

# Pennsylvania Compensation Rating Bureau

**Experience Rating Plan Update** 

**APRIL 1, 2024** 



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### **Peter Gunn**

- 37 years experience in Workers Compensation product management at Travelers
- Vice-Chair PCRB Governing Board
- PCRB Class and Rate Committee Member







### **Travelers**

We have been consistently writing workers compensation insurance for over a century.

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Travelers writes the largest percentage of the eligible U.S. payroll<sup>1</sup> A++
rating

A.M. Best for financial strength<sup>2</sup>

#1

Workers Compensation and Commercial Multi-peril.<sup>3</sup>

# Flexible coverages

that evolve and flex with the needs of our customers.

<sup>1</sup> Travelers Internal Data, 2022

<sup>3</sup> 2022 U.S. Statutory, DWP.





<sup>&</sup>lt;sup>2</sup> A.M. Best's rating of A++ applies to certain insurance subsidiaries of Travelers that are members of the Travelers Insurance Companies pool; other subsidiaries are included in another rating pool or are separately rated. For a listing of companies rated by A.M. Best and other rating services, visit travelers.com. Ratings listed herein are as of July 29, 2022, are used with permission, and are subject to changes by the rating services.

PCRB EXPERIENCE RATING

### **PCRB Experience Rating Background**

#### **Current State:**

- Last major Experience Rating Plan change was in 2004
- Current eligibility for Experience Rating \$10,000
- Split point of \$42,500 for all risks
  - All losses under \$42,500 are considered "primary losses" and are used in the calculation
- Capping rule restricting mod changes to a maximum swing of +/-25% from the prior year's Experience Rating factor
- Secondary Capping: If indicated modification is less than 1.00 and the capped modification is greater than 1.00, final modification will be 1.00

| Prior Mod | Indicated Mod | Capped Mod | Mod Used |
|-----------|---------------|------------|----------|
| 1.40      | .95           | 1.05       | 1.00     |





### Why Change?

- Performance testing of existing methodology indicated declines in predictive accuracy
- Variable Split Point plan outperforms
   Single Split Point plan
- Make the formula more responsive to the specific loss experience of the insured
- Increase Workplace Safety Incentive
- Current plan assigns too little credibility to most risks
- Transition between Merit Rating and Experience Rating Plans for small risks can be significant



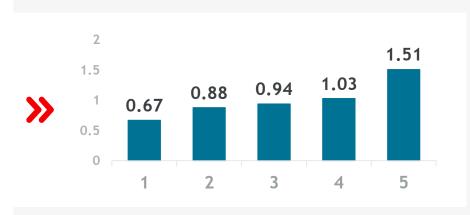




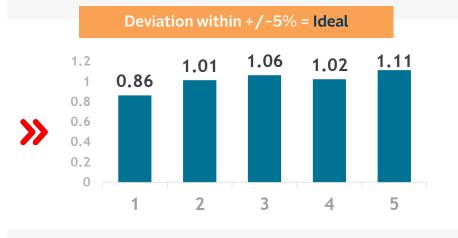
### The new plan will...

- Enhance plan performance through improved predictive accuracy and promote greater equity among similarly classified insureds
- Tailor split points to achieve better balance based on risk size and actual claim experience
- Increase incentive to improve workplace safety
- Balance Mod responsiveness with year-to-year stability via revised capping rules
- Perform closer to an ideal plan with identical loss ratios across Experience Mod quintiles
- Target deviation in each loss ratio quintile is +/- 5% after application of experience rating factor

### 2015-2018 Eligibility \$10,000







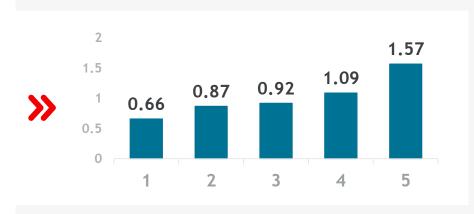
MODIFIED LOSS RATIOS



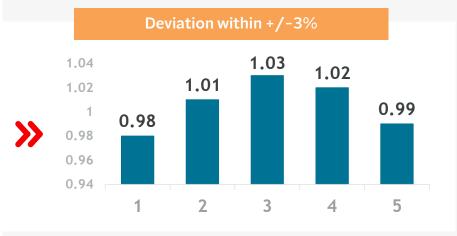


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### 2015-2018 Eligibility \$5,000



