.936	1.994	2.113	2.172	2.217
(4)	Forecasted Loss Cost Limited to SIR	7.43	14.38	14.81	15.69	16.13	16.46
(5)	Forecasted Ultimate Losses & ALAE *(Central Estimate)*	**1,372,000**	**2,656,000**	**2,736,000**	**2,898,000**	**2,980,000**	**3,042,000**
(6)	70th Percentile Losses & ALAE Multiplier	1.146					
(7)	Forecasted Ultimate Losses & ALAE *(70th Percentile Value)*	**1,572,312**	**3,043,776**	**3,135,456**	**3,321,108**	**3,415,080**	**3,486,132**
(8)	80th Percentile Losses & ALAE Multiplier	1.341					
(9)	Forecasted Ultimate Losses & ALAE *(80th Percentile Value)*	**1,839,852**	**3,561,696**	**3,668,976**	**3,886,218**	**3,996,180**	**4,079,322**
(10)	90th Percentile Losses & ALAE Multiplier	1.669					
(11)	Forecasted Ultimate Losses & ALAE *(90th Percentile Value)*	**2,289,868**	**4,432,864**	**4,566,384**	**4,836,762**	**4,973,620**	**5,077,098**

Notes:
(1) from Exhibit A, Page 3, Row (9)
(2) from City of Chandler
(3) from Appendix B, Page 1, Column (5), assuming 70% of losses limited to $75,000 correspond to public safety employees, (limit adjusted for trend,
(4) = (1) x (3)
(5) = (2) x (4); rounded
(6) from Exhibit A, Page 2
(7) = (5) x (6)
(8) from Exhibit A, Page 2
(9) = (5) x (8)
(10) from Exhibit A, Page 2
(11) = (5) x (10)

City of Chandler
Workers' Compensation
Percentile Factor Calculation for Losses & ALAE Forecast for period 7/1/2024 to 6/30/2025 - Limited to SIR
Based on Data as of June 30, 2024

Losses & ALAE CV	5.380
Claim Count Forecast	140
Forecast Losses & ALAE CV	0.550
σ	0.514
σ2	0.264
μ	(0.132)
Losses & ALAE Forecast *(Central Estimate)*	3,042,000

Percentile	**Selected Percentile Factor**	**Percentile Losses & ALAE Forecast**
50.0%	0.884	2,689,128
60.0%	1.002	3,048,084
70.0%	1.146	3,486,132
80.0%	1.341	4,079,322
90.0%	1.669	5,077,098
95.0%	2.000	6,084,000
99.0%	2.809	8,544,978



Note:
based on a lognormal distribution and including a variable for parameter risk

City of Chandler
Workers' Compensation
Losses & ALAE Forecast for period 7/1/2024 to 6/30/2025 - Limited to $75,000
Based on Data as of June 30, 2024

(1)	Selected Frequency for period 7/1/2024 to 6/30/2025	0.760
(2)	Projected Exposures ($1,000 Payroll)	184,749
(3)	Forecasted Ultimate Counts *(Central Estimate)*	**140**
(4)	Selected Loss Cost for period 7/1/2024 to 6/30/2025	7.40
(5)	Selected Severity for period 7/1/2024 to 6/30/2025	9,800
(6)	Estimated Ultimate Losses & ALAE *(Loss Cost Method)*	1,367,140
(7)	Estimated Ultimate Losses & ALAE *(Frequency/Severity Method)*	1,376,007
(8)	Forecasted Ultimate Losses & ALAE *(Central Estimate)*	**1,372,000**
(9)	Forecasted Loss Cost *(Central Estimate)*	7.43

Notes:
(1) from Exhibit A, Page 5, Column (8)
(2) from City of Chandler
(3) = (1) / 1,000 x (2)
(4) from Exhibit A, Page 4, Column (8)
(5) from Exhibit A, Page 5, Column (12)
(6) = (2) x (4)
(7) = (1) / 1,000 x (2) x (5)
(8) selected
(9) = (8) / (2)

City of Chandler
Workers' Compensation
Losses & ALAE Forecast Loss Cost Method - Limited to $75,000
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Ultimate	(3) Exposures ($1,000 Payroll)	(4) Ultimate Loss Cost	(5) Exposure Trend	(6) Benefit Level Factor	(7) Loss Cost Trend Factor	(8) Trended Ultimate Loss Cost
1/1/2003 to 6/30/2005	249	1,886,883	206,142	9.15	1.975	1.250	1.504	8.72
7/1/2005 to 6/30/2006	228	649,576	90,201	7.20	1.885	1.209	1.453	6.72
7/1/2006 to 6/30/2007	216	607,316	102,877	5.90	1.798	1.195	1.425	5.59
7/1/2007 to 6/30/2008	204	763,087	111,710	6.83	1.732	1.160	1.397	6.40
7/1/2008 to 6/30/2009	192	675,237	120,668	5.60	1.695	1.108	1.370	5.01
7/1/2009 to 6/30/2010	180	1,304,910	119,800	10.89	1.685	1.065	1.343	9.25
7/1/2010 to 6/30/2011	168	966,822	113,843	8.49	1.658	1.050	1.317	7.09
7/1/2011 to 6/30/2012	156	1,161,297	110,414	10.52	1.611	1.042	1.292	8.79
7/1/2012 to 6/30/2013	144	1,069,226	119,088	8.98	1.570	1.034	1.266	7.49
7/1/2013 to 6/30/2014	132	1,493,243	115,348	12.95	1.561	1.015	1.242	10.45
7/1/2014 to 6/30/2015	120	990,336	119,528	8.29	1.527	1.008	1.218	6.66
7/1/2015 to 6/30/2016	108	1,090,433	127,517	8.55	1.496	0.997	1.194	6.80
7/1/2016 to 6/30/2017	96	1,264,196	128,452	9.84	1.477	1.006	1.171	7.85
7/1/2017 to 6/30/2018	84	1,145,736	133,497	8.58	1.428	1.006	1.148	6.94
7/1/2018 to 6/30/2019	72	1,180,000	135,570	8.70	1.380	1.002	1.125	7.11
7/1/2019 to 6/30/2020	60	1,140,000	136,800	8.33	1.328	1.002	1.103	6.94
7/1/2020 to 6/30/2021	48	1,360,000	140,084	9.71	1.221	1.005	1.082	8.64
7/1/2021 to 6/30/2022	36	890,000	142,931	6.23	1.151	1.002	1.061	5.75
7/1/2022 to 6/30/2023	24	1,180,000	159,979	7.38	1.098	1.000	1.040	6.99
7/1/2023 to 6/30/2024	12	1,380,000	173,629	7.95	1.048	1.000	1.020	7.74
TOTALS		**22,198,297**	**2,608,077**					

Arithmetic Average	*7.35*
Weighted Average	*7.39*
Arithmetic Average Excluding Current Period	*7.33*
Weighted Average Excluding Current Period	*7.37*
5 Period Arithmetic Average	*7.21*
3 Period Arithmetic Average	*6.82*
Selected Loss Cost for period 7/1/2024 to 6/30/2025	***7.40***

Notes:
(1) = (average evaluation period) - (average policy period,
(2) from Exhibit C, Page 3, Column (12)
(3) from City of Chandler
(4) = (2) / (3)
(5) derived from the 2023 edition of NCCI Annual Statistical Bulletir
(6) based on information published by NCC.
(7) assumed 2.0% annual loss cost trend
(8) = (4) x (6) x (7) / (5)

City of Chandler
Workers' Compensation
Losses & ALAE Forecast Frequency / Severity Method - Limited to $75,000
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Exposures ($1,000 Payroll)	(3) Exposure Trend	(4) Ultimate Losses	(5) Ultimate Counts	(6) Ultimate Frequency (per $1M)	(7) Frequency Trend	(8) Trended Ultimate Frequency (per $1M)	(9) Ultimate Severity	(10) Benefit Level Factor	(11) Severity Trend Factor	(12) Trended Ultimate Severity
1/1/2003 to 6/30/2005	249	206,142	1.975	1,886,883	355	0.872	0.901	0.786	5,315	1.250	1.669	11,094
7/1/2005 to 6/30/2006	228	90,201	1.885	649,576	147	0.865	0.909	0.786	4,419	1.209	1.599	8,542
7/1/2006 to 6/30/2007	216	102,877	1.798	607,316	135	0.730	0.914	0.667	4,499	1.195	1.560	8,382
7/1/2007 to 6/30/2008	204	111,710	1.732	763,087	161	0.832	0.918	0.764	4,740	1.160	1.522	8,369
7/1/2008 to 6/30/2009	192	120,668	1.695	675,237	165	0.807	0.923	0.745	4,092	1.108	1.485	6,731
7/1/2009 to 6/30/2010	180	119,800	1.685	1,304,910	142	0.704	0.928	0.653	9,190	1.065	1.448	14,180
7/1/2010 to 6/30/2011	168	113,843	1.658	966,822	153	0.811	0.932	0.756	6,319	1.050	1.413	9,379
7/1/2011 to 6/30/2012	156	110,414	1.611	1,161,297	161	0.905	0.937	0.848	7,213	1.042	1.379	10,364
7/1/2012 to 6/30/2013	144	119,088	1.570	1,069,226	135	0.722	0.942	0.680	7,920	1.034	1.345	11,014
7/1/2013 to 6/30/2014	132	115,348	1.561	1,493,243	154	0.855	0.946	0.809	9,696	1.015	1.312	12,920
7/1/2014 to 6/30/2015	120	119,528	1.527	990,336	143	0.784	0.951	0.745	6,925	1.008	1.280	8,936
7/1/2015 to 6/30/2016	108	127,517	1.496	1,090,433	153	0.802	0.956	0.766	7,127	0.997	1.249	8,878
7/1/2016 to 6/30/2017	96	128,452	1.477	1,264,196	133	0.701	0.961	0.673	9,505	1.006	1.218	11,655
7/1/2017 to 6/30/2018	84	133,497	1.428	1,145,736	149	0.782	0.966	0.755	7,690	1.006	1.189	9,195
7/1/2018 to 6/30/2019	72	135,570	1.380	1,180,000	158	0.844	0.970	0.819	7,468	1.002	1.160	8,681
7/1/2019 to 6/30/2020	60	136,800	1.328	1,140,000	148	0.815	0.975	0.795	7,703	1.002	1.131	8,730
7/1/2020 to 6/30/2021	48	140,084	1.221	1,360,000	135	0.789	0.980	0.774	10,074	1.005	1.104	11,175
7/1/2021 to 6/30/2022	36	142,931	1.151	890,000	118	0.717	0.985	0.706	7,542	1.002	1.077	8,135
7/1/2022 to 6/30/2023	24	159,979	1.098	1,180,000	127	0.723	0.990	0.716	9,291	1.000	1.051	9,762
7/1/2023 to 6/30/2024	12	173,629	1.048	1,380,000	151	0.830	0.995	0.826	9,139	1.000	1.025	9,368
TOTALS		**2,608,077**		**22,198,297**	**3,123**							

Frequency		Severity	
Arithmetic Average	*0.753*	*Arithmetic Average*	*9,775*
Weighted Average	*0.755*	*Weighted Average*	*9,837*
Arithmetic Average Excluding Current Period	*0.750*	*Arithmetic Average Excluding Current Period*	*9,796*
Weighted Average Excluding Current Period	*0.750*	*Weighted Average Excluding Current Period*	*9,861*
5 Period Arithmetic Average	*0.763*	*5 Period Arithmetic Average*	*9,434*
3 Period Arithmetic Average	*0.749*	*3 Period Arithmetic Average*	*9,088*
Selected Frequency for period 7/1/2024 to 6/30/2025	***0.760***	***Selected Severity for period 7/1/2024 to 6/30/2025***	***9,800***

Notes:
(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) derived from the 2023 edition of NCCI Annual Statistical Bulletin
(4) from Exhibit C, Page 3, Column (12)
(5) from Exhibit D, Page 7, Column (12)
(6) = (5) / (2) x 1,000 / (3)
(7) assumed -0.5% annual frequency trend
(8) = (6) x (7)
(9) = (4) / (5)
(10) based on information published by NCCI
(11) assumed 2.5% annual severity trend
(12) = (9) x (10) x (11)

City of Chandler

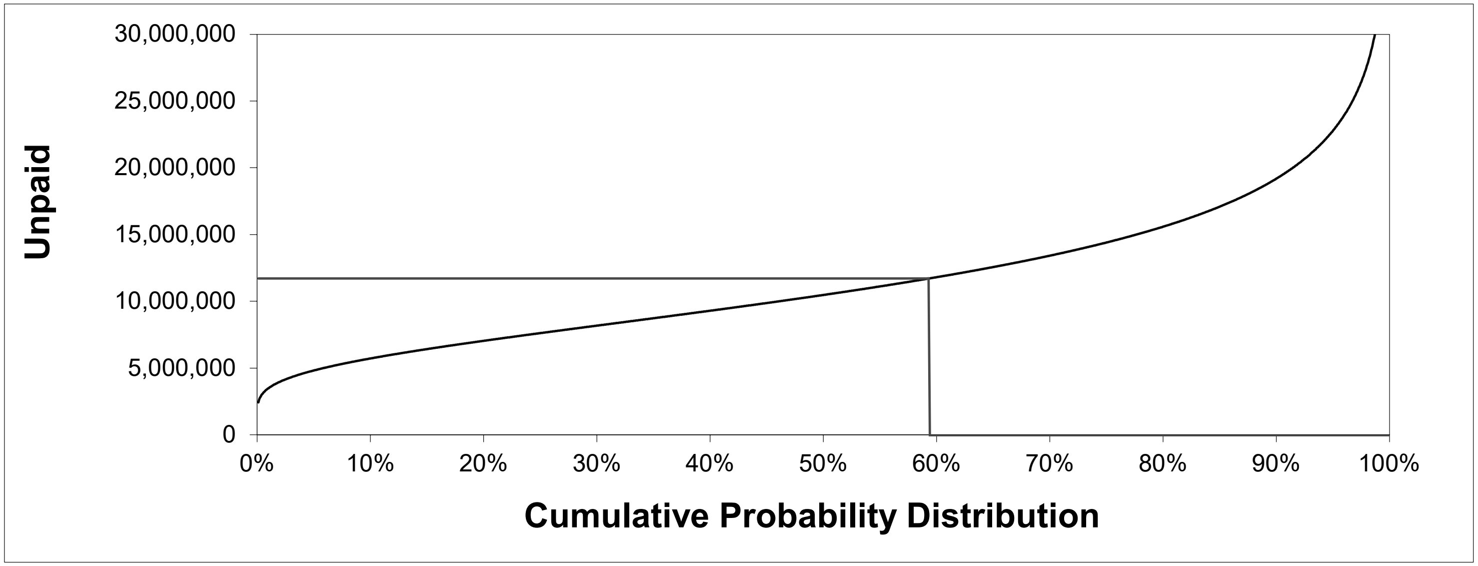
Workers' Compensation

Percentile Factor Calculation for Unpaid Losses & ALAE as of 6/30/2024 - Limited to Self-Insured Retention (SIR)

Based on Data as of June 30, 2024

Losses & ALAE CV	5.380
Open & IBNR Claim Count	132
Unpaid Losses & ALAE CV	0.500
σ	0.472
$\sigma 2$	0.223
μ	(0.112)
Unpaid Losses & ALAE *(Central Estimate)*	11,708,406

Percentile	Selected Percentile Factor	Percentile Unpaid Losses & ALAE
50.0%	0.895	10,479,023
60.0%	1.008	11,802,073
70.0%	1.145	13,406,125
80.0%	1.330	15,572,180
90.0%	1.636	19,154,952
95.0%	1.943	22,749,433
99.0%	2.681	31,390,236



Note:
based on a lognormal distribution and including a variable for parameter risk

City of Chandler

Workers' Compensation

Unpaid Losses & ALAE Reconciliation from 6/30/2023 to 6/30/2024 - Limited to Self-Insured Retention (SIR)

Based on Data as of June 30, 2024

(1)	Indicated Unpaid Losses & ALAE as of 6/30/2023	11,105,144
(2)	Estimated Ultimate Losses & ALAE for period 7/1/2023 to 6/30/2024	3,059,000
(3)	Payments for period 7/1/2023 to 6/30/2024	1,470,496
(4)	Change in Ultimate Losses & ALAE since 6/30/2023	(985,242)
(5)	Indicated Unpaid Losses & ALAE as of 6/30/2024	11,708,406

Notes:
(1) from Exhibit B, Page 3, Column (11)
(2) from Exhibit B, Page 3, Column (20)
(3) from Exhibit B, Page 3, Column (13)
(4) from Exhibit B, Page 3, Column (19)
(5) = (1) + (2) - (3) + (4)

City of Chandler
Workers' Compensation
Comparison of Losses & ALAE to Previous Analysis - Limited to Self-Insured Retention (SIR)

Policy Period	Self-Insured Retention (SIR)	(1) Paid Losses & ALAE	(2) Case Reserves	(3) Incurred Losses & ALAE	(4) IBNR	(5) Unpaid Losses & ALAE	(6) Estimated Ultimates	(7) Paid Losses & ALAE	(8) Case Reserves	(9) Incurred Losses & ALAE	(10) IBNR	(11) Unpaid Losses & ALAE	(12) Estimated Ultimates
		Based on Data as of June 30, 2024						Based on Data as of June 30, 2023					
1/1/2003 to 6/30/2005	500,000	2,542,453	28,478	2,570,931	69	28,547	2,571,000	2,542,130	28,801	2,570,931	802	29,603	2,571,732
7/1/2005 to 6/30/2006	500,000	983,484	0	983,484	0	0	983,484	980,808	44,214	1,025,022	978	45,192	1,026,000
7/1/2006 to 6/30/2007	500,000	600,275	18,893	619,168	832	19,725	620,000	600,275	18,893	619,168	-168	18,725	619,000
7/1/2007 to 6/30/2008	500,000	813,279	187,736	1,001,015	985	188,721	1,002,000	807,083	193,932	1,001,015	985	194,917	1,002,000
7/1/2008 to 6/30/2009	500,000	1,172,864	124,805	1,297,670	330	125,136	1,298,000	1,169,000	128,670	1,297,670	330	129,000	1,298,000
7/1/2009 to 6/30/2010	500,000	1,502,869	147,089	1,649,958	42	147,131	1,650,000	1,495,895	256,445	1,752,340	17,660	274,105	1,770,000
7/1/2010 to 6/30/2011	500,000	1,456,561	0	1,456,561	0	0	1,456,561	1,456,561	0	1,456,561	0	0	1,456,561
7/1/2011 to 6/30/2012	500,000	1,927,576	41,054	1,968,630	26,370	67,424	1,995,000	1,922,237	303,609	2,225,846	33,154	336,763	2,259,000
7/1/2012 to 6/30/2013	600,000	2,185,127	147,273	2,332,401	40,599	187,873	2,373,000	2,160,127	172,274	2,332,401	40,599	212,873	2,373,000
7/1/2013 to 6/30/2014	600,000	2,462,520	339,320	2,801,840	69,160	408,480	2,871,000	2,436,924	236,021	2,672,945	64,055	300,076	2,737,000
7/1/2014 to 6/30/2015	600,000	1,597,694	484,535	2,082,229	0	484,535	2,082,229	1,529,426	552,797	2,082,223	0	552,797	2,082,223
7/1/2015 to 6/30/2016	600k / 1M	2,909,318	258,217	3,167,535	104,465	362,682	3,272,000	2,827,131	710,839	3,537,970	60,030	770,869	3,598,000
7/1/2016 to 6/30/2017	600k / 1M	1,648,664	85,102	1,733,766	58,234	143,336	1,792,000	1,645,450	88,309	1,733,760	69,240	157,550	1,803,000
7/1/2017 to 6/30/2018	600k / 1M	1,806,605	928,862	2,735,467	73,533	1,002,395	2,809,000	1,748,680	985,673	2,734,353	74,647	1,060,320	2,809,000
7/1/2018 to 6/30/2019	600k / 1.25M	1,182,445	731,008	1,913,453	81,547	812,555	1,995,000	1,143,328	605,383	1,748,711	124,289	729,672	1,873,000
7/1/2019 to 6/30/2020	600k / 1.25M	1,380,427	816,607	2,197,035	122,965	939,573	2,320,000	1,346,196	662,071	2,008,268	136,732	798,804	2,145,000
7/1/2020 to 6/30/2021	750k / 2.25M	1,611,240	1,249,018	2,860,259	186,741	1,435,760	3,047,000	1,547,001	1,341,756	2,888,756	199,244	1,540,999	3,088,000
7/1/2021 to 6/30/2022	1M / 3M	1,020,259	1,261,690	2,281,949	155,051	1,416,741	2,437,000	944,524	1,318,845	2,263,369	250,631	1,569,476	2,514,000
7/1/2022 to 6/30/2023	1.5M / 3M	1,056,866	680,751	1,737,618	549,382	1,230,134	2,287,000	438,597	796,381	1,234,978	1,587,022	2,383,403	2,822,000
7/1/2023 to 6/30/2024	1.5M / 3M	351,339	1,008,441	1,359,780	1,699,220	2,707,661	3,059,000						
TOTALS		**30,211,869**	**8,538,880**	**38,750,748**	**3,169,526**	**11,708,406**	**41,920,275**	**28,741,372**	**8,444,913**	**37,186,285**	**2,660,231**	**11,105,144**	**39,846,516**

Policy Period	Self-Insured Retention (SIR)	(13) Paid Losses & ALAE	(14) Case Reserves	(15) Incurred Losses & ALAE	(16) IBNR	(17) Unpaid Losses & ALAE	(18) Estimated Ultimates	(19) Estimated Ultimates Through 6/30/2023	(20) Estimated Ultimates 7/1/2023 to 6/30/2024
		Difference							
1/1/2003 to 6/30/2005	500,000	323	(323)	0	(732)	(1,056)	(732)	(732)	0
7/1/2005 to 6/30/2006	500,000	2,677	(44,214)	(41,538)	(978)	(45,192)	(42,516)	(42,516)	0
7/1/2006 to 6/30/2007	500,000	0	0	0	1,000	1,000	1,000	1,000	0
7/1/2007 to 6/30/2008	500,000	6,197	(6,197)	0	0	(6,197)	0	0	0
7/1/2008 to 6/30/2009	500,000	3,865	(3,865)	0	0	(3,865)	0	0	0
7/1/2009 to 6/30/2010	500,000	6,974	(109,355)	(102,382)	(17,618)	(126,974)	(120,000)	(120,000)	0
7/1/2010 to 6/30/2011	500,000	0	0	0	0	0	0	0	0
7/1/2011 to 6/30/2012	500,000	5,339	(262,555)	(257,216)	(6,784)	(269,339)	(264,000)	(264,000)	0
7/1/2012 to 6/30/2013	600,000	25,001	(25,001)	0	0	(25,001)	0	0	0
7/1/2013 to 6/30/2014	600,000	25,597	103,298	128,895	5,105	108,403	134,000	134,000	0
7/1/2014 to 6/30/2015	600,000	68,269	(68,262)	6	0	(68,262)	6	6	0
7/1/2015 to 6/30/2016	600k / 1M	82,187	(452,622)	(370,435)	44,435	(408,187)	(326,000)	(326,000)	0
7/1/2016 to 6/30/2017	600k / 1M	3,214	(3,207)	6	(11,006)	(14,214)	(11,000)	(11,000)	0
7/1/2017 to 6/30/2018	600k / 1M	57,924	(56,810)	1,114	(1,114)	(57,924)	0	0	0
7/1/2018 to 6/30/2019	600k / 1.25M	39,117	125,625	164,743	(42,743)	82,883	122,000	122,000	0
7/1/2019 to 6/30/2020	600k / 1.25M	34,231	154,536	188,767	(13,767)	140,769	175,000	175,000	0
7/1/2020 to 6/30/2021	750k / 2.25M	64,240	(92,737)	(28,497)	(12,503)	(105,240)	(41,000)	(41,000)	0
7/1/2021 to 6/30/2022	1M / 3M	75,735	(57,155)	18,580	(95,580)	(152,735)	(77,000)	(77,000)	0
7/1/2022 to 6/30/2023	1.5M / 3M	618,269	(115,630)	502,639	(1,037,639)	(1,153,269)	(535,000)	(535,000)	0
7/1/2023 to 6/30/2024	1.5M / 3M	351,339	1,008,441	1,359,780	1,699,220	2,707,661	3,059,000	N/A	3,059,000
TOTALS		**1,470,496**	**93,966**	**1,564,463**	**509,296**	**603,262**	**2,073,758**	**(985,242)**	**3,059,000**

