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ACTUARIAL REVIEW OF THE PROPOSED AMENDMENT TO THE MEDICAL PROFESSIONAL LIABILITY VENUE RULE

Pennsylvania State Senate Judiciary Committee

June 9, 2022

A business of Marsh McLennan

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1. Executive Summary

1.1. Purpose and Scope

The Pennsylvania State Senate Judiciary Committee (PA Senate) retained Oliver Wyman Actuarial Consulting, Inc. (Oliver Wyman) to provide an analysis of the change in cost that would result if the Civil Procedural Rules Committee of the Supreme Court of Pennsylvania rescinded subparagraph (a.1) of Rule 1006. In this report, we refer to Rule 1006, subparagraph (a.1), as the "Venue Rule." The Venue Rule currently limits venue in medical professional liability actions to the county where the cause of action arose.

In this report, unless otherwise indicated, "cost" refers to the indemnity, claims administration and defense expenses required to administer, and settled medical professional liability claims.

The specific scope of our review includes the following:

- Estimates of changes in medical malpractice claim costs if the Civil Procedural Rules Committee were to rescind the Venue Rule
- Downstream effects of the proposed recission include:
  - Changes in professional liability premiums
  - Accessibility of healthcare services, including the effect on the number of physicians practicing in the Commonwealth
  - The effect on the cost of medical care in the Commonwealth

This report includes several technical insurance and actuarial terms that may not be familiar to readers who do not regularly review actuarial reports.

1.2. Actuarial Findings

- Our models indicate statistically significant evidence that the enactment of the Venue Rule in 2002 resulted in claim filings shifting between counties.
- The issue of venue is most significant in the counties in southeastern Pennsylvania.
- Based on our experience providing actuarial consulting services, our professional judgment, and our discussion with medical professional liability stakeholders, we expect a reversal of the shift following the enactment of the Venue Rule.
- There has been a consolidation in healthcare service providers both in Pennsylvania and nationally since 2002 since the passage of the Venue Rule. In Pennsylvania, just under ½ of the occupied beds in Pennsylvania are affiliated with one of five health systems. Two of those systems (Jefferson/Main Line Health and the University of Pennsylvania Health System) have significant operations in Philadelphia County. Two others (UPMC and Allegheny Health Network) have substantial operations in Allegheny County. The fifth, Lehigh Valley Health Network, is based in Allentown. This consolidation will result in a more exacerbated reverse shift (as compared to 2002) if Civil Procedural Rules Committee were to rescind the Venue Rule.

Table 1 presents the estimated change in costs on a statewide basis and for several selected counties. (We present the changes for all counties on our Summary exhibit.) We present estimates under three scenarios reflecting various rates of case transfer from those counties to the most

plaintiff-friendly county in which the five largest health systems (individually) operate. At a minimum, we assume cases will revert to filing patterns prior to enactment of the Venue Rule. We provide the following examples to support interpretation.

- Columbia County - Our modeling indicates that were the Venue Rule to be rescinded, hospital professional liability costs in Columbia County would increase by 4.9%. Although none of the five largest health systems operate in Columbia County, we observed that prior to the Venue Rule, 38% of the claims that would have been filed in Columbia County were filed in Schuylkill County. The data from commercial insurers included in the Medical Liability Monitor Rate survey indicates that costs in Schuylkill County are 13% higher than Columbia County. The estimates therefore do not vary in our three scenarios and the projected change is 4.9% (38% × 13%).
- Montgomery County – Prior to 2002, we estimate that 74% of post-Venue Rule Montgomery County cases would have been filed in Philadelphia County. We identified that 35% of Montgomery County beds are associated by Main Line Health. Because 35% is lower than 74%, there is no difference between our low, central and high estimates as all scenarios assume that 74% of cases will move to Philadelphia.
- Potter County – 100% of the beds in Potter County are from UPMC facilities. We estimate costs in Allegheny County to be 10.6% greater than Potter County. As such, our range of cost changes is 5.3% (low, 50% × 10.6%), 8.0% (central, 75% × 10.6%) and 10.6% (high, 100% × 10.6%).

These scenarios correspond to the low end of our range of estimates, our central estimate and the high end of our range of estimates.

Table 1: Estimated Change in Costs

	Hospital Professional Liability			**Physician Professional Liability**		
	50% Case Transfer (Low)	**75% Case Transfer (Central)**	**100% Case Transfer (High)**	**50% Case Transfer (Low)**	**75% Case Transfer (Central)**	**100% Case Transfer (High)**
Statewide	+3.1%	+3.9%	+4.7%	+4.9%	+6.0%	+7.2%
Selected Counties						
Lancaster	+36.3%	+54.5%	+72.7%	+41.0%	+61.5%	+82.0%
Lehigh	+6.0%	+9.0%	+12.1%	+6.4%	+9.6%	+12.8%
Lycoming	+5.1%	+7.7%	+10.2%	+12.6%	+18.9%	+25.2%
Montgomery	+14.7%	+14.7%	+14.7%	+49.2%	+49.2%	+49.2%
Venango	+5.3%	+8.0%	+10.6%	+13.9%	+20.8%	+27.8%
Washington	+7.7%	+7.7%	+7.7%	+0.0%	+0.0%	+0.0%

Our modeling indicates that there will be significant variation in changes in costs by county. Specifically, the cost increases in counties where the predominant health system is attached to Philadelphia County may be significant. Within those counties, the exposure of those health systems will be significantly greater than health systems without attachment to Philadelphia County.

We caution that our estimates may be understated if the plaintiff bar is successful in developing theories to bring cases where the health system has only a remote attachment to Philadelphia County into the higher-cost jurisdiction.

In addition, our estimates may be further understated because they don't consider claims changing jurisdiction could potentially have higher average severities since more complicated medical procedures are often performed at larger health systems.

1.3. Report Organization

- In Section 2, we present background on the current and proposed Venue Rule and other legislative reforms.
- In Section 3, we summarize the data used in our analysis.
- In Section 4, we present the thesis that we analyzed.
- In Section 5, we present the views of various stakeholders on the proposed change in Venue Rule.
- In Section 6, we discuss the consolidation of hospitals and health systems both nationally and in the Commonwealth.
- In Section 7, we present our analysis and estimate the change in medical malpractice claim costs across the Commonwealth if the Venue Rule were rescinded.
- Section 8 discusses the downstream effects that could result from the change in the Venue Rule.

* * * * *

We developed the estimates in this report in accordance with the applicable Actuarial Standards of Practice issued by the Actuarial Standards Board.

Please direct all questions related to this report to the undersigned.

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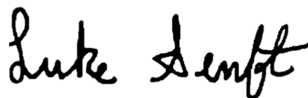

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2. Background

2.1. 2002 Tort Reform

In 2002, the Pennsylvania legislature passed the Medical Care Availability and Reduction of Error (Mcare) Act (Act of Mar. 20, 2002, PL 154, No. 13). The Mcare Act included the following policy declaration:

> medical professional liability insurance has to be obtainable at an *affordable and reasonable cost* in every geographic region of this Commonwealth.
> *emphasis added* (Chapter 1, Section 101)

The Mcare Act included a provision on consideration of **Collateral Sources.** Under this provision, a "claimant in a medical professional liability action is precluded from recovering damages for past medical expenses or past lost earnings incurred to the time of trial to the extent that the loss is covered by a private or public benefit or gratuity that the claimant has received prior to trial." (40 Pa. Stat. § 1303.508)

Additionally, in conjunction with the Mcare Act, the Supreme Court established Rule 1042.3, the Certificate of Merit Rule and Rule 1006, the Venue Rule.

The **Certificate of Merit Rule** requires that "an appropriate licensed professional has supplied a written statement that there exists a reasonable probability that the care, skill or knowledge exercised or exhibited in the treatment, practice or work that is the subject of the complaint, fell outside acceptable professional standards and that such conduct was a cause in bringing about the harm." (231 Pa. Code § 1042.3)

The **Venue Rule** requires that "Except as otherwise provided by subdivision (c), a medical professional liability action may be brought against a health care provider for a medical professional liability claim only in a county in which the cause of action arose." (231 Pa. Code § 1006.)

Before 2002, Pennsylvania law required medical professional liability claims to be filed against individuals in a county in which the defendant may be served, the cause of action arose, or a transaction or occurrence out of which the cause of action arose took place. The current Venue Rule came into effect in October 17th, 2002.

In this report, we focus on the proposed Venue Rule change. However, consideration of collateral sources and the Certificate of Merit Rule influences the data we reviewed. We consider this influence in the models presented.

2.2. Proposed Rule Change

Under subparagraph (a.1) of the Pennsylvania Supreme Court Rules of Civil Procedure Rule 1006, the current Venue Rule for medical malpractice cases requires plaintiffs to file suits in the county where their injury occurred unless that injury occurred outside the Commonwealth of Pennsylvania. Other (i.e., non-medical malpractice) civil actions have a wider latitude as to the venue for the lawsuit.

As described in the NOTICE OF PROPOSED RULEMAKING:

> The Civil Procedural Rules Committee is proposing amendment of Rule 1006 to rescind subdivision (a.1), which limits venue in medical professional liability actions to the county in which the cause of action arose. The current rule provides special treatment of a particular class of defendants, which no longer appears warranted. Data compiled by the Supreme

Court on case filings on medical professional liability actions (http://www.pacourts.us/news-andstatistics/research-and-statistics/) indicates that there has been a significant reduction in those filings for the past 15 years. Additionally, it has been reported to the Committee that this reduction has resulted in a decrease of the amount of claim payments resulting in far fewer compensated victims of medical negligence. The proposed rescission of subdivision (a.1) is intended to restore fairness to the procedure for determining venue regardless of the type of defendant. The proposal would apply to medical professional liability actions filed after the effective date of the amended rule. Conforming and stylistic amendments have also been made to Rules 2130, 2156, and 2179.

3. Data

In developing this report, we considered the following sources of data:

- The February 2020 Legislative Budget and Finance Committee Report, A Study of the Impact of Venue for Medical Professional Liability Actions
- Mcare annual reports and 2021 Assessment Manual
- Interviews with various stakeholders as described in Section 5
- Data from the Pennsylvania Census Bureau, such as population by county
- Exposure data, including physician count and occupied beds by hospital and county from the Pennsylvania Department of Health
- The National Practitioner's Data Bank, which is a detailed loss run of physician malpractice claims in the United States
- The Milliman report on the Venue Rule, dated February 20, 2019.
- Verdict data from Guy Carpenter[1]

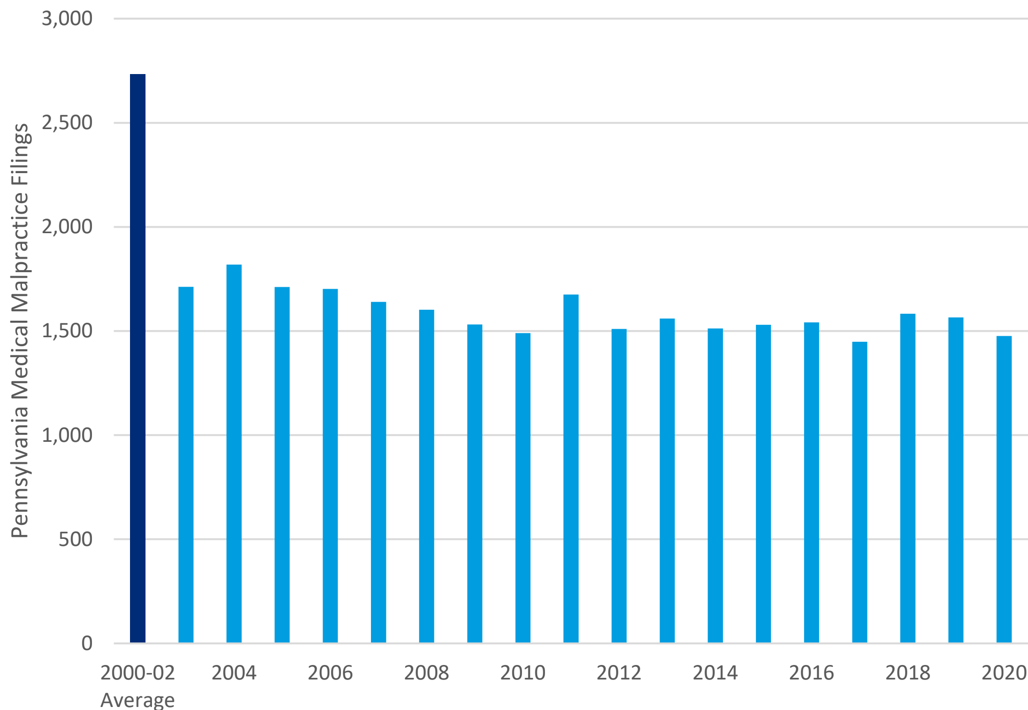
[1] Oliver Wyman and Guy Carpenter are separately managed businesses of Marsh McLennan. Guy Carpenter's principal business is as an intermediary on reinsurance placements

4. Thesis

4.1. Shifting of Claims Due to the Introduction of the Venue Rule

The introduction of reforms described in Section 2.1 resulted in a dramatic change in the number of medical professional liability cases. In Figure 1, we present a history of case filings from statistics reported by the Unified Judicial System of Pennsylvania[2].

Figure 1: History of Statewide Case Filings



The case filing data is also available by county. In Figure 2 and Figure 3, we present the data for Philadelphia County and Montgomery County.