MANUAL LOSS RATIOS



MODIFIED LOSS RATIOS





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# Filed Changes

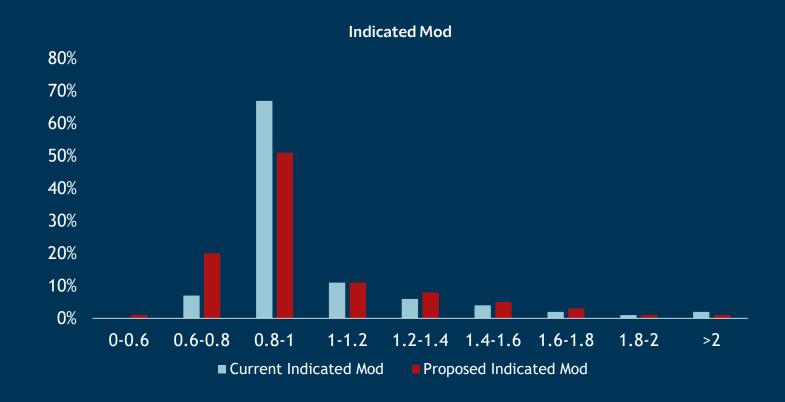
|                     | Current   | New   |
|---------------------|---|---|
| Plan                | Single Split Point                                  | Variable Split Point                                    |
| Formula             | <u> Ap x C + E x C x L +</u><br>E                   | E(1.000-C)  |
| Torrida             | Ap=Actual Primary Loss, E= Exp<br>and L= Limitation |   |
| Eligibility         | \$10,000  | \$5,000   |
| Credibility         | 0.283 - 0.938                                       | 0.690 - 0.974   |
| Expected Loss Range | 10,706 - 5,806,852                                  | 5,000 - 4,338,871                                       |
| Split Points        | Single (1): \$42,500                                | Variable (88): \$10,000 - \$300,000                     |
| Med-Only Claims     | 100%  | 100%  |
| Capping %           | +/-25%  | Max Mod and 40% swing limit (2-year Transition Period*) |
| Secondary Capping   | Yes (Rule #2)                                       | Eliminate (After Transition Period)*                    |



<sup>\*</sup>Transition Period: The new Max Mod will apply, however the current capping rules (+/-25% swing limits and secondary capping will also apply for a 2-year period to ensure mod stability during the transition to the new plan.



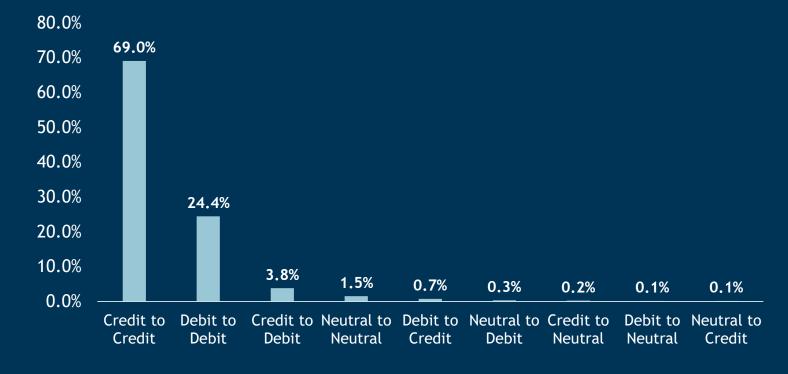
# **Distribution of Current and Proposed Mods**