Notes:
(1) from City of Chandler
(2) from City of Chandler
(3) from City of Chandler
(4) = (6) - (3)
(5) = (6) - (1)
(6) from Exhibit C, Page 1, Column (7)
(7) to (12) from previous Oliver Wyman study
(13) = (1) - (7)
(14) = (2) - (8)
(15) = (3) - (9)
(16) = (4) - (10)
(17) = (5) - (11)
(18) = (6) - (12)
(19) = (6) - (12) at 6/30/2023
(20) derived from (6)

Exhibit C
Page 1

City of Chandler
Workers' Compensation
Summary - Limited to Self-Insured Retention (SIR)
Based on Data as of June 30, 2024

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
			Losses & ALAE @ SIR						Claim Counts (ex. CWOP)					
Policy Period	**Self-Insured Retention (SIR)**	**Exposures ($1,000 Payroll)**	**Paid**	**Case Reserves**	**Incurred**	**IBNR**	**Unpaid**	**Selected Ultimate**	**Closed**	**Open**	**Reported**	**IBNR**	**Open & IBNR**	**Selected Ultimate**
1/1/2003 to 6/30/2005	500,000	206,142	2,542,453	28,478	2,570,931	69	28,547	2,571,000	352	3	355	0	3	355
7/1/2005 to 6/30/2006	500,000	90,201	983,484	0	983,484	0	0	983,484	147	0	147	0	0	147
7/1/2006 to 6/30/2007	500,000	102,877	600,275	18,893	619,168	832	19,725	620,000	134	1	135	0	1	135
7/1/2007 to 6/30/2008	500,000	111,710	813,279	187,736	1,001,015	985	188,721	1,002,000	160	1	161	0	1	161
7/1/2008 to 6/30/2009	500,000	120,668	1,172,864	124,805	1,297,670	330	125,136	1,298,000	163	2	165	0	2	165
7/1/2009 to 6/30/2010	500,000	119,800	1,502,869	147,089	1,649,958	42	147,131	1,650,000	140	2	142	0	2	142
7/1/2010 to 6/30/2011	500,000	113,843	1,456,561	0	1,456,561	0	0	1,456,561	152	1	153	0	1	153
7/1/2011 to 6/30/2012	500,000	110,414	1,927,576	41,054	1,968,630	26,370	67,424	1,995,000	160	1	161	0	1	161
7/1/2012 to 6/30/2013	600,000	119,088	2,185,127	147,273	2,332,401	40,599	187,873	2,373,000	131	4	135	0	4	135
7/1/2013 to 6/30/2014	600,000	115,348	2,462,520	339,320	2,801,840	69,160	408,480	2,871,000	150	4	154	0	4	154
7/1/2014 to 6/30/2015	600,000	119,528	1,597,694	484,535	2,082,229	0	484,535	2,082,229	141	2	143	0	2	143
7/1/2015 to 6/30/2016	600k / 1M	127,517	2,909,318	258,217	3,167,535	104,465	362,682	3,272,000	150	3	153	0	3	153
7/1/2016 to 6/30/2017	600k / 1M	128,452	1,648,664	85,102	1,733,766	58,234	143,336	1,792,000	131	2	133	0	2	133
7/1/2017 to 6/30/2018	600k / 1M	133,497	1,806,605	928,862	2,735,467	73,533	1,002,395	2,809,000	146	3	149	0	3	149
7/1/2018 to 6/30/2019	600k / 1.25M	135,570	1,182,445	731,008	1,913,453	81,547	812,555	1,995,000	152	6	158	0	6	158
7/1/2019 to 6/30/2020	600k / 1.25M	136,800	1,380,427	816,607	2,197,035	122,965	939,573	2,320,000	143	5	148	0	5	148
7/1/2020 to 6/30/2021	750k / 2.25M	140,084	1,611,240	1,249,018	2,860,259	186,741	1,435,760	3,047,000	128	7	135	0	7	135
7/1/2021 to 6/30/2022	1M / 3M	142,931	1,020,259	1,261,690	2,281,949	155,051	1,416,741	2,437,000	115	3	118	0	3	118
7/1/2022 to 6/30/2023	1.5M / 3M	159,979	1,056,866	680,751	1,737,618	549,382	1,230,134	2,287,000	114	12	126	1	13	127
7/1/2023 to 6/30/2024	1.5M / 3M	173,629	351,339	1,008,441	1,359,780	1,699,220	2,707,661	3,059,000	82	58	140	11	69	151
TOTALS		**2,608,077**	**30,211,869**	**8,538,880**	**38,750,748**	**3,169,526**	**11,708,406**	**41,920,275**	**2,991**	**120**	**3,111**	**12**	**132**	**3,123**

		(14)	(15)	(16)	(17)	(18)	(19)	(20)
		(Losses & ALAE @ SIR) / (Claim Counts)						
Policy Period	**Self-Insured Retention (SIR)**	**Paid per Closed**	**Case Reserves per Open**	**Incurred per Reported**	**Unpaid per Open & IBNR**	**Implied Ultimate Severity**	**Implied Ultimate Frequency (per $1M)**	**Implied Ultimate Loss Cost per Exposure**
1/1/2003 to 6/30/2005	500,000	7,223	9,493	7,242	9,516	7,242	1.722	12.47
7/1/2005 to 6/30/2006	500,000	6,690		6,690		6,690	1.630	10.90
7/1/2006 to 6/30/2007	500,000	4,480	18,893	4,586	19,725	4,593	1.312	6.03
7/1/2007 to 6/30/2008	500,000	5,083	187,736	6,217	188,721	6,224	1.441	8.97
7/1/2008 to 6/30/2009	500,000	7,195	62,403	7,865	62,568	7,867	1.367	10.76
7/1/2009 to 6/30/2010	500,000	10,735	73,545	11,619	73,566	11,620	1.185	13.77
7/1/2010 to 6/30/2011	500,000	9,583	0	9,520	0	9,520	1.344	12.79
7/1/2011 to 6/30/2012	500,000	12,047	41,054	12,228	67,424	12,391	1.458	18.07
7/1/2012 to 6/30/2013	600,000	16,680	36,818	17,277	46,968	17,578	1.134	19.93
7/1/2013 to 6/30/2014	600,000	16,417	84,830	18,194	102,120	18,643	1.335	24.89
7/1/2014 to 6/30/2015	600,000	11,331	242,267	14,561	242,267	14,561	1.196	17.42
7/1/2015 to 6/30/2016	600k / 1M	19,395	86,072	20,703	120,894	21,386	1.200	25.66
7/1/2016 to 6/30/2017	600k / 1M	12,585	42,551	13,036	71,668	13,474	1.035	13.95
7/1/2017 to 6/30/2018	600k / 1M	12,374	309,621	18,359	334,132	18,852	1.116	21.04
7/1/2018 to 6/30/2019	600k / 1.25M	7,779	121,835	12,110	135,426	12,627	1.165	14.72
7/1/2019 to 6/30/2020	600k / 1.25M	9,653	163,321	14,845	187,915	15,676	1.082	16.96
7/1/2020 to 6/30/2021	750k / 2.25M	12,588	178,431	21,187	205,109	22,570	0.964	21.75
7/1/2021 to 6/30/2022	1M / 3M	8,872	420,563	19,339	472,247	20,653	0.826	17.05
7/1/2022 to 6/30/2023	1.5M / 3M	9,271	56,729	13,791	94,626	18,008	0.794	14.30
7/1/2023 to 6/30/2024	1.5M / 3M	4,285	17,387	9,713	39,241	20,258	0.870	17.62
TOTALS		**10,101**	**71,157**	**12,456**	**88,700**	**13,423**	**1.197**	**16.07**

Notes:
(1) from City of Chandler
(2) from City of Chandler
(3) from City of Chandler
(4) from City of Chandler
(5) = (7) - (4)
(6) = (3) + (5)
(7) from Exhibit C, Page 2, Column (16)
(8) from City of Chandler
(9) = (10) - (8)
(10) from City of Chandler
(11) = (13) - (10)
(12) = (9) + (11)
(13) from Exhibit D, Page 7, Column (12)
(14) = (2) / (8)
(15) = (3) / (9)
(16) = (4) / (10)
(17) = (6) / (12)
(18) = (7) / (13)
(19) = (13) / (1) x 1,000
(20) = (7) / (1)

City of Chandler
Workers' Compensation
Selected Ultimate Losses & ALAE - Limited to Self-Insured Retention (SIR)
Based on Data as of June 30, 2024

Policy Period	Self-Insured Retention (SIR)	(1) Age in Months	(2) Limited to $75,000 Incurred	(3) Limited to $75,000 Ultimate	(4) Limited to $75,000 Incurred LDFs	(5) Limited to $75,000 Expected IBNR	(6) Limited to SIR Incurred	(7) Limited to SIR ILFs to SIR	(8) Limited to SIR Incurred LDFs	(9) Limited to SIR Expected IBNR	(10) Excess Incurred	(11) Excess Expected IBNR
1/1/2003 to 6/30/2005	500,000	249	1,886,883	1,886,883	1.000	0	2,570,931	1.620	1.000	0	684,047	0
7/1/2005 to 6/30/2006	500,000	228	649,576	649,576	1.000	0	983,484	1.627	1.000	0	333,909	0
7/1/2006 to 6/30/2007	500,000	216	607,316	607,316	1.000	0	619,168	1.631	1.000	0	11,852	0
7/1/2007 to 6/30/2008	500,000	204	763,087	763,087	1.000	0	1,001,015	1.634	1.000	0	237,929	0
7/1/2008 to 6/30/2009	500,000	192	675,237	675,237	1.000	0	1,297,670	1.636	1.000	0	622,433	0
7/1/2009 to 6/30/2010	500,000	180	1,304,910	1,304,910	1.000	0	1,649,958	1.639	1.000	0	345,048	0
7/1/2010 to 6/30/2011	500,000	168	966,822	966,822	1.001	966	1,456,561	1.641	1.007	11,202	489,739	10,236
7/1/2011 to 6/30/2012	500,000	156	1,161,297	1,161,297	1.002	2,319	1,968,630	1.642	1.014	25,436	807,333	23,117
7/1/2012 to 6/30/2013	600,000	144	1,069,226	1,069,226	1.003	3,201	2,332,401	1.710	1.020	35,632	1,263,175	32,431
7/1/2013 to 6/30/2014	600,000	132	1,493,243	1,493,243	1.004	5,958	2,801,840	1.717	1.025	61,350	1,308,597	55,392
7/1/2014 to 6/30/2015	600,000	120	990,336	990,336	1.005	4,937	2,082,229	1.724	1.028	46,373	1,091,893	41,436
7/1/2015 to 6/30/2016	600k / 1M	108	1,090,433	1,090,433	1.006	6,520	3,167,535	1.860	1.033	64,974	2,077,102	58,454
7/1/2016 to 6/30/2017	600k / 1M	96	1,264,196	1,264,196	1.007	8,814	1,733,766	1.867	1.034	77,160	469,570	68,346
7/1/2017 to 6/30/2018	600k / 1M	84	1,145,736	1,145,736	1.008	9,125	2,735,467	1.875	1.034	70,350	1,589,731	61,225
7/1/2018 to 6/30/2019	600k / 1.25M	72	1,166,364	1,180,000	1.011	12,899	1,913,453	1.945	1.043	93,591	747,089	80,692
7/1/2019 to 6/30/2020	600k / 1.25M	60	1,117,556	1,140,000	1.016	18,071	2,197,035	1.951	1.056	118,228	1,079,478	100,156
7/1/2020 to 6/30/2021	750k / 2.25M	48	1,327,943	1,360,000	1.021	28,218	2,860,259	2.122	1.065	177,288	1,532,316	149,071
7/1/2021 to 6/30/2022	1M / 3M	36	834,099	890,000	1.029	25,383	2,281,949	2.182	1.068	124,390	1,447,850	99,007
7/1/2022 to 6/30/2023	1.5M / 3M	24	1,089,913	1,180,000	1.048	53,923	1,737,618	2.203	1.083	199,950	647,705	146,027
7/1/2023 to 6/30/2024	1.5M / 3M	12	1,078,355	1,380,000	1.268	291,622	1,359,780	2.216	1.348	790,477	281,424	498,855
TOTALS			**21,682,528**	**22,198,297**		**471,956**	**38,750,748**			**1,896,402**	**17,068,220**	**1,424,446**

Policy Period	Self-Insured Retention (SIR)	(12) Limited to SIR – Indicated Ultimate – ILF Method	(13) Limited to SIR – Indicated Ultimate – LDF Method	(14) Limited to SIR – Indicated Ultimate – Excess Method	(15) Limited to SIR – Prior Ultimate	(16) Limited to SIR – Selected Ultimate
1/1/2003 to 6/30/2005	500,000	3,056,922	2,570,931	2,570,931	2,571,732	2,571,000
7/1/2005 to 6/30/2006	500,000	1,056,848	983,484	983,484	1,026,000	983,484
7/1/2006 to 6/30/2007	500,000	990,267	619,168	619,168	619,000	620,000
7/1/2007 to 6/30/2008	500,000	1,246,690	1,001,015	1,001,015	1,002,000	1,002,000
7/1/2008 to 6/30/2009	500,000	1,104,965	1,297,670	1,297,670	1,298,000	1,298,000
7/1/2009 to 6/30/2010	500,000	2,138,806	1,649,958	1,649,958	1,770,000	1,650,000
7/1/2010 to 6/30/2011	500,000	1,586,471	1,466,919	1,466,798	1,456,561	1,456,561
7/1/2011 to 6/30/2012	500,000	1,907,227	1,995,240	1,991,747	2,259,000	1,995,000
7/1/2012 to 6/30/2013	600,000	1,828,380	2,378,759	2,364,832	2,373,000	2,373,000
7/1/2013 to 6/30/2014	600,000	2,563,737	2,870,532	2,857,232	2,737,000	2,871,000
7/1/2014 to 6/30/2015	600,000	1,707,040	2,140,374	2,123,665	2,082,223	2,082,229
7/1/2015 to 6/30/2016	600k / 1M	2,027,936	3,272,380	3,225,989	3,598,000	3,272,000
7/1/2016 to 6/30/2017	600k / 1M	2,360,610	1,792,352	1,802,113	1,803,000	1,792,000
7/1/2017 to 6/30/2018	600k / 1M	2,147,968	2,828,093	2,796,692	2,809,000	2,809,000
7/1/2018 to 6/30/2019	600k / 1.25M	2,295,031	1,994,801	2,007,781	1,873,000	1,995,000
7/1/2019 to 6/30/2020	600k / 1.25M	2,224,418	2,320,362	2,319,635	2,145,000	2,320,000
7/1/2020 to 6/30/2021	750k / 2.25M	2,885,556	3,047,497	3,041,387	3,088,000	3,047,000
7/1/2021 to 6/30/2022	1M / 3M	1,941,901	2,438,125	2,436,858	2,514,000	2,437,000
7/1/2022 to 6/30/2023	1.5M / 3M	2,599,667	1,882,400	1,973,732	2,822,000	2,287,000
7/1/2023 to 6/30/2024	1.5M / 3M	3,058,705	1,833,662	2,160,279	3,081,000	3,059,000
TOTALS		**40,729,148**	**40,383,722**	**40,690,964**	**42,927,516**	**41,920,275**

Notes:
(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) from Exhibit C, Page 3, Column (12)
(4) from Appendix A, Page 1
(5) = (3) x [1 - 1 / (4)]
(6) from City of Chandler
(7) from Appendix B, Page 1
(limit adjusted for trend for prior years)
(8) from Appendix A, Page 1
(9) = (3) x (7) x [1 - 1 / (8)]
(10) = (6) - (2)
(11) = (9) - (5)
(12) = (3) x (7)
(13) = (6) x (8)
(14) = (3) + (10) + (11)
(15) from previous Oliver Wyman study; current year adjusted for revised payroll
(16) selected

City of Chandler
Workers' Compensation
Selected Ultimate Losses & ALAE - Limited to $75,000
Based on Data as of June 30, 2024

Exhibit C
Page 3

Policy Period	(1) Exposures ($1,000 Payroll)	(2) Open & IBNR Claim Count	(3) Paid	(4) Incurred	(5) Paid Development Method	(6) Incurred Development Method	(7) Loss Cost Method	(8) Frequency / Severity Method	(9) Paid Bornhuetter-Ferguson Method	(10) Incurred Bornhuetter-Ferguson Method	(11) Prior Ultimate	(12) Selected Ultimate
1/1/2003 to 6/30/2005	206,142	3	1,875,899	1,886,883	1,885,458	1,886,883			1,885,465	1,886,883	1,886,883	1,886,883
7/1/2005 to 6/30/2006	90,201	0	649,576	649,576	654,780	649,576			654,739	649,576	649,576	649,576
7/1/2006 to 6/30/2007	102,877	1	588,424	607,316	594,324	607,316			594,453	607,316	607,000	607,316
7/1/2007 to 6/30/2008	111,710	1	763,087	763,087	772,280	763,087			772,171	763,087	763,087	763,087
7/1/2008 to 6/30/2009	120,668	2	675,237	675,237	684,739	675,237			684,607	675,237	675,237	675,237
7/1/2009 to 6/30/2010	119,800	2	1,299,965	1,304,910	1,322,213	1,304,910			1,321,922	1,304,910	1,309,000	1,304,910
7/1/2010 to 6/30/2011	113,843	1	966,822	966,822	986,318	967,789			985,933	967,788	966,822	966,822
7/1/2011 to 6/30/2012	110,414	1	1,161,297	1,161,297	1,188,270	1,163,621			1,187,657	1,163,616	1,160,847	1,161,297
7/1/2012 to 6/30/2013	119,088	4	1,069,226	1,069,226	1,097,342	1,072,437			1,096,622	1,072,427	1,069,226	1,069,226
7/1/2013 to 6/30/2014	115,348	4	1,493,243	1,493,243	1,538,639	1,499,225			1,537,300	1,499,201	1,493,243	1,493,243
7/1/2014 to 6/30/2015	119,528	2	990,336	990,336	1,024,525	995,297			1,023,384	995,273	990,329	990,336
7/1/2015 to 6/30/2016	127,517	3	1,040,415	1,090,433	1,081,715	1,096,992			1,082,048	1,096,952	1,090,420	1,090,433
7/1/2016 to 6/30/2017	128,452	2	1,264,196	1,264,196	1,322,265	1,273,072			1,319,715	1,273,010	1,264,190	1,264,196
7/1/2017 to 6/30/2018	133,497	3	1,111,749	1,145,736	1,170,955	1,154,934			1,169,680	1,154,861	1,144,622	1,145,736
7/1/2018 to 6/30/2019	135,570	6	1,079,002	1,166,364	1,145,556	1,179,255			1,147,514	1,179,255	1,150,000	1,180,000
7/1/2019 to 6/30/2020	136,800	5	1,084,488	1,117,556	1,162,894	1,135,557			1,161,973	1,135,774	1,150,000	1,140,000
7/1/2020 to 6/30/2021	140,084	7	1,222,414	1,327,943	1,337,007	1,356,079	1,163,774	1,185,047	1,322,160	1,352,089	1,390,000	1,360,000
7/1/2021 to 6/30/2022	142,931	3	812,505	834,099	915,332	858,586	1,145,511	1,065,376	941,190	866,769	940,000	890,000
7/1/2022 to 6/30/2023	159,979	13	902,535	1,089,913	1,103,181	1,142,104	1,249,537	1,177,053	1,129,800	1,147,014	1,270,000	1,180,000
7/1/2023 to 6/30/2024	173,629	69	351,339	1,078,355	783,739	1,367,292	1,319,582	1,434,500	1,079,371	1,357,210	1,382,000	1,380,000
TOTALS	**2,608,077**	**132**	**20,401,753**	**21,682,528**	**21,771,534**	**22,149,249**			**22,097,703**	**22,148,248**	**22,352,481**	**22,198,297**

Notes:
(1) from City of Chandler
(2) = Exhibit D, Page 7, Column (12) - closed claim counts with payment
(3) from City of Chandler
(4) from City of Chandler
(5) from Exhibit D, Page 1, Column (4)
(6) from Exhibit D, Page 2, Column (4)
(7) from Exhibit D, Page 3, Column (10)
(8) from Exhibit D, Page 4, Column (8)
(9) from Exhibit D, Page 5, Column (7)
(10) from Exhibit D, Page 6, Column (7)
(11) from previous Oliver Wyman study; current year adjusted for revised payroll
(12) selected

City of Chandler
Workers' Compensation
Paid Losses & ALAE Development Method - Limited to $75,000
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Paid	(3) Cumulative Development Factors	(4) Ultimate
1/1/2003 to 6/30/2005	249	1,875,899	1.005	1,885,458
7/1/2005 to 6/30/2006	228	649,576	1.008	654,780
7/1/2006 to 6/30/2007	216	588,424	1.010	594,324
7/1/2007 to 6/30/2008	204	763,087	1.012	772,280
7/1/2008 to 6/30/2009	192	675,237	1.014	684,739
7/1/2009 to 6/30/2010	180	1,299,965	1.017	1,322,213
7/1/2010 to 6/30/2011	168	966,822	1.020	986,318
7/1/2011 to 6/30/2012	156	1,161,297	1.023	1,188,270
7/1/2012 to 6/30/2013	144	1,069,226	1.026	1,097,342
7/1/2013 to 6/30/2014	132	1,493,243	1.030	1,538,639
7/1/2014 to 6/30/2015	120	990,336	1.035	1,024,525
7/1/2015 to 6/30/2016	108	1,040,415	1.040	1,081,715
7/1/2016 to 6/30/2017	96	1,264,196	1.046	1,322,265
7/1/2017 to 6/30/2018	84	1,111,749	1.053	1,170,955
7/1/2018 to 6/30/2019	72	1,079,002	1.062	1,145,556
7/1/2019 to 6/30/2020	60	1,084,488	1.072	1,162,894
7/1/2020 to 6/30/2021	48	1,222,414	1.094	1,337,007
7/1/2021 to 6/30/2022	36	812,505	1.127	915,332
7/1/2022 to 6/30/2023	24	902,535	1.222	1,103,181
7/1/2023 to 6/30/2024	12	351,339	2.231	783,739
TOTALS		**20,401,753**		**21,771,534**