[2] https://www.pacourts.us/news-and-statistics/research-and-statistics/medical-malpractice-statistics

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Figure 2: History of Philadelphia County Case Filings

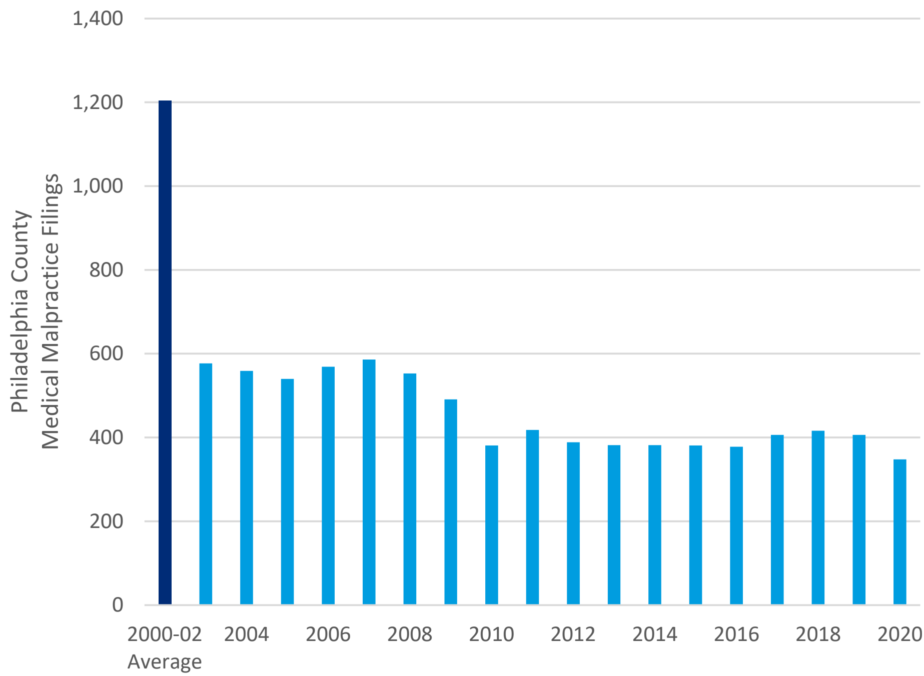
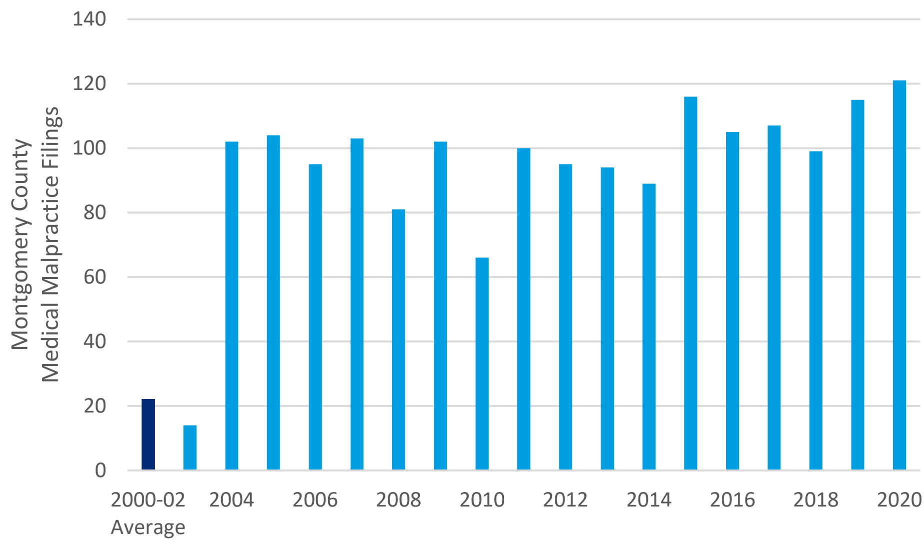


Figure 3: History of Montgomery Case Filings



We observe a decrease in cases filed in Philadelphia County, similar to statewide trends, but an *increase* in cases filed in Montgomery County. **A reasonable conclusion from this data is that the introduction of the Venue Rule shifted cases from Philadelphia County to Montgomery County.**

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The shifting of cases would not have cost implications if there were no differences in cost between counties[3]. We reviewed the 2021 Mcare Assessment Manual to understand whether such differences exist. We review cost differences in the following section.

4.2. Cost Differences Between Counties

A Review of Mcare Surcharges

In Figure 4, we present the sum of the prevailing primary premium and Mcare assessment from Exhibit 1 of the 2021 Mcare Assessment Manual for:

- "Class 015, Physicians - No Surgery" which includes low-risk specialties such as family practice and internal medical physicians (top panel), and
- "Class 080, Surgeons – Specialists" which includes high-risk specialties such as "Obstetrics – Major Surgery" (bottom panel).

Figure 4: Prevailing Primary Premiums and Mcare Assessments, Selected Specialties

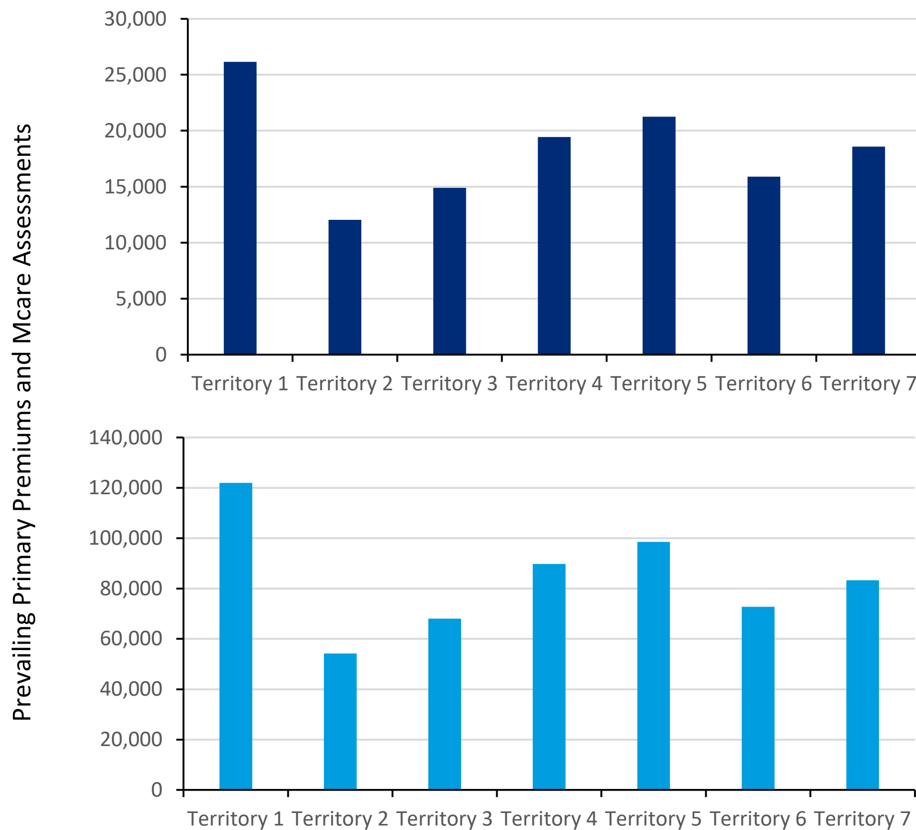

Figure 4 Territory Definitions
Territory 1: Philadelphia (51)
Territory 2: Remainder of State (01, 05, 06, 08, 10-12, 14, 16, 18, 21, 24, 27-32, 34, 36, 38, 41, 42, 44, 47, 49, 50, 52, 53, 55-62, 64, 66, 67)
Territory 3: Allegheny (02), Armstrong (03), Beaver (04), Carbon (13), Clearfield (17), Dauphin (22), Jefferson (33), Washington (63)
Territory 4: Delaware (23), Fayette (26), Luzerne (40), Mercer (43)
Territory 5: Lackawanna (35)

[3] Of course, we wouldn't expect claims to shift between counties if doing so were not advantageous to one of the parties involved in the litigation.

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Territory 6: Bucks (09), Chester (15), Columbia (19), Crawford (20), Erie (25), Lawrence (37), Lehigh (39), Monroe (45), Montgomery (46), Northampton (48), Schuylkill (54), Westmoreland (65)
Territory 7: Blair (07)

We observe a significant difference in the costs for Philadelphia compared to the other areas of the state.

In Figure 5, we present the prevailing primary premium rates per occupied bed from Exhibit 2 of the 2021 Mcare Assessment Manual.

Figure 5: Prevailing Primary Premium Rates per Occupied Bed

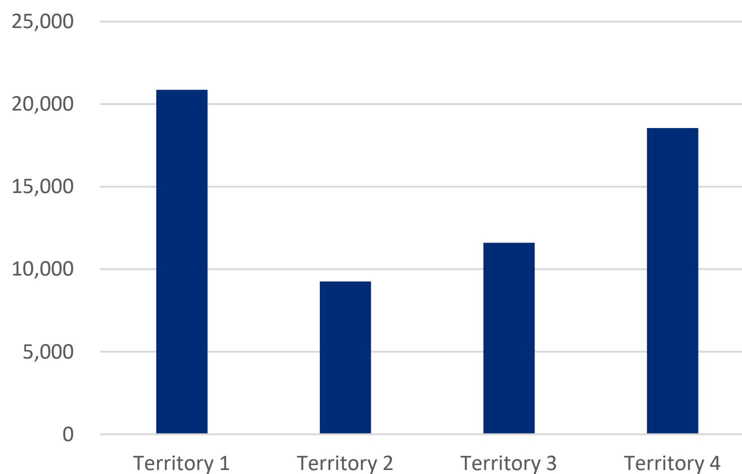


Figure 5 Territory Definitions
Territory 1: Delaware (23), Philadelphia (51)
Territory 2: Remainder of State
Territory 3: Allegheny (02), Crawford (20), Erie (25), Lackawanna (35), Lawrence (37), Luzerne (40), Mercer (43)
Territory 4: Bucks (09), Chester (15), Montgomery (46)

In Figure 6, we observe a significant difference in the costs for Philadelphia (Territory 1) and the surrounding counties (Territory 4) compared to the other areas of the state.

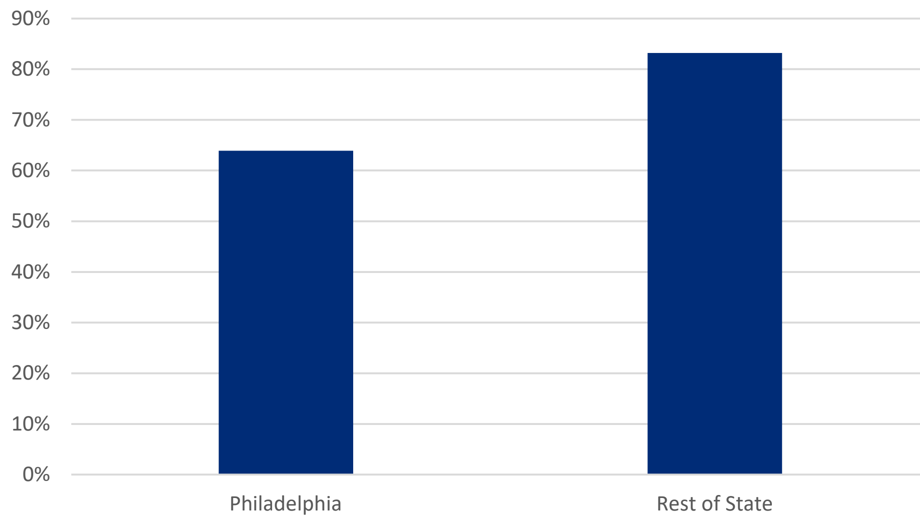
State Supreme Court Data

In addition, we reviewed the distribution of defense verdicts and case settlements reported by the Unified Judicial System of Pennsylvania[45].

In Figure 6, we compare the rate of defense verdicts in Philadelphia and the remainder of the Commonwealth.

[4] https://www.pacourts.us/news-and-statistics/research-and-statistics/medical-malpractice-statistics
[5] We used the Milliman Report on the Venue Rule which presented the distribution of jury verdicts and awards from 2000 to 2017 supplement with data from 2018 and 2019 data reported by the Unified Judicial System of Pennsylvania. We did not consider 2020 data due to the effect of the COVID-19 pandemic.

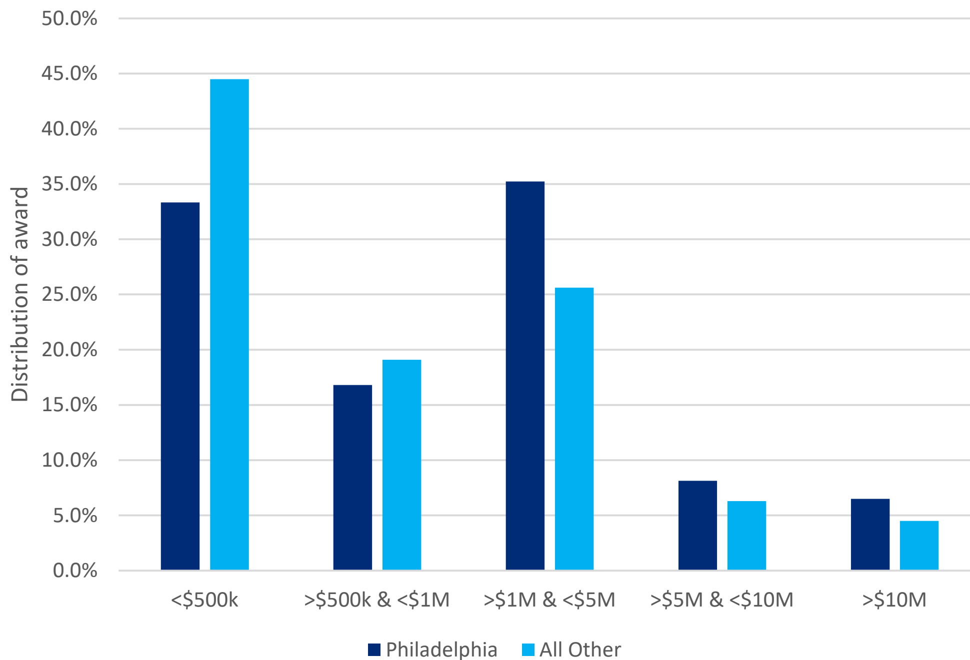
Figure 6: Percentage of Defense Verdicts



We observe a significant difference in the percentage of defense verdicts won in Philadelphia, 63.9%, compared to the rest of Pennsylvania, 83.2%.