# **Change in Mod Type**

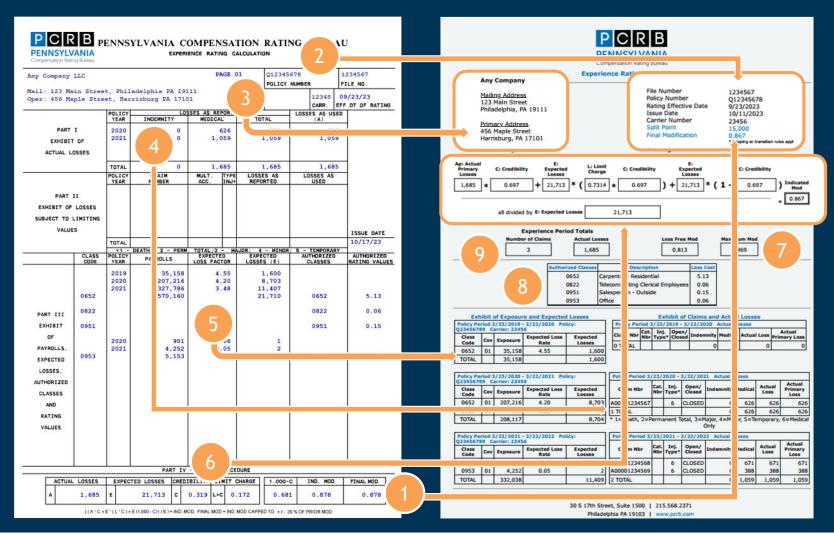






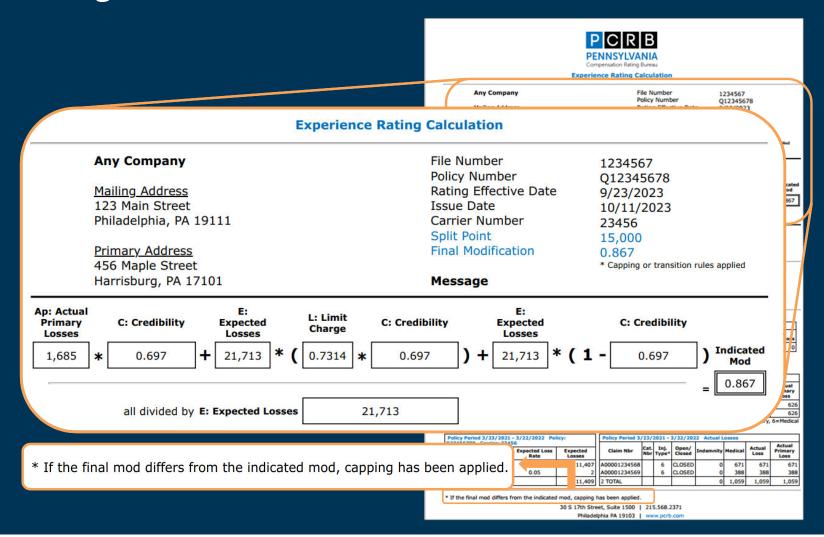
#### PCRB EXPERIENCE RATING

### Reading the New Worksheet



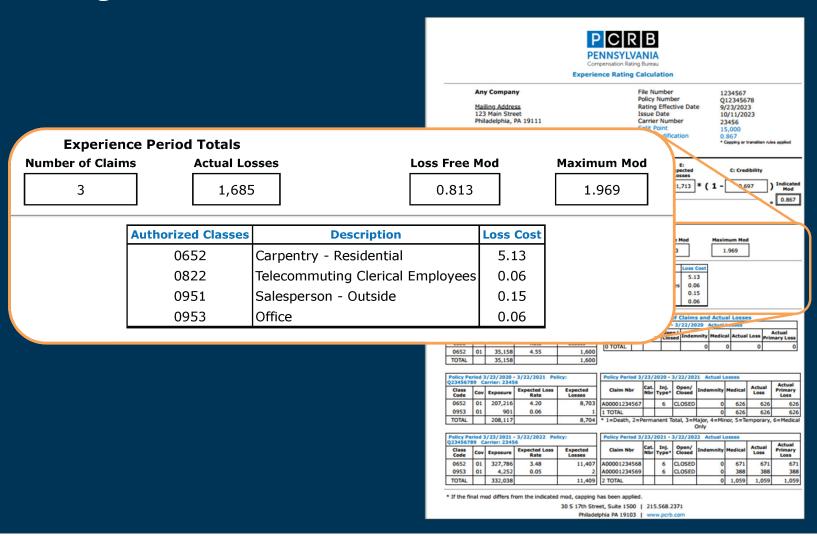
### **Reading the New Worksheet**

#### PCRB EXPERIENCE RATING



### Reading the New Worksheet

#### PCRB EXPERIENCE RATING



### Reading the New Worksheet

#### PCRB EXPERIENCE RATING

1234567 Q12345678

9/23/2023 10/11/2023 23456 15,000 0.867

1.969

0.867



Policy Period 3/23/2019 - 3/22/2020 Policy:

| Q2343070      | Q25450705 Carrier: 25450 |          |                       |                    |  |  |  |  |  |  |  |  |
|---------------|--------------------------|----------|-----------------------|--------------------|--|--|--|--|--|--|--|--|
| Class<br>Code | Cov                      | Exposure | Expected Loss<br>Rate | Expected<br>Losses |  |  |  |  |  |  |  |  |
| 0652          | 01                       | 35,158   | 4.55                  | 1,600              |  |  |  |  |  |  |  |  |
| TOTAL         |                          | 35,158   |                       | 1,600              |  |  |  |  |  |  |  |  |

### Policy Period 3/23/2020 - 3/22/2021 Policy: Q23456789 Carrier: 23456

| Q20 1007 05 Carrier 20 100 |    |          |                       |                    |  |  |  |  |  |  |  |
|----------------------------|----|----------|-----------------------|--------------------|--|--|--|--|--|--|--|
| Class<br>Code Cov          |    | Exposure | Expected Loss<br>Rate | Expected<br>Losses |  |  |  |  |  |  |  |
| 0652                       | 01 | 207,216  | 4.20                  | 8,703              |  |  |  |  |  |  |  |
| 0953                       | 01 | 901      | 0.06                  | 1                  |  |  |  |  |  |  |  |
| TOTAL                      |    | 208,117  |                       | 8,704              |  |  |  |  |  |  |  |

### Policy Period 3/23/2021 - 3/22/2022 Policy: 023456789 Carrier: 23456

| Q23456789 Carrier: 23456 |     |          |                       |                    |  |  |  |  |  |  |  |
|--------------------------|-----|----------|-----------------------|--------------------|--|--|--|--|--|--|--|
| Class<br>Code            | Cov | Exposure | Expected Loss<br>Rate | Expected<br>Losses |  |  |  |  |  |  |  |
| 0652                     | 01  | 327,786  | 3.48                  | 11,407             |  |  |  |  |  |  |  |
| 0953                     | 01  | 4,252    | 0.05                  | 2                  |  |  |  |  |  |  |  |
| TOTAL                    |     | 332,038  |                       | 11,409             |  |  |  |  |  |  |  |