Notes:
(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) from Appendix A, Page 1
(4) = (2) x (3)

City of Chandler
Workers' Compensation
Incurred Losses & ALAE Development Method - Limited to $75,000
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Incurred	(3) Cumulative Development Factors	(4) Ultimate
1/1/2003 to 6/30/2005	249	1,886,883	1.000	1,886,883
7/1/2005 to 6/30/2006	228	649,576	1.000	649,576
7/1/2006 to 6/30/2007	216	607,316	1.000	607,316
7/1/2007 to 6/30/2008	204	763,087	1.000	763,087
7/1/2008 to 6/30/2009	192	675,237	1.000	675,237
7/1/2009 to 6/30/2010	180	1,304,910	1.000	1,304,910
7/1/2010 to 6/30/2011	168	966,822	1.001	967,789
7/1/2011 to 6/30/2012	156	1,161,297	1.002	1,163,621
7/1/2012 to 6/30/2013	144	1,069,226	1.003	1,072,437
7/1/2013 to 6/30/2014	132	1,493,243	1.004	1,499,225
7/1/2014 to 6/30/2015	120	990,336	1.005	995,297
7/1/2015 to 6/30/2016	108	1,090,433	1.006	1,096,992
7/1/2016 to 6/30/2017	96	1,264,196	1.007	1,273,072
7/1/2017 to 6/30/2018	84	1,145,736	1.008	1,154,934
7/1/2018 to 6/30/2019	72	1,166,364	1.011	1,179,255
7/1/2019 to 6/30/2020	60	1,117,556	1.016	1,135,557
7/1/2020 to 6/30/2021	48	1,327,943	1.021	1,356,079
7/1/2021 to 6/30/2022	36	834,099	1.029	858,586
7/1/2022 to 6/30/2023	24	1,089,913	1.048	1,142,104
7/1/2023 to 6/30/2024	12	1,078,355	1.268	1,367,292
TOTALS		**21,682,528**		**22,149,249**

Notes:
(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) from Appendix A, Page 1
(4) = (2) x (3)

City of Chandler
Workers' Compensation
Losses & ALAE Cost Method - Limited to $75,000
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Preliminary Ultimate	(3) Exposures ($1,000 Payroll)	(4) Exposure Trend	(5) Benefit Level Factor	(6) Preliminary Ultimate Loss Cost	(7) Loss Cost Trend Factor	(8) Preliminary Trended Ult Loss Cost	(9) Adjusted Selected Loss Cost	(10) Ultimate
1/1/2003 to 6/30/2005	249	1,886,883	206,142	1.884	1.250	6.07	1.475	8.96	7.76	
7/1/2005 to 6/30/2006	228	649,576	90,201	1.798	1.209	4.84	1.425	6.90	7.93	
7/1/2006 to 6/30/2007	216	607,316	102,877	1.716	1.195	4.11	1.397	5.74	7.81	
7/1/2007 to 6/30/2008	204	763,087	111,710	1.652	1.160	4.80	1.370	6.57	7.90	
7/1/2008 to 6/30/2009	192	675,237	120,668	1.618	1.108	3.83	1.343	5.15	8.26	
7/1/2009 to 6/30/2010	180	1,304,910	119,800	1.608	1.065	7.22	1.317	9.51	8.71	
7/1/2010 to 6/30/2011	168	966,822	113,843	1.582	1.050	5.64	1.292	7.28	8.86	
7/1/2011 to 6/30/2012	156	1,161,297	110,414	1.537	1.042	7.13	1.266	9.03	8.85	
7/1/2012 to 6/30/2013	144	1,069,226	119,088	1.499	1.034	6.20	1.242	7.69	8.87	
7/1/2013 to 6/30/2014	132	1,493,243	115,348	1.490	1.015	8.82	1.218	10.74	9.16	
7/1/2014 to 6/30/2015	120	990,336	119,528	1.457	1.008	5.73	1.194	6.84	9.20	
7/1/2015 to 6/30/2016	108	1,090,433	127,517	1.428	0.997	5.97	1.171	6.99	9.30	
7/1/2016 to 6/30/2017	96	1,264,196	128,452	1.409	1.006	7.03	1.148	8.06	9.27	
7/1/2017 to 6/30/2018	84	1,145,736	133,497	1.362	1.006	6.34	1.125	7.13	9.15	
7/1/2018 to 6/30/2019	72	1,179,255	135,570	1.317	1.002	6.62	1.103	7.30	9.05	
7/1/2019 to 6/30/2020	60	1,149,226	136,800	1.267	1.002	6.64	1.082	7.19	8.88	
7/1/2020 to 6/30/2021	48	1,346,543	140,084	1.165	1.005	8.29	1.061	8.79	8.31	1,163,774
7/1/2021 to 6/30/2022	36	886,959	142,931	1.099	1.002	5.66	1.040	5.88	8.01	1,145,511
7/1/2022 to 6/30/2023	24	1,159,033	159,979	1.048	1.000	6.91	1.020	7.05	7.81	1,249,537
7/1/2023 to 6/30/2024	12	1,339,512	173,629	1.000	1.000	7.71	1.000	7.71	7.60	1,319,582
TOTALS		**22,128,826**	**2,608,077**							

Arithmetic Average	*7.52*	*Excluding Current Period*
Weighted Average	*7.56*	
5 Period Arithmetic Average	*7.24*	
3 Period Arithmetic Average	*7.24*	
Prior Forecast	*7.95*	
Frequency x Severity	*7.60*	
Selected for period 7/1/2023 to 6/30/2024	***7.60***	

Notes:
(1) = (average evaluation period) - (average policy period)
(2) based on Exhibit D, Page 1 and 2, Column (4) and actuarial judgment
(3) from City of Chandler
(4) derived from the 2023 edition of NCCI Annual Statistical Bulletin
(5) based on information published by NCCI
(6) = (2) x (5) / (3) / (4)
(7) assumed 2.0% annual loss cost trend
(8) = (6) x (7)
(9) = (Selected for period 7/1/2023 to 6/30/2024) x (4) / (5) / (7)
(10) = (3) x (9)

City of Chandler
Workers' Compensation
Frequency / Severity Method for Losses & ALAE - Limited to $75,000
Based on Data as of June 30, 2024

	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Policy Period	**Preliminary Ultimate**	**Selected Ultimate Counts**	**Benefit Level Factor**	**Preliminary Ultimate Severity**	**Severity Trend Factor**	**Preliminary Trended Ultimate Severity**	**Adjusted Selected Severity**	**Ultimate**
1/1/2003 to 6/30/2005	1,886,883	355	1.250	6,647	1.628	10,824	4,665	
7/1/2005 to 6/30/2006	649,576	147	1.209	5,343	1.560	8,333	5,038	
7/1/2006 to 6/30/2007	607,316	135	1.195	5,374	1.522	8,177	5,227	
7/1/2007 to 6/30/2008	763,087	161	1.160	5,500	1.485	8,165	5,515	
7/1/2008 to 6/30/2009	675,237	165	1.108	4,534	1.448	6,567	5,920	
7/1/2009 to 6/30/2010	1,304,910	142	1.065	9,791	1.413	13,834	6,311	
7/1/2010 to 6/30/2011	966,822	153	1.050	6,638	1.379	9,150	6,561	
7/1/2011 to 6/30/2012	1,161,297	161	1.042	7,518	1.345	10,111	6,777	
7/1/2012 to 6/30/2013	1,069,226	135	1.034	8,190	1.312	10,746	7,002	
7/1/2013 to 6/30/2014	1,493,243	154	1.015	9,847	1.280	12,604	7,308	
7/1/2014 to 6/30/2015	990,336	143	1.008	6,980	1.249	8,718	7,547	
7/1/2015 to 6/30/2016	1,090,433	153	0.997	7,109	1.218	8,662	7,817	
7/1/2016 to 6/30/2017	1,264,196	133	1.006	9,566	1.189	11,370	7,942	
7/1/2017 to 6/30/2018	1,145,736	149	1.006	7,736	1.160	8,971	8,143	
7/1/2018 to 6/30/2019	1,179,255	158	1.002	7,480	1.131	8,463	8,378	
7/1/2019 to 6/30/2020	1,149,226	148	1.002	7,778	1.104	8,586	8,592	
7/1/2020 to 6/30/2021	1,346,543	135	1.005	10,024	1.077	10,795	8,778	1,185,047
7/1/2021 to 6/30/2022	886,959	118	1.002	7,528	1.051	7,909	9,029	1,065,376
7/1/2022 to 6/30/2023	1,159,033	127	1.000	9,126	1.025	9,355	9,268	1,177,053
7/1/2023 to 6/30/2024	1,339,512	151	1.000	8,871	1.000	8,871	9,500	1,434,500
TOTALS	**22,128,826**	**3,123**						

Notes:
(1) based on Exhibit D, Page 1 and 2, Column (4) and actuarial judgment
(2) from Exhibit D, Page 7, Column (12)
(3) based on information published by NCCI
(4) = (1) / (2) x (3)
(5) assumed 2.5% annual severity trend
(6) = (4) x (5)
(7) = (Selected for period 7/1/2023 to 6/30/2024) / [(3) x (5)]
(8) = (2) x (7)

Arithmetic Average	*9,544*	*Excluding Current Period*
Weighted Average	*9,610*	
5 Period Arithmetic Average	*9,022*	
3 Period Arithmetic Average	*9,353*	
Prior Forecast	*9,600*	
Selected for period 7/1/2023 to 6/30/2024	***9,500***	

City of Chandler
Workers' Compensation
Paid Losses & ALAE Bornhuetter-Ferguson Method - Limited to $75,000
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Preliminary Ultimate	(3) Actual Paid	(4) Cumulative Development Factors	(5) Expected Paid	(6) Expected Unpaid	(7) Ultimate
1/1/2003 to 6/30/2005	249	1,886,883	1,875,899	1.005	1,877,318	9,566	1,885,465
7/1/2005 to 6/30/2006	228	649,576	649,576	1.008	644,413	5,163	654,739
7/1/2006 to 6/30/2007	216	607,316	588,424	1.010	601,287	6,030	594,453
7/1/2007 to 6/30/2008	204	763,087	763,087	1.012	754,002	9,084	772,171
7/1/2008 to 6/30/2009	192	675,237	675,237	1.014	665,867	9,370	684,607
7/1/2009 to 6/30/2010	180	1,304,910	1,299,965	1.017	1,282,953	21,957	1,321,922
7/1/2010 to 6/30/2011	168	966,822	966,822	1.020	947,711	19,111	985,933
7/1/2011 to 6/30/2012	156	1,161,297	1,161,297	1.023	1,134,937	26,360	1,187,657
7/1/2012 to 6/30/2013	144	1,069,226	1,069,226	1.026	1,041,830	27,396	1,096,622
7/1/2013 to 6/30/2014	132	1,493,243	1,493,243	1.030	1,449,186	44,057	1,537,300
7/1/2014 to 6/30/2015	120	990,336	990,336	1.035	957,288	33,048	1,023,384
7/1/2015 to 6/30/2016	108	1,090,433	1,040,415	1.040	1,048,800	41,632	1,082,048
7/1/2016 to 6/30/2017	96	1,264,196	1,264,196	1.046	1,208,678	55,519	1,319,715
7/1/2017 to 6/30/2018	84	1,145,736	1,111,749	1.053	1,087,805	57,931	1,169,680
7/1/2018 to 6/30/2019	72	1,179,255	1,079,002	1.062	1,110,743	68,512	1,147,514
7/1/2019 to 6/30/2020	60	1,149,226	1,084,488	1.072	1,071,741	77,485	1,161,973
7/1/2020 to 6/30/2021	48	1,163,774	1,222,414	1.094	1,064,028	99,746	1,322,160
7/1/2021 to 6/30/2022	36	1,145,511	812,505	1.127	1,016,826	128,686	941,190
7/1/2022 to 6/30/2023	24	1,249,537	902,535	1.222	1,022,272	227,265	1,129,800
7/1/2023 to 6/30/2024	12	1,319,582	351,339	2.231	591,549	728,032	1,079,371
TOTALS		**22,275,183**	**20,401,753**		**20,579,233**	**1,695,950**	**22,097,703**

Notes:
(1) = (average evaluation period) - (average policy period)
(2) based on Exhibit D, Page 1 and 2, Column (4) and actuarial judgment; most recent 4 periods from Exhibit D, Page 3, Column (10)
(3) from City of Chandler
(4) from Appendix A, Page 1
(5) = (2) x [1 / (4)]
(6) = (2) x [1 - 1 / (4)]
(7) = (3) + (6)

City of Chandler
Workers' Compensation
Incurred Losses & ALAE Bornhuetter-Ferguson Method - Limited to $75,000
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Preliminary Ultimate	(3) Actual Incurred	(4) Cumulative Development Factors	(5) Expected Incurred	(6) Expected IBNR	(7) Ultimate
1/1/2003 to 6/30/2005	249	1,886,883	1,886,883	1.000	1,886,883	0	1,886,883
7/1/2005 to 6/30/2006	228	649,576	649,576	1.000	649,576	0	649,576
7/1/2006 to 6/30/2007	216	607,316	607,316	1.000	607,316	0	607,316
7/1/2007 to 6/30/2008	204	763,087	763,087	1.000	763,087	0	763,087
7/1/2008 to 6/30/2009	192	675,237	675,237	1.000	675,237	0	675,237
7/1/2009 to 6/30/2010	180	1,304,910	1,304,910	1.000	1,304,910	0	1,304,910
7/1/2010 to 6/30/2011	168	966,822	966,822	1.001	965,856	966	967,788
7/1/2011 to 6/30/2012	156	1,161,297	1,161,297	1.002	1,158,978	2,319	1,163,616
7/1/2012 to 6/30/2013	144	1,069,226	1,069,226	1.003	1,066,025	3,201	1,072,427
7/1/2013 to 6/30/2014	132	1,493,243	1,493,243	1.004	1,487,285	5,958	1,499,201
7/1/2014 to 6/30/2015	120	990,336	990,336	1.005	985,399	4,937	995,273
7/1/2015 to 6/30/2016	108	1,090,433	1,090,433	1.006	1,083,913	6,520	1,096,952
7/1/2016 to 6/30/2017	96	1,264,196	1,264,196	1.007	1,255,382	8,814	1,273,010
7/1/2017 to 6/30/2018	84	1,145,736	1,145,736	1.008	1,136,612	9,125	1,154,861
7/1/2018 to 6/30/2019	72	1,179,255	1,166,364	1.011	1,166,364	12,891	1,179,255
7/1/2019 to 6/30/2020	60	1,149,226	1,117,556	1.016	1,131,008	18,218	1,135,774
7/1/2020 to 6/30/2021	48	1,163,774	1,327,943	1.021	1,139,628	24,146	1,352,089
7/1/2021 to 6/30/2022	36	1,145,511	834,099	1.029	1,112,841	32,670	866,769
7/1/2022 to 6/30/2023	24	1,249,537	1,089,913	1.048	1,192,436	57,101	1,147,014
7/1/2023 to 6/30/2024	12	1,319,582	1,078,355	1.268	1,040,727	278,854	1,357,210
TOTALS		**22,275,183**	**21,682,528**		**21,809,463**	**465,720**	**22,148,248**

Notes:
(1) = (average evaluation period) - (average policy period)
(2) based on Exhibit D, Page 1 and 2, Column (4) and actuarial judgment; most recent 4 periods from Exhibit D, Page 3, Column (10)
(3) from City of Chandler
(4) from
(5) = (2) x [1 / (4)]
(6) = (2) x [1 - 1 / (4)]
(7) = (3) + (6)

City of Chandler
Workers' Compensation
Selected Ultimate Claim Counts - Excluding Closed Without Payments
Based on Data as of June 30, 2024

Policy Period	(1) Age in Months	(2) Exposures ($1,000 Payroll)	(3) Exposure Trend	(4) Reported Counts	(5) Cumulative Development Factors	(6) Estimated Ultimate Counts	(7) Preliminary Frequency (per $1M)	(8) Frequency Trend	(9) Preliminary Trended Frequency (per $1M)	(10) Estimated Ultimate Counts	(11) Prior Ultimate Counts	(12) Selected Ultimate Counts	(13) Selected Frequency (per $1M)
1/1/2003 to 6/30/2005	249	206,142	1.884	355	1.000	355	0.914	0.906	0.828	355	355	355	1.722
7/1/2005 to 6/30/2006	228	90,201	1.798	147	1.000	147	0.906	0.914	0.828	147	147	147	1.630
7/1/2006 to 6/30/2007	216	102,877	1.716	135	1.000	135	0.765	0.918	0.702	135	135	135	1.312
7/1/2007 to 6/30/2008	204	111,710	1.652	161	1.000	161	0.872	0.923	0.805	161	161	161	1.441
7/1/2008 to 6/30/2009	192	120,668	1.618	165	1.000	165	0.845	0.928	0.784	165	165	165	1.367
7/1/2009 to 6/30/2010	180	119,800	1.608	142	1.000	142	0.737	0.932	0.687	142	142	142	1.185
7/1/2010 to 6/30/2011	168	113,843	1.582	153	1.000	153	0.849	0.937	0.796	153	153	153	1.344
7/1/2011 to 6/30/2012	156	110,414	1.537	161	1.000	161	0.948	0.942	0.893	161	161	161	1.458
7/1/2012 to 6/30/2013	144	119,088	1.499	135	1.000	135	0.756	0.946	0.716	135	135	135	1.134
7/1/2013 to 6/30/2014	132	115,348	1.490	154	1.000	154	0.896	0.951	0.852	154	154	154	1.335
7/1/2014 to 6/30/2015	120	119,528	1.457	143	1.000	143	0.821	0.956	0.785	143	143	143	1.196
7/1/2015 to 6/30/2016	108	127,517	1.428	153	1.000	153	0.840	0.961	0.807	153	153	153	1.200
7/1/2016 to 6/30/2017	96	128,452	1.409	133	1.000	133	0.735	0.966	0.709	133	133	133	1.035
7/1/2017 to 6/30/2018	84	133,497	1.362	149	1.000	149	0.819	0.970	0.795	149	149	149	1.116
7/1/2018 to 6/30/2019	72	135,570	1.317	158	1.000	158	0.885	0.975	0.863	158	158	158	1.165
7/1/2019 to 6/30/2020	60	136,800	1.267	148	1.000	148	0.854	0.980	0.837	148	148	148	1.082
7/1/2020 to 6/30/2021	48	140,084	1.165	135	1.000	135	0.827	0.985	0.815	135	135	135	0.964
7/1/2021 to 6/30/2022	36	142,931	1.099	118	1.001	118	0.752	0.990	0.745	118	118	118	0.826
7/1/2022 to 6/30/2023	24	159,979	1.048	126	1.004	127	0.754	0.995	0.751	127	131	127	0.794
7/1/2023 to 6/30/2024	12	173,629	1.000	140	1.079	151	0.870	1.000	0.870	150	144	151	0.870
TOTALS		**2,608,077**		**3,111**		**3,123**				**3,122**	**3,120**	**3,123**	

Arithmetic Average	*0.789*	*Excluding Current Period*
Weighted Average	*0.790*	
5 Period Arithmetic Average	*0.802*	
3 Period Arithmetic Average	*0.770*	
Prior Forecast	*0.830*	
Selected for period 7/1/2023 to 6/30/2024	***0.800***	

Notes:
(1) = (average evaluation period) - (average policy period)
(2) from City of Chandler
(3) Total Weighted by State annual trend from 2023 edition of NCCI Annual Statistical Bulletin
(4) from City of Chandler
(5) from Appendix A, Page 1
(6) = (4) x (5)
(7) = (6) / (2) x 1,000 / (3)
(8) assumed -0.5% annual frequency trend
(9) = (7) x (8)
(10) = { selected (9) x (2) / 1,000 x (3) / (8) x [1 - 1 / (5)] } + (4)
(11) from previous Oliver Wyman study; current year adjusted for revised payroll
(12) selected
(13) = (12) / (2) x 1,000

City of Chandler

Workers' Compensation

Actual vs. Expected Paid Losses & ALAE between 7/1/2023 and 6/30/2024 - Limited to Self-Insured Retention (SIR)

Based on Data as of June 30, 2024

Policy Period	(1) Ultimate @ 6/30/2023	(2) Paid @ 6/30/2023	(3) Unpaid @ 6/30/2023	(4) Expected Period Paid %	(5) Expected Period Paid	(6) Actual Period Paid	(7) Difference
1/1/2003 to 6/30/2005	2,571,732	2,542,130	29,603	16.2%	4,786	323	(4,463)
7/1/2005 to 6/30/2006	1,026,000	980,808	45,192	4.0%	1,829	2,677	847
7/1/2006 to 6/30/2007	619,000	600,275	18,725	3.3%	617	0	(617)
7/1/2007 to 6/30/2008	1,002,000	807,083	194,917	2.1%	4,059	6,197	2,138
7/1/2008 to 6/30/2009	1,298,000	1,169,000	129,000	6.4%	8,243	3,865	(4,378)
7/1/2009 to 6/30/2010	1,770,000	1,495,895	274,105	4.6%	12,621	6,974	(5,647)
7/1/2010 to 6/30/2011	1,456,561	1,456,561	0	3.3%	0	0	0
7/1/2011 to 6/30/2012	2,259,000	1,922,237	336,763	5.7%	19,355	5,339	(14,016)
7/1/2012 to 6/30/2013	2,373,000	2,160,127	212,873	3.8%	8,102	25,001	16,898
7/1/2013 to 6/30/2014	2,737,000	2,436,924	300,076	4.6%	13,856	25,597	11,740
7/1/2014 to 6/30/2015	2,082,223	1,529,426	552,797	5.0%	27,511	68,269	40,757
7/1/2015 to 6/30/2016	3,598,000	2,827,131	770,869	4.6%	35,288	82,187	46,899
7/1/2016 to 6/30/2017	1,803,000	1,645,450	157,550	4.9%	7,687	3,214	(4,473)
7/1/2017 to 6/30/2018	2,809,000	1,748,680	1,060,320	3.6%	37,831	57,924	20,094
7/1/2018 to 6/30/2019	1,873,000	1,143,328	729,672	3.5%	25,226	39,117	13,892
7/1/2019 to 6/30/2020	2,145,000	1,346,196	798,804	28.2%	225,182	34,231	(190,951)
7/1/2020 to 6/30/2021	3,088,000	1,547,001	1,540,999	2.1%	32,144	64,240	32,096
7/1/2021 to 6/30/2022	2,514,000	944,524	1,569,476	3.9%	61,411	75,735	14,324
7/1/2022 to 6/30/2023	2,822,000	438,597	2,383,403	59.2%	1,411,238	618,269	(792,969)
TOTALS	**39,846,516**	**28,741,372**	**11,105,144**		**1,936,986**	**1,119,157**	**(817,829)**

Notes:

(1) from previous Oliver Wyman study
(2) from previous Oliver Wyman study
(3) = (1) - (2)
(4) based on paid loss development factors from previous Oliver Wyman study
(5) = (3) x (4)
(6) from City of Chandler
(7) = (6) - (5)

