



# AllProvince Homeowners' Insurance Plan

Team 13

Lawrence Chen, Brandon Cheng, Serene Supakkul, Kevin Zhu

# Background

- ▶ AllProvince's homeowners' insurance line needs a 10% premium increase
- ▶ Management's expected credit score distribution was not realized

# Our Goal

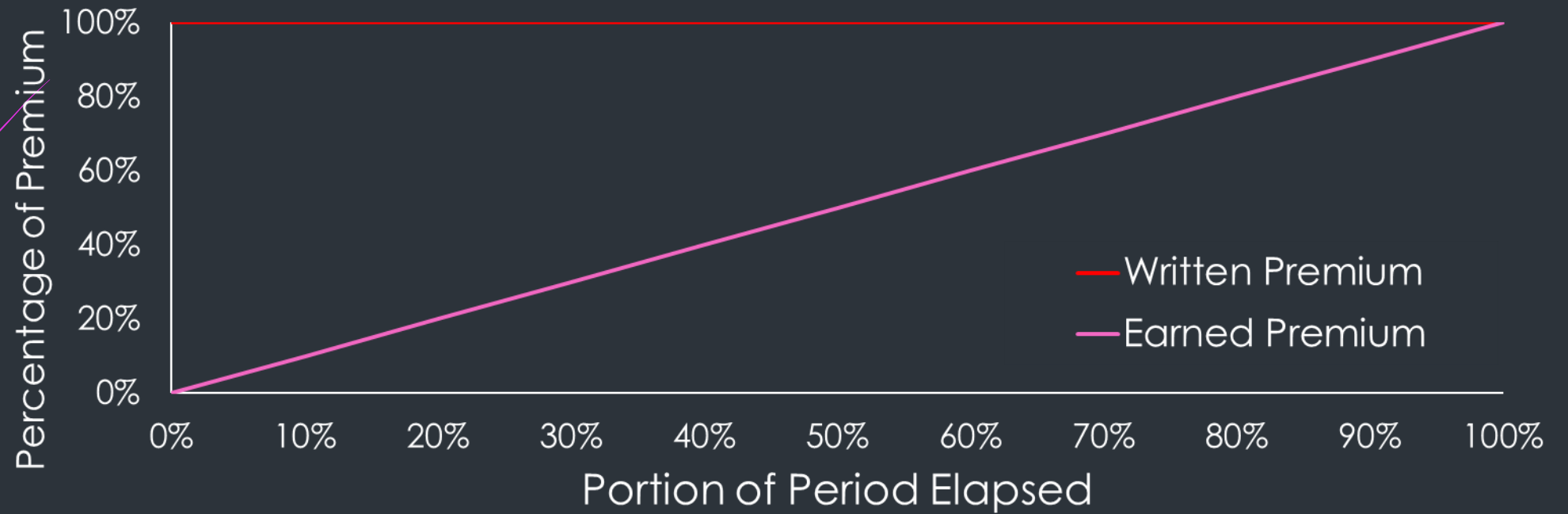
- Reevaluate pricing factors and base rate
- Address credit score concerns
- Minimize policy-level premium dislocation

# Agenda

- Rate Analysis
- Proposed Rates
- Business Concerns
- Other Considerations

# Premiums

## Written Premium vs Earned Premium



# Loss Ratios

$$\text{Paid Claims Loss Ratio} = \frac{\text{Paid Losses}}{\text{Earned Premiums}}$$

$$\text{Incurred Loss Ratio} = \frac{\text{Paid Losses} + \text{Case Reserve}}{\text{Earned Premiums}}$$