#### **Exhibit of Claims and Actual Losses**

| Policy Per |             |               |                 |           |         |             |                        |
|------------|-------------|---------------|-----------------|-----------|---------|-------------|------------------------|
| Claim Nbr  | Cat.<br>Nbr | Inj.<br>Type* | Open/<br>Closed | Indemnity | Medical | Actual Loss | Actual<br>Primary Loss |
| 0 TOTAL    |             |               |                 | 0         | 0       | 0           | 0                      |

| Policy Period 3 | /23/2020 - 3 | /22/2021 | Actual Losses |
|-----------------|--------------|----------|---------------|
|-----------------|--------------|----------|---------------|

| Claim Nbr    | Cat.<br>Nbr | Inj.<br>Type* | Open/<br>Closed | Indemnity | Medical | Actual<br>Loss | Actual<br>Primary<br>Loss |  |  |  |  |
|--------------|-------------|---------------|-----------------|-----------|---------|----------------|---------------------------|--|--|--|--|
| A00001234567 |             | 6             | CLOSED          | 0         | 626     | 626            | 626                       |  |  |  |  |
| 1 TOTAL      |             |               |                 | 0         | 626     | 626            | 626                       |  |  |  |  |
|              |             |               |                 |           |         |                |                           |  |  |  |  |

<sup>\* 1=</sup>Death, 2=Permanent Total, 3=Major, 4=Minor, 5=Temporary, 6=Medical Only

#### Policy Period 3/23/2021 - 3/22/2022 Actual Losses

| Folicy Ferrod 3/23/2021 3/22/2022 Actual Losses |                     |   |                 |           |         |                |                           |  |  |  |
|---|---------------------|---|-----------------|-----------|---------|----------------|---------------------------|--|--|--|
| Claim Nbr                                       | aim Nbr Cat. Nbr Ty |   | Open/<br>Closed | Indemnity | Medical | Actual<br>Loss | Actual<br>Primary<br>Loss |  |  |  |
| A00001234568                                    |                     | 6 | CLOSED          | 0         | 671     | 671            | 671                       |  |  |  |
| A00001234569                                    |                     | 6 | CLOSED          | 0         | 388     | 388            | 388                       |  |  |  |
| 2 TOTAL   |                     |   |                 | 0         | 1,059   | 1,059          | 1,059                     |  |  |  |

| 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15, | 15,

PCRB

|   | Policy Po     | eriod : | 3/23/2021 -<br>arrier: 2345 | 3/22/2022 Pol         | icy:               | Policy Period 3/ | /2: |
|---|---------------|---------|-----------------------------|-----------------------|--------------------|------------------|-----|
|   | Class<br>Code | Cov     | Exposure                    | Expected Loss<br>Rate | Expected<br>Losses | Claim Nbr        | C   |
|   | 0652          | 01      | 327,786                     | 3.48                  | 11,407             | A00001234568     | Г   |
|   | 0953          | 01      | 4,252                       | 0.05                  | 2                  | A00001234569     |     |
| J | TOTAL         |         | 332 038                     |                       | 11 409             | 2 TOTAL          | г   |

| ol | icy:               | Policy Period 3 | /23/        | 2021 -        | 3/22/202        | 2 Actual L | osses   |                |                           |
|----|--------------------|-----------------|-------------|---------------|-----------------|------------|---------|----------------|---------------------------|
|    | Expected<br>Losses | Claim Nbr       | Cat.<br>Nbr | Inj.<br>Type* | Open/<br>Closed | Indemnity  | Medical | Actual<br>Loss | Actual<br>Primary<br>Loss |
| ٦  | 11,407             | A00001234568    |             | 6             | CLOSED          | 0          | 671     | 671            | 671                       |
|    | 2                  | A00001234569    |             | 6             | CLOSED          | 0          | 388     | 388            | 388                       |
|    | 11,409             | 2 TOTAL         |             |               |                 | 0          | 1,059   | 1,059          | 1,059                     |
| _  |                    |                 |             |               |                 |            |         |                |                           |

21,713

5.13

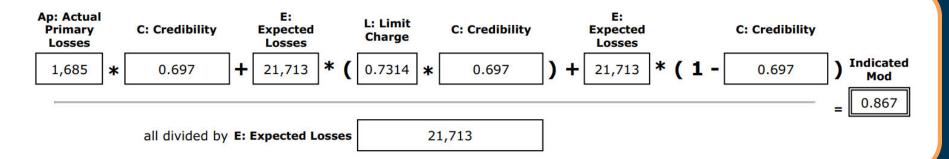
0.06

<sup>\*</sup> If the final mod differs from the indicated mod, capping has been applied.

30 S 17th Street, Suite 1500 | 215.568.2371

### New vs. Old

#### PCRB EXPERIENCE RATING





|   | ACTUAL LOSSES | Е | EXPECTED LOSSES | CRI | DIBILITY | LIM | IT CHARGE |
|---|---------------|---|-----------------|-----|----------|-----|-----------|
| A | 1,685         | E | 21,713          | U   | 0.319    | L*C | 0.172     |