City of Chandler

Workers' Compensation

Actual vs. Expected Incurred Losses & ALAE between 7/1/2023 and 6/30/2024 - Limited to Self-Insured Retention (SIR)

Based on Data as of June 30, 2024

	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Policy Period	**Ultimate @ 6/30/2023**	**Incurred @ 6/30/2023**	**IBNR @ 6/30/2023**	**Expected Period Incurred %**	**Expected Period Incurred**	**Actual Period Incurred**	**Difference**
1/1/2003 to 6/30/2005	2,571,732	2,570,931	802	100.0%	802	0	(802)
7/1/2005 to 6/30/2006	1,026,000	1,025,022	978	100.0%	978	(41,538)	(42,516)
7/1/2006 to 6/30/2007	619,000	619,168	(168)	100.0%	(168)	0	168
7/1/2007 to 6/30/2008	1,002,000	1,001,015	985	100.0%	985	0	(985)
7/1/2008 to 6/30/2009	1,298,000	1,297,670	330	100.0%	330	0	(330)
7/1/2009 to 6/30/2010	1,770,000	1,752,340	17,660	100.0%	17,660	(102,382)	(120,042)
7/1/2010 to 6/30/2011	1,456,561	1,456,561	0	47.1%	0	0	0
7/1/2011 to 6/30/2012	2,259,000	2,225,846	33,154	28.5%	9,440	(257,216)	(266,656)
7/1/2012 to 6/30/2013	2,373,000	2,332,401	40,599	18.6%	7,536	0	(7,536)
7/1/2013 to 6/30/2014	2,737,000	2,672,945	64,055	11.9%	7,630	128,895	121,265
7/1/2014 to 6/30/2015	2,082,223	2,082,223	0	6.6%	0	6	6
7/1/2015 to 6/30/2016	3,598,000	3,537,970	60,030	2.0%	1,189	(370,435)	(371,624)
7/1/2016 to 6/30/2017	1,803,000	1,733,760	69,240	0.2%	138	6	(132)
7/1/2017 to 6/30/2018	2,809,000	2,734,353	74,647	17.1%	12,757	1,114	(11,643)
7/1/2018 to 6/30/2019	1,873,000	1,748,711	124,289	23.3%	28,927	164,743	135,816
7/1/2019 to 6/30/2020	2,145,000	2,008,268	136,732	8.5%	11,591	188,767	177,176
7/1/2020 to 6/30/2021	3,088,000	2,888,756	199,244	8.8%	17,615	(28,497)	(46,113)
7/1/2021 to 6/30/2022	2,514,000	2,263,369	250,631	14.6%	36,578	18,580	(17,998)
7/1/2022 to 6/30/2023	2,822,000	1,234,978	1,587,022	70.6%	1,119,927	502,639	(617,288)
TOTALS	**39,846,516**	**37,186,285**	**2,660,231**		**1,273,915**	**204,683**	**(1,069,232)**

Notes:

(1) from previous Oliver Wyman study
(2) from previous Oliver Wyman study
(3) = (1) - (2)
(4) based on incurred loss development factors from previous Oliver Wyman study
(5) = (3) x (4)
(6) from City of Chandler
(7) = (6) - (5)

City of Chandler

Workers' Compensation

Actual vs. Expected Paid Losses & ALAE between 7/1/2023 and 6/30/2024 - Limited to $75,000

Based on Data as of June 30, 2024

Policy Period	(1) Ultimate @ 6/30/2023	(2) Paid @ 6/30/2023	(3) Unpaid @ 6/30/2023	(4) Expected Period Paid %	(5) Expected Period Paid	(6) Actual Period Paid	(7) Difference
1/1/2003 to 6/30/2005	1,886,883	1,875,850	11,033	20.0%	2,206	49	(2,157)
7/1/2005 to 6/30/2006	649,576	649,576	0	16.6%	0	0	0
7/1/2006 to 6/30/2007	607,000	588,424	18,576	14.2%	2,642	0	(2,642)
7/1/2007 to 6/30/2008	763,087	763,087	0	12.4%	0	0	0
7/1/2008 to 6/30/2009	675,237	675,237	0	15.7%	0	0	0
7/1/2009 to 6/30/2010	1,309,000	1,299,823	9,177	13.5%	1,241	142	(1,098)
7/1/2010 to 6/30/2011	966,822	966,822	0	11.9%	0	0	0
7/1/2011 to 6/30/2012	1,160,847	1,160,847	0	13.6%	0	450	450
7/1/2012 to 6/30/2013	1,069,226	1,069,226	0	11.9%	0	0	0
7/1/2013 to 6/30/2014	1,493,243	1,493,243	0	12.9%	0	0	0
7/1/2014 to 6/30/2015	990,329	990,329	0	13.4%	0	6	6
7/1/2015 to 6/30/2016	1,090,420	1,040,402	50,018	13.4%	6,708	13	(6,695)
7/1/2016 to 6/30/2017	1,264,190	1,264,190	0	13.2%	0	6	6
7/1/2017 to 6/30/2018	1,144,622	1,110,635	33,987	12.8%	4,360	1,114	(3,246)
7/1/2018 to 6/30/2019	1,150,000	1,060,578	89,422	12.4%	11,059	18,424	7,364
7/1/2019 to 6/30/2020	1,150,000	1,080,251	69,749	19.5%	13,613	4,237	(9,376)
7/1/2020 to 6/30/2021	1,390,000	1,205,663	184,337	24.8%	45,738	16,750	(28,987)
7/1/2021 to 6/30/2022	940,000	777,014	162,986	36.9%	60,178	35,490	(24,687)
7/1/2022 to 6/30/2023	1,270,000	378,172	891,828	64.8%	578,042	524,364	(53,678)
TOTALS	**20,970,481**	**19,449,368**	**1,521,113**		**725,786**	**601,046**	**(124,740)**

Notes:

(1) from previous Oliver Wyman study

(2) from previous Oliver Wyman study

(3) = (1) - (2)

(4) based on paid loss development factors from previous Oliver Wyman study

(5) = (3) x (4)

(6) from City of Chandler

(7) = (6) - (5)

City of Chandler

Workers' Compensation

Actual vs. Expected Incurred Losses & ALAE between 7/1/2023 and 6/30/2024 - Limited to $75,000

Based on Data as of June 30, 2024

Policy Period	(1) Ultimate @ 6/30/2023	(2) Incurred @ 6/30/2023	(3) IBNR @ 6/30/2023	(4) Expected Period Incurred %	(5) Expected Period Incurred	(6) Actual Period Incurred	(7) Difference
1/1/2003 to 6/30/2005	1,886,883	1,886,883	0	100.0%	0	0	0
7/1/2005 to 6/30/2006	649,576	649,576	0	100.0%	0	0	0
7/1/2006 to 6/30/2007	607,000	607,316	(316)	100.0%	(316)	0	316
7/1/2007 to 6/30/2008	763,087	763,087	0	100.0%	0	0	0
7/1/2008 to 6/30/2009	675,237	675,237	0	100.0%	0	0	0
7/1/2009 to 6/30/2010	1,309,000	1,304,928	4,072	100.0%	4,072	(19)	(4,090)
7/1/2010 to 6/30/2011	966,822	966,822	0	50.0%	0	0	0
7/1/2011 to 6/30/2012	1,160,847	1,160,847	0	33.3%	0	450	450
7/1/2012 to 6/30/2013	1,069,226	1,069,226	0	25.0%	0	0	0
7/1/2013 to 6/30/2014	1,493,243	1,493,243	0	20.0%	0	0	0
7/1/2014 to 6/30/2015	990,329	990,329	0	16.6%	0	6	6
7/1/2015 to 6/30/2016	1,090,420	1,090,420	0	14.2%	0	13	13
7/1/2016 to 6/30/2017	1,264,190	1,264,190	0	12.5%	0	6	6
7/1/2017 to 6/30/2018	1,144,622	1,144,622	0	27.1%	0	1,114	1,114
7/1/2018 to 6/30/2019	1,150,000	1,128,598	21,402	31.0%	6,644	37,767	31,123
7/1/2019 to 6/30/2020	1,150,000	1,123,047	26,953	23.6%	6,361	(5,490)	(11,851)
7/1/2020 to 6/30/2021	1,390,000	1,350,396	39,604	31.8%	12,613	(22,454)	(35,066)
7/1/2021 to 6/30/2022	940,000	810,586	129,414	36.0%	46,622	23,513	(23,109)
7/1/2022 to 6/30/2023	1,270,000	949,608	320,392	78.6%	251,874	140,305	(111,569)
TOTALS	**20,970,481**	**20,428,961**	**541,520**		**327,868**	**175,212**	**(152,656)**

Notes:

(1) from previous Oliver Wyman study
(2) from previous Oliver Wyman study
(3) = (1) - (2)
(4) based on incurred loss development factors from previous Oliver Wyman study
(5) = (3) x (4)
(6) from City of Chandler
(7) = (6) - (5)

City of Chandler
Workers' Compensation
Selected Loss Development Factors - Age to Ultimate
Based on Data as of June 30, 2024

	Paid Losses & ALAE									*Incurred Losses & ALAE*									*Reported Counts*
Age	**75,000**	**500,000**	**600,000**	**880,000**	**1,000,000**	**1,055,000**	**1,800,000**	**2,400,000**	**2,550,000**	**75,000**	**500,000**	**600,000**	**880,000**	**1,055,000**	**1,800,000**	**2,400,000**	**2,550,000**	**Age**	**Excl. CWOP**
12	***2.231***	2.415	2.420	2.435	2.441	2.443	2.464	2.470	2.470	***1.268***	1.329	1.331	1.337	1.340	1.346	1.348	1.348	**12**	1.079
24	***1.222***	1.280	1.282	1.287	1.289	1.289	1.293	1.294	1.294	***1.048***	1.075	1.076	1.079	1.080	1.082	1.083	1.083	**24**	1.004
36	***1.127***	1.261	1.262	1.268	1.270	1.270	1.275	1.277	1.277	***1.029***	1.059	1.060	1.063	1.064	1.067	1.068	1.068	**36**	1.001
48	***1.094***	1.257	1.259	1.265	1.267	1.268	1.273	1.274	1.275	***1.021***	1.055	1.057	1.060	1.062	1.065	1.067	1.067	**48**	1.000
60	***1.072***	1.157	1.160	1.168	1.171	1.172	1.176	1.178	1.178	***1.016***	1.050	1.051	1.054	1.056	1.060	1.061	1.061	**60**	1.000
72	***1.062***	1.145	1.148	1.157	1.161	1.161	1.167	1.169	1.169	***1.011***	1.037	1.038	1.041	1.043	1.046	1.046	1.047	**72**	1.000
84	***1.053***	1.137	1.141	1.150	1.155	1.155	1.161	1.163	1.163	***1.008***	1.030	1.031	1.034	1.035	1.038	1.039	1.039	**84**	1.000
96	***1.046***	1.129	1.132	1.142	1.147	1.147	1.153	1.155	1.155	***1.007***	1.030	1.031	1.034	1.035	1.038	1.039	1.039	**96**	1.000
108	***1.040***	1.122	1.125	1.135	1.140	1.140	1.146	1.148	1.148	***1.006***	1.029	1.030	1.033	1.035	1.038	1.039	1.039	**108**	1.000
120	***1.035***	1.116	1.119	1.130	1.134	1.135	1.141	1.143	1.143	***1.005***	1.027	1.028	1.031	1.033	1.036	1.037	1.037	**120**	1.000
132	***1.030***	1.112	1.115	1.126	1.130	1.131	1.137	1.139	1.139	***1.004***	1.024	1.025	1.028	1.029	1.032	1.033	1.033	**132**	1.000
144	***1.026***	1.105	1.109	1.119	1.123	1.124	1.130	1.132	1.133	***1.003***	1.019	1.020	1.023	1.024	1.027	1.028	1.028	**144**	1.000
156	***1.023***	1.101	1.105	1.115	1.120	1.120	1.127	1.129	1.129	***1.002***	1.014	1.014	1.016	1.017	1.019	1.020	1.020	**156**	1.000
168	***1.020***	1.096	1.100	1.110	1.115	1.115	1.122	1.124	1.124	***1.001***	1.007	1.007	1.009	1.009	1.010	1.011	1.011	**168**	1.000
180	***1.017***	1.090	1.093	1.104	1.108	1.108	1.115	1.117	1.117	***1.000***	1.000	1.000	1.000	1.000	1.000	1.000	1.000	**180**	1.000
192	***1.014***	1.082	1.085	1.095	1.099	1.099	1.106	1.108	1.108	***1.000***	1.000	1.000	1.000	1.000	1.000	1.000	1.000	**192**	1.000
204	***1.012***	1.078	1.081	1.091	1.095	1.096	1.102	1.104	1.104	***1.000***	1.000	1.000	1.000	1.000	1.000	1.000	1.000	**204**	1.000
216	***1.010***	1.073	1.076	1.086	1.090	1.090	1.096	1.098	1.099	***1.000***	1.000	1.000	1.000	1.000	1.000	1.000	1.000	**216**	1.000
228	***1.008***	1.067	1.070	1.079	1.083	1.083	1.089	1.091	1.091	***1.000***	1.000	1.000	1.000	1.000	1.000	1.000	1.000	**228**	1.000
240	***1.006***	1.059	1.062	1.070	1.074	1.074	1.079	1.081	1.081	***1.000***	1.000	1.000	1.000	1.000	1.000	1.000	1.000	**240**	1.000

Notes:

limited (bolded) paid LDFs based on Appendix A, Page 2
limited (bolded) incurred LDFs based on Appendix A, Page 3
other LDFs are adjusted using Oliver Wyman relativities
reported count factors based on Appendix A, Page 4

City of Chandler
Workers' Compensation
Paid Losses & ALAE - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	276,397	536,761	577,418	592,457	605,379	609,033	616,357	621,775	621,775	621,775	621,775	621,775	621,775	621,971	621,971	621,971	621,971	621,971	621,971	621,971
7/1/2005	200,706	505,966	552,607	594,741	603,672	614,644	622,212	629,386	640,201	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	
7/1/2006	209,267	464,091	531,181	552,186	552,895	584,800	585,106	578,421	581,840	581,848	582,063	582,071	582,176	587,789	587,801	588,244	588,424	588,424		
7/1/2007	351,283	616,773	702,322	645,614	595,827	595,827	597,997	636,245	658,716	673,524	679,204	686,940	691,745	695,966	750,292	763,087	763,087			
7/1/2008	321,961	608,696	622,878	618,457	611,609	627,188	643,015	643,023	644,726	645,027	674,485	674,560	675,237	675,237	675,237	675,237				
7/1/2009	807,943	1,268,270	1,274,279	1,258,475	1,269,316	1,268,437	1,268,781	1,299,694	1,301,130	1,299,762	1,300,357	1,299,626	1,299,526	1,299,823	1,299,965					
7/1/2010	667,115	932,878	953,600	956,407	966,774	966,782	966,782	966,822	966,822	966,822	966,822	966,822	966,822	966,822						
7/1/2011	656,562	1,042,286	1,107,176	1,140,809	1,152,179	1,153,721	1,157,939	1,158,827	1,159,929	1,160,847	1,160,847	1,160,847	1,161,297							
7/1/2012	308,364	737,253	852,237	861,204	899,282	997,688	1,037,066	1,069,226	1,069,226	1,069,226	1,069,226	1,069,226								
7/1/2013	515,792	1,169,619	1,422,414	1,433,603	1,478,801	1,479,343	1,479,586	1,482,601	1,493,243	1,493,243	1,493,243									
7/1/2014	557,797	927,794	988,164	988,803	990,329	990,329	990,329	990,329	990,329	990,336										
7/1/2015	418,716	903,262	998,672	999,797	1,034,850	1,040,344	1,040,350	1,040,402	1,040,415											
7/1/2016	496,863	992,965	1,205,210	1,264,190	1,264,190	1,264,190	1,264,190	1,264,196												
7/1/2017	603,228	1,112,325	1,098,076	1,098,692	1,108,047	1,110,635	1,111,749													
7/1/2018	517,966	832,096	947,621	994,592	1,060,578	1,079,002														
7/1/2019	513,953	927,549	970,464	1,080,251	1,084,488															
7/1/2020	589,321	1,148,306	1,205,663	1,222,414																
7/1/2021	593,767	777,014	812,505																	
7/1/2022	378,172	902,535																		
7/1/2023	351,339																			

Accident Period Beginning	12 to 24	24 to 36	36 to 48	48 to 60	60 to 72	72 to 84	84 to 96	96 to 108	108 to 120	120 to 132	132 to 144	144 to 156	156 to 168	168 to 180	180 to 192	192 to 204	204 to 216	216 to 228	228 to 240	240 to Ult
7/1/2004	1.942	1.076	1.026	1.022	1.006	1.012	1.009	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2005	2.521	1.092	1.076	1.015	1.018	1.012	1.012	1.017	1.015	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
7/1/2006	2.218	1.145	1.040	1.001	1.058	1.001	0.989	1.006	1.000	1.000	1.000	1.000	1.010	1.000	1.001	1.000	1.000			
7/1/2007	1.756	1.139	0.919	0.923	1.000	1.004	1.064	1.035	1.022	1.008	1.011	1.007	1.006	1.078	1.017	1.000				
7/1/2008	1.891	1.023	0.993	0.989	1.025	1.025	1.000	1.003	1.000	1.046	1.000	1.001	1.000	1.000	1.000					
7/1/2009	1.570	1.005	0.988	1.009	0.999	1.000	1.024	1.001	0.999	1.000	0.999	1.000	1.000	1.000						
7/1/2010	1.398	1.022	1.003	1.011	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
7/1/2011	1.587	1.062	1.030	1.010	1.001	1.004	1.001	1.001	1.001	1.000	1.000	1.000								
7/1/2012	2.391	1.156	1.011	1.044	1.109	1.039	1.031	1.000	1.000	1.000	1.000									
7/1/2013	2.268	1.216	1.008	1.032	1.000	1.000	1.002	1.007	1.000	1.000										
7/1/2014	1.663	1.065	1.001	1.002	1.000	1.000	1.000	1.000	1.000											
7/1/2015	2.157	1.106	1.001	1.035	1.005	1.000	1.000	1.000												
7/1/2016	1.998	1.214	1.049	1.000	1.000	1.000	1.000													
7/1/2017	1.844	0.987	1.001	1.009	1.002	1.001														
7/1/2018	1.606	1.139	1.050	1.066	1.017															
7/1/2019	1.805	1.046	1.113	1.004																
7/1/2020	1.949	1.050	1.014																	
7/1/2021	1.309	1.046																		
7/1/2022	2.387																			
Average	1.908	1.088	1.019	1.011	1.016	1.007	1.010	1.006	1.003	1.005	1.001	1.001	1.002	1.013	1.004	1.000	1.000	1.000	1.000	
Wtd Avg	1.826	1.085	1.018	1.013	1.013	1.006	1.009	1.005	1.002	1.004	1.001	1.001	1.002	1.012	1.004	1.000	1.000	1.000	1.000	
5 Yr Avg	1.811	1.054	1.045	1.023	1.005	1.000	1.007	1.002	1.000	1.000	1.000	1.002	1.003	1.016						
3 Yr Avg	1.881	1.047	1.059	1.026	1.007	1.000	1.000	1.002	1.000	1.000	1.000	1.000	1.000	1.026	1.006	1.000				
Prior	1.815	1.090	1.035	1.020	1.010	1.009	1.008	1.007	1.006	1.005	1.004	1.004	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.008
																				Tail
Industry	1.742	1.164	1.083	1.049	1.027	1.018	1.014	1.012	1.009	1.008	1.006	1.006	1.004	1.004	1.003	1.003	1.003	1.002	1.003	1.006
Selected	1.825	1.085	1.030	1.020	1.010	1.008	1.007	1.006	1.005	1.004	1.004	1.003	1.003	1.003	1.003	1.002	1.002	1.002	1.002	1.006
Ultimate	2.231	1.222	1.127	1.094	1.072	1.062	1.053	1.046	1.040	1.035	1.030	1.026	1.023	1.020	1.017	1.014	1.012	1.010	1.008	1.006
Pattern	44.8%	37.0%	7.0%	2.7%	1.8%	0.9%	0.8%	0.7%	0.6%	0.5%	0.4%	0.4%	0.3%	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.8%

Notes:

industry development factors based on data from the 2023 edition of NCCI Annual Statistical Bulletin

City of Chandler
Workers' Compensation
Incurred Losses & ALAE - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	433,092	596,068	636,433	655,098	654,707	654,721	654,029	655,980	621,775	621,775	621,775	621,775	621,775	621,971	621,971	621,971	621,971	621,971	621,971	621,971
7/1/2005	218,697	565,416	613,104	665,312	642,903	643,810	643,968	643,968	648,952	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	
7/1/2006	357,568	572,351	609,148	626,706	616,108	615,385	618,033	607,264	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316		
7/1/2007	591,135	736,617	771,326	696,254	661,761	655,981	699,833	718,703	744,997	732,151	728,026	737,820	737,820	811,227	811,227	763,087	763,087			
7/1/2008	606,357	695,601	654,669	643,402	642,616	665,025	665,025	665,025	665,025	665,343	674,485	674,560	675,237	675,237	675,237	675,237				
7/1/2009	1,209,165	1,384,432	1,317,306	1,278,754	1,278,229	1,275,301	1,280,550	1,306,043	1,306,081	1,305,964	1,306,294	1,305,417	1,305,287	1,304,928	1,304,910					
7/1/2010	846,987	997,056	971,294	962,028	966,774	968,032	966,782	966,822	966,822	966,822	966,822	966,822	966,822	966,822						
7/1/2011	1,113,010	1,158,045	1,151,669	1,164,497	1,158,747	1,163,992	1,163,992	1,163,992	1,164,307	1,164,313	1,164,313	1,160,847	1,161,297							
7/1/2012	549,779	982,837	971,678	888,485	986,927	1,038,675	1,042,245	1,069,226	1,069,226	1,069,226	1,069,226	1,069,226								
7/1/2013	1,110,080	1,536,783	1,478,594	1,480,078	1,491,735	1,486,217	1,479,586	1,483,450	1,496,818	1,493,243	1,493,243									
7/1/2014	1,041,527	1,020,543	1,008,810	997,553	990,329	990,329	990,329	990,329	990,329	990,336										
7/1/2015	718,305	1,067,238	1,056,357	1,060,018	1,090,362	1,090,362	1,090,368	1,090,420	1,090,433											
7/1/2016	919,829	1,249,791	1,257,422	1,264,190	1,264,190	1,264,190	1,264,190	1,264,196												
7/1/2017	1,202,169	1,232,355	1,149,200	1,148,254	1,156,518	1,144,622	1,145,736													
7/1/2018	812,003	1,079,028	1,080,187	1,078,690	1,128,598	1,166,364														
7/1/2019	859,380	1,040,193	1,083,624	1,123,047	1,117,556															
7/1/2020	1,334,418	1,374,718	1,350,396	1,327,943																
7/1/2021	1,002,644	810,586	834,099																	
7/1/2022	949,608	1,089,913																		
7/1/2023	1,078,355																			