# Individual's Premium

Base Rate

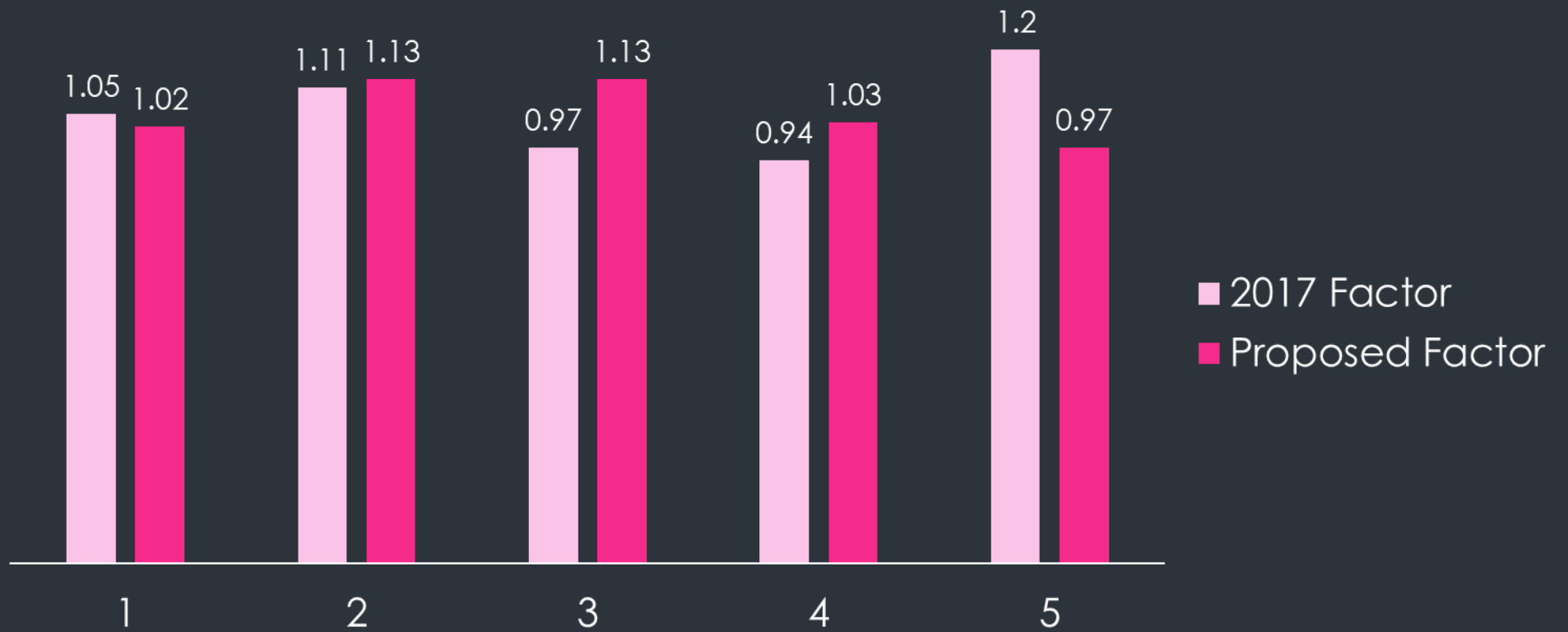
× Territory × CoverageA × AgeOfHome × CreditGroup

# Territory Factors

Territory	1	2	3	4	5	Wtd. Avg.
2017 Factor	1.05	1.11	0.97	0.94	1.20	
Loss Ratio	0.62	0.65	0.75	0.70	0.52	0.64