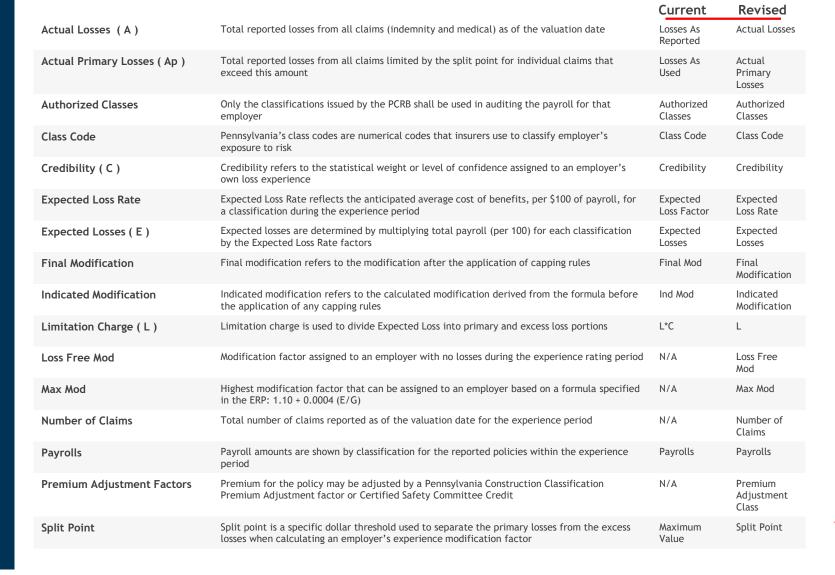
| 1.000-C | IND. MOD | FINAL MOD |
|---------|----------|-----------|
| 0.681   | 0.878    | 0.878     |