Accident Period Beginning	12 to 24	24 to 36	36 to 48	48 to 60	60 to 72	72 to 84	84 to 96	96 to 108	108 to 120	120 to 132	132 to 144	144 to 156	156 to 168	168 to 180	180 to 192	192 to 204	204 to 216	216 to 228	228 to 240	240 to Ult
7/1/2004	1.376	1.068	1.029	0.999	1.000	0.999	1.003	0.948	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2005	2.585	1.084	1.085	0.966	1.001	1.000	1.000	1.008	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
7/1/2006	1.601	1.064	1.029	0.983	0.999	1.004	0.983	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
7/1/2007	1.246	1.047	0.903	0.950	0.991	1.067	1.027	1.037	0.983	0.994	1.013	1.000	1.099	1.000	0.941	1.000				
7/1/2008	1.147	0.941	0.983	0.999	1.035	1.000	1.000	1.000	1.000	1.014	1.000	1.001	1.000	1.000	1.000					
7/1/2009	1.145	0.952	0.971	1.000	0.998	1.004	1.020	1.000	1.000	1.000	0.999	1.000	1.000	1.000						
7/1/2010	1.177	0.974	0.990	1.005	1.001	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
7/1/2011	1.040	0.994	1.011	0.995	1.005	1.000	1.000	1.000	1.000	1.000	0.997	1.000								
7/1/2012	1.788	0.989	0.914	1.111	1.052	1.003	1.026	1.000	1.000	1.000	1.000									
7/1/2013	1.384	0.962	1.001	1.008	0.996	0.996	1.003	1.009	0.998	1.000										
7/1/2014	0.980	0.989	0.989	0.993	1.000	1.000	1.000	1.000	1.000											
7/1/2015	1.486	0.990	1.003	1.029	1.000	1.000	1.000	1.000												
7/1/2016	1.359	1.006	1.005	1.000	1.000	1.000	1.000													
7/1/2017	1.025	0.933	0.999	1.007	0.990	1.001														
7/1/2018	1.329	1.001	0.999	1.046	1.033															
7/1/2019	1.210	1.042	1.036	0.995																
7/1/2020	1.030	0.982	0.983																	
7/1/2021	0.808	1.029																		
7/1/2022	1.148																			
Average	1.309	1.003	0.996	1.005	1.007	1.005	1.005	1.000	0.998	1.001	1.001	1.000	1.014	1.000	0.988	1.000	1.000	1.000	1.000	
Wtd Avg	1.209	0.994	0.994	1.007	1.006	1.004	1.005	1.001	0.998	1.001	1.001	1.000	1.013	1.000	0.986	1.000	1.000	1.000	1.000	
5 Yr Avg	1.105	0.997	1.005	1.015	1.005	0.999	1.006	1.002	1.000	1.000	0.999	1.000	1.020	1.000						
3 Yr Avg	0.995	1.018	1.006	1.016	1.008	1.000	1.000	1.003	0.999	1.000	0.999	1.000	1.000	1.000	0.980	1.000				
Prior	1.225	1.018	1.010	1.005	1.005	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000
																				Tail
Industry	1.206	1.048	1.021	1.007	1.006	1.002	1.001	1.002	1.001	1.001	1.000	1.001	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000
Selected	1.210	1.018	1.008	1.005	1.005	1.003	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000	1.000	1.000
Ultimate	1.268	1.048	1.029	1.021	1.016	1.011	1.008	1.007	1.006	1.005	1.004	1.003	1.002	1.001	1.000	1.000	1.000	1.000	1.000	1.000
Pattern	78.9%	16.6%	1.7%	0.8%	0.5%	0.5%	0.3%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%

Notes:

industry development factors based on data from the 2023 edition of NCCI Annual Statistical Bulletin

City of Chandler
Workers' Compensation
Reported Claim Counts - Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	135	141	142	142	142	142	143	143	143	143	143	143	143	143	143	143	143	143	143	143
7/1/2005	120	147	147	147	147	147	155	147	147	147	147	147	147	147	147	147	147	147	147	
7/1/2006	104	135	135	135	135	139	135	135	135	135	135	135	135	135	135	135	135	135		
7/1/2007	154	159	160	160	167	160	160	160	161	161	161	161	161	161	161	161	161			
7/1/2008	164	165	166	177	165	165	165	165	165	164	165	165	165	165	165	165				
7/1/2009	140	144	147	144	144	144	144	143	142	142	142	142	142	142	142					
7/1/2010	148	161	153	153	153	154	153	153	153	153	153	153	153	153						
7/1/2011	167	161	161	161	161	161	161	161	161	161	161	161	161							
7/1/2012	128	133	134	135	135	135	135	135	135	135	135	135								
7/1/2013	146	154	154	154	154	154	154	154	154	154	154									
7/1/2014	138	140	142	143	143	143	143	143	143	143										
7/1/2015	137	153	153	153	153	153	153	153	153											
7/1/2016	125	131	132	133	133	133	133	133												
7/1/2017	145	150	150	149	149	149	149													
7/1/2018	145	159	158	158	158	158														
7/1/2019	126	147	148	148	148															
7/1/2020	128	134	135	135																
7/1/2021	115	118	118																	
7/1/2022	121	126																		
7/1/2023	140																			

Accident Period Beginning	12 to 24	24 to 36	36 to 48	48 to 60	60 to 72	72 to 84	84 to 96	96 to 108	108 to 120	120 to 132	132 to 144	144 to 156	156 to 168	168 to 180	180 to 192	192 to 204	204 to 216	216 to 228	228 to 240	240 to Ult
7/1/2004	1.044	1.007	1.000	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2005	1.225	1.000	1.000	1.000	1.000	1.054	0.948	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
7/1/2006	1.298	1.000	1.000	1.000	1.030	0.971	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
7/1/2007	1.032	1.006	1.000	1.044	0.958	1.000	1.000	1.006	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
7/1/2008	1.006	1.006	1.066	0.932	1.000	1.000	1.000	1.000	0.994	1.006	1.000	1.000	1.000	1.000	1.000					
7/1/2009	1.029	1.021	0.980	1.000	1.000	1.000	0.993	0.993	1.000	1.000	1.000	1.000	1.000	1.000						
7/1/2010	1.088	0.950	1.000	1.000	1.007	0.994	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
7/1/2011	0.964	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000								
7/1/2012	1.039	1.008	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
7/1/2013	1.055	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
7/1/2014	1.014	1.014	1.007	1.000	1.000	1.000	1.000	1.000	1.000											
7/1/2015	1.117	1.000	1.000	1.000	1.000	1.000	1.000	1.000												
7/1/2016	1.048	1.008	1.008	1.000	1.000	1.000	1.000													
7/1/2017	1.034	1.000	0.993	1.000	1.000	1.000														
7/1/2018	1.097	0.994	1.000	1.000	1.000															
7/1/2019	1.167	1.007	1.000	1.000																
7/1/2020	1.047	1.007	1.000																	
7/1/2021	1.026	1.000																		
7/1/2022	1.041																			
Average	1.072	1.002	1.004	0.998	1.000	1.002	0.995	1.000	0.999	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Wtd Avg	1.067	1.001	1.004	0.998	0.999	1.002	0.995	1.000	0.999	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
5 Yr Avg	1.076	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
3 Yr Avg	1.038	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
Prior	1.080	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
																				Tail
Selected	1.075	1.003	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Ultimate	1.079	1.004	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Pattern	92.7%	6.9%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

City of Chandler
Workers' Compensation
Paid Losses & ALAE / Ultimate Losses & ALAE - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	276,397	536,761	577,418	592,457	605,379	609,033	616,357	621,775	621,775	621,775	621,775	621,775	621,775	621,971	621,971	621,971	621,971	621,971	621,971	621,971
7/1/2005	200,706	505,966	552,607	594,741	603,672	614,644	622,212	629,386	640,201	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	
7/1/2006	209,267	464,091	531,181	552,186	552,895	584,800	585,106	578,421	581,840	581,848	582,063	582,071	582,176	587,789	587,801	588,244	588,424	588,424		
7/1/2007	351,283	616,773	702,322	645,614	595,827	595,827	597,997	636,245	658,716	673,524	679,204	686,940	691,745	695,966	750,292	763,087	763,087			
7/1/2008	321,961	608,696	622,878	618,457	611,609	627,188	643,015	643,023	644,726	645,027	674,485	674,560	675,237	675,237	675,237	675,237				
7/1/2009	807,943	1,268,270	1,274,279	1,258,475	1,269,316	1,268,437	1,268,781	1,299,694	1,301,130	1,299,762	1,300,357	1,299,626	1,299,526	1,299,823	1,299,965					
7/1/2010	667,115	932,878	953,600	956,407	966,774	966,782	966,782	966,822	966,822	966,822	966,822	966,822	966,822	966,822						
7/1/2011	656,562	1,042,286	1,107,176	1,140,809	1,152,179	1,153,721	1,157,939	1,158,827	1,159,929	1,160,847	1,160,847	1,160,847	1,161,297							
7/1/2012	308,364	737,253	852,237	861,204	899,282	997,688	1,037,066	1,069,226	1,069,226	1,069,226	1,069,226	1,069,226								
7/1/2013	515,792	1,169,619	1,422,414	1,433,603	1,478,801	1,479,343	1,479,586	1,482,601	1,493,243	1,493,243	1,493,243									
7/1/2014	557,797	927,794	988,164	988,803	990,329	990,329	990,329	990,329	990,329	990,336										
7/1/2015	418,716	903,262	998,672	999,797	1,034,850	1,040,344	1,040,350	1,040,402	1,040,415											
7/1/2016	496,863	992,965	1,205,210	1,264,190	1,264,190	1,264,190	1,264,190	1,264,196												
7/1/2017	603,228	1,112,325	1,098,076	1,098,692	1,108,047	1,110,635	1,111,749													
7/1/2018	517,966	832,096	947,621	994,592	1,060,578	1,079,002														
7/1/2019	513,953	927,549	970,464	1,080,251	1,084,488															
7/1/2020	589,321	1,148,306	1,205,663	1,222,414																
7/1/2021	593,767	777,014	812,505																	
7/1/2022	378,172	902,535																		
7/1/2023	351,339																			

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004																				
7/1/2005	0.309	0.779	0.851	0.916	0.929	0.946	0.958	0.969	0.986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2006	0.345	0.764	0.875	0.909	0.910	0.963	0.963	0.952	0.958	0.958	0.958	0.958	0.959	0.968	0.968	0.969	0.969	0.969		
7/1/2007	0.460	0.808	0.920	0.846	0.781	0.781	0.784	0.834	0.863	0.883	0.890	0.900	0.907	0.912	0.983	1.000	1.000			
7/1/2008	0.477	0.901	0.922	0.916	0.906	0.929	0.952	0.952	0.955	0.955	0.999	0.999	1.000	1.000	1.000	1.000				
7/1/2009	0.619	0.972	0.977	0.964	0.973	0.972	0.972	0.996	0.997	0.996	0.997	0.996	0.996	0.996	0.996					
7/1/2010	0.690	0.965	0.986	0.989	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
7/1/2011	0.565	0.898	0.953	0.982	0.992	0.993	0.997	0.998	0.999	1.000	1.000	1.000	1.000							
7/1/2012	0.288	0.690	0.797	0.805	0.841	0.933	0.970	1.000	1.000	1.000	1.000	1.000								
7/1/2013	0.345	0.783	0.953	0.960	0.990	0.991	0.991	0.993	1.000	1.000	1.000									
7/1/2014	0.563	0.937	0.998	0.998	1.000	1.000	1.000	1.000	1.000	1.000										
7/1/2015	0.384	0.828	0.916	0.917	0.949	0.954	0.954	0.954	0.954											
7/1/2016	0.393	0.785	0.953	1.000	1.000	1.000	1.000	1.000												
7/1/2017	0.526	0.971	0.958	0.959	0.967	0.969	0.970													
7/1/2018	0.439	0.705	0.803	0.843	0.899	0.914														
7/1/2019	0.451	0.814	0.851	0.948	0.951															
7/1/2020	0.433	0.844	0.887	0.899																
7/1/2021	0.667	0.873	0.913																	
7/1/2022	0.320	0.765																		
7/1/2023	0.255																			

City of Chandler
Workers' Compensation
Incurred Losses & ALAE / Ultimate Losses & ALAE - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	433,092	596,068	636,433	655,098	654,707	654,721	654,029	655,980	621,775	621,775	621,775	621,775	621,775	621,971	621,971	621,971	621,971	621,971	621,971	621,971
7/1/2005	218,697	565,416	613,104	665,312	642,903	643,810	643,968	643,968	648,952	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	
7/1/2006	357,568	572,351	609,148	626,706	616,108	615,385	618,033	607,264	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316		
7/1/2007	591,135	736,617	771,326	696,254	661,761	655,981	699,833	718,703	744,997	732,151	728,026	737,820	737,820	811,227	811,227	763,087	763,087			
7/1/2008	606,357	695,601	654,669	643,402	642,616	665,025	665,025	665,025	665,025	665,343	674,485	674,560	675,237	675,237	675,237	675,237				
7/1/2009	1,209,165	1,384,432	1,317,306	1,278,754	1,278,229	1,275,301	1,280,550	1,306,043	1,306,081	1,305,964	1,306,294	1,305,417	1,305,287	1,304,928	1,304,910					
7/1/2010	846,987	997,056	971,294	962,028	966,774	968,032	966,782	966,822	966,822	966,822	966,822	966,822	966,822	966,822						
7/1/2011	1,113,010	1,158,045	1,151,669	1,164,497	1,158,747	1,163,992	1,163,992	1,163,992	1,164,307	1,164,313	1,164,313	1,160,847	1,161,297							
7/1/2012	549,779	982,837	971,678	888,485	986,927	1,038,675	1,042,245	1,069,226	1,069,226	1,069,226	1,069,226	1,069,226								
7/1/2013	1,110,080	1,536,783	1,478,594	1,480,078	1,491,735	1,486,217	1,479,586	1,483,450	1,496,818	1,493,243	1,493,243									
7/1/2014	1,041,527	1,020,543	1,008,810	997,553	990,329	990,329	990,329	990,329	990,329	990,336										
7/1/2015	718,305	1,067,238	1,056,357	1,060,018	1,090,362	1,090,362	1,090,368	1,090,420	1,090,433											
7/1/2016	919,829	1,249,791	1,257,422	1,264,190	1,264,190	1,264,190	1,264,190	1,264,196												
7/1/2017	1,202,169	1,232,355	1,149,200	1,148,254	1,156,518	1,144,622	1,145,736													
7/1/2018	812,003	1,079,028	1,080,187	1,078,690	1,128,598	1,166,364														
7/1/2019	859,380	1,040,193	1,083,624	1,123,047	1,117,556															
7/1/2020	1,334,418	1,374,718	1,350,396	1,327,943																
7/1/2021	1,002,644	810,586	834,099																	
7/1/2022	949,608	1,089,913																		
7/1/2023	1,078,355																			

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004																				
7/1/2005	0.337	0.870	0.944	1.024	0.990	0.991	0.991	0.991	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2006	0.589	0.942	1.003	1.032	1.014	1.013	1.018	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
7/1/2007	0.775	0.965	1.011	0.912	0.867	0.860	0.917	0.942	0.976	0.959	0.954	0.967	0.967	1.063	1.063	1.000	1.000			
7/1/2008	0.898	1.030	0.970	0.953	0.952	0.985	0.985	0.985	0.985	0.985	0.999	0.999	1.000	1.000	1.000	1.000				
7/1/2009	0.927	1.061	1.009	0.980	0.980	0.977	0.981	1.001	1.001	1.001	1.001	1.000	1.000	1.000	1.000					
7/1/2010	0.876	1.031	1.005	0.995	1.000	1.001	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
7/1/2011	0.958	0.997	0.992	1.003	0.998	1.002	1.002	1.002	1.003	1.003	1.003	1.000	1.000							
7/1/2012	0.514	0.919	0.909	0.831	0.923	0.971	0.975	1.000	1.000	1.000	1.000	1.000								
7/1/2013	0.743	1.029	0.990	0.991	0.999	0.995	0.991	0.993	1.002	1.000	1.000									
7/1/2014	1.052	1.031	1.019	1.007	1.000	1.000	1.000	1.000	1.000	1.000										
7/1/2015	0.659	0.979	0.969	0.972	1.000	1.000	1.000	1.000	1.000											
7/1/2016	0.728	0.989	0.995	1.000	1.000	1.000	1.000	1.000												
7/1/2017	1.049	1.076	1.003	1.002	1.009	0.999	1.000													
7/1/2018	0.688	0.914	0.915	0.914	0.956	0.988														
7/1/2019	0.754	0.912	0.951	0.985	0.980															
7/1/2020	0.981	1.011	0.993	0.976																
7/1/2021	1.127	0.911	0.937																	
7/1/2022	0.805	0.924																		
7/1/2023	0.781																			

City of Chandler
Workers' Compensation
Rate of Paid Losses & ALAE to Exposure ($1,000 Payroll) - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	276,397	536,761	577,418	592,457	605,379	609,033	616,357	621,775	621,775	621,775	621,775	621,775	621,775	621,971	621,971	621,971	621,971	621,971	621,971	621,971
7/1/2005	200,706	505,966	552,607	594,741	603,672	614,644	622,212	629,386	640,201	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	
7/1/2006	209,267	464,091	531,181	552,186	552,895	584,800	585,106	578,421	581,840	581,848	582,063	582,071	582,176	587,789	587,801	588,244	588,424	588,424		
7/1/2007	351,283	616,773	702,322	645,614	595,827	595,827	597,997	636,245	658,716	673,524	679,204	686,940	691,745	695,966	750,292	763,087	763,087			
7/1/2008	321,961	608,696	622,878	618,457	611,609	627,188	643,015	643,023	644,726	645,027	674,485	674,560	675,237	675,237	675,237	675,237				
7/1/2009	807,943	1,268,270	1,274,279	1,258,475	1,269,316	1,268,437	1,268,781	1,299,694	1,301,130	1,299,762	1,300,357	1,299,626	1,299,526	1,299,823	1,299,965					
7/1/2010	667,115	932,878	953,600	956,407	966,774	966,782	966,782	966,822	966,822	966,822	966,822	966,822	966,822	966,822						
7/1/2011	656,562	1,042,286	1,107,176	1,140,809	1,152,179	1,153,721	1,157,939	1,158,827	1,159,929	1,160,847	1,160,847	1,160,847	1,161,297							
7/1/2012	308,364	737,253	852,237	861,204	899,282	997,688	1,037,066	1,069,226	1,069,226	1,069,226	1,069,226	1,069,226								
7/1/2013	515,792	1,169,619	1,422,414	1,433,603	1,478,801	1,479,343	1,479,586	1,482,601	1,493,243	1,493,243	1,493,243									
7/1/2014	557,797	927,794	988,164	988,803	990,329	990,329	990,329	990,329	990,329	990,336										
7/1/2015	418,716	903,262	998,672	999,797	1,034,850	1,040,344	1,040,350	1,040,402	1,040,415											
7/1/2016	496,863	992,965	1,205,210	1,264,190	1,264,190	1,264,190	1,264,190	1,264,196												
7/1/2017	603,228	1,112,325	1,098,076	1,098,692	1,108,047	1,110,635	1,111,749													
7/1/2018	517,966	832,096	947,621	994,592	1,060,578	1,079,002														
7/1/2019	513,953	927,549	970,464	1,080,251	1,084,488															
7/1/2020	589,321	1,148,306	1,205,663	1,222,414																
7/1/2021	593,767	777,014	812,505																	
7/1/2022	378,172	902,535																		
7/1/2023	351,339																			

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	3.34	6.49	6.98	7.17	7.32	7.37	7.45	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52
7/1/2005	2.23	5.61	6.13	6.59	6.69	6.81	6.90	6.98	7.10	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	
7/1/2006	2.03	4.51	5.16	5.37	5.37	5.68	5.69	5.62	5.66	5.66	5.66	5.66	5.66	5.71	5.71	5.72	5.72	5.72		
7/1/2007	3.14	5.52	6.29	5.78	5.33	5.33	5.35	5.70	5.90	6.03	6.08	6.15	6.19	6.23	6.72	6.83	6.83			
7/1/2008	2.67	5.04	5.16	5.13	5.07	5.20	5.33	5.33	5.34	5.35	5.59	5.59	5.60	5.60	5.60	5.60				
7/1/2009	6.74	10.59	10.64	10.50	10.60	10.59	10.59	10.85	10.86	10.85	10.85	10.85	10.85	10.85	10.85					
7/1/2010	5.86	8.19	8.38	8.40	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49						
7/1/2011	5.95	9.44	10.03	10.33	10.44	10.45	10.49	10.50	10.51	10.51	10.51	10.51	10.52							
7/1/2012	2.59	6.19	7.16	7.23	7.55	8.38	8.71	8.98	8.98	8.98	8.98	8.98								
7/1/2013	4.47	10.14	12.33	12.43	12.82	12.83	12.83	12.85	12.95	12.95	12.95									
7/1/2014	4.67	7.76	8.27	8.27	8.29	8.29	8.29	8.29	8.29	8.29										
7/1/2015	3.28	7.08	7.83	7.84	8.12	8.16	8.16	8.16	8.16											
7/1/2016	3.87	7.73	9.38	9.84	9.84	9.84	9.84	9.84												
7/1/2017	4.52	8.33	8.23	8.23	8.30	8.32	8.33													
7/1/2018	3.82	6.14	6.99	7.34	7.82	7.96														
7/1/2019	3.76	6.78	7.09	7.90	7.93															
7/1/2020	4.21	8.20	8.61	8.73																
7/1/2021	4.15	5.44	5.68																	
7/1/2022	2.36	5.64																		
7/1/2023	2.02																			

City of Chandler
Workers' Compensation
Rate of Incurred Losses & ALAE to Exposure ($1,000 Payroll) - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	433,092	596,068	636,433	655,098	654,707	654,721	654,029	655,980	621,775	621,775	621,775	621,775	621,775	621,971	621,971	621,971	621,971	621,971	621,971	621,971
7/1/2005	218,697	565,416	613,104	665,312	642,903	643,810	643,968	643,968	648,952	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	649,576	
7/1/2006	357,568	572,351	609,148	626,706	616,108	615,385	618,033	607,264	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316	607,316		
7/1/2007	591,135	736,617	771,326	696,254	661,761	655,981	699,833	718,703	744,997	732,151	728,026	737,820	737,820	811,227	811,227	763,087	763,087			
7/1/2008	606,357	695,601	654,669	643,402	642,616	665,025	665,025	665,025	665,025	665,343	674,485	674,560	675,237	675,237	675,237	675,237				
7/1/2009	1,209,165	1,384,432	1,317,306	1,278,754	1,278,229	1,275,301	1,280,550	1,306,043	1,306,081	1,305,964	1,306,294	1,305,417	1,305,287	1,304,928	1,304,910					
7/1/2010	846,987	997,056	971,294	962,028	966,774	968,032	966,782	966,822	966,822	966,822	966,822	966,822	966,822	966,822						
7/1/2011	1,113,010	1,158,045	1,151,669	1,164,497	1,158,747	1,163,992	1,163,992	1,163,992	1,164,307	1,164,313	1,164,313	1,160,847	1,161,297							
7/1/2012	549,779	982,837	971,678	888,485	986,927	1,038,675	1,042,245	1,069,226	1,069,226	1,069,226	1,069,226	1,069,226								
7/1/2013	1,110,080	1,536,783	1,478,594	1,480,078	1,491,735	1,486,217	1,479,586	1,483,450	1,496,818	1,493,243	1,493,243									
7/1/2014	1,041,527	1,020,543	1,008,810	997,553	990,329	990,329	990,329	990,329	990,329	990,336										
7/1/2015	718,305	1,067,238	1,056,357	1,060,018	1,090,362	1,090,362	1,090,368	1,090,420	1,090,433											
7/1/2016	919,829	1,249,791	1,257,422	1,264,190	1,264,190	1,264,190	1,264,190	1,264,196												
7/1/2017	1,202,169	1,232,355	1,149,200	1,148,254	1,156,518	1,144,622	1,145,736													
7/1/2018	812,003	1,079,028	1,080,187	1,078,690	1,128,598	1,166,364														
7/1/2019	859,380	1,040,193	1,083,624	1,123,047	1,117,556															
7/1/2020	1,334,418	1,374,718	1,350,396	1,327,943																
7/1/2021	1,002,644	810,586	834,099																	
7/1/2022	949,608	1,089,913																		
7/1/2023	1,078,355																			