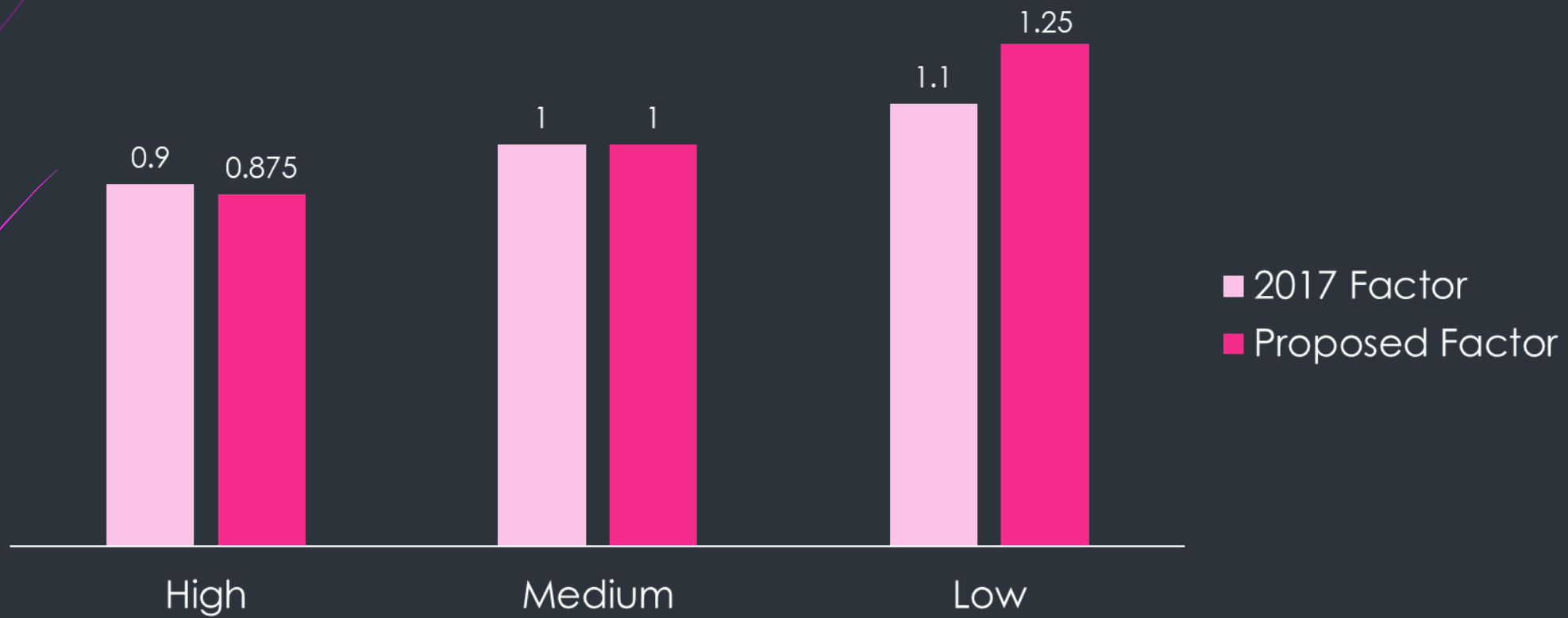
# Territory Factors



# Credit Factors

Credit Type	High	Medium	Low	Wtd. Avg.
2017 Factor	0.90	1.00	1.10	
Loss Ratio	0.25	0.54	1.08	0.64