((A \* C + E \* (L \* C) + E (1.000 - C)) / E) = IND. MOD, FINAL MOD = IND. MOD CAPPED TO +/- 25 % OF PRIOR MOD





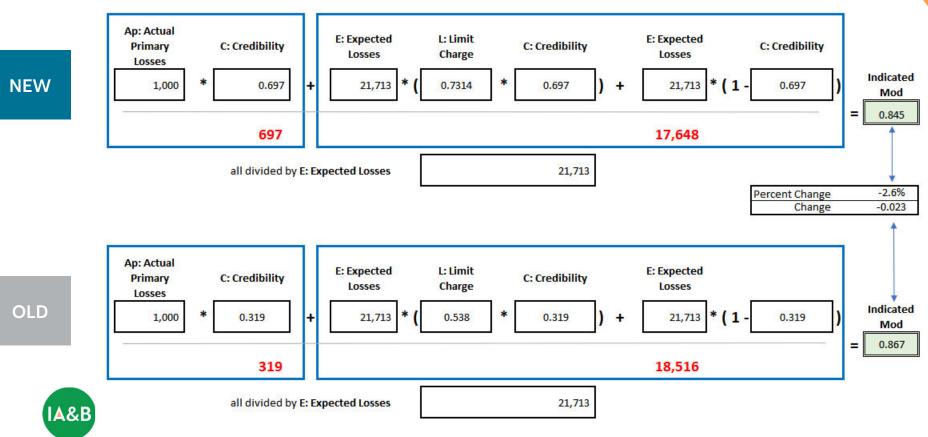
### **Glossary**





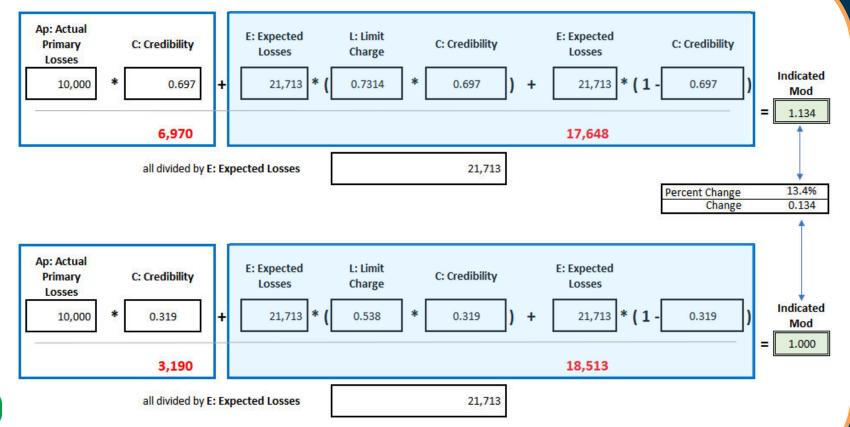


# New vs. Old - \$15,000 Split Point - 1 x \$1,000 Loss



### New vs. Old - \$15,000 Split Point with 10 x \$1,000 Losses

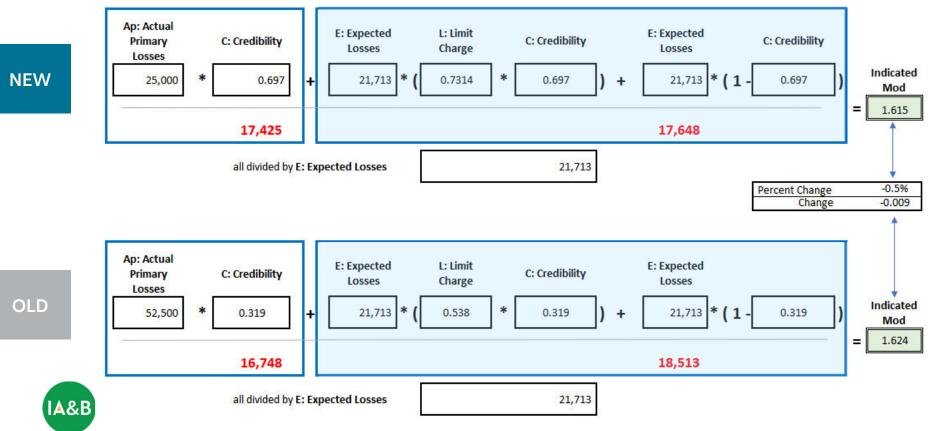
NEW



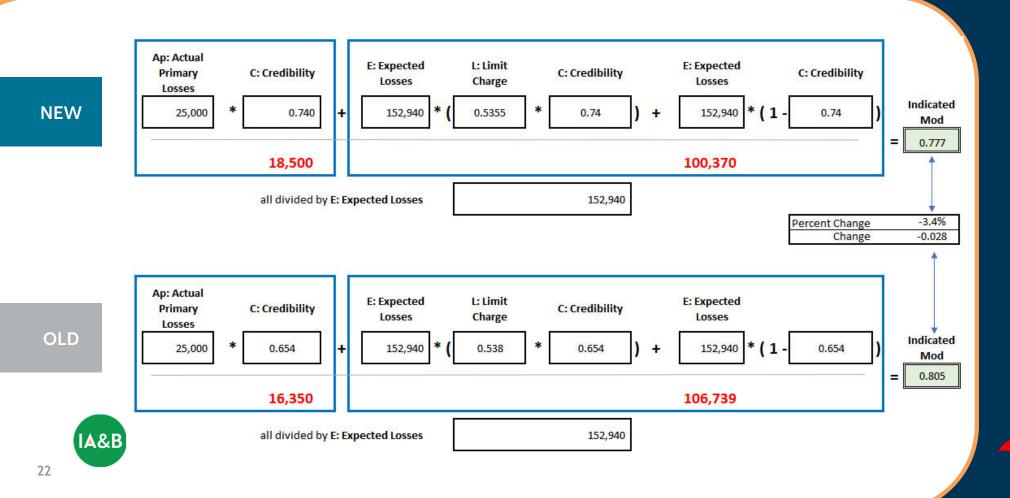
OLD



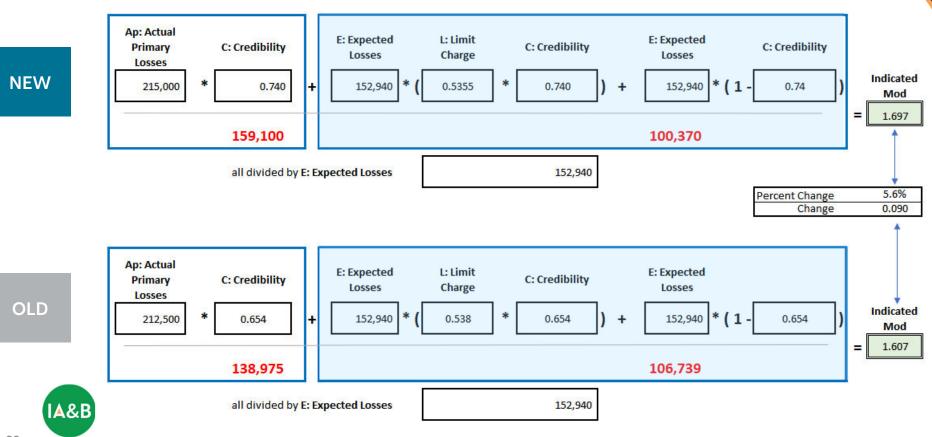
### New vs. Old - \$15,000 Split Point Add a \$100,000 Loss



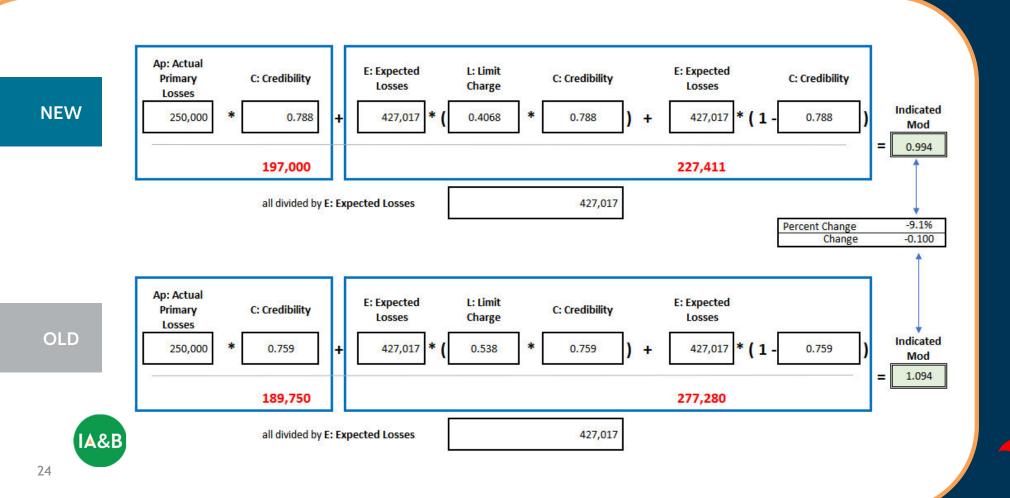
# New vs. Old - \$43,000 Split Point - 5 x \$5,000 Losses