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	5.24	7.21	7.70	7.92	7.92	7.92	7.91	7.93	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52	7.52
7/1/2005	2.42	6.27	6.80	7.38	7.13	7.14	7.14	7.14	7.19	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	
7/1/2006	3.48	5.56	5.92	6.09	5.99	5.98	6.01	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90		
7/1/2007	5.29	6.59	6.90	6.23	5.92	5.87	6.26	6.43	6.67	6.55	6.52	6.60	6.60	7.26	7.26	6.83	6.83			
7/1/2008	5.03	5.76	5.43	5.33	5.33	5.51	5.51	5.51	5.51	5.51	5.59	5.59	5.60	5.60	5.60	5.60				
7/1/2009	10.09	11.56	11.00	10.67	10.67	10.65	10.69	10.90	10.90	10.90	10.90	10.90	10.90	10.89	10.89					
7/1/2010	7.44	8.76	8.53	8.45	8.49	8.50	8.49	8.49	8.49	8.49	8.49	8.49	8.49	8.49						
7/1/2011	10.08	10.49	10.43	10.55	10.49	10.54	10.54	10.54	10.54	10.55	10.55	10.51	10.52							
7/1/2012	4.62	8.25	8.16	7.46	8.29	8.72	8.75	8.98	8.98	8.98	8.98	8.98								
7/1/2013	9.62	13.32	12.82	12.83	12.93	12.88	12.83	12.86	12.98	12.95	12.95									
7/1/2014	8.71	8.54	8.44	8.35	8.29	8.29	8.29	8.29	8.29	8.29										
7/1/2015	5.63	8.37	8.28	8.31	8.55	8.55	8.55	8.55	8.55											
7/1/2016	7.16	9.73	9.79	9.84	9.84	9.84	9.84	9.84												
7/1/2017	9.01	9.23	8.61	8.60	8.66	8.57	8.58													
7/1/2018	5.99	7.96	7.97	7.96	8.32	8.60														
7/1/2019	6.28	7.60	7.92	8.21	8.17															
7/1/2020	9.53	9.81	9.64	9.48																
7/1/2021	7.01	5.67	5.84																	
7/1/2022	5.94	6.81																		
7/1/2023	6.21																			

City of Chandler
Workers' Compensation
Closed Claim Counts / Ultimate Claim Counts - Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	76	138	139	139	140	140	141	141	143	143	143	143	143	143	143	143	143	143	143	143
7/1/2005	117	144	144	145	146	146	146	146	145	145	145	145	145	145	145	146	146	146	147	
7/1/2006	93	124	129	132	133	132	133	133	133	133	134	134	134	134	134	134	134	134		
7/1/2007	106	149	153	154	153	157	155	155	156	158	159	159	159	158	158	160	160			
7/1/2008	116	155	159	158	162	161	161	161	161	161	163	163	163	163	163	163				
7/1/2009	103	126	126	139	138	140	139	138	139	138	139	139	139	139	140					
7/1/2010	101	132	149	151	151	151	151	151	151	151	152	152	152	152						
7/1/2011	93	142	152	153	155	156	156	156	157	157	158	159	160							
7/1/2012	71	108	119	129	129	129	130	131	131	131	131	131								
7/1/2013	62	112	139	145	147	148	149	149	149	150	150									
7/1/2014	62	122	132	140	141	141	141	141	141	141										
7/1/2015	63	139	148	147	148	149	149	149	150											
7/1/2016	56	108	123	126	128	131	131	131												
7/1/2017	95	129	141	144	145	146	146													
7/1/2018	94	137	144	151	152	152														
7/1/2019	79	124	136	140	143															
7/1/2020	73	116	126	128																
7/1/2021	84	112	115																	
7/1/2022	72	114																		
7/1/2023	82																			

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004																				
7/1/2005	0.796	0.980	0.980	0.986	0.993	0.993	0.993	0.993	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.993	0.993	0.993	1.000	
7/1/2006	0.689	0.919	0.956	0.978	0.985	0.978	0.985	0.985	0.985	0.985	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993		
7/1/2007	0.658	0.925	0.950	0.957	0.950	0.975	0.963	0.963	0.969	0.981	0.988	0.988	0.988	0.981	0.981	0.994	0.994			
7/1/2008	0.703	0.939	0.964	0.958	0.982	0.976	0.976	0.976	0.976	0.976	0.988	0.988	0.988	0.988	0.988	0.988				
7/1/2009	0.725	0.887	0.887	0.979	0.972	0.986	0.979	0.972	0.979	0.972	0.979	0.979	0.979	0.979	0.986					
7/1/2010	0.660	0.863	0.974	0.987	0.987	0.987	0.987	0.987	0.987	0.987	0.993	0.993	0.993	0.993						
7/1/2011	0.578	0.882	0.944	0.950	0.963	0.969	0.969	0.969	0.975	0.975	0.981	0.988	0.994							
7/1/2012	0.526	0.800	0.881	0.956	0.956	0.956	0.963	0.970	0.970	0.970	0.970	0.970								
7/1/2013	0.403	0.727	0.903	0.942	0.955	0.961	0.968	0.968	0.968	0.974	0.974									
7/1/2014	0.434	0.853	0.923	0.979	0.986	0.986	0.986	0.986	0.986	0.986										
7/1/2015	0.412	0.908	0.967	0.961	0.967	0.974	0.974	0.974	0.980											
7/1/2016	0.421	0.812	0.925	0.947	0.962	0.985	0.985	0.985												
7/1/2017	0.638	0.866	0.946	0.966	0.973	0.980	0.980													
7/1/2018	0.595	0.867	0.911	0.956	0.962	0.962														
7/1/2019	0.534	0.838	0.919	0.946	0.966															
7/1/2020	0.541	0.859	0.933	0.948																
7/1/2021	0.712	0.949	0.975																	
7/1/2022	0.567	0.898																		
7/1/2023	0.543																			

City of Chandler
Workers' Compensation
Reported Claim Counts / Ultimate Claim Counts - Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	135	141	142	142	142	142	143	143	143	143	143	143	143	143	143	143	143	143	143	143
7/1/2005	120	147	147	147	147	147	155	147	147	147	147	147	147	147	147	147	147	147	147	
7/1/2006	104	135	135	135	135	139	135	135	135	135	135	135	135	135	135	135	135	135		
7/1/2007	154	159	160	160	167	160	160	160	161	161	161	161	161	161	161	161	161			
7/1/2008	164	165	166	177	165	165	165	165	165	164	165	165	165	165	165	165				
7/1/2009	140	144	147	144	144	144	144	143	142	142	142	142	142	142	142					
7/1/2010	148	161	153	153	153	154	153	153	153	153	153	153	153	153						
7/1/2011	167	161	161	161	161	161	161	161	161	161	161	161	161							
7/1/2012	128	133	134	135	135	135	135	135	135	135	135	135								
7/1/2013	146	154	154	154	154	154	154	154	154	154	154									
7/1/2014	138	140	142	143	143	143	143	143	143	143										
7/1/2015	137	153	153	153	153	153	153	153	153											
7/1/2016	125	131	132	133	133	133	133	133												
7/1/2017	145	150	150	149	149	149	149													
7/1/2018	145	159	158	158	158	158														
7/1/2019	126	147	148	148	148															
7/1/2020	128	134	135	135																
7/1/2021	115	118	118																	
7/1/2022	121	126																		
7/1/2023	140																			

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004																				
7/1/2005	0.816	1.000	1.000	1.000	1.000	1.000	1.054	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2006	0.770	1.000	1.000	1.000	1.000	1.030	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
7/1/2007	0.957	0.988	0.994	0.994	1.037	0.994	0.994	0.994	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
7/1/2008	0.994	1.000	1.006	1.073	1.000	1.000	1.000	1.000	1.000	0.994	1.000	1.000	1.000	1.000	1.000	1.000				
7/1/2009	0.986	1.014	1.035	1.014	1.014	1.014	1.014	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
7/1/2010	0.967	1.052	1.000	1.000	1.000	1.007	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
7/1/2011	1.037	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
7/1/2012	0.948	0.985	0.993	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000								
7/1/2013	0.948	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
7/1/2014	0.965	0.979	0.993	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
7/1/2015	0.895	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000											
7/1/2016	0.940	0.985	0.992	1.000	1.000	1.000	1.000	1.000												
7/1/2017	0.973	1.007	1.007	1.000	1.000	1.000	1.000													
7/1/2018	0.918	1.006	1.000	1.000	1.000	1.000														
7/1/2019	0.851	0.993	1.000	1.000	1.000															
7/1/2020	0.948	0.993	1.000	1.000																
7/1/2021	0.975	1.000	1.000																	
7/1/2022	0.953	0.992																		
7/1/2023	0.927																			

City of Chandler
Workers' Compensation
Rate of Reported Count Frequency to Exposure (Payroll (per $1M)) - Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	135	141	142	142	142	142	143	143	143	143	143	143	143	143	143	143	143	143	143	143
7/1/2005	120	147	147	147	147	147	155	147	147	147	147	147	147	147	147	147	147	147	147	
7/1/2006	104	135	135	135	135	139	135	135	135	135	135	135	135	135	135	135	135	135		
7/1/2007	154	159	160	160	167	160	160	160	161	161	161	161	161	161	161	161	161			
7/1/2008	164	165	166	177	165	165	165	165	165	164	165	165	165	165	165	165				
7/1/2009	140	144	147	144	144	144	144	143	142	142	142	142	142	142	142					
7/1/2010	148	161	153	153	153	154	153	153	153	153	153	153	153	153						
7/1/2011	167	161	161	161	161	161	161	161	161	161	161	161	161							
7/1/2012	128	133	134	135	135	135	135	135	135	135	135	135								
7/1/2013	146	154	154	154	154	154	154	154	154	154	154									
7/1/2014	138	140	142	143	143	143	143	143	143	143										
7/1/2015	137	153	153	153	153	153	153	153	153											
7/1/2016	125	131	132	133	133	133	133	133												
7/1/2017	145	150	150	149	149	149	149													
7/1/2018	145	159	158	158	158	158														
7/1/2019	126	147	148	148	148															
7/1/2020	128	134	135	135																
7/1/2021	115	118	118																	
7/1/2022	121	126																		
7/1/2023	140																			

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	1.633	1.705	1.717	1.717	1.717	1.717	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729	1.729
7/1/2005	1.330	1.630	1.630	1.630	1.630	1.630	1.718	1.630	1.630	1.630	1.630	1.630	1.630	1.630	1.630	1.630	1.630	1.630	1.630	
7/1/2006	1.011	1.312	1.312	1.312	1.312	1.351	1.312	1.312	1.312	1.312	1.312	1.312	1.312	1.312	1.312	1.312	1.312	1.312		
7/1/2007	1.379	1.423	1.432	1.432	1.495	1.432	1.432	1.432	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441	1.441			
7/1/2008	1.359	1.367	1.376	1.467	1.367	1.367	1.367	1.367	1.367	1.359	1.367	1.367	1.367	1.367	1.367	1.367				
7/1/2009	1.169	1.202	1.227	1.202	1.202	1.202	1.202	1.194	1.185	1.185	1.185	1.185	1.185	1.185	1.185					
7/1/2010	1.300	1.414	1.344	1.344	1.344	1.353	1.344	1.344	1.344	1.344	1.344	1.344	1.344	1.344						
7/1/2011	1.512	1.458	1.458	1.458	1.458	1.458	1.458	1.458	1.458	1.458	1.458	1.458	1.458							
7/1/2012	1.075	1.117	1.125	1.134	1.134	1.134	1.134	1.134	1.134	1.134	1.134	1.134								
7/1/2013	1.266	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335	1.335									
7/1/2014	1.155	1.171	1.188	1.196	1.196	1.196	1.196	1.196	1.196	1.196										
7/1/2015	1.074	1.200	1.200	1.200	1.200	1.200	1.200	1.200	1.200											
7/1/2016	0.973	1.020	1.028	1.035	1.035	1.035	1.035	1.035												
7/1/2017	1.086	1.124	1.124	1.116	1.116	1.116	1.116													
7/1/2018	1.070	1.173	1.165	1.165	1.165	1.165														
7/1/2019	0.921	1.075	1.082	1.082	1.082															
7/1/2020	0.914	0.957	0.964	0.964																
7/1/2021	0.805	0.826	0.826																	
7/1/2022	0.756	0.788																		
7/1/2023	0.806																			

City of Chandler
Workers' Compensation
Paid Losses & ALAE / Incurred Losses & ALAE - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	0.638	0.901	0.907	0.904	0.925	0.930	0.942	0.948	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7/1/2005	0.918	0.895	0.901	0.894	0.939	0.955	0.966	0.977	0.987	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
7/1/2006	0.585	0.811	0.872	0.881	0.897	0.950	0.947	0.953	0.958	0.958	0.958	0.958	0.959	0.968	0.968	0.969	0.969	0.969		
7/1/2007	0.594	0.837	0.911	0.927	0.900	0.908	0.854	0.885	0.884	0.920	0.933	0.931	0.938	0.858	0.925	1.000	1.000			
7/1/2008	0.531	0.875	0.951	0.961	0.952	0.943	0.967	0.967	0.969	0.969	1.000	1.000	1.000	1.000	1.000	1.000				
7/1/2009	0.668	0.916	0.967	0.984	0.993	0.995	0.991	0.995	0.996	0.995	0.995	0.996	0.996	0.996	0.996					
7/1/2010	0.788	0.936	0.982	0.994	1.000	0.999	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
7/1/2011	0.590	0.900	0.961	0.980	0.994	0.991	0.995	0.996	0.996	0.997	0.997	1.000	1.000							
7/1/2012	0.561	0.750	0.877	0.969	0.911	0.961	0.995	1.000	1.000	1.000	1.000	1.000								
7/1/2013	0.465	0.761	0.962	0.969	0.991	0.995	1.000	0.999	0.998	1.000	1.000									
7/1/2014	0.536	0.909	0.980	0.991	1.000	1.000	1.000	1.000	1.000	1.000										
7/1/2015	0.583	0.846	0.945	0.943	0.949	0.954	0.954	0.954	0.954											
7/1/2016	0.540	0.795	0.958	1.000	1.000	1.000	1.000	1.000												
7/1/2017	0.502	0.903	0.956	0.957	0.958	0.970	0.970													
7/1/2018	0.638	0.771	0.877	0.922	0.940	0.925														
7/1/2019	0.598	0.892	0.896	0.962	0.970															
7/1/2020	0.442	0.835	0.893	0.921																
7/1/2021	0.592	0.959	0.974																	
7/1/2022	0.398	0.828																		
7/1/2023	0.326																			

City of Chandler
Workers' Compensation
Closed Claim Counts / Reported Claim Counts - Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	0.563	0.979	0.979	0.979	0.986	0.986	0.986	0.986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
7/1/2005	0.975	0.980	0.980	0.986	0.993	0.993	0.942	0.993	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.993	0.993	0.993	1.000	
7/1/2006	0.894	0.919	0.956	0.978	0.985	0.950	0.985	0.985	0.985	0.985	0.993	0.993	0.993	0.993	0.993	0.993	0.993	0.993		
7/1/2007	0.688	0.937	0.956	0.963	0.916	0.981	0.969	0.969	0.969	0.981	0.988	0.988	0.988	0.981	0.981	0.994	0.994			
7/1/2008	0.707	0.939	0.958	0.893	0.982	0.976	0.976	0.976	0.976	0.982	0.988	0.988	0.988	0.988	0.988	0.988				
7/1/2009	0.736	0.875	0.857	0.965	0.958	0.972	0.965	0.965	0.979	0.972	0.979	0.979	0.979	0.979	0.986					
7/1/2010	0.682	0.820	0.974	0.987	0.987	0.981	0.987	0.987	0.987	0.987	0.993	0.993	0.993	0.993						
7/1/2011	0.557	0.882	0.944	0.950	0.963	0.969	0.969	0.969	0.975	0.975	0.981	0.988	0.994							
7/1/2012	0.555	0.812	0.888	0.956	0.956	0.956	0.963	0.970	0.970	0.970	0.970	0.970								
7/1/2013	0.425	0.727	0.903	0.942	0.955	0.961	0.968	0.968	0.968	0.974	0.974									
7/1/2014	0.449	0.871	0.930	0.979	0.986	0.986	0.986	0.986	0.986	0.986										
7/1/2015	0.460	0.908	0.967	0.961	0.967	0.974	0.974	0.974	0.980											
7/1/2016	0.448	0.824	0.932	0.947	0.962	0.985	0.985	0.985												
7/1/2017	0.655	0.860	0.940	0.966	0.973	0.980	0.980													
7/1/2018	0.648	0.862	0.911	0.956	0.962	0.962														
7/1/2019	0.627	0.844	0.919	0.946	0.966															
7/1/2020	0.570	0.866	0.933	0.948																
7/1/2021	0.730	0.949	0.975																	
7/1/2022	0.595	0.905																		
7/1/2023	0.586																			

City of Chandler
Workers' Compensation
Average Paid Losses & ALAE - Limited to $75,000 & Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	3,637	3,890	4,154	4,262	4,324	4,350	4,371	4,410	4,348	4,348	4,348	4,348	4,348	4,349	4,349	4,349	4,349	4,349	4,349	4,349
7/1/2005	1,715	3,514	3,838	4,102	4,135	4,210	4,262	4,311	4,415	4,480	4,480	4,480	4,480	4,480	4,480	4,449	4,449	4,449	4,419	
7/1/2006	2,250	3,743	4,118	4,183	4,157	4,430	4,399	4,349	4,375	4,375	4,344	4,344	4,345	4,386	4,387	4,390	4,391	4,391		
7/1/2007	3,314	4,139	4,590	4,192	3,894	3,795	3,858	4,105	4,223	4,263	4,272	4,320	4,351	4,405	4,749	4,769	4,769			
7/1/2008	2,776	3,927	3,917	3,914	3,775	3,896	3,994	3,994	4,005	4,006	4,138	4,138	4,143	4,143	4,143	4,143				
7/1/2009	7,844	10,066	10,113	9,054	9,198	9,060	9,128	9,418	9,361	9,419	9,355	9,350	9,349	9,351	9,285					
7/1/2010	6,605	7,067	6,400	6,334	6,402	6,403	6,403	6,403	6,403	6,403	6,361	6,361	6,361	6,361						
7/1/2011	7,060	7,340	7,284	7,456	7,433	7,396	7,423	7,428	7,388	7,394	7,347	7,301	7,258							
7/1/2012	4,343	6,826	7,162	6,676	6,971	7,734	7,977	8,162	8,162	8,162	8,162	8,162								
7/1/2013	8,319	10,443	10,233	9,887	10,060	9,996	9,930	9,950	10,022	9,955	9,955									
7/1/2014	8,997	7,605	7,486	7,063	7,024	7,024	7,024	7,024	7,024	7,024										
7/1/2015	6,646	6,498	6,748	6,801	6,992	6,982	6,982	6,983	6,936											
7/1/2016	8,873	9,194	9,798	10,033	9,876	9,650	9,650	9,650												
7/1/2017	6,350	8,623	7,788	7,630	7,642	7,607	7,615													
7/1/2018	5,510	6,074	6,581	6,587	6,977	7,099														
7/1/2019	6,506	7,480	7,136	7,716	7,584															
7/1/2020	8,073	9,899	9,569	9,550																
7/1/2021	7,069	6,938	7,065																	
7/1/2022	5,252	7,917																		
7/1/2023	4,285																			

City of Chandler
Workers' Compensation
Average Incurred Losses & ALAE - Limited to $75,000 & Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	3,208	4,227	4,482	4,613	4,611	4,611	4,574	4,587	4,348	4,348	4,348	4,348	4,348	4,349	4,349	4,349	4,349	4,349	4,349	4,349
7/1/2005	1,822	3,846	4,171	4,526	4,373	4,380	4,155	4,381	4,415	4,419	4,419	4,419	4,419	4,419	4,419	4,419	4,419	4,419	4,419	
7/1/2006	3,438	4,240	4,512	4,642	4,564	4,427	4,578	4,498	4,499	4,499	4,499	4,499	4,499	4,499	4,499	4,499	4,499	4,499		
7/1/2007	3,839	4,633	4,821	4,352	3,963	4,100	4,374	4,492	4,627	4,548	4,522	4,583	4,583	5,039	5,039	4,740	4,740			
7/1/2008	3,697	4,216	3,944	3,635	3,895	4,030	4,030	4,030	4,030	4,057	4,088	4,088	4,092	4,092	4,092	4,092				
7/1/2009	8,637	9,614	8,961	8,880	8,877	8,856	8,893	9,133	9,198	9,197	9,199	9,193	9,192	9,190	9,190					
7/1/2010	5,723	6,193	6,348	6,288	6,319	6,286	6,319	6,319	6,319	6,319	6,319	6,319	6,319	6,319						
7/1/2011	6,665	7,193	7,153	7,233	7,197	7,230	7,230	7,230	7,232	7,232	7,232	7,210	7,213							
7/1/2012	4,295	7,390	7,251	6,581	7,311	7,694	7,720	7,920	7,920	7,920	7,920	7,920								
7/1/2013	7,603	9,979	9,601	9,611	9,687	9,651	9,608	9,633	9,720	9,696	9,696									
7/1/2014	7,547	7,290	7,104	6,976	6,925	6,925	6,925	6,925	6,925	6,925										
7/1/2015	5,243	6,975	6,904	6,928	7,127	7,127	7,127	7,127	7,127											
7/1/2016	7,359	9,540	9,526	9,505	9,505	9,505	9,505	9,505												
7/1/2017	8,291	8,216	7,661	7,706	7,762	7,682	7,690													
7/1/2018	5,600	6,786	6,837	6,827	7,143	7,382														
7/1/2019	6,820	7,076	7,322	7,588	7,551															
7/1/2020	10,425	10,259	10,003	9,837																
7/1/2021	8,719	6,869	7,069																	
7/1/2022	7,848	8,650																		
7/1/2023	7,703																			