Figure 7 presents the distribution of awards for cases that did not result in a defense verdict.

Figure 7: Distribution of Case Settlement



Philadelphia has a lower percentage of awards less than $1 million, 50.1%, compared to the rest of Pennsylvania, 63.6%, showing that cases are settling higher in Philadelphia county than the rest of the state.

A reasonable conclusion from this data is that parties responsible for claim payments have concluded that there is a difference in costs based on geography and that their conclusions are consistent with the claim experience.

4.3. Report Thesis

These conclusions would indicate that the introduction of the Venue Rule affected medical professional liability costs. And logically, the rescindment of the Venue Rule would have the opposite effect as the introduction. In this report, we present a model to estimate the effect.

5. Medical Professional Liability Stakeholder Views

5.1. Stakeholders

To understand the importance of the venue, we interviewed several medical professional liability stakeholders. These stakeholders include defense attorneys, plaintiff attorneys, health system risk managers, and third-party claims administrators. The stakeholders that we interviewed represented stakeholders in various regions of the Commonwealth. We describe the roles of these stakeholders in Table 2.

Table 2: Medical Professional Liability Stakeholder

Stakeholder	Role
Plaintiff Counsel	Lawyer(s) who regularly represent people that are suing for damages.
Defense Counsel	Lawyer(s) who specialize in defending individuals or organizations charged with an offense.
Health System Risk Manager	Risk Managers oversee a risk management program that can include clinical, financial, legal, and general business aspects. They deal with risk financing as well as incident and claim management.
Insurer	Insurers agree to pay for the claim in exchange for a premium.
Employed Doctors	Employed doctors are generally covered under the hospital or health systems insurance policy. These physicians are employed by a hospital or health system.
Independent Doctors	Physicians in private practice are required to purchase insurance to practice.
Reinsurer	A reinsurer provides financial protection to insurers by providing coverage for claims that exceed a specified amount.
Mcare Fund	A fund established to ensure reasonable compensation for medical professional liability claims against healthcare providers for losses in excess of primary insurance coverage.
Claims Administrator	A claims administrator specializes in the evaluation of a case. The claims administrator may be independent (referred to as a third-party administrator) or an insurer or health system employee.

5.2. Stakeholder Views

All stakeholders considered venue a significant factor in evaluating a case—most listed venue as one of the primary factors after liability issues. We present additional comments below.

Defense Attorney

Defense attorneys indicated that they will always attempt to move a case from major cities to suburban, exurban, and rural areas. There is a focus on settlement for cases in urban venues to minimize risk.

The stakeholders we interviewed indicated that a 30-mile difference could exponentially magnify the value of a case and the risks involved.

In the past 10-15 years, there has been a slight improvement in the composition of jurors in Philadelphia. Specifically in Center City, younger, educated residents and empty nesters have moved into the city. However, they noted that this jury pool might also seek social equities.

Defense attorneys also noted a difference in process between Philadelphia and surrounding counties. In Philadelphia, judges are often assigned only days before a jury. The case assignment process in the surrounding counties, with cases assigned at filing, is more likely to result in faster and more reasonable outcomes.

Plaintiff Attorney

Venue is one of the first items plaintiff attorneys review when reviewing medical malpractice cases. There is a perception that verdicts are higher in the city. They also noted the change in Center City, Philadelphia demographics.

One of the plaintiff attorneys we interviewed indicated that limitations on recovering damages with the additional restrictions enacted in 2002 have resulted in a lower acceptance rate in medical malpractice cases due to the lower probability of success. A plaintiff attorney indicated to us that while venue is important, there are significant structural realities unrelated to venue that (which are not in scope for this report) limit the percentage of cases litigated.

We note that plaintiff attorneys are often compensated from a contingency fee. The attorney receives a percentage of the settlement if they win. If they lose the case, the plaintiff counsel receives nothing.

At times, an attorney accepts the case and refers to another attorney who has more experience with medical malpractice. The attorney accepting the case will typically receive a portion of the total fee paid to the plaintiff counsel.

Health System Risk Manager

Venue is of more significant concern in the southeast region of the state and is less of an issue in other areas. From a reserving and settlement perspective, severity is discounted in counties other than Philadelphia. The range of expected values is significantly greater in Philadelphia relative to the surrounding counties.

The Venue Rule has historically benefitted health system risk managers in the counties surrounding Philadelphia. However, a risk manager also noted severity seems to be increasing in the surrounding counties due to higher economic values resulting from higher wages.

A health system risk manager noted that if a plaintiff attorney did *not* attempt to transfer a case to Philadelphia, it could be viewed as legal malpractice.

The risk manager also commented on the demographic changes in Center City, Philadelphia, noting an increase in defense verdicts.

Third-Party Claims Administrator

Third-party claims administrators (TPAs) evaluate venue and plaintiff counsel equally after considering the actual injury. Cases in Philadelphia are more likely to receive a plaintiff verdict, and these cases are worth more than in other counties. Cases in Philadelphia have a greater likelihood of an excess verdict, so TPAs are willing to pay more in settlement than in other counties with a chance for a defense verdict. Ultimately, TPAs do not want to expose a case to jury valuation in Philadelphia,

so they will often resolve a case via alternative dispute resolutions or pay a significant amount of money to move the case out of Philadelphia.

The TPA commented that if the Venue Rule were rescinded, "connectedness" resulting from the internet would allow more plaintiffs to establish minimum contact with Philadelphia.

Direct Reinsurance Broker

Pennsylvania is often treated as a single territory in pricing reinsurance as large verdicts occur throughout the state. That is, primary and Mcare coverage are more affected by the Venue Rule than excess coverages.

Table 3 presents medical malpractice jury verdicts greater than $10 million in Pennsylvania since 2007.

Table 3: Pennsylvania Cases

Year	County	Hospital or Physician	Case	Amount Awarded by Jury	Comments
2010	Lehigh County	Nurse & Hospital	Various v. Cullen, Charles; St. Luke's Hospital	$95,000,000	Wrongful death (not medical malpractice)
2012	Philadelphia County	Hospital & Physician	Nicholson-Upsey v. Touey, et. al.	$78,500,000	Failure to meet standard of care (birth injury)
2007	Allegheny County	Hospital, Physician, Midwife	Jordan v. West Penn Hospital et. al.	$57,623,113	Negligent care (birth injury)
2013	Lehigh County	Hospital & Physician	Crowell v. Dr. Ronald Kirner, St. Luke's University Hospital	$55,000,000	Negligent care (birth injury)
2018	Cambria County	Hospital & Physician	Harker, Baldacchino v. Dr. John Chan; Conemaugh Memorial Medical Center	$47,000,000	Negligence (birth injury)
2016	Philadelphia County	Hospital and Physician	Tate v. Hospital of the University of Pennsylvania	$44,100,000	Negligence
2013	Philadelphia County	Hospital & Physician	Fortson v. Dr. Doris Chou, Dr. Kwandaa Roberts, Chestnut Hill Hospital, Hospital of the University of Pennsylvania	$42,900,000	Negligent care (birth injury)
2017	Franklin County	US Government (federally funded clinic)	Late and Armolt v. US Government (federally funded Keystone Women's Health Center)	$41,600,000	Negligence (birth injury)
2018	Delaware County	Hospital & Physician	Grayson Charlton v. Dr. Steven Troy; Crozer-Keystone Health System; Health Access Network; Delaware County Memorial Hospital	$40,258,000	Negligence (birth injury)

Year	County	Hospital or Physician	Case	Amount Awarded by Jury	Comments
2014	Chester County	Hospital & Nurses	Ciechoski (Proffitt) v. Phoenixville Hospital; Christine Winter; Lana Jones-Sandy	$32,800,000	Negligence
2011	Northampton County	Hospital	Smoyer v. St. Luke's Hospital, et. al.	$23,120,958	Negligence
2011	Philadelphia County	Hospital	Shaughnessy v. Roxborough Hospital; Solis Healthcare	$23,000,000	Negligence
2015	Philadelphia County	Physician, Hospital and Anesthesia Group	Drainer v. Dr. Hagop L. DerKrikorian, Riddle Memorial Hospital, and Society Hill Anesthesia Consultants	$21,800,000	Negligence
2011	Erie County	Hospital	Graham v. Hamot Medical Center	$21,573,993	Negligent care (birth injury)
2011	Philadelphia County	Hospital	Campbell v. Temple University	$21,325,179	Negligence
2008	Philadelphia County	Hospital & Physician	Fledderman v. Jefferson Health System; Glunk, Richard; Destephano, Edward	$20,525,000	Wrongful death
2008	Lackawanna County	Hospital & Physician	White v. Community Medical Center; Behlke, Richard	$20,500,000	Negligent care (birth injury)
2018	Luzerne County	Hospital & Physicians	Hughes v. Wilkes-Barre General Hospital; Dr. Lori DelGaudio; Dr. Teresa Baseski	$19,500,000	Negligence (birth injury)
2013	Philadelphia County	Hospital & Physician	Pomroy v. Hospital of University of Pennsylvania, Dr. Ernest Rosato	$19,500,000	Negligence
2011	Philadelphia County	Hospital & Oral Surgeon	Ellison v. Hospital of the University of Pennsylvania	$17,544,805	Negligence (tooth extraction)
2012	Centre County	Psychologist	E.L. v. Metter, Julian B. PH.D. and G.L.	$16,500,000	Medical malpractice - Psychology - Patient accuses doctor of implanting memories of rape and abuse by satanic cult during treatment
2019	Washington County		McLaughlin v. Washington County Health System, Dr.'s Berkley and Simmons	$15,000,000	Negligence

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Year	County	Hospital or Physician	Case	Amount Awarded by Jury	Comments
2017	Clearfield County	Hospital & Physician	Welker & Brinkley v. Dr. Thomas Carnevale; Clearfield Hospital	$14,480,000	Negligence (birth injury)
2013	Allegheny County	Hospital	Rettger v. UPMC Shadyside	$14,200,000	Wrongful death (original verdict in 2011 was for $10M, hospital appealed, upon retrial judges awarded $14.2M)
2012	Philadelphia County	Hospital & Physician	Stokes as Guardian ad litem for Sharon Phillips v. Temple University Hospital, Inc., et. al.	$12,876,070	Negligence
2015	Delaware County	Physician and Radiologist	Del Grosso v. Dr. Hussam Yacoub, Dr. Ben-Zion Friedman	$12,500,000	Negligence
2019	Bucks County		Giberson v. Obstetrics and Gynecology, Alderfer Kupersmith Associates, Grand View Medical Center, Drs et al.	$11,000,000	Negligent care (birth injury to mother)
2020	Blair County		Miller v. Tyrone Hospital	$10,800,000	Negligence
2015	Philadelphia County	Hospital	Tillery v. Children's Hospital of Philadelphia	$10,100,000	Failure to diagnose
2019	Lehigh County		Kline v. St. Luke University Health Network, Drs Nguyen, Stromski	$10,000,000	Failure to diagnose
2017	Luzerne County	Clinic	Shimko v. Geisinger-Kistler Clinic	$10,000,000	Failure to diagnose
2011	Allegheny County	Hospital	Rettger v. UPMC Shadyside	$10,000,000	Wrongful death

Of the 32 jury verdicts listed, 11 were Philadelphia cases. Of the ten largest amounts awarded, three were from Philadelphia cases. This data indicates that many large jury verdicts are occurring outside of Philadelphia County.

Section 6 presents a consolidation of hospitals and health systems nationally and in the Commonwealth.

6. Health Care Consolidation

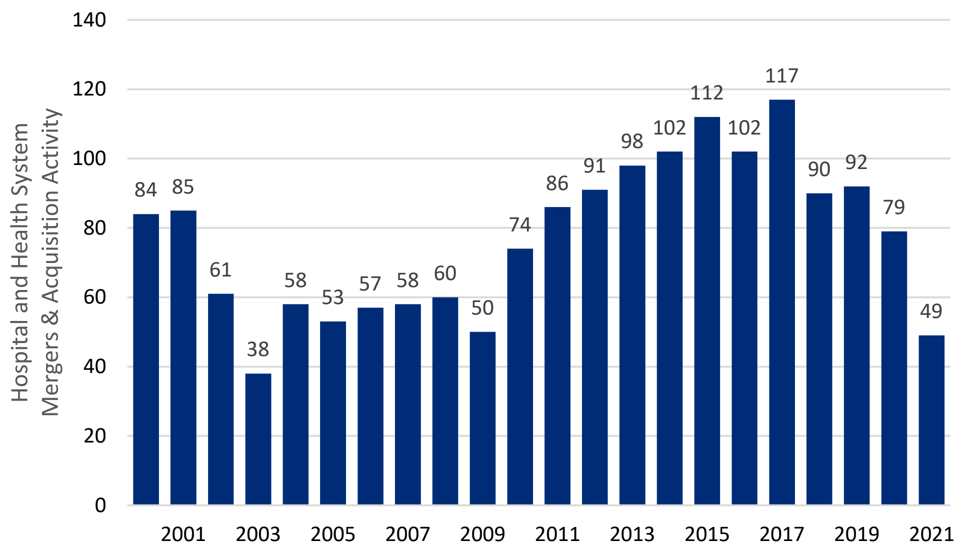
6.1. History

Mergers and acquisitions have disrupted the healthcare industry nationally. The US healthcare system had experienced two phases of partnerships[6]:

- In **Phase One**, which peaked in the 1980s and 1990s, independent hospitals combined into healthcare systems to contain rapidly rising healthcare costs and respond to the new demands of managed care.
- In **Phase Two**, which peaked in the 2010s (following the passage of the Affordable Care Act), healthcare systems combine to attain or accelerate access to critical resources to prepare for population health, tighter integration of healthcare services, and assumption of risk.