### New vs. Old - \$43,000 Split Point with 5 x \$50,000 Losses



### New vs. Old - \$75,000 Split Point (10 x 25K Losses)

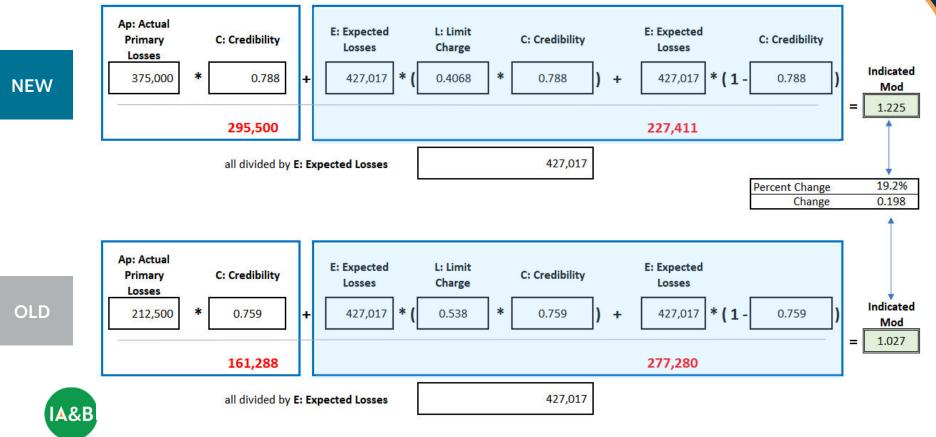


### New vs. Old - \$75,000 Split Point (5 x 50K Losses)

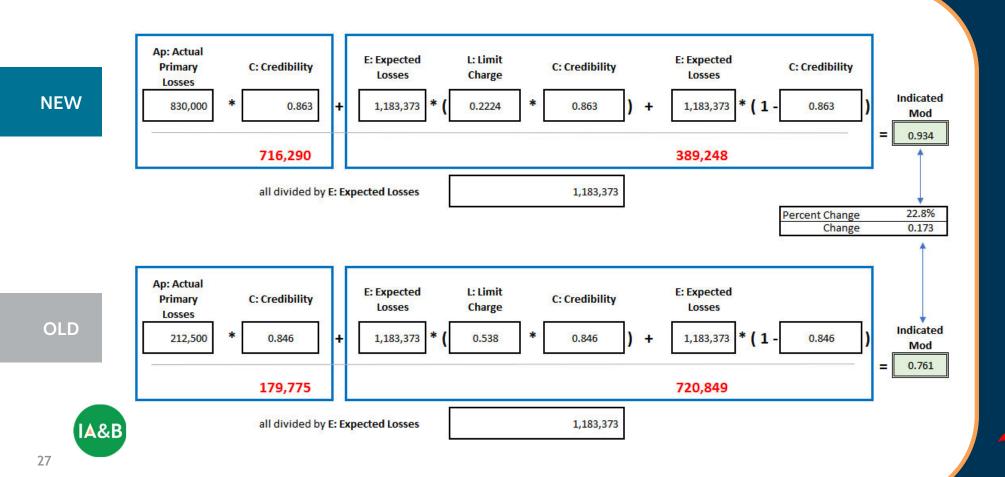
Ap: Actual E: Expected L: Limit E: Expected Primary C: Credibility C: Credibility C: Credibility Charge Losses Losses Losses Indicated 250,000 0.788 427,017 0.4068 0.788 + 427,017 0.788 **NEW** Mod = 0.994 227,411 197,000 all divided by E: Expected Losses 427,017 -3.2% Percent Change Change 0.033 Ap: Actual L: Limit E: Expected E: Expected C: Credibility C: Credibility Primary Losses Charge Losses Losses Indicated OLD 0.538 212,500 0.759 427,017 0.759 + 427,017 0.759 Mod = 1.027 161,288 277,280 all divided by E: Expected Losses 427,017

25

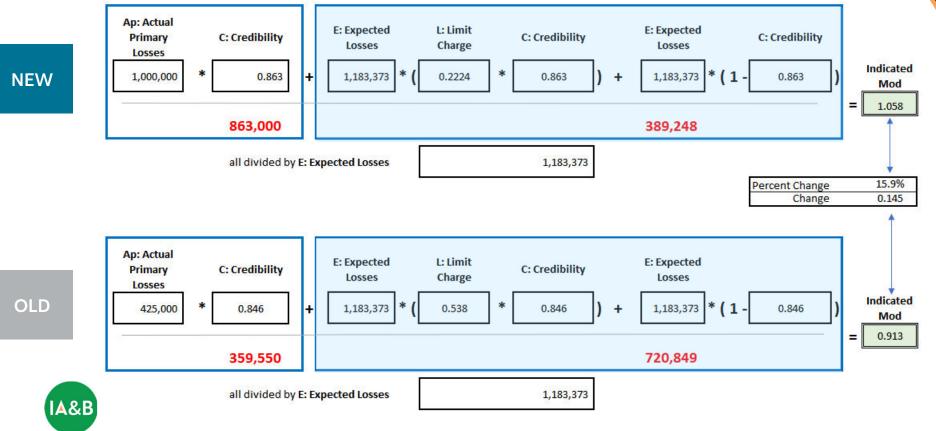
### New vs. Old - \$75,000 Split Point (5 x 100K Losses)