City of Chandler
Workers' Compensation
Average Open - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004	2,656	19,769	19,672	20,880	24,664	22,844	18,836	17,103												
7/1/2005	5,997	19,817	20,166	35,285	39,231	29,166	2,417	14,581	4,376	0	0	0	0	0	0	0	0	0		
7/1/2006	13,482	9,842	12,994	24,840	31,607	4,369	16,464	14,422	12,738	12,734	25,254	25,246	25,140	19,527	19,515	19,072	18,893	18,893		
7/1/2007	4,997	11,984	9,858	8,440	4,710	20,051	20,367	16,492	17,256	19,542	24,411	25,440	23,037	38,420	20,312	0	0			
7/1/2008	5,925	8,691	4,542	1,313	10,336	9,459	5,502	5,500	5,075	6,772	0	0	0	0	0	0				
7/1/2009	10,844	6,453	2,049	4,056	1,486	1,716	2,354	1,270	1,650	1,551	1,979	1,931	1,921	1,702	2,473					
7/1/2010	3,827	2,213	4,424	2,811	0	417	0	0	0	0	0	0	0	0						
7/1/2011	6,168	6,093	4,944	2,961	1,095	2,054	1,211	1,033	1,094	867	1,155	0	0							
7/1/2012	4,235	9,823	7,963	4,547	14,607	6,831	1,036	0	0	0	0	0								
7/1/2013	7,075	8,742	3,745	5,164	1,848	1,146	0	170	715	0	0									
7/1/2014	6,365	5,153	2,065	2,917	0	0	0	0	0	0										
7/1/2015	4,049	11,713	11,537	10,037	11,102	12,504	12,504	12,504	16,673											
7/1/2016	6,130	11,166	5,801	0	0	0	0	0												
7/1/2017	11,979	5,716	5,680	9,912	12,118	11,329	11,329													
7/1/2018	5,765	11,224	9,469	12,014	11,337	14,560														
7/1/2019	7,350	4,898	9,430	5,349	6,614															
7/1/2020	13,547	12,578	16,081	15,076																
7/1/2021	13,190	5,595	7,198																	
7/1/2022	11,662	15,615																		
7/1/2023	12,535																			

City of Chandler
Workers' Compensation
Average Unpaid Losses & ALAE - Limited to $75,000 & Excluding Closed Without Payments
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004																				
7/1/2005	14,962	47,870	32,323	27,417	45,904	34,932	27,363	20,189	4,687	(0)	(0)	(0)	(0)	0	0	0	0	0		
7/1/2006	9,477	13,020	12,689	18,377	27,211	7,505	11,105	14,448	12,738	12,734	25,254	25,246	25,140	19,527	19,515	19,072	18,893	18,893		
7/1/2007	7,487	12,193	7,596	16,782	20,907	41,815	27,515	21,140	20,874	29,854	41,941	38,074	35,671	22,374	4,265	0	0			
7/1/2008	7,210	6,654	8,726	8,111	21,209	12,012	8,055	8,053	7,628	7,552	376	338	0	0	0	0				
7/1/2009	12,743	2,290	1,914	15,478	8,898	18,237	12,043	1,304	1,260	1,287	1,517	1,761	1,795	1,696	2,473					
7/1/2010	5,764	1,616	3,306	5,207	24	20	20	(0)	0	0	0	0	0	0						
7/1/2011	7,423	6,264	6,013	2,561	1,520	1,515	672	494	342	112	150	225	0							
7/1/2012	11,888	12,295	13,562	34,670	28,324	11,923	6,432	0	0	0	0	0								
7/1/2013	10,624	7,705	4,722	6,627	2,063	2,317	2,731	2,128	0	0	0									
7/1/2014	5,340	2,978	197	511	3	3	3	3	3	0										
7/1/2015	7,464	13,369	18,352	15,106	11,116	12,522	12,521	12,508	16,673											
7/1/2016	9,965	10,849	5,899	1	1	3	3	0												
7/1/2017	10,046	1,671	5,958	9,409	9,422	11,700	11,329													
7/1/2018	10,344	16,567	16,598	26,487	19,904	16,833														
7/1/2019	9,073	8,852	14,128	7,469	11,102															
7/1/2020	12,430	11,142	17,149	19,655																
7/1/2021	8,713	18,831	25,832																	
7/1/2022	14,579	21,343																		
7/1/2023	14,908																			

City of Chandler
Workers' Compensation
IBNR / Case Reserve - Limited to $75,000
Based on Data as of June 30, 2024

Accident Period Beginning	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240
7/1/2004																				
7/1/2005	23.95	1.42	0.60	(0.22)	0.17	0.20	0.26	0.38	0.07											
7/1/2006	1.68	0.32	(0.02)	(0.26)	(0.14)	(0.26)	(0.33)	0.00	(0.00)	(0.00)	(0.00)	(0.00)	0.00	0.00	0.00	0.00	0.00	0.00		
7/1/2007	0.72	0.22	(0.12)	1.32	1.54	1.78	0.62	0.54	0.21	0.53	0.72	0.50	0.55	(0.42)	(0.79)					
7/1/2008	0.24	(0.23)	0.65	1.28	1.05	0.27	0.46	0.46	0.50	0.49										
7/1/2009	0.24	(0.68)	(0.29)	1.29	2.99	4.31	2.07	(0.18)	(0.24)	(0.17)	(0.23)	(0.09)	(0.07)	(0.00)	0.00					
7/1/2010	0.67	(0.47)	(0.25)	0.85		(0.97)														
7/1/2011	0.11	0.03	0.22	(0.14)	0.39	(0.26)	(0.45)	(0.52)	(0.69)	(0.87)	(0.87)									
7/1/2012	2.15	0.35	0.82	6.63	0.94	0.75	5.21													
7/1/2013	0.64	(0.12)	0.26	0.28	0.12	1.02		11.53	(1.00)											
7/1/2014	(0.11)	(0.33)	(0.89)	(0.82)																
7/1/2015	1.24	0.14	0.59	0.51	0.00	0.00	0.00	0.00	0.00											
7/1/2016	0.81	0.06	0.13																	
7/1/2017	(0.09)	(0.72)	(0.07)	(0.05)	(0.22)	0.03	0.00													
7/1/2018	1.25	0.41	0.75	1.20	0.76	0.16														
7/1/2019	0.81	0.89	0.50	0.40	0.68															
7/1/2020	0.03	(0.07)	0.07	0.30																
7/1/2021	(0.28)	2.37	2.59																	
7/1/2022	0.40	0.48																		
7/1/2023	0.41																			

City of Chandler

Workers' Compensation

Increased Limit Factors - Losses & ALAE

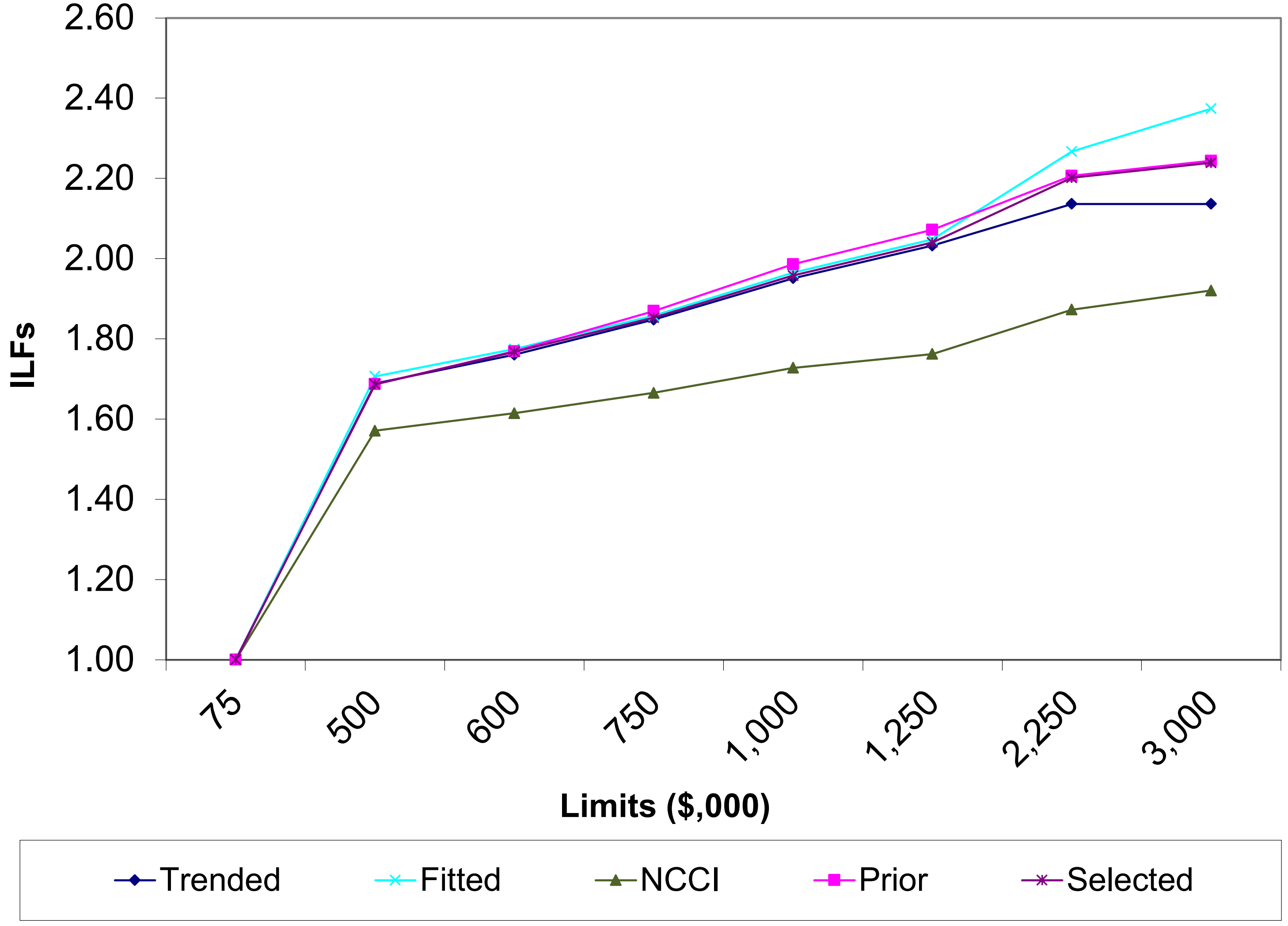
Based on Data as of June 30, 2024

	(1)	(2)	(3)	(4)	(5)
Limit	Trended Incurred Losses	Fitted	NCCI	Prior	Selected
75,000	1.000	1.000	1.000	1.000	**1.000**
500,000	1.689	1.707	1.571	1.687	**1.687**
600,000	1.761	1.774	1.615	1.769	**1.767**
750,000	1.848	1.858	1.665	1.869	**1.853**
1,000,000	1.951	1.965	1.727	1.986	**1.958**
1,250,000	2.033	2.048	1.762	2.072	**2.040**
2,250,000	2.136	2.267	1.873	2.207	**2.202**
3,000,000	2.136	2.374	1.920	2.244	**2.239**

Notes:

(1) assumed 2.5% annual severity trend
(2) fitted using a logarithmic distribution
(3) NCCI = National Council on Compensation Insurance
(4) from previous Oliver Wyman study
(5) selected

City of Chandler
Workers' Compensation
Increased Limit Factors - Losses & ALAE
Based on Data as of June 30, 2024



City of Chandler
Workers' Compensation
Data Summary
Based on Data as of June 30, 2024

		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
		Exposures	**Paid Losses & ALAE**				**Incurred Losses & ALAE**				**Claim Counts**		
Policy Period	**Self-Insured Retention (SIR) ***	**($1,000 Payroll)**	**Limited Paid to 75,000**	**Paid from Limit to SIR**	**Paid Excess of SIR**	**Unlimited Paid**	**Limited Incurred to 75,000**	**Incurred from Limit to SIR**	**Incurred Excess of SIR**	**Unlimited Incurred**	**Reported (ex. CWOP)**	**Closed With Payment**	**Closed Without Payment**
1/1/2003 to 6/30/2005	500,000	206,142	1,875,899	666,554	116,529	2,658,982	1,886,883	684,047	283,030	2,853,960	355	352	28
7/1/2005 to 6/30/2006	500,000	90,201	649,576	333,909	0	983,484	649,576	333,909	0	983,484	147	147	12
7/1/2006 to 6/30/2007	500,000	102,877	588,424	11,852	0	600,275	607,316	11,852	0	619,168	135	134	7
7/1/2007 to 6/30/2008	500,000	111,710	763,087	50,193	0	813,279	763,087	237,929	0	1,001,015	161	160	6
7/1/2008 to 6/30/2009	500,000	120,668	675,237	497,628	0	1,172,864	675,237	622,433	0	1,297,670	165	163	14
7/1/2009 to 6/30/2010	500,000	119,800	1,299,965	202,904	0	1,502,869	1,304,910	345,048	0	1,649,958	142	140	4
7/1/2010 to 6/30/2011	500,000	113,843	966,822	489,739	662,314	2,118,875	966,822	489,739	1,242,557	2,699,118	153	152	10
7/1/2011 to 6/30/2012	500,000	110,414	1,161,297	766,279	0	1,927,576	1,161,297	807,333	0	1,968,630	161	160	12
7/1/2012 to 6/30/2013	600,000	119,088	1,069,226	1,115,901	0	2,185,127	1,069,226	1,263,175	28,185	2,360,586	135	131	19
7/1/2013 to 6/30/2014	600,000	115,348	1,493,243	969,278	0	2,462,520	1,493,243	1,308,597	389,364	3,191,204	154	150	8
7/1/2014 to 6/30/2015	600,000	119,528	990,336	607,359	0	1,597,694	990,336	1,091,893	339,213	2,421,442	143	141	9
7/1/2015 to 6/30/2016	600k / 1M	127,517	1,040,415	1,868,903	0	2,909,318	1,090,433	2,077,102	1,399,051	4,566,586	153	150	9
7/1/2016 to 6/30/2017	600k / 1M	128,452	1,264,196	384,468	0	1,648,664	1,264,196	469,570	0	1,733,766	133	131	9
7/1/2017 to 6/30/2018	600k / 1M	133,497	1,111,749	694,856	0	1,806,605	1,145,736	1,589,731	386,506	3,121,973	149	146	15
7/1/2018 to 6/30/2019	600k / 1.25M	135,570	1,079,002	103,443	0	1,182,445	1,166,364	747,089	0	1,913,453	158	152	8
7/1/2019 to 6/30/2020	600k / 1.25M	136,800	1,084,488	295,939	0	1,380,427	1,117,556	1,079,478	0	2,197,035	148	143	14
7/1/2020 to 6/30/2021	750k / 2.25M	140,084	1,222,414	388,827	0	1,611,240	1,327,943	1,532,316	0	2,860,259	135	128	5
7/1/2021 to 6/30/2022	1M / 3M	142,931	812,505	207,754	0	1,020,259	834,099	1,447,850	0	2,281,949	118	115	5
7/1/2022 to 6/30/2023	1.5M / 3M	159,979	902,535	154,331	0	1,056,866	1,089,913	647,705	0	1,737,618	126	114	9
7/1/2023 to 6/30/2024	1.5M / 3M	173,629	351,339	0	0	351,339	1,078,355	281,424	0	1,359,780	140	82	11
TOTALS		**2,608,077**	**20,401,753**	**9,810,115**	**778,844**	**30,990,712**	**21,682,528**	**17,068,220**	**4,067,905**	**42,818,653**	**3,111**	**2,991**	**214**

Notes:
(1) through (12) from City of Chandler
* *Where two SIR's are displayed, the first is for non public safety employees and the second is for public safety employees*

City of Chandler
Workers' Compensation
Large Loss Listing (Incurred ≥ $75,000)
Based on Data as of June 30, 2024

Claim Number	Accident Date	Claim Status	Self-Insured Retention (SIR)	(1) Limited Paid to 75,000	(2) Paid from Limit to SIR	(3) Paid Excess of SIR	(4) Unlimited Paid	(5) Prior Unlimited Paid	(6) Unlimited Paid Change	(7) Limited Incurred to 75,000	(8) Incurred from Limit to SIR	(9) Incurred Excess of SIR	(10) Unlimited Incurred	(11) Prior Unlimited Incurred	(12) Unlimited Incurred Change
CN-03-0500003	1/3/2003	Closed	500,000	75,000	3,602	0	78,602	78,602	0	75,000	3,602	0	78,602	78,602	0
CN-03-0500013	2/12/2003	Open	500,000	75,000	425,000	116,529	616,529	597,440	19,089	75,000	425,000	283,030	783,030	783,030	0
CN-03-0500045	5/8/2003	Open	500,000	75,000	165,243	0	240,243	239,969	274	75,000	178,709	0	253,709	253,709	0
CN-04-0500041	10/2/2003	Closed	500,000	75,000	4,813	0	79,813	79,813	0	75,000	4,813	0	79,813	79,813	0
CN-04-0500099	3/8/2004	Open	500,000	64,016	0	0	64,016	63,967	49	75,000	4,028	0	79,028	79,028	0
CN-04-0500125	4/28/2004	Closed	500,000	75,000	38,134	0	113,134	113,134	0	75,000	38,134	0	113,134	113,134	0
CN-05-0500010	7/28/2004	Closed	500,000	75,000	29,762	0	104,762	104,762	0	75,000	29,762	0	104,762	104,762	0
1/1/2003 to 6/30/2005 ; 7 claims ; 3 open				***514,016***	***666,554***	***116,529***	***1,297,099***	***1,277,687***	***19,412***	***525,000***	***684,047***	***283,030***	***1,492,077***	***1,492,077***	***0***
CN-06-0500060	11/16/2005	Closed	500,000	75,000	85,341	0	160,341	160,341	0	75,000	85,341	0	160,341	160,341	0
CN-06-0500138	5/23/2006	Closed	500,000	75,000	248,567	0	323,567	320,891	2,677	75,000	248,567	0	323,567	365,105	(41,538)
7/1/2005 to 6/30/2006 ; 2 claims ; 0 open				***150,000***	***333,909***	***0***	***483,909***	***481,232***	***2,677***	***150,000***	***333,909***	***0***	***483,909***	***525,446***	***(41,538)***
CN-07-0500083	2/22/2007	Closed	500,000	75,000	11,852	0	86,852	86,852	0	75,000	11,852	0	86,852	86,852	0
7/1/2006 to 6/30/2007 ; 1 claim ; 0 open				***75,000***	***11,852***	***0***	***86,852***	***86,852***	***0***	***75,000***	***11,852***	***0***	***86,852***	***86,852***	***0***
CN-08-0500045	9/7/2007	Open	500,000	75,000	26,184	0	101,184	94,988	6,197	75,000	213,920	0	288,920	288,920	0
CN-08-0500153	5/16/2008	Closed	500,000	75,000	24,009	0	99,009	99,009	0	75,000	24,009	0	99,009	99,009	0
7/1/2007 to 6/30/2008 ; 2 claims ; 1 open				***150,000***	***50,193***	***0***	***200,193***	***193,996***	***6,197***	***150,000***	***237,929***	***0***	***387,929***	***387,929***	***0***
CN-09-0500034	9/3/2008	Closed	500,000	75,000	44,596	0	119,596	119,596	0	75,000	44,596	0	119,596	119,596	0
CN-09-0500085	12/18/2008	Open	500,000	75,000	350,781	0	425,781	422,490	3,292	75,000	397,998	0	472,998	472,998	0
CN-09-0500107	2/17/2009	Open	500,000	75,000	102,250	0	177,250	176,677	573	75,000	179,839	0	254,839	254,839	0
7/1/2008 to 6/30/2009 ; 3 claims ; 2 open				***225,000***	***497,628***	***0***	***722,628***	***718,763***	***3,865***	***225,000***	***622,433***	***0***	***847,433***	***847,433***	***0***
CN-10-0500009	7/17/2009	Open	500,000	75,000	36,854	0	111,854	108,570	3,284	75,000	178,998	0	253,998	253,998	0
CN-10-0500033	9/4/2009	Closed	500,000	75,000	7,866	0	82,866	82,866	0	75,000	7,866	0	82,866	82,866	0
CN-10-0500067	12/5/2009	Closed	500,000	75,000	35,293	0	110,293	110,293	0	75,000	35,293	0	110,293	110,293	0
CN-10-0500085	2/8/2010	Closed	500,000	75,000	18,413	0	93,413	93,413	0	75,000	18,413	0	93,413	93,413	0
CN-10-0500103	3/8/2010	Closed	500,000	75,000	69,773	0	144,773	141,225	3,548	75,000	69,773	0	144,773	247,136	(102,363)
CN-10-0500104	3/11/2010	Closed	500,000	75,000	34,705	0	109,705	109,705	0	75,000	34,705	0	109,705	109,705	0
7/1/2009 to 6/30/2010 ; 6 claims ; 1 open				***450,000***	***202,904***	***0***	***652,904***	***646,073***	***6,831***	***450,000***	***345,048***	***0***	***795,048***	***897,411***	***(102,363)***
WC-001	7/28/2010	Open	500,000	75,000	425,000	662,314	1,162,314	1,132,710	29,604	75,000	425,000	1,242,557	1,742,557	1,753,417	(10,861)
CN-11-0500036	8/22/2010	Closed	500,000	75,000	37,715	0	112,715	112,715	0	75,000	37,715	0	112,715	112,715	0
CN-11-0500057	10/2/2010	Closed	500,000	75,000	1,945	0	76,945	76,945	0	75,000	1,945	0	76,945	76,945	0
CN-11-0500103	2/11/2011	Closed	500,000	75,000	25,079	0	100,079	100,079	0	75,000	25,079	0	100,079	100,079	0
7/1/2010 to 6/30/2011 ; 4 claims ; 1 open				***300,000***	***489,739***	***662,314***	***1,452,054***	***1,422,450***	***29,604***	***300,000***	***489,739***	***1,242,557***	***2,032,296***	***2,043,157***	***(10,861)***
CN-12-0500036	9/9/2011	Closed	500,000	75,000	246,800	0	321,800	321,800	0	75,000	246,800	0	321,800	321,800	0
CN-12-0500073	11/13/2011	Open	500,000	75,000	277,954	0	352,954	348,105	4,849	75,000	319,007	0	394,007	394,007	0
CN-10-000002	3/23/2012	Closed	500,000	75,000	167,334	0	242,334	242,294	40	75,000	167,334	0	242,334	847,758	(605,424)
CN-12-0500139	4/19/2012	Closed	500,000	75,000	74,192	0	149,192	149,192	0	75,000	74,192	0	149,192	149,192	0
7/1/2011 to 6/30/2012 ; 4 claims ; 1 open				***300,000***	***766,279***	***0***	***1,066,279***	***1,061,390***	***4,889***	***300,000***	***807,333***	***0***	***1,107,333***	***1,712,757***	***(605,424)***

City of Chandler
Workers' Compensation
Large Loss Listing (Incurred ≥ $75,000)
Based on Data as of June 30, 2024