Hospital consolidation in Pennsylvania aligns with national trends. There were 117 transactions announced in 2017, the highest number in recent history, with Pennsylvania (14 deals) being the most active state. Specifically, the University of Pennsylvania Health System, UPMC Pinnacle, and Reading Health System acquired multiple hospitals from community health systems in 2017. Though the number of transactions through 2021 is lower, with fewer independent community hospitals seeking partnerships, the size of transactions is up.

Figure 8: Hospital and Health System M&A Activity, 2000-2021



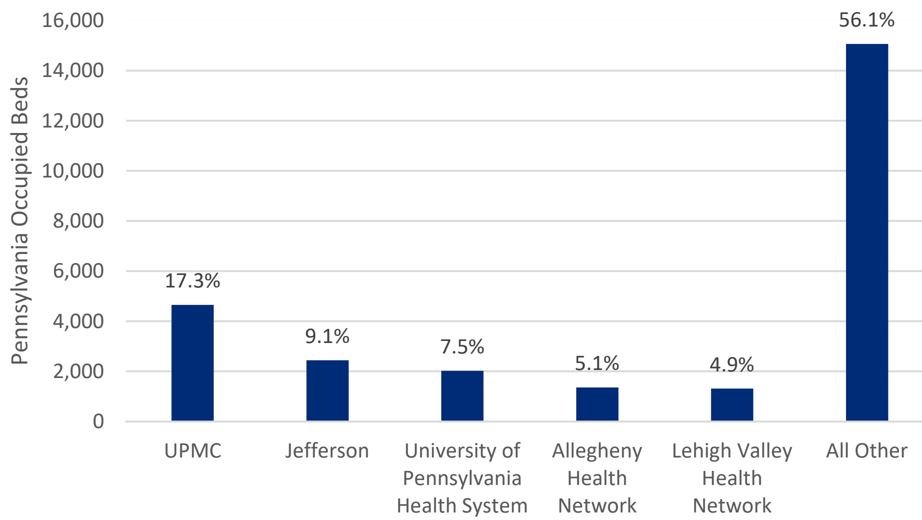
Source: Kaufman, Hall & Associates, LLC

6.2. Current State of Health Care Consolidation in Pennsylvania

Five health systems comprise approximately 45% of the total occupied beds (OBEs) in Pennsylvania. UPMC, Jefferson Health, University of Pennsylvania Health System, Allegheny Health Network, and Lehigh Valley Health Network account for 11,792 of the state's 26,856 OBEs.

[6] https://www.kaufmanhall.com/insights/research-report/2021-ma-review-new-phase-healthcare-partnerships

Figure 9: Distribution of Pennsylvania Health Systems by Occupied Beds



Source: Compiled using 2020 data from the Pennsylvania Department of Health – Division of Health Informatics

UPMC (4,649 OBEs) and Allegheny Health Network (1,360 OBEs) are located in Allegheny County and comprise 80.4% of the county's 4,694 occupied beds.

Jefferson Health (2,444 OBEs) and the University of Pennsylvania Health System (2,027 OBEs) are located in Philadelphia County and comprise 56.9% of the county's 4,781 occupied beds.

Lehigh Valley Health Network (1,312 OBEs) is predominantly located in Lehigh County and makes up 61.7% of the county's 1,604 occupied beds.

Figure 10 and Figure 11 present the distribution of occupied beds for the top five health systems and those outside the top five, respectively. (Counties in grey do not have any occupied beds in that category.)

Figure 10: Top 5 Pennsylvania Health Systems - Occupied Beds

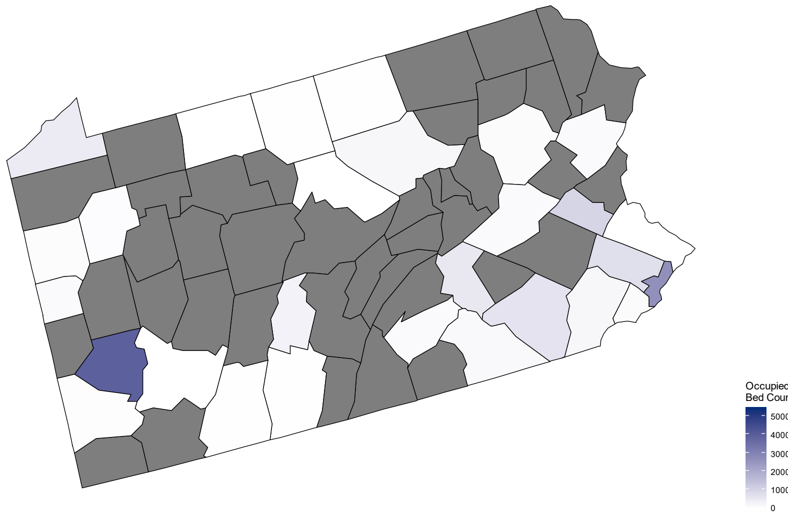
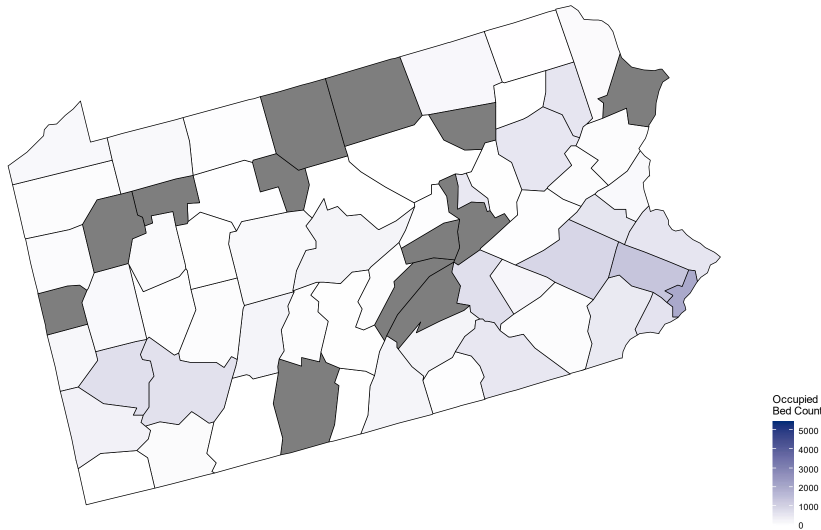


Figure 11: All Other Pennsylvania Health Systems - Occupied Beds



7. Analysis

7.1. Overview

In the initial phase of our analysis, we test our thesis that claims would shift between counties if the Civil Procedures Rules Committee rescinded the Venue Rule. To test this thesis, we compared (i) the observed 2000-02 average and (ii) the modeled 95% prediction interval for the average number of claims between 2000 and 2002 using data from 2003 and subsequent.

After testing the thesis, we incorporate the effect of consolidation.

7.2. Testing the Thesis

We modeled the prediction interval using linear regression with log(counts) as the response variable and time (year) as the predictor. We would generally expect county trends to mirror statewide trends, i.e., decreases post-reform. However, since we have not normalized the filing data for population growth, the fitted models include population changes.

Generally, we fit the model to claims observed between 2005 and 2020 (the calibration period) as we observed noisy data for 2003 and 2004 in several counties. We attribute this noise to adaptation to the changes in the rules.

In some cases, we noted that the data continued to be noisy beyond 2005, and we selected different calibration periods based on our professional judgment.

We then assigned each county to one of the following groups:

Recission Gainers: The observed counts for 2000-02 were above the upper bound of the prediction interval. We expect these counties potentially to gain claims if the Venue Rule were rescinded.

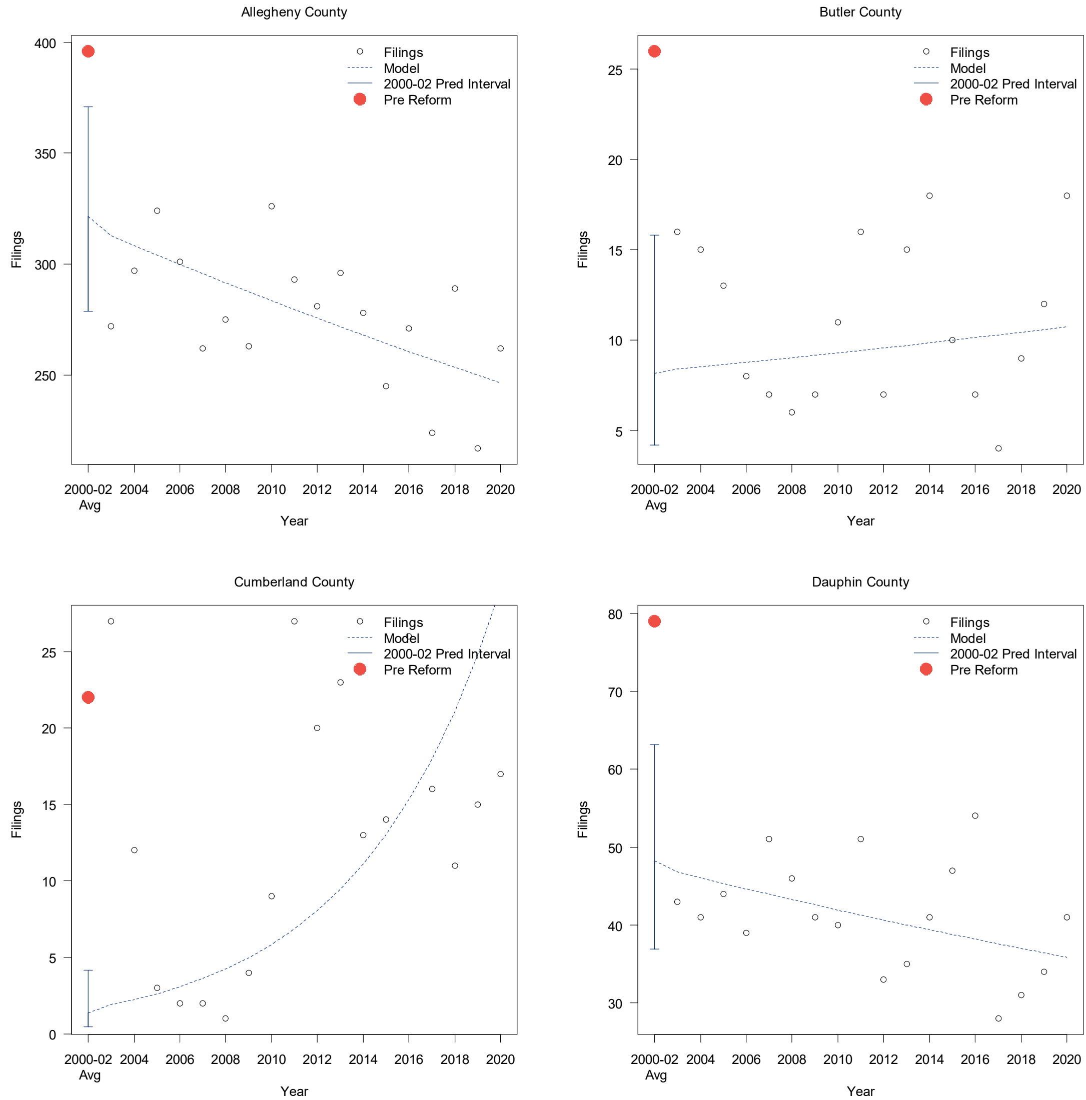
Recission Losers: The observed counts for 2000-02 were below the lower bound of the prediction interval. We expect these counties potentially to lose claims if the Venue Rule were rescinded.

All Other: The observed claims were within the prediction interval in these counties. Prior to consideration for consolidation, we do not expect that there would be a net gain or loss of claims in these counties if the Venue Rule were rescinded.

Figure 12 presents our models and the data for notable[7] Recission Gainers.

[7] We present data and models for counties where the observed pre-reform count exceeded the upper bound of the prediction interval by at least five claim fillings.