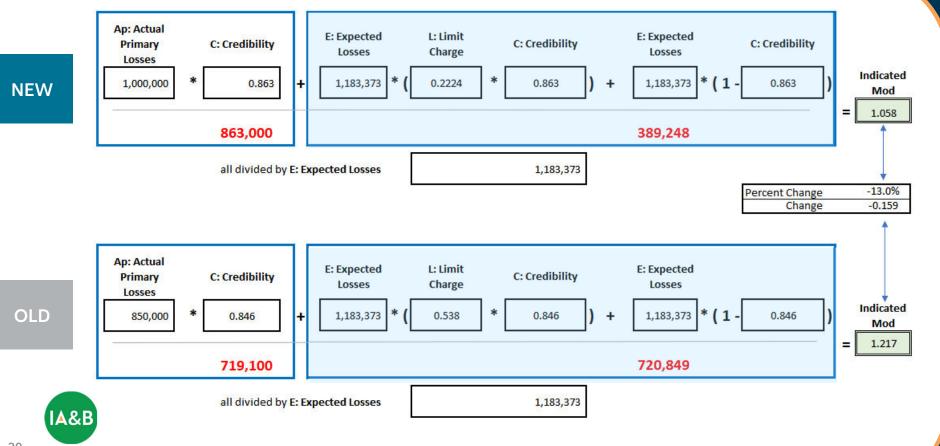
### New vs. Old - \$166,000 Split Point (5 x 200K Loss)

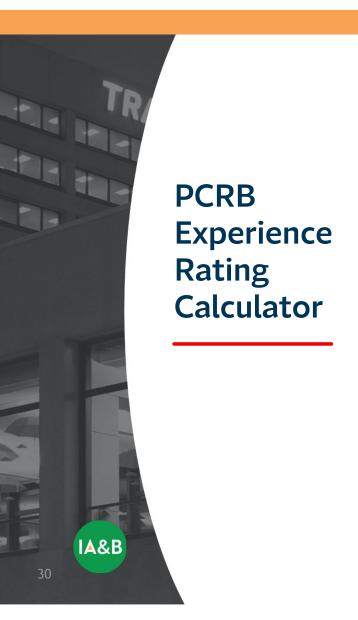


### New vs. Old - \$166,000 Split Point (10 x 100K Loss)

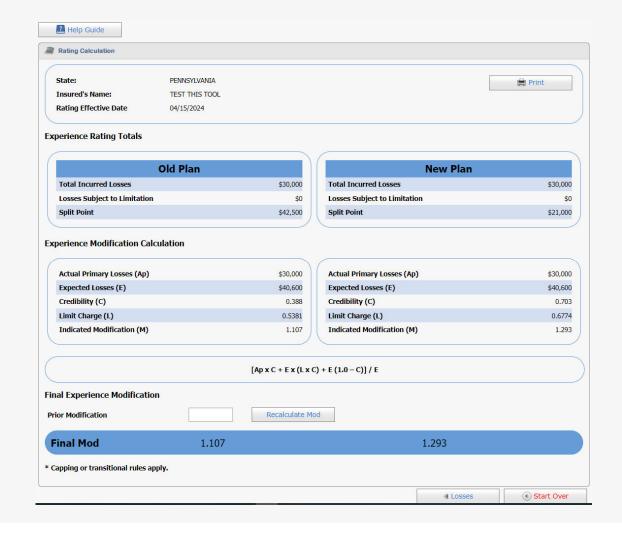


### New vs. Old - \$166,000 Split Point (20 x 50K Loss)





#### PCRB EXPERIENCE RATING









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### **Experience Rating Plan**

Experience rating is a procedure utilizing past developed experience of a risk to forecast or predict future experience. It is a mathematical method of modifying future premiums by comparing the actual incurred loss experience of a risk to the average expected loss experience for that risk's classification(s) during the experience period. Under experience rating, risk's maintaining favorable loss levels in prior years receive premium reductions (credit modifications) while those with poor past loss experience are charged increased premiums (debit modifications). Experience rating is a mandatory plan applying to all risks that qualify.

The information and resources on this page are intended to provide an overview of the proposed April 1, 2024 Pennsylvania Experience Rating Plan changes.

#### More resources

Rating Values

Circulars

Manuals

Filings

| Announcements                       | The latest news and announcements about the Pennsylvania Experience Rating Plan.  |  |
|-------------------------------------|---|--|
| Webinar Presentation and Recording  | Experience rating industry filing briefing webinar presentation from July 19, 2023 (including webinar video).                                       |  |
| Experience Rating Plan Fact Sheet 🛕 | Review Experience Rating Plan comparisons and a glossary of terms for the 2024 mod worksheet.   |  |
| Experience Rating Plan Pamphlet 🔝   | Overview of the changes in the Experience Rating Plan.  |  |
| Frequently Asked Questions (FAQ)    | Common questions and answers related to the Experience Rating Plan.   |  |
| Experience Modification Calculator  | Enables users to calculate an estimated experience modification factor and compare calculations between the old and new plans. (See User Guide (A)) |  |