Claim Number	Accident Date	Claim Status	Self-Insured Retention (SIR)	(1) Limited Paid to 75,000	(2) Paid from Limit to SIR	(3) Paid Excess of SIR	(4) Unlimited Paid	(5) Prior Unlimited Paid	(6) Unlimited Paid Change	(7) Limited Incurred to 75,000	(8) Incurred from Limit to SIR	(9) Incurred Excess of SIR	(10) Unlimited Incurred	(11) Prior Unlimited Incurred	(12) Unlimited Incurred Change
CN-13-005122	9/30/2012	Open	600,000	75,000	16,065	0	91,065	91,065	0	75,000	65,501	0	140,501	140,501	0
CN-13-005159	1/16/2013	Closed	600,000	75,000	65,458	0	140,458	140,458	0	75,000	65,458	0	140,458	140,458	0
CN-13-005205	3/19/2013	Open	600,000	75,000	177,815	0	252,815	237,682	15,133	75,000	254,972	0	329,972	329,972	0
CN-13-005252	5/2/2013	Open	600,000	75,000	521,693	0	596,693	586,996	9,697	75,000	525,000	28,185	628,185	628,185	0
CN-13-005314	5/8/2013	Closed	600,000	75,000	170,745	0	245,745	245,745	0	75,000	170,745	0	245,745	245,745	0
CN-13-005281	5/20/2013	Open	600,000	75,000	8,764	0	83,764	83,593	171	75,000	26,137	0	101,137	101,137	0
CN-13-005273	5/22/2013	Closed	600,000	75,000	155,360	0	230,360	230,360	0	75,000	155,360	0	230,360	230,360	0
7/1/2012 to 6/30/2013 ; 7 claims ; 4 open				***525,000***	***1,115,901***	***0***	***1,640,901***	***1,615,901***	***25,001***	***525,000***	***1,263,175***	***28,185***	***1,816,360***	***1,816,360***	***0***
CN-14-005049	8/20/2013	Closed	600,000	75,000	467	0	75,467	75,467	0	75,000	467	0	75,467	75,467	0
CN-14-005093	10/17/2013	Open	600,000	75,000	184,923	0	259,923	259,789	134	75,000	197,469	0	272,469	272,469	0
CN-14-005197	2/19/2014	Open	600,000	75,000	74,432	0	149,432	148,628	804	75,000	84,515	0	159,515	159,515	0
CN-14-005202	2/28/2014	Closed	600,000	75,000	38,249	0	113,249	113,249	0	75,000	38,249	0	113,249	113,249	0
CN-14-005319	5/12/2014	Open	600,000	75,000	174,488	0	249,488	234,185	15,304	75,000	462,897	0	537,897	409,002	128,895
CN-14-005344	6/13/2014	Open	600,000	75,000	496,718	0	571,718	562,362	9,356	75,000	525,000	389,364	989,364	989,364	0
7/1/2013 to 6/30/2014 ; 6 claims ; 4 open				***450,000***	***969,278***	***0***	***1,419,278***	***1,393,681***	***25,597***	***450,000***	***1,308,597***	***389,364***	***2,147,961***	***2,019,066***	***128,895***
CN-15-005102	10/1/2014	Closed	600,000	75,000	41,893	0	116,893	116,893	0	75,000	41,893	0	116,893	116,893	0
CN-15-005139	10/28/2014	Open	600,000	75,000	297,967	0	372,967	338,760	34,207	75,000	525,000	166,640	766,640	761,640	5,000
CN-15-005142	10/31/2014	Open	600,000	75,000	267,498	0	342,498	308,443	34,055	75,000	525,000	172,573	772,573	772,573	0
7/1/2014 to 6/30/2015 ; 3 claims ; 2 open				***225,000***	***607,359***	***0***	***832,359***	***764,096***	***68,262***	***225,000***	***1,091,893***	***339,213***	***1,656,106***	***1,651,106***	***5,000***
CN-16-005088	10/12/2015	Closed	1,000,000	75,000	189,102	0	264,102	257,839	6,263	75,000	189,102	0	264,102	634,550	(370,448)
CN-16-005145	10/30/2015	Open	1,000,000	24,982	0	0	24,982	24,982	0	75,000	20,280	0	95,280	95,280	0
CN-16-005314	4/23/2016	Open	1,000,000	75,000	853,531	0	928,531	874,156	54,375	75,000	925,000	666,787	1,666,787	1,666,787	0
CN-16-005324	5/5/2016	Closed	1,000,000	75,000	17,720	0	92,720	92,720	0	75,000	17,720	0	92,720	92,720	0
CN-16-005347	5/18/2016	Open	1,000,000	75,000	808,549	0	883,549	862,013	21,536	75,000	925,000	732,264	1,732,264	1,732,264	0
7/1/2015 to 6/30/2016 ; 5 claims ; 3 open				***324,982***	***1,868,903***	***0***	***2,193,885***	***2,111,711***	***82,174***	***375,000***	***2,077,102***	***1,399,051***	***3,851,153***	***4,221,601***	***(370,448)***
CN-17-005049	8/16/2016	Open	1,000,000	75,000	22,268	0	97,268	97,268	0	75,000	43,014	0	118,014	118,014	0
CN-17-005102	9/29/2016	Closed	1,000,000	75,000	31,553	0	106,553	106,553	0	75,000	31,553	0	106,553	106,553	0
CN-17-005110	10/14/2016	Closed	600,000	75,000	1,270	0	76,270	76,270	0	75,000	1,270	0	76,270	76,270	0
CN-17-005137	11/9/2016	Open	1,000,000	75,000	89,002	0	164,002	160,795	3,207	75,000	153,358	0	228,358	228,358	0
CN-17-005202	12/29/2016	Closed	1,000,000	75,000	20,852	0	95,852	95,852	0	75,000	20,852	0	95,852	95,852	0
CN-17-005440	4/3/2017	Closed	1,000,000	75,000	119,323	0	194,323	194,323	0	75,000	119,323	0	194,323	194,323	0
CN-17-005633	4/20/2017	Closed	1,000,000	75,000	80,289	0	155,289	155,289	0	75,000	80,289	0	155,289	155,289	0
CN-17-005508	5/10/2017	Closed	1,000,000	75,000	19,912	0	94,912	94,912	0	75,000	19,912	0	94,912	94,912	0
7/1/2016 to 6/30/2017 ; 8 claims ; 2 open				***600,000***	***384,468***	***0***	***984,468***	***981,261***	***3,207***	***600,000***	***469,570***	***0***	***1,069,570***	***1,069,570***	***0***
CN-18-005172	9/28/2017	Closed	1,000,000	75,000	21,574	0	96,574	96,574	0	75,000	21,574	0	96,574	96,574	0
CN-18-005210	10/26/2017	Closed	1,000,000	75,000	2,131	0	77,131	77,131	0	75,000	2,131	0	77,131	77,131	0
CN-18-005237	11/9/2017	Closed	1,000,000	75,000	7,283	0	82,283	82,283	0	75,000	7,283	0	82,283	82,283	0
CN-18-005238	11/14/2017	Closed	1,000,000	75,000	40,763	0	115,763	115,763	0	75,000	40,763	0	115,763	115,763	0
CN-18-005344	12/8/2017	Open	1,000,000	41,013	0	0	41,013	41,013	0	75,000	18,086	0	93,086	93,086	0
CN-18-005439	3/6/2018	Open	1,000,000	75,000	184,756	0	259,756	239,955	19,801	75,000	574,894	0	649,894	649,894	0
CN-18-005455	3/6/2018	Open	1,000,000	75,000	438,349	0	513,349	476,340	37,009	75,000	925,000	386,506	1,386,506	1,386,506	0
7/1/2017 to 6/30/2018 ; 7 claims ; 3 open				***491,013***	***694,856***	***0***	***1,185,869***	***1,129,058***	***56,810***	***525,000***	***1,589,731***	***386,506***	***2,501,236***	***2,501,236***	***0***

City of Chandler
Workers' Compensation
Large Loss Listing (Incurred ≥ $75,000)
Based on Data as of June 30, 2024

Claim Number	Accident Date	Claim Status	Self-Insured Retention (SIR)	(1) Limited Paid to 75,000	(2) Paid from Limit to SIR	(3) Paid Excess of SIR	(4) Unlimited Paid	(5) Prior Unlimited Paid	(6) Unlimited Paid Change	(7) Limited Incurred to 75,000	(8) Incurred from Limit to SIR	(9) Incurred Excess of SIR	(10) Unlimited Incurred	(11) Prior Unlimited Incurred	(12) Unlimited Incurred Change
CN-19-005032	7/20/2018	Open	600,000	75,000	19,530	0	94,530	94,153	377	75,000	26,367	0	101,367	101,367	0
CN-19-005524	8/26/2018	Open	1,250,000	36,682	0	0	36,682	32,091	4,591	75,000	126,976	0	201,976	37,941	164,035
CN-19-005106	9/4/2018	Closed	1,250,000	75,000	10,054	0	85,054	85,054	0	75,000	10,054	0	85,054	85,054	0
CN-19-005453	4/8/2019	Open	600,000	46,521	0	0	46,521	44,646	1,875	75,000	10,729	0	85,729	85,729	0
CN-19-005526	5/2/2019	Open	1,250,000	75,000	70,898	0	145,898	128,543	17,355	75,000	165,336	0	240,336	240,336	0
CN-19-005522	5/29/2019	Open	1,250,000	75,000	2,961	0	77,961	64,603	13,358	75,000	407,627	0	482,627	482,627	0
7/1/2018 to 6/30/2019 ; 6 claims ; 5 open				***383,203***	***103,443***	***0***	***486,646***	***449,090***	***37,557***	***450,000***	***747,089***	***0***	***1,197,089***	***1,033,054***	***164,035***
CN-20-005092	8/9/2019	Closed	1,250,000	75,000	26,811	0	101,811	100,355	1,457	75,000	26,811	0	101,811	115,233	(13,422)
CN-20-005053	9/5/2019	Closed	1,250,000	75,000	133,938	0	208,938	208,938	0	75,000	133,938	0	208,938	208,938	0
CN-20-005093	9/25/2019	Open	1,250,000	75,000	37,741	0	112,741	101,962	10,779	75,000	253,993	0	328,993	114,664	214,329
CN-20-005089	10/10/2019	Open	1,250,000	75,000	5,793	0	80,793	80,279	514	75,000	20,517	0	95,517	95,517	0
CN-20-005167	1/27/2020	Closed	1,250,000	75,000	27,464	0	102,464	102,464	0	75,000	27,464	0	102,464	109,114	(6,651)
CN-20-005223	1/27/2020	Open	1,250,000	75,000	64,192	0	139,192	121,948	17,244	75,000	605,021	0	680,021	680,021	0
CN-22-005178	4/21/2020	Open	1,250,000	52,934	0	0	52,934	49,162	3,772	75,000	11,734	0	86,734	86,734	0
7/1/2019 to 6/30/2020 ; 7 claims ; 4 open				***502,934***	***295,939***	***0***	***798,873***	***765,107***	***33,766***	***525,000***	***1,079,478***	***0***	***1,604,478***	***1,410,221***	***194,257***
CN-21-005075	7/15/2020	Open	2,250,000	75,000	37,949	0	112,949	104,570	8,379	75,000	262,090	0	337,090	337,090	0
CN-21-005129	12/7/2020	Closed	2,250,000	75,000	84,398	0	159,398	159,398	0	75,000	84,398	0	159,398	159,398	0
CN-21-005148	12/27/2020	Open	2,250,000	75,000	266,480	0	341,480	302,369	39,110	75,000	1,085,690	0	1,160,690	1,160,690	0
CN-21-005154	1/21/2021	Open	2,250,000	21,848	0	0	21,848	21,848	0	75,000	7,785	0	82,785	82,785	0
CN-21-005168	2/11/2021	Open	2,250,000	60,483	0	0	60,483	47,252	13,231	75,000	92,353	0	167,353	167,353	0
7/1/2020 to 6/30/2021 ; 5 claims ; 4 open				***307,331***	***388,827***	***0***	***696,158***	***635,437***	***60,721***	***375,000***	***1,532,316***	***0***	***1,907,316***	***1,907,316***	***0***
CN-22-005123	12/3/2021	Open	3,000,000	75,000	199,511	0	274,511	234,266	40,245	75,000	1,439,607	0	1,514,607	1,514,607	0
CN-22-005133	1/8/2022	Closed	3,000,000	75,000	8,244	0	83,244	83,244	0	75,000	8,244	0	83,244	83,244	0
7/1/2021 to 6/30/2022 ; 2 claims ; 1 open				***150,000***	***207,754***	***0***	***357,754***	***317,510***	***40,245***	***150,000***	***1,447,850***	***0***	***1,597,850***	***1,597,850***	***0***
CN-23-300252	11/19/2022	Open	3,000,000	54,095	0	0	54,095	0	54,095	75,000	4,170	0	79,170	7,650	71,520
CN-23-300144	11/23/2022	Open	3,000,000	52,647	0	0	52,647	279	52,368	75,000	16,135	0	91,135	4,537	86,598
CN-23-300172	11/23/2022	Open	3,000,000	73,058	0	0	73,058	26,033	47,025	75,000	35,066	0	110,066	90,924	19,142
CN-23-300168	1/24/2023	Open	3,000,000	75,000	27,859	0	102,859	9,284	93,575	75,000	109,620	0	184,620	148,449	36,171
CN-23-300169	1/26/2023	Open	1,500,000	75,000	126,472	0	201,472	135,425	66,047	75,000	171,859	0	246,859	242,926	3,933
CN-23-300232	4/18/2023	Open	3,000,000	69,143	0	0	69,143	1,283	67,860	75,000	172,192	0	247,192	4,615	242,577
CN-23-300314	5/16/2023	Open	3,000,000	42,654	0	0	42,654	0	42,654	75,000	138,663	0	213,663	0	213,663
7/1/2022 to 6/30/2023 ; 7 claims ; 7 open				***441,597***	***154,331***	***0***	***595,928***	***172,305***	***423,623***	***525,000***	***647,705***	***0***	***1,172,705***	***499,101***	***673,604***
CN-24-300025	7/19/2023	Open	1,500,000	16,538	0	0	16,538	0	16,538	75,000	42,858	0	117,858	0	117,858
CN-24-300065	8/29/2023	Open	1,500,000	18,686	0	0	18,686	0	18,686	75,000	50,821	0	125,821	0	125,821
CN-24-300142	11/9/2023	Open	3,000,000	5,308	0	0	5,308	0	5,308	75,000	37,451	0	112,451	0	112,451
CN-24-300165	12/21/2023	Open	3,000,000	36,522	0	0	36,522	0	36,522	75,000	53,779	0	128,779	0	128,779
CN-24-300187	1/13/2024	Open	3,000,000	7,455	0	0	7,455	0	7,455	75,000	81,621	0	156,621	0	156,621
CN-24-300191	1/19/2024	Open	3,000,000	12,903	0	0	12,903	0	12,903	75,000	14,894	0	89,894	0	89,894
7/1/2023 to 6/30/2024 ; 6 claims ; 6 open				***97,414***	***0***	***0***	***97,414***	***0***	***97,414***	***450,000***	***281,424***	***0***	***731,424***	***0***	***731,424***
TOTALS ; 98 claims ; 54 open				**6,662,491**	**9,810,115**	**778,844**	**17,251,450**	**16,223,598**	**1,027,852**	**7,350,000**	**17,068,220**	**4,067,905**	**28,486,125**	**27,719,544**	**766,581**

Notes:
(1) through (12) from City of Chandler

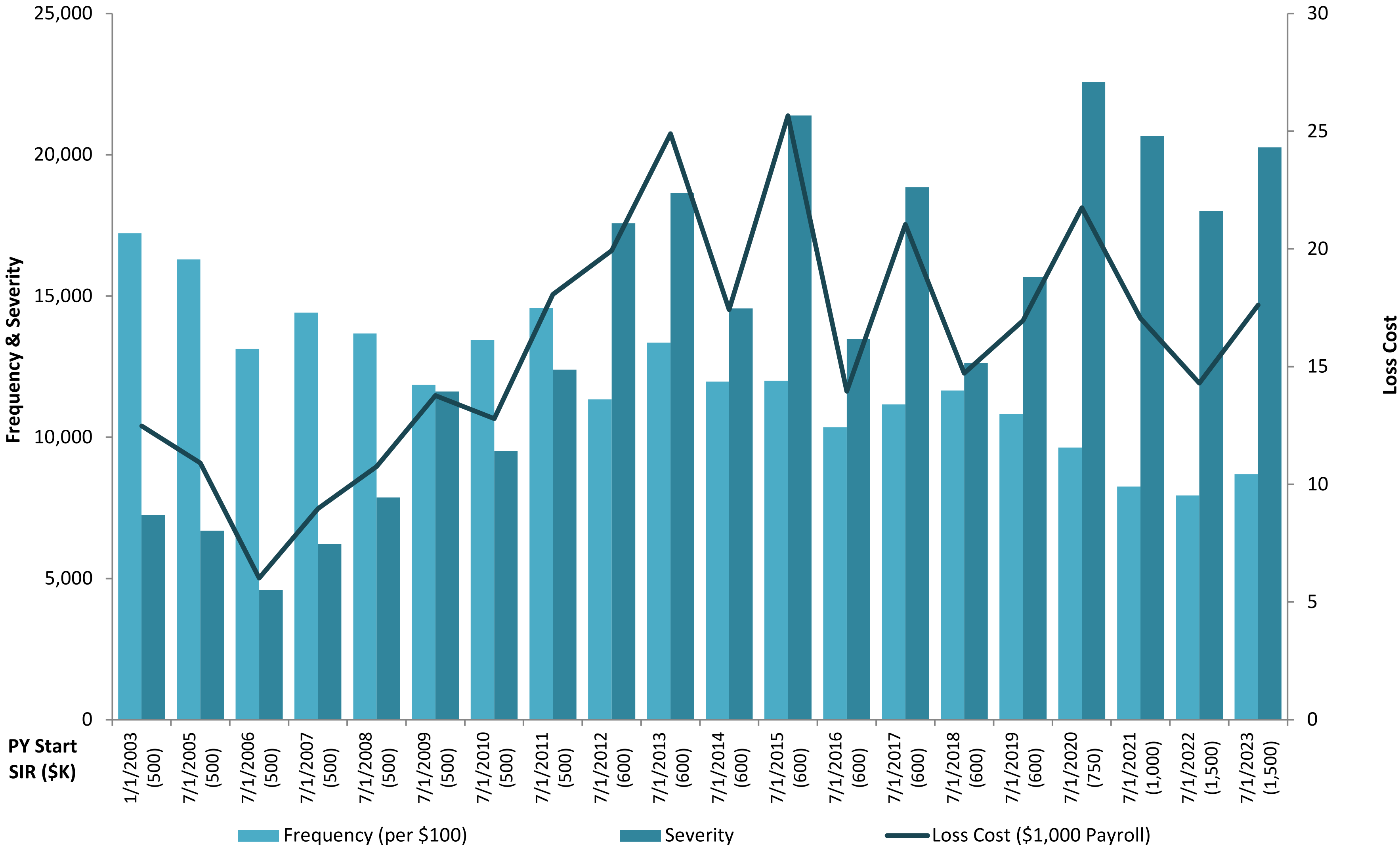
City of Chandler
Workers' Compensation
Losses & ALAE Reconciliation
Based on Data as of June 30, 2024

		Paid	Incurred
(1)	Loss Run 1 - Unlimited	30,990,293	42,818,234
(2)	Manual Adjustment	419	419
(3)	Amounts Excess of SIR	778,844	4,067,905
(4)	OW Analysis - Retained	30,211,869	38,750,748
(5)	Difference - Retained	0	0

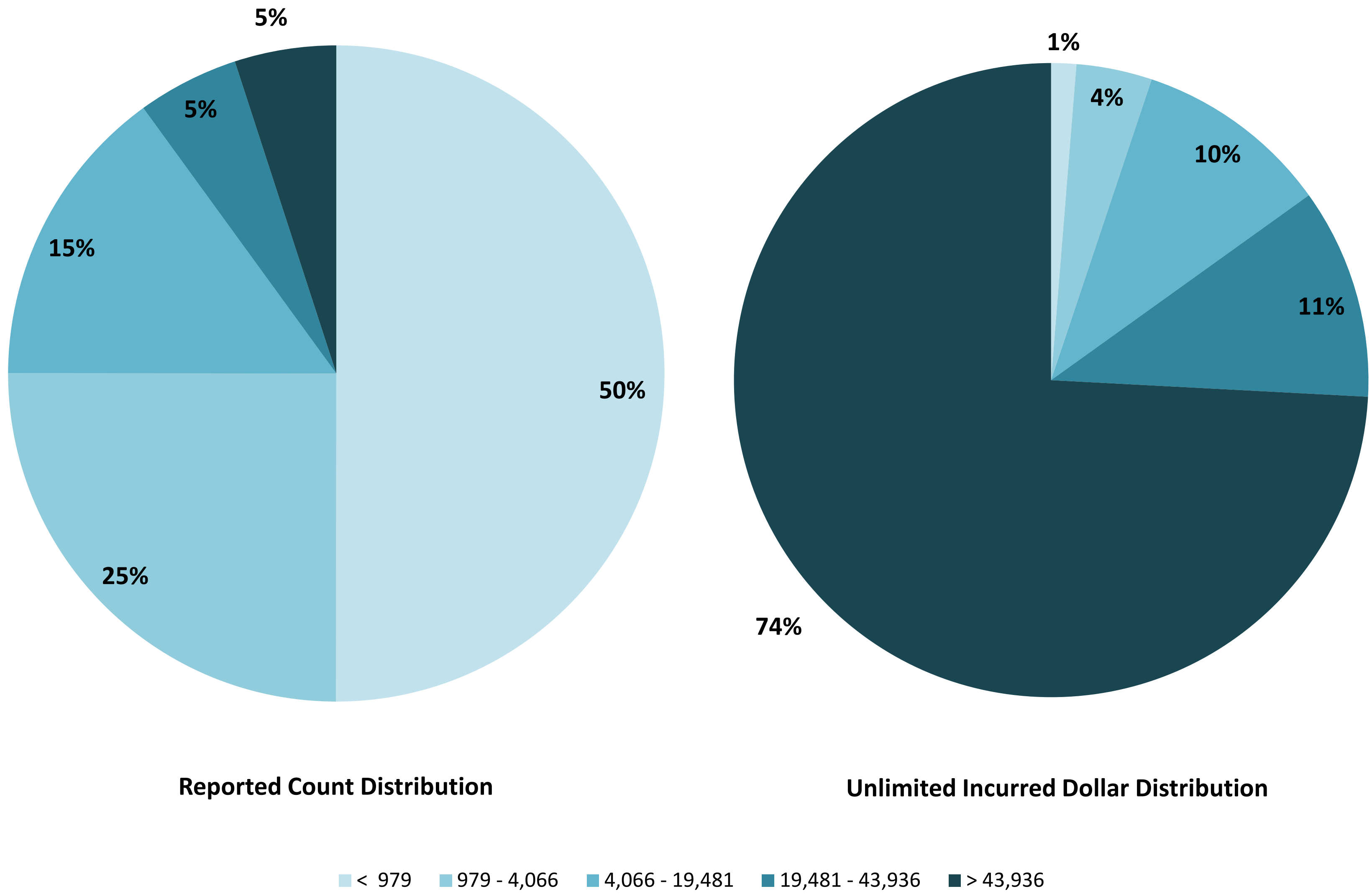
Notes:

(1) from City of Chandler; paid and incurred losses provided on a net of recoveries basis
(2) from City of Chandler; adjusted for negative incurred losses
(3) from City of Chandler
(4) from Appendix A, Page 1
(5) = (1) + (2) - (3) - (4)

City of Chandler
Workers' Compensation
Ultimate Frequency, Severity & Loss Cost - Limited to SIR
Based on Data as of June 30, 2024



City of Chandler
Workers' Compensation
Layer Distribution
Based on Data as of June 30, 2024



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