Figure 12: Recission Gainers



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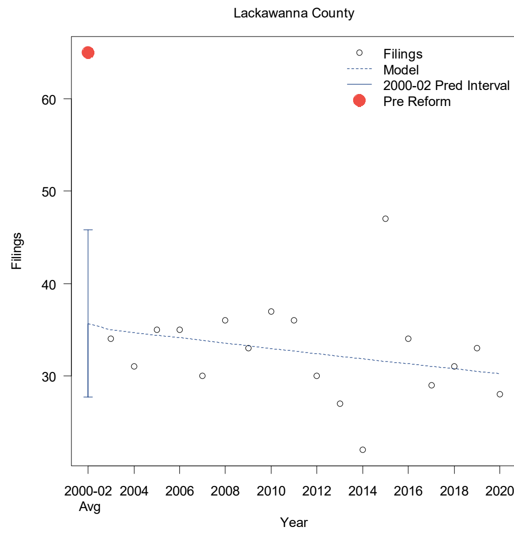
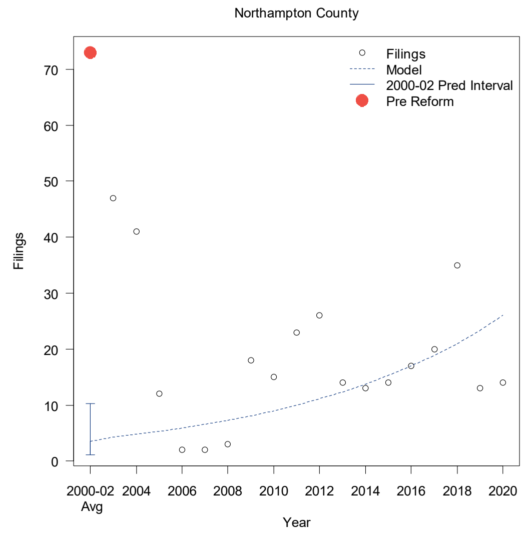
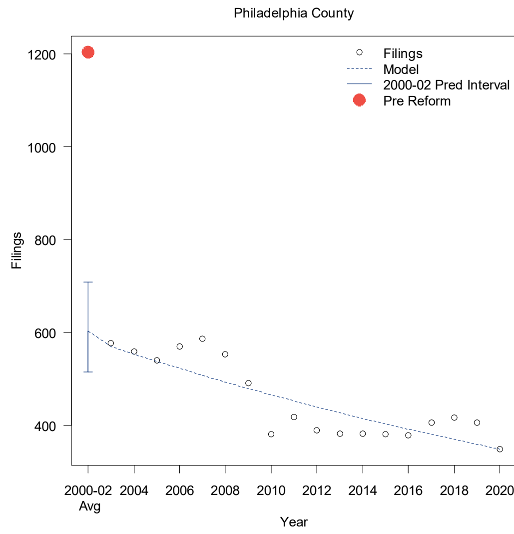
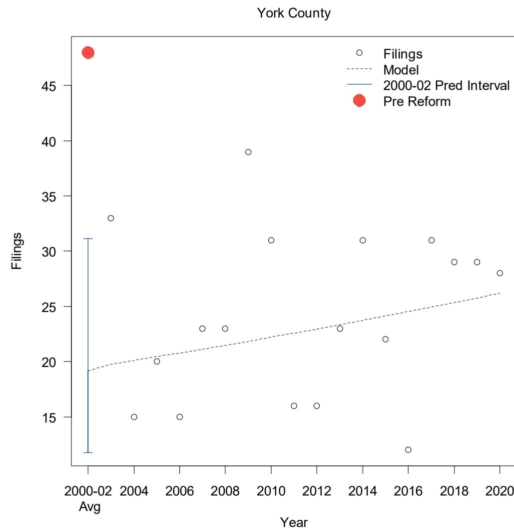

Lackawanna County
Filings
Model
2000-02 Pred Interval
Pre Reform
Filings
Year
2000-02 Avg


Northampton County
Filings
Model
2000-02 Pred Interval
Pre Reform
Filings
Year
2000-02 Avg


Philadelphia County
Filings
Model
2000-02 Pred Interval
Pre Reform
Filings
Year
2000-02 Avg

Schuylkill County
Filings
Model
2000-02 Pred Interval
Pre Reform
Filings
Year
2000-02 Avg



We generally expect Recission Gainers to be venues that are more favorable to the plaintiff. Because they are more "plaintiff-friendly," we would also expect these counties to have a higher percentage of frivolous and low-value cases than the other counties. We would expect the volume of such cases to be reduced or eliminated by the Certificate of Merit Rule and the collateral source provisions, respectively. That is, we didn't need to attribute 100% of "recission gains" to "recission losses." We assumed that the Recission Gainers would not return case levels to 2000-02 levels as some cases will have been eliminated through the other provisions.

In order to determine the recission gain, we reviewed the filing history for each of the counties surrounding each of the Recission Gainers. Table 4 presents the counties where our model indicates a statistically significant loss of claims if the Venue Rule were rescinded.

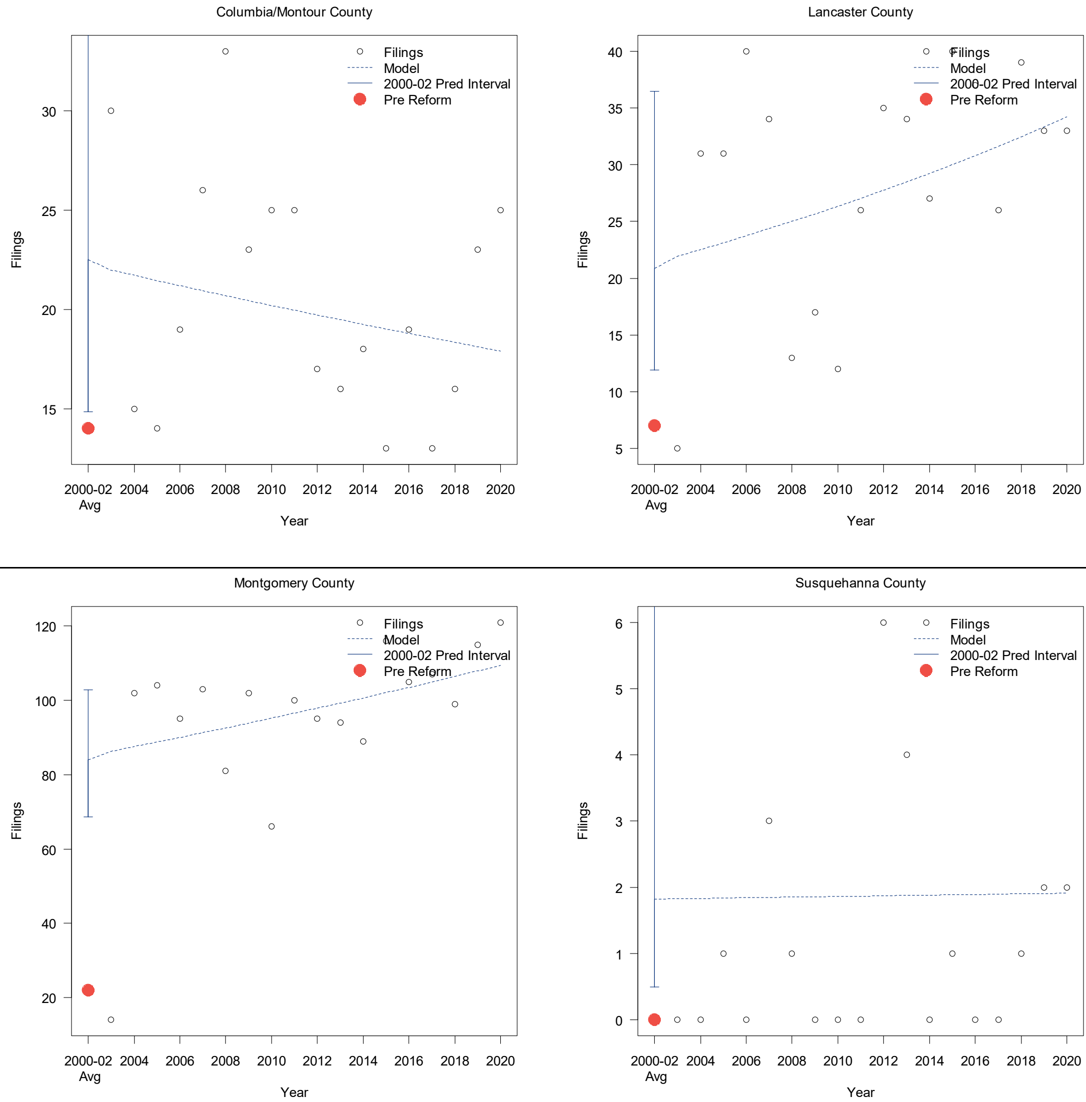
Table 4: Filing Shifts

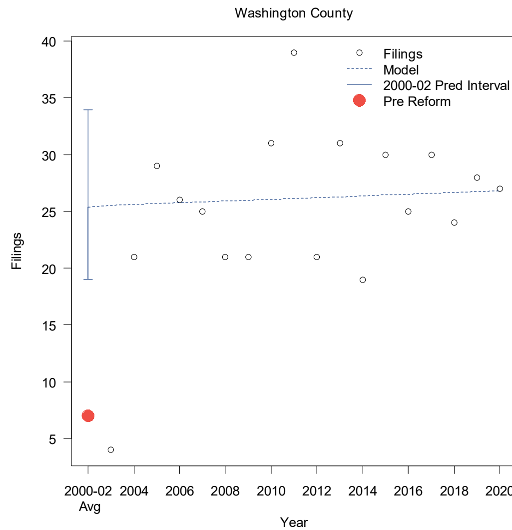
Recission Gainer	Adjacent Recission Loser
Allegheny	Washington
Butler	None
Cumberland	None
Dauphin	Lancaster
Lackawanna	Susquehanna
Northampton	None
Philadelphia	Montgomery
Schuylkill	Columbia/Montour
York	Lancaster

For Recission Gainers, where we did not identify a Recission Loser, we assume that the excess pre-reform case count was principally the result of the filing of low-value and frivolous cases.

We present the model and data for the Recission Losers in Figure 13.

Figure 13: Recission Losers





Based on this modeling, we concluded the Venue Rule resulted in the movement of cases between counties.

7.3. Post Consolidation Cost Estimation

We then developed a model to estimate changes in claims costs after considering the consolidation described in Section 6. Our model assumes the following:

- Hospital professional liability costs are proportional to the occupied beds in a county[8].
- The plaintiff firms will seek to transfer all cases as follows:
  - UPMC and Allegheny Health Network cases to Allegheny County
  - University of Pennsylvania and Jefferson Health System cases to Philadelphia County
  - Lehigh Valley Health Network cases to Lackawanna County – We recognize that Lehigh Valley Health Network (LVHN) is based in Lehigh County. However, LVHN has a facility in Lackawanna County, the most plaintiff-friendly venue in which it operates.
- Insurance rates reflect cost differences between counties.

[8] Actuaries use "exposure bases" in their analyses as proxies for the true exposures. We select exposure bases that we expect to be proportional to the true exposure. "Occupied beds" is a common exposure base for the actuarial evaluation of hospital professional liability risk.

8. Potential Downstream Effects

Our analysis concludes that costs will rise if the Venue Rule were rescinded. Although we do not consider ourselves experts in labor economics, we offer the following commentary based on our expectations of changes.

8.1. Changes in Professional Liability Premiums

Over the last several years professional liability insurance has been relatively stable with favorable low premiums in a soft market[9]. Changing the Venue Rule will likely increase costs for the industry which will accelerate the hardening of the market in Pennsylvania. The estimated change in costs presented in Table 1 demonstrate the potential consequences of the Venue Rule recission which will negatively impact insurers. This impact will consequently raise premiums for professional liability, especially for providers in counties that are more affected by the potential recission of the Venue Rule.

8.2. Accessibility of Health Care Services

The trend of consolidation has been accelerated by the COVID-19 pandemic as rural healthcare systems experienced significant financial burden. The pandemic has also increased the widespread use of telemedicine, which further increases the geographic reach of the Commonwealth's urban-based health networks. Advice provided over the internet could expand the potential venues[10]. Increased geographic reach coupled with increased liability could force health networks to make significant changes, which could ultimately reduce accessibility of care.

The current Venue Rule, among other structural factors, has resulted in a lower acceptance rate in medical malpractice cases for plaintiff attorneys, as discussed in Section 5.2, so we would expect an increase in the acceptance rate following rescindment. That is, access to plaintiff-friendly venues may result in additional claims. A 2019 study led by the Stanford University School of Medicine found that physicians with multiple malpractice claims were more likely to stop practicing medicine (not necessarily a direct result of changes in the cost of malpractice insurance) or switch to smaller practice settings[11]. This may particularly impact accessibility of health care for low-income and underserved communities.

In the following section, we discuss the potential effect of the Venue Rule recission on medical care costs. If health care providers are not able to pass on those higher costs, that would result in decreased compensation which we expect would reduce supply and accessibility of health care services.

8.3. Effect on the Cost of Medical Care

An increase in professional liability premiums as well as a decrease in the accessibility of healthcare services could have a significant impact to the cost of medical care.

---

[9] "Soft market" refers to market condition where insurance is available and prices are stable. In a "hard market," insurance availability is more limited and at higher costs.

[10] https://www.law.com/thelegalintelligencer/2022/03/28/medical-professional-liability-lawsuit-venue-new-post-covid-considerations/?slreturn=20220506143521

[11] https://www.nejm.org/doi/full/10.1056/NEJMsa1809981

- Hospitals and physicians will have to pay more for liability insurance resulting in an increase to patients' medical care costs to cover this rise.
- Reduced access to healthcare services can increase demand for the remaining providers and further inflate the burden of medical care costs.
- There may be an increase in defensive medicine as a response to higher malpractice claims resulting in unnecessary testing and higher medical care costs.

9. R Packages

In developing the analysis documents in this report, we used R and packages included in the R installation (collectively referred to as Base-R).

Citations for Base-R and other packages used in our review are as follows:

Base-R R Core Team (2021). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL https://www.R-project.org/.

tidyverse Wickham et al., (2019). Welcome to the tidyverse. Journal of Open Source Software, 4(43), 1686, https://doi.org/10.21105/joss.01686

extrafont Winston Chang, (2014). extrafont: Tools for using fonts. R package version 0.17. https://CRAN.R-project.org/package=extrafont

easyr Oliver Wyman Actuarial Consulting and Bryce Chamberlain (2022). easyr: Helpful Functions from Oliver Wyman Actuarial Consulting. R package version 0.5-8. https://CRAN.R-project.org/package=easyr

phillyR Rajesh Sahasrabuddhe (2021). phillyR: Utilities for the Philadelphia P&C practice of Oliver Wyman Actuarial Consulting. R package version 0.1.12.

usmap Paolo Di Lorenzo (2022). usmap: US Maps Including Alaska and Hawaii. R package version 0.6.0. https://CRAN.R-project.org/package=usmap

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12. Considerations and Limitations

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. The impact of this event on loss experience is highly uncertain and generally unquantifiable at this time.