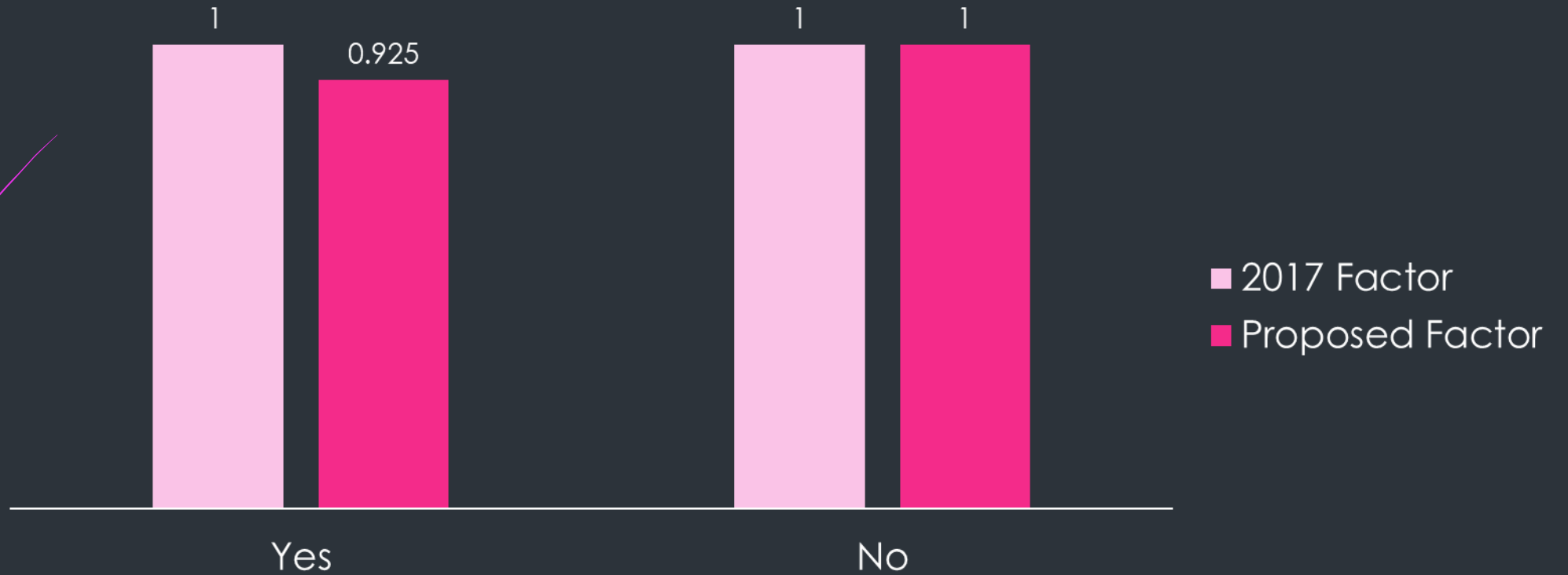
# Credit Factors



# Multipolicy Factors

Multipolicy	Yes	No	Wtd. Avg.
2017 Factor	1.00	1.00	
Loss Ratio	0.57	0.66	0.64

# Multipolicy Factors



# Base Rate Changes

- We want to achieve an average premium increase of 10%
- Assumption: population distribution stays similar to 2017

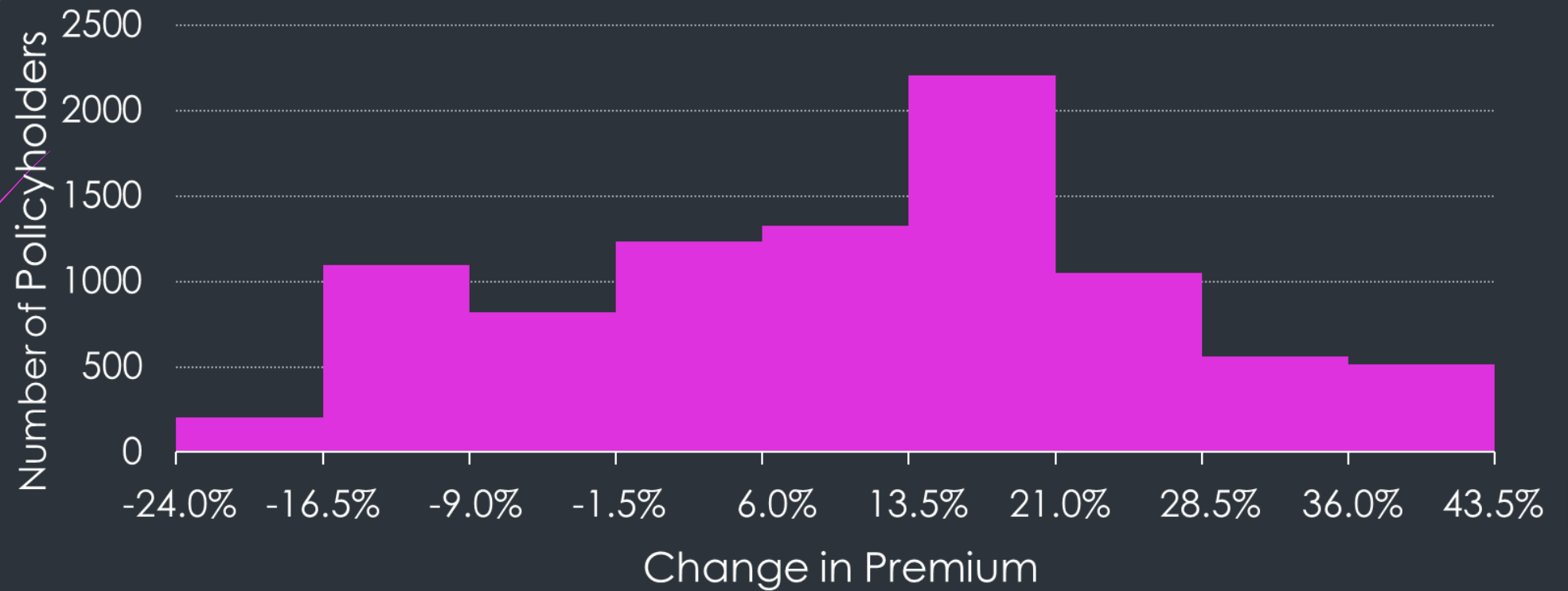
# Base Rate Changes

2017 Base  
Rate: \$800

7% Increase

2019 Base  
Rate: \$856

# Policy-Level Premium Dislocation





# Consequences

- Encourages high-credit, discourages low-credit
- Encourages people to sign more policies for discount

# Other Recommendations

- Add-on policies
- Deductibles
- Reinsurance
- Diversification

# Conclusion

- Adjust existing rate factors
- Add new rate factors
- Modify policies
- Consider purchasing reinsurance or diversifying

# Questions?