Data Verification – For our analysis, we relied on data and information provided by various sources 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.

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 from various sources 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.

Internal / External Changes – The sources of uncertainty affecting our estimates are numerous and include 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 – 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.

13. Acknowledgement of Qualifications

I, Rajesh Sahasrabuddhe, am a Partner with Oliver Wyman Actuarial Consulting, Inc. I am a member of the American Academy of Actuaries and meet the Qualification Standards of the American Academy of Actuaries to render the actuarial analysis contained herein.

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14. Exhibits

Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

Summary Schedule

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Hospital Professional Liability			Physician Professional Liability		
County	50% Case Transfer	75% Case Transfer	100% Case Transfer	50% Case Transfer	75% Case Transfer	100% Case Transfer
	Estimated Change in Costs					
Statewide	+3.1%	+3.9%	+4.7%	+4.9%	+6.0%	+7.2%
Adams	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Allegheny	+1.4%	+2.2%	+2.9%	+1.1%	+1.7%	+2.2%
Armstrong	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Beaver	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Bedford	+5.3%	+8.0%	+10.6%	+13.9%	+20.8%	+27.8%
Berks	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Blair	+4.2%	+6.3%	+8.4%	+0.0%	+0.0%	+0.0%
Bradford	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Bucks	+0.1%	+0.2%	+0.2%	+2.1%	+3.2%	+4.2%
Butler	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Cambria	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Cameron	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Carbon	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Centre	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Chester	+3.0%	+4.4%	+5.9%	+10.1%	+15.1%	+20.1%
Clarion	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Clearfield	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Clinton	+4.8%	+7.1%	+9.5%	+11.7%	+17.5%	+23.4%
Columbia	+4.9%	+4.9%	+4.9%	+0.0%	+0.0%	+0.0%
Crawford	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Cumberland	+0.7%	+1.1%	+1.5%	+5.9%	+8.9%	+11.8%
Dauphin	+0.7%	+1.1%	+1.4%	+0.0%	+0.0%	+0.0%
Delaware	+0.3%	+0.4%	+0.5%	+3.4%	+5.1%	+6.8%
Elk	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Erie	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Fayette	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Forest	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Franklin	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Fulton	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Greene	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Huntingdon	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Indiana	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Jefferson	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Juniata	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Lackawanna	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Lancaster	+36.3%	+54.5%	+72.7%	+41.0%	+61.5%	+82.0%
Lawrence	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Lebanon	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Lehigh	+6.0%	+9.0%	+12.1%	+6.4%	+9.6%	+12.8%
Luzerne	+0.7%	+1.0%	+1.4%	+1.4%	+2.2%	+2.9%
Lycoming	+5.1%	+7.7%	+10.2%	+12.6%	+18.9%	+25.2%
McKean	+0.5%	+0.8%	+1.1%	+2.5%	+3.7%	+5.0%
Mercer	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Mifflin	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Monroe	+2.5%	+3.8%	+5.0%	+4.7%	+7.0%	+9.4%
Montgomery	+14.7%	+14.7%	+14.7%	+49.2%	+49.2%	+49.2%
Montour	+4.9%	+4.9%	+4.9%	+12.6%	+12.6%	+12.6%
Northampton	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Northumberland	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Perry	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Philadelphia	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Pike	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Potter	+5.3%	+8.0%	+10.6%	+13.9%	+20.8%	+27.8%
Schuylkill	+1.9%	+2.9%	+3.9%	+9.1%	+13.6%	+18.1%
Snyder	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Somerset	+4.0%	+6.1%	+8.1%	+5.4%	+8.2%	+10.9%
Sullivan	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Susquehanna	+37.4%	+37.4%	+37.4%	+77.8%	+77.8%	+77.8%
Tioga	+5.3%	+8.0%	+10.6%	+13.9%	+20.8%	+27.8%
Union	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Venango	+5.3%	+8.0%	+10.6%	+13.9%	+20.8%	+27.8%
Warren	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Washington	+7.7%	+7.7%	+7.7%	+0.0%	+0.0%	+0.0%
Wayne	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
Westmoreland	+0.1%	+0.1%	+0.1%	+0.0%	+0.0%	+0.0%
Wyoming	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%	+0.0%
York	+1.1%	+1.6%	+2.1%	+5.9%	+8.9%	+11.8%

Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

HPL Cost Factors by County - Low End Estimate

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
	per Census Bureau	per PDH 2020 Hospital Questionnaire	Exhibit 2.1	per 2021 Mcare Assessment Manual	Exhibit 3.1	Selected based on (4) and (6)		1 - (8)		per (7)				per PDH 2020 Hospital Questionnaire					MAX((12),(19))	(3) * (7)	MAX((21),(3) * (20))	(23) / (22) - 1
							Reverse 2002					Composition of Occupied Beds										
County	Number of Residents (2020)	OBEs	Commercial Insurance Relativity (MLM)	Mcare Territory (HPL)	Mcare Assessment Relativity (HPL)	Relative Cost Factor$_0$ (HPL)	Weight to Actual County	Weight to Alt County	County Moved To	County Moved to Relativity (HPL)	Cost Factor$_1$ (HPL)	UPMC	Jefferson	University of Pennsylvania Health System	Allegheny Health Network	Lehigh Valley Health Network	All Other	Projected Post-Consoldiation at 50%	Model Cost Factor$_1$ (HPL)	OBEs * Relative Cost Factor$_0$ (HPL)	OBEs * Relative Cost Factor$_1$ (HPL)	Change
Adams	103,852	48.89	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	25.34	25.34	0.0%
Allegheny	1,250,578	4,694.06	0.591	3.00	0.556	0.573	100%	0%	n/a	0.573	0.573	57%	4%	0%	24%	0%	16%	0.582	0.582	2,691.93	2,730.69	1.4%
Armstrong	65,558	42.03	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	21.79	21.79	0.0%
Beaver	168,215	179.74	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	93.17	93.17	0.0%
Bedford	47,577	16.96	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.546	0.546	8.79	9.26	5.3%
Berks	428,849	967.77	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	501.66	501.66	0.0%
Blair	122,822	366.20	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	79%	0%	0%	0%	0%	21%	0.540	0.540	189.83	197.80	4.2%
Bradford	59,967	174.13	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	90.26	90.26	0.0%
Bucks	646,538	610.35	0.779	4.00	0.889	0.834	100%	0%	n/a	0.834	0.834	0%	1%	0%	0%	0%	99%	0.835	0.835	509.18	509.79	0.1%
Butler	193,763	131.08	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	67.95	67.95	0.0%
Cambria	133,472	250.91	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	130.06	130.06	0.0%
Cameron	4,547	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Carbon	64,749	60.27	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	35.90	35.90	0.0%
Centre	158,172	262.01	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	135.82	135.82	0.0%
Chester	534,413	676.36	0.745	4.00	0.889	0.817	100%	0%	n/a	0.817	0.817	0%	0%	26%	0%	0%	74%	0.841	0.841	552.69	569.02	3.0%
Clarion	37,241	107.20	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	55.57	55.57	0.0%
Clearfield	80,562	146.36	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	75.87	75.87	0.0%
Clinton	37,450	8.72	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	90%	0%	0%	0%	0%	10%	0.543	0.543	4.52	4.73	4.8%
Columbia	64,727	33.74	0.747	2.00	0.444	0.596	**62%**	38%	Schuylkill	0.673	0.625	0%	0%	0%	0%	0%	100%	0.596	0.625	20.10	21.09	4.9%
Crawford	83,938	71.61	0.633	3.00	0.556	0.595	100%	0%	n/a	0.595	0.595	0%	0%	0%	0%	0%	100%	0.595	0.595	42.57	42.57	0.0%
Cumberland	259,469	377.52	0.652	2.00	0.444	0.548	100%	0%	n/a	0.548	0.548	32%	0%	0%	0%	0%	68%	0.552	0.552	206.89	208.40	0.7%
Dauphin	286,401	1,272.70	0.665	2.00	0.444	0.555	100%	0%	n/a	0.555	0.555	42%	0%	0%	0%	0%	58%	0.558	0.558	705.75	710.80	0.7%
Delaware	576,830	748.68	0.922	1.00	1.000	0.961	100%	0%	n/a	0.961	0.961	0%	0%	13%	0%	0%	87%	0.963	0.963	719.31	721.27	0.3%
Elk	30,990	13.90	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	7.20	7.20	0.0%
Erie	270,876	627.31	0.633	3.00	0.556	0.595	100%	0%	n/a	0.595	0.595	49%	0%	0%	25%	0%	26%	0.587	0.595	372.94	372.94	0.0%
Fayette	128,804	100.53	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	52.11	52.11	0.0%
Forest	6,973	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Franklin	155,932	239.56	0.652	2.00	0.444	0.548	100%	0%	n/a	0.548	0.548	0%	0%	0%	0%	0%	100%	0.548	0.548	131.28	131.28	0.0%
Fulton	14,556	5.27	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	2.73	2.73	0.0%
Greene	35,954	6.80	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	3.52	3.52	0.0%
Huntingdon	44,092	32.36	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	16.77	16.77	0.0%
Indiana	83,246	65.13	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	33.76	33.76	0.0%
Jefferson	44,492	30.40	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	15.76	15.76	0.0%
Juniata	23,509	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Lackawanna	215,896	596.95	0.868	3.00	0.556	0.712	100%	0%	n/a	0.712	0.712	0%	0%	0%	0%	0%	100%	0.712	0.712	425.02	425.02	0.0%
Lancaster	552,984	713.59	0.593	2.00	0.444	0.518	**34%**	66%	Dauphin/York	0.536	0.530	13%	0%	77%	0%	0%	10%	0.707	0.707	369.90	504.34	36.3%
Lawrence	86,070	107.21	0.633	3.00	0.556	0.595	100%	0%	Erie	0.595	0.595	100%	0%	0%	0%	0%	0%	0.584	0.595	63.74	63.74	0.0%
Lebanon	143,257	197.44	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	102.35	102.35	0.0%
Lehigh	374,557	1,603.76	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	62%	38%	0.632	0.632	955.23	1,012.84	6.0%
Luzerne	325,594	672.01	0.747	3.00	0.556	0.652	100%	0%	n/a	0.652	0.652	0%	0%	0%	0%	15%	85%	0.656	0.656	437.89	440.95	0.7%
Lycoming	114,188	190.67	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	96%	0%	0%	0%	0%	4%	0.545	0.545	98.84	103.88	5.1%
McKean	40,432	44.72	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	10%	0%	0%	0%	0%	90%	0.521	0.521	23.18	23.30	0.5%
Mercer	110,652	159.48	0.650	3.00	0.556	0.603	100%	0%	n/a	0.603	0.603	28%	0%	0%	19%	0%	52%	0.596	0.603	96.16	96.16	0.0%
Mifflin	46,143	62.11	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	32.20	32.20	0.0%
Monroe	168,327	189.75	0.868	2.00	0.444	0.656	100%	0%	n/a	0.656	0.656	0%	0%	0%	0%	59%	41%	0.673	0.673	124.47	127.61	2.5%
Montgomery	856,553	2,105.85	0.779	4.00	0.889	0.834	**26%**	74%	Philadelphia	1.000	0.957	0%	35%	0%	0%	0%	65%	0.863	0.957	1,756.77	2,014.37	14.7%
Montour	18,136	531.95	0.747	2.00	0.444	0.596	**62%**	38%	Schuylkill	0.673	0.625	0%	0%	0%	0%	0%	100%	0.596	0.625	316.84	332.42	4.9%
Northampton	312,951	136.17	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	81.11	81.11	0.0%
Northumberland	91,647	0.00	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	0.00	0.00	0.0%
Perry	45,842	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Philadelphia	1,603,797	4,781.15	1.000	1.00	1.000	1.000	100%	0%	n/a	1.000	1.000	0%	32%	25%	0%	0%	43%	1.000	1.000	4,781.15	4,781.15	0.0%
Pike	58,535	0.00	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	0.00	0.00	0.0%
Potter	16,396	21.46	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.546	0.546	11.13	11.72	5.3%
Schuylkill	143,049	160.40	0.902	2.00	0.444	0.673	100%	0%	n/a	0.673	0.673	0%	0%	0%	0%	67%	33%	0.686	0.686	107.96	110.06	1.9%
Snyder	39,736	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Somerset	74,129	43.43	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	76%	0%	0%	0%	0%	24%	0.539	0.539	22.51	23.42	4.0%
Sullivan	5,840	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Susquehanna	38,434	11.77	0.593	2.00	0.444	0.518	**0%**	100%	Lackawanna	0.712	0.712	0%	0%	0%	0%	0%	100%	0.518	0.712	6.10	8.38	37.4%
Tioga	41,045	16.79	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.546	0.546	8.70	9.16	5.3%
Union	42,681	51.47	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	26.68	26.68	0.0%
Venango	50,454	82.35	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.546	0.546	42.69	44.96	5.3%
Warren	38,587	144.95	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	75.14	75.14	0.0%
Washington	209,349	358.64	0.593	2.00	0.444	0.518	**28%**	72%	Allegheny	0.573	0.558	0%	0%	0%	12%	0%	88%	0.522	0.558	185.91	200.22	7.7%
Wayne	51,155	106.25	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	63.28	63.28	0.0%
Westmoreland	354,663	702.82	0.610	2.00	0.444	0.527	100%	0%	n/a	0.527	0.527	0%	0%	0%	1%	0%	99%	0.527	0.527	370.28	370.49	0.1%
Wyoming	26,069	7.42	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	4.42	4.42	0.0%
York	456,438	686.62	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	20%	0%	0%	0%	0%	80%	0.524	0.524	355.92	359.67	1.1%
Total	13,002,700	26,855.71																		18,467	19,044	3.1%
Control	13,002,700	26,855.71																		18,467	19,044	
Difference	0	0																		0	0	

Worksheet Control Difference
0

Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

PPL Cost Factors by County - Low End Estimate

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
	per 2021 Mcare Assessment Manual	per Census Bureau	per PDH 2020 Hospital Questionnaire		(4) + (5)	Exhibit 3.2	Selected, equal to (7)		1 - (9)		per (8)		per PDH 2020 Hospital Questionnaire							MAX((13),(20))	(6) * (8)	MAX((22),(6) * (21))	(23) / (22) - 1
								Reverse 2002					Composition of Total Physicians										
County	Territory (PPL)	Number of Residents (2020)	Primary Care Physicians	Specialists	Total Physicians	Mcare/JUA Assessment (PPL)	Relative Cost Factor$_0$ (PPL)	Weight to Actual County	Weight to Alt County	County Moved To	County Moved to Relativity (PPL)	Cost Factor$_1$ (PPL)	UPMC	Jefferson	University of Pennsylvania Health System	Allegheny Health Network	Lehigh Valley Health Network	All Other	Projected Post-Consoldiation at 50%	Model Cost Factor$_1$ (PPL)	# Physicians * Relative Cost Factor$_0$ (PPL)	# Physicians * Relative Cost Factor$_1$ (PPL)	Change
Adams	2.00	103,852	56	59	115	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	51.75	51.75	0.0%
Allegheny	3.00	1,250,578	2,234	10,053	12,287	0.575	0.575	100%	0%	n/a	0.575	0.575	63%	3%	0%	17%	0%	17%	0.581	0.581	7,065.03	7,144.29	1.1%
Armstrong	3.00	65,558	59	220	279	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	160.43	160.43	0.0%
Beaver	3.00	168,215	61	265	326	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	187.45	187.45	0.0%
Bedford	2.00	47,577	14	47	61	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.513	0.513	27.45	31.26	13.9%
Berks	2.00	428,849	465	865	1,330	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	598.50	598.50	0.0%
Blair	7.00	122,822	99	336	435	0.700	0.700	100%	0%	n/a	0.700	0.700	68%	0%	0%	0%	0%	32%	0.657	0.700	304.50	304.50	0.0%
Bradford	2.00	59,967	57	255	312	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	140.40	140.40	0.0%
Bucks	6.00	646,538	868	1,819	2,687	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	6%	0%	0%	0%	94%	0.613	0.613	1,612.20	1,646.20	2.1%
Butler	2.00	193,763	99	234	333	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	149.85	149.85	0.0%
Cambria	2.00	133,472	97	177	274	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	123.30	123.30	0.0%
Cameron	2.00	4,547	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Carbon	3.00	64,749	199	527	726	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	417.45	417.45	0.0%
Centre	2.00	158,172	116	211	327	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	147.15	147.15	0.0%
Chester	6.00	534,413	373	1,494	1,867	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	30%	0%	0%	70%	0.660	0.660	1,120.20	1,233.00	10.1%
Clarion	2.00	37,241	16	26	42	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	18.90	18.90	0.0%
Clearfield	3.00	80,562	82	221	303	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	174.23	174.23	0.0%
Clinton	2.00	37,450	32	6	38	0.450	0.450	100%	0%	n/a	0.450	0.450	84%	0%	0%	0%	0%	16%	0.503	0.503	17.10	19.10	11.7%
Columbia	6.00	64,727	152	1,078	1,230	0.600	0.600	**62%**	38%	Schuylkill	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	738.00	738.00	0.0%
Crawford	6.00	83,938	37	80	117	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	70.20	70.20	0.0%
Cumberland	2.00	259,469	231	675	906	0.450	0.450	100%	0%	n/a	0.450	0.450	43%	0%	0%	0%	0%	57%	0.477	0.477	407.70	431.83	5.9%
Dauphin	3.00	286,401	818	1,966	2,784	0.575	0.575	100%	0%	n/a	0.575	0.575	33%	0%	0%	0%	0%	67%	0.575	0.575	1,600.80	1,600.80	0.0%
Delaware	4.00	576,830	600	1,279	1,879	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	21%	0%	0%	79%	0.776	0.776	1,409.25	1,457.50	3.4%
Elk	2.00	30,990	14	83	97	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	43.65	43.65	0.0%
Erie	6.00	270,876	249	439	688	0.600	0.600	100%	0%	n/a	0.600	0.600	37%	0%	0%	34%	0%	28%	0.591	0.600	412.80	412.80	0.0%
Fayette	4.00	128,804	32	151	183	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	0%	0%	0%	100%	0.750	0.750	137.25	137.25	0.0%
Forest	2.00	6,973	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Franklin	2.00	155,932	170	318	488	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	219.60	219.60	0.0%
Fulton	2.00	14,556	10	26	36	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	16.20	16.20	0.0%
Greene	2.00	35,954	1	21	22	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	9.90	9.90	0.0%
Huntingdon	2.00	44,092	20	221	241	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	108.45	108.45	0.0%
Indiana	2.00	83,246	15	89	104	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	46.80	46.80	0.0%
Jefferson	3.00	44,492	57	107	164	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	94.30	94.30	0.0%
Juniata	2.00	23,509	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Lackawanna	5.00	215,896	485	1,362	1,847	0.800	0.800	100%	0%	n/a	0.800	0.800	0%	0%	0%	0%	0%	100%	0.800	0.800	1,477.60	1,477.60	0.0%
Lancaster	2.00	552,984	690	873	1,563	0.450	0.450	**34%**	66%	Dauphin/York	0.513	0.491	32%	0%	60%	0%	0%	8%	0.635	0.635	703.35	991.85	41.0%
Lawrence	6.00	86,070	148	207	355	0.600	0.600	100%	0%	Erie	0.600	0.600	100%	0%	0%	0%	0%	0%	0.588	0.600	213.00	213.00	0.0%
Lebanon	2.00	143,257	31	146	177	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	79.65	79.65	0.0%
Lehigh	6.00	374,557	1,592	2,761	4,353	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	38%	62%	0.638	0.638	2,611.80	2,779.30	6.4%
Luzerne	4.00	325,594	1,157	2,152	3,309	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	0%	0%	43%	57%	0.761	0.761	2,481.75	2,517.65	1.4%
Lycoming	2.00	114,188	220	296	516	0.450	0.450	100%	0%	n/a	0.450	0.450	91%	0%	0%	0%	0%	9%	0.507	0.507	232.20	261.51	12.6%
McKean	2.00	40,432	28	61	89	0.450	0.450	100%	0%	n/a	0.450	0.450	18%	0%	0%	0%	0%	82%	0.461	0.461	40.05	41.05	2.5%
Mercer	4.00	110,652	170	326	496	0.750	0.750	100%	0%	n/a	0.750	0.750	49%	0%	0%	10%	0%	41%	0.698	0.750	372.00	372.00	0.0%
Mifflin	2.00	46,143	141	566	707	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	318.15	318.15	0.0%
Monroe	6.00	168,327	347	893	1,240	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	28%	72%	0.628	0.628	744.00	778.90	4.7%
Montgomery	6.00	856,553	1,155	2,655	3,810	0.600	0.600	**26%**	74%	Philadelphia	1.000	0.895	0%	46%	0%	0%	0%	54%	0.692	0.895	2,286.00	3,410.59	49.2%
Montour	2.00	18,136	353	1,106	1,459	0.450	0.450	**62%**	38%	Schuylkill	0.600	0.507	0%	0%	0%	0%	0%	100%	0.450	0.507	656.55	739.32	12.6%
Northampton	6.00	312,951	543	1,068	1,611	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	966.60	966.60	0.0%
Northumberland	2.00	91,647	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Perry	2.00	45,842	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Philadelphia	1.00	1,603,797	2,995	9,254	12,249	1.000	1.000	100%	0%	n/a	1.000	1.000	0%	25%	38%	0%	0%	38%	1.000	1.000	12,249.00	12,249.00	0.0%
Pike	2.00	58,535	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Potter	2.00	16,396	16	25	41	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.513	0.513	18.45	21.01	13.9%
Schuylkill	6.00	143,049	1,007	1,637	2,644	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	54%	46%	0.654	0.654	1,586.40	1,730.00	9.1%
Snyder	2.00	39,736	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Somerset	2.00	74,129	41	120	161	0.450	0.450	100%	0%	n/a	0.450	0.450	39%	0%	0%	0%	0%	61%	0.474	0.474	72.45	76.39	5.4%
Sullivan	2.00	5,840	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Susquehanna	2.00	38,434	7	9	16	0.450	0.450	**0%**	100%	Lackawanna	0.800	0.800	0%	0%	0%	0%	0%	100%	0.450	0.800	7.20	12.80	77.8%
Tioga	2.00	41,045	9	21	30	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.513	0.513	13.50	15.38	13.9%
Union	2.00	42,681	30	98	128	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	57.60	57.60	0.0%
Venango	2.00	50,454	18	64	82	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.513	0.513	36.90	42.03	13.9%
Warren	2.00	38,587	16	55	71	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	31.95	31.95	0.0%
Washington	3.00	209,349	78	483	561	0.575	0.575	**28%**	72%	Allegheny	0.575	0.575	0%	0%	0%	34%	0%	66%	0.575	0.575	322.58	322.58	0.0%
Wayne	2.00	51,155	24	57	81	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	36.45	36.45	0.0%
Westmoreland	6.00	354,663	134	731	865	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	19%	0%	81%	0.598	0.600	519.00	519.00	0.0%
Wyoming	2.00	26,069	7	73	80	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	36.00	36.00	0.0%
York	2.00	456,438	534	1,332	1,866	0.450	0.450	100%	0%	n/a	0.450	0.450	43%	0%	0%	0%	0%	57%	0.477	0.477	839.70	889.39	5.9%
Total		13,002,700	19,309	51,779	71,088																46,641	48,922	4.9%
Control		13,002,700	19,309	51,779	71,088																46,641	48,922	
Difference		0	0	0	0																0	0	

Worksheet Control Difference
0

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Medical Professional Liability Venue Rule

HPL Cost Factors by County - Central Estimate

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
	per Census Bureau	per PDH 2020 Hospital Questionnaire	Exhibit 2.1	per 2021 Mcare Assessment Manual	Exhibit 3.1	Selected based on (4) and (6)		1 - (8)		per (7)		per PDH 2020 Hospital Questionnaire							MAX((12),(19))	(3) * (7)	MAX((21),(3) * (20))	(23) / (22) - 1
							Reverse 2002					Composition of Occupied Beds										
County	Number of Residents (2020)	OBEs	Commercial Insurance Relativity (MLM)	Mcare Territory (HPL)	Mcare Assessment Relativity (HPL)	Relative Cost Factor$_0$ (HPL)	Weight to Actual County	Weight to Alt County	County Moved To	County Moved to Relativity (HPL)	Cost Factor$_1$ (HPL)	UPMC	Jefferson	University of Pennsylvania Health System	Allegheny Health Network	Lehigh Valley Health Network	All Other	Projected Post-Consoldiation at 75%	Model Cost Factor$_1$ (HPL)	OBEs * Relative Cost Factor$_0$ (HPL)	OBEs * Relative Cost Factor$_1$ (HPL)	Change
Adams	103,852	48.89	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	25.34	25.34	0.0%
Allegheny	1,250,578	4,694.06	0.591	3.00	0.556	0.573	100%	0%	n/a	0.573	0.573	57%	4%	0%	24%	0%	16%	0.586	0.586	2,691.93	2,750.07	2.2%
Armstrong	65,558	42.03	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	21.79	21.79	0.0%
Beaver	168,215	179.74	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	93.17	93.17	0.0%
Bedford	47,577	16.96	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.560	0.560	8.79	9.49	8.0%
Berks	428,849	967.77	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	501.66	501.66	0.0%
Blair	122,822	366.20	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	79%	0%	0%	0%	0%	21%	0.551	0.551	189.83	201.78	6.3%
Bradford	59,967	174.13	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	90.26	90.26	0.0%
Bucks	646,538	610.35	0.779	4.00	0.889	0.834	100%	0%	n/a	0.834	0.834	0%	1%	0%	0%	0%	99%	0.836	0.836	509.18	510.10	0.2%
Butler	193,763	131.08	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	67.95	67.95	0.0%
Cambria	133,472	250.91	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	130.06	130.06	0.0%
Cameron	4,547	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Carbon	64,749	60.27	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	35.90	35.90	0.0%
Centre	158,172	262.01	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	135.82	135.82	0.0%
Chester	534,413	676.36	0.745	4.00	0.889	0.817	100%	0%	n/a	0.817	0.817	0%	0%	26%	0%	0%	74%	0.853	0.853	552.69	577.19	4.4%
Clarion	37,241	107.20	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	55.57	55.57	0.0%
Clearfield	80,562	146.36	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	75.87	75.87	0.0%
Clinton	37,450	8.72	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	90%	0%	0%	0%	0%	10%	0.555	0.555	4.52	4.84	7.1%
Columbia	64,727	33.74	0.747	2.00	0.444	0.596	**62%**	38%	Schuylkill	0.673	0.625	0%	0%	0%	0%	0%	100%	0.596	0.625	20.10	21.09	4.9%
Crawford	83,938	71.61	0.633	3.00	0.556	0.595	100%	0%	n/a	0.595	0.595	0%	0%	0%	0%	0%	100%	0.595	0.595	42.57	42.57	0.0%
Cumberland	259,469	377.52	0.652	2.00	0.444	0.548	100%	0%	n/a	0.548	0.548	32%	0%	0%	0%	0%	68%	0.554	0.554	206.89	209.16	1.1%
Dauphin	286,401	1,272.70	0.665	2.00	0.444	0.555	100%	0%	n/a	0.555	0.555	42%	0%	0%	0%	0%	58%	0.560	0.560	705.75	713.33	1.1%
Delaware	576,830	748.68	0.922	1.00	1.000	0.961	100%	0%	n/a	0.961	0.961	0%	0%	13%	0%	0%	87%	0.965	0.965	719.31	722.25	0.4%
Elk	30,990	13.90	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	7.20	7.20	0.0%
Erie	270,876	627.31	0.633	3.00	0.556	0.595	100%	0%	n/a	0.595	0.595	49%	0%	0%	25%	0%	26%	0.583	0.595	372.94	372.94	0.0%
Fayette	128,804	100.53	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	52.11	52.11	0.0%
Forest	6,973	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Franklin	155,932	239.56	0.652	2.00	0.444	0.548	100%	0%	n/a	0.548	0.548	0%	0%	0%	0%	0%	100%	0.548	0.548	131.28	131.28	0.0%
Fulton	14,556	5.27	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	2.73	2.73	0.0%
Greene	35,954	6.80	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	3.52	3.52	0.0%
Huntingdon	44,092	32.36	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	16.77	16.77	0.0%
Indiana	83,246	65.13	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	33.76	33.76	0.0%
Jefferson	44,492	30.40	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	15.76	15.76	0.0%
Juniata	23,509	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Lackawanna	215,896	596.95	0.868	3.00	0.556	0.712	100%	0%	n/a	0.712	0.712	0%	0%	0%	0%	0%	100%	0.712	0.712	425.02	425.02	0.0%
Lancaster	552,984	713.59	0.593	2.00	0.444	0.518	**34%**	66%	Dauphin/York	0.536	0.530	13%	0%	77%	0%	0%	10%	0.801	0.801	369.90	571.56	54.5%
Lawrence	86,070	107.21	0.633	3.00	0.556	0.595	100%	0%	Erie	0.595	0.595	100%	0%	0%	0%	0%	0%	0.579	0.595	63.74	63.74	0.0%
Lebanon	143,257	197.44	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	102.35	102.35	0.0%
Lehigh	374,557	1,603.76	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	62%	38%	0.650	0.650	955.23	1,041.65	9.0%
Luzerne	325,594	672.01	0.747	3.00	0.556	0.652	100%	0%	n/a	0.652	0.652	0%	0%	0%	0%	15%	85%	0.658	0.658	437.89	442.49	1.0%
Lycoming	114,188	190.67	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	96%	0%	0%	0%	0%	4%	0.558	0.558	98.84	106.41	7.7%
McKean	40,432	44.72	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	10%	0%	0%	0%	0%	90%	0.523	0.523	23.18	23.37	0.8%
Mercer	110,652	159.48	0.650	3.00	0.556	0.603	100%	0%	n/a	0.603	0.603	28%	0%	0%	19%	0%	52%	0.592	0.603	96.16	96.16	0.0%
Mifflin	46,143	62.11	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	32.20	32.20	0.0%
Monroe	168,327	189.75	0.868	2.00	0.444	0.656	100%	0%	n/a	0.656	0.656	0%	0%	0%	0%	59%	41%	0.681	0.681	124.47	129.18	3.8%
Montgomery	856,553	2,105.85	0.779	4.00	0.889	0.834	**26%**	74%	Philadelphia	1.000	0.957	0%	35%	0%	0%	0%	65%	0.878	0.957	1,756.77	2,014.37	14.7%
Montour	18,136	531.95	0.747	2.00	0.444	0.596	**62%**	38%	Schuylkill	0.673	0.625	0%	0%	0%	0%	0%	100%	0.596	0.625	316.84	332.42	4.9%
Northampton	312,951	136.17	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	81.11	81.11	0.0%
Northumberland	91,647	0.00	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	0.00	0.00	0.0%
Perry	45,842	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Philadelphia	1,603,797	4,781.15	1.000	1.00	1.000	1.000	100%	0%	n/a	1.000	1.000	0%	32%	25%	0%	0%	43%	1.000	1.000	4,781.15	4,781.15	0.0%
Pike	58,535	0.00	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	0.00	0.00	0.0%
Potter	16,396	21.46	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.560	0.560	11.13	12.01	8.0%
Schuylkill	143,049	160.40	0.902	2.00	0.444	0.673	100%	0%	n/a	0.673	0.673	0%	0%	0%	0%	67%	33%	0.693	0.693	107.96	111.11	2.9%
Snyder	39,736	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Somerset	74,129	43.43	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	76%	0%	0%	0%	0%	24%	0.550	0.550	22.51	23.88	6.1%
Sullivan	5,840	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Susquehanna	38,434	11.77	0.593	2.00	0.444	0.518	**0%**	100%	Lackawanna	0.712	0.712	0%	0%	0%	0%	0%	100%	0.518	0.712	6.10	8.38	37.4%
Tioga	41,045	16.79	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.560	0.560	8.70	9.40	8.0%
Union	42,681	51.47	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	26.68	26.68	0.0%
Venango	50,454	82.35	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.560	0.560	42.69	46.09	8.0%
Warren	38,587	144.95	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	75.14	75.14	0.0%
Washington	209,349	358.64	0.593	2.00	0.444	0.518	**28%**	72%	Allegheny	0.573	0.558	0%	0%	0%	12%	0%	88%	0.523	0.558	185.91	200.22	7.7%
Wayne	51,155	106.25	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	63.28	63.28	0.0%
Westmoreland	354,663	702.82	0.610	2.00	0.444	0.527	100%	0%	n/a	0.527	0.527	0%	0%	0%	1%	0%	99%	0.527	0.527	370.28	370.59	0.1%
Wyoming	26,069	7.42	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	4.42	4.42	0.0%
York	456,438	686.62	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	20%	0%	0%	0%	0%	80%	0.527	0.527	355.92	361.54	1.6%
Total	13,002,700	26,855.71																		18,467	19,187	3.9%
Control	13,002,700	26,855.71																		18,467	19,187	
Difference	0	0																		0	0	

Worksheet Control Difference
0

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Medical Professional Liability Venue Rule

PPL Cost Factors by County - Central Estimate

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
	per 2021 Mcare Assessment Manual	per Census Bureau	per PDH 2020 Hospital Questionnaire		(4) + (5)	Exhibit 3.2	Selected, equal to (7)		1 - (9)		per (8)		per PDH 2020 Hospital Questionnaire							MAX((13),(20))	(6) * (8)	MAX((22),(6) * (21))	(23) / (22) - 1
								Reverse 2002					Composition of Total Physicians										
County	Territory (PPL)	Number of Residents (2020)	Primary Care Physicians	Specialists	Total Physicians	Mcare/JUA Assessment (PPL)	Relative Cost Factor$_0$ (PPL)	Weight to Actual County	Weight to Alt County	County Moved To	County Moved to Relativity (PPL)	Cost Factor$_1$ (PPL)	UPMC	Jefferson	University of Pennsylvania Health System	Allegheny Health Network	Lehigh Valley Health Network	All Other	Projected Post-Consoldiation at 75%	Model Cost Factor$_1$ (PPL)	# Physicians * Relative Cost Factor$_0$ (PPL)	# Physicians * Relative Cost Factor$_1$ (PPL)	Change
Adams	2.00	103,852	56	59	115	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	51.75	51.75	0.0%
Allegheny	3.00	1,250,578	2,234	10,053	12,287	0.575	0.575	100%	0%	n/a	0.575	0.575	63%	3%	0%	17%	0%	17%	0.585	0.585	7,065.03	7,183.92	1.7%
Armstrong	3.00	65,558	59	220	279	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	160.43	160.43	0.0%
Beaver	3.00	168,215	61	265	326	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	187.45	187.45	0.0%
Bedford	2.00	47,577	14	47	61	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.544	0.544	27.45	33.17	20.8%
Berks	2.00	428,849	465	865	1,330	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	598.50	598.50	0.0%
Blair	7.00	122,822	99	336	435	0.700	0.700	100%	0%	n/a	0.700	0.700	68%	0%	0%	0%	0%	32%	0.636	0.700	304.50	304.50	0.0%
Bradford	2.00	59,967	57	255	312	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	140.40	140.40	0.0%
Bucks	6.00	646,538	868	1,819	2,687	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	6%	0%	0%	0%	94%	0.619	0.619	1,612.20	1,663.20	3.2%
Butler	2.00	193,763	99	234	333	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	149.85	149.85	0.0%
Cambria	2.00	133,472	97	177	274	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	123.30	123.30	0.0%
Cameron	2.00	4,547	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Carbon	3.00	64,749	199	527	726	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	417.45	417.45	0.0%
Centre	2.00	158,172	116	211	327	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	147.15	147.15	0.0%
Chester	6.00	534,413	373	1,494	1,867	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	30%	0%	0%	70%	0.691	0.691	1,120.20	1,289.40	15.1%
Clarion	2.00	37,241	16	26	42	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	18.90	18.90	0.0%
Clearfield	3.00	80,562	82	221	303	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	174.23	174.23	0.0%
Clinton	2.00	37,450	32	6	38	0.450	0.450	100%	0%	n/a	0.450	0.450	84%	0%	0%	0%	0%	16%	0.529	0.529	17.10	20.10	17.5%
Columbia	6.00	64,727	152	1,078	1,230	0.600	0.600	**62%**	38%	Schuylkill	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	738.00	738.00	0.0%
Crawford	6.00	83,938	37	80	117	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	70.20	70.20	0.0%
Cumberland	2.00	259,469	231	675	906	0.450	0.450	100%	0%	n/a	0.450	0.450	43%	0%	0%	0%	0%	57%	0.490	0.490	407.70	443.89	8.9%
Dauphin	3.00	286,401	818	1,966	2,784	0.575	0.575	100%	0%	n/a	0.575	0.575	33%	0%	0%	0%	0%	67%	0.575	0.575	1,600.80	1,600.80	0.0%
Delaware	4.00	576,830	600	1,279	1,879	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	21%	0%	0%	79%	0.789	0.789	1,409.25	1,481.63	5.1%
Elk	2.00	30,990	14	83	97	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	43.65	43.65	0.0%
Erie	6.00	270,876	249	439	688	0.600	0.600	100%	0%	n/a	0.600	0.600	37%	0%	0%	34%	0%	28%	0.587	0.600	412.80	412.80	0.0%
Fayette	4.00	128,804	32	151	183	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	0%	0%	0%	100%	0.750	0.750	137.25	137.25	0.0%
Forest	2.00	6,973	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Franklin	2.00	155,932	170	318	488	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	219.60	219.60	0.0%
Fulton	2.00	14,556	10	26	36	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	16.20	16.20	0.0%
Greene	2.00	35,954	1	21	22	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	9.90	9.90	0.0%
Huntingdon	2.00	44,092	20	221	241	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	108.45	108.45	0.0%
Indiana	2.00	83,246	15	89	104	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	46.80	46.80	0.0%
Jefferson	3.00	44,492	57	107	164	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	94.30	94.30	0.0%
Juniata	2.00	23,509	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Lackawanna	5.00	215,896	485	1,362	1,847	0.800	0.800	100%	0%	n/a	0.800	0.800	0%	0%	0%	0%	0%	100%	0.800	0.800	1,477.60	1,477.60	0.0%
Lancaster	2.00	552,984	690	873	1,563	0.450	0.450	**34%**	66%	Dauphin/York	0.513	0.491	32%	0%	60%	0%	0%	8%	0.727	0.727	703.35	1,136.10	61.5%
Lawrence	6.00	86,070	148	207	355	0.600	0.600	100%	0%	Erie	0.600	0.600	100%	0%	0%	0%	0%	0%	0.581	0.600	213.00	213.00	0.0%
Lebanon	2.00	143,257	31	146	177	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	79.65	79.65	0.0%
Lehigh	6.00	374,557	1,592	2,761	4,353	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	38%	62%	0.658	0.658	2,611.80	2,863.05	9.6%
Luzerne	4.00	325,594	1,157	2,152	3,309	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	0%	0%	43%	57%	0.766	0.766	2,481.75	2,535.60	2.2%
Lycoming	2.00	114,188	220	296	516	0.450	0.450	100%	0%	n/a	0.450	0.450	91%	0%	0%	0%	0%	9%	0.535	0.535	232.20	276.17	18.9%
McKean	2.00	40,432	28	61	89	0.450	0.450	100%	0%	n/a	0.450	0.450	18%	0%	0%	0%	0%	82%	0.467	0.467	40.05	41.55	3.7%
Mercer	4.00	110,652	170	326	496	0.750	0.750	100%	0%	n/a	0.750	0.750	49%	0%	0%	10%	0%	41%	0.672	0.750	372.00	372.00	0.0%
Mifflin	2.00	46,143	141	566	707	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	318.15	318.15	0.0%
Monroe	6.00	168,327	347	893	1,240	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	28%	72%	0.642	0.642	744.00	796.35	7.0%
Montgomery	6.00	856,553	1,155	2,655	3,810	0.600	0.600	**26%**	74%	Philadelphia	1.000	0.895	0%	46%	0%	0%	0%	54%	0.737	0.895	2,286.00	3,410.59	49.2%
Montour	2.00	18,136	353	1,106	1,459	0.450	0.450	**62%**	38%	Schuylkill	0.600	0.507	0%	0%	0%	0%	0%	100%	0.450	0.507	656.55	739.32	12.6%
Northampton	6.00	312,951	543	1,068	1,611	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	966.60	966.60	0.0%
Northumberland	2.00	91,647	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Perry	2.00	45,842	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Philadelphia	1.00	1,603,797	2,995	9,254	12,249	1.000	1.000	100%	0%	n/a	1.000	1.000	0%	25%	38%	0%	0%	38%	1.000	1.000	12,249.00	12,249.00	0.0%
Pike	2.00	58,535	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Potter	2.00	16,396	16	25	41	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.544	0.544	18.45	22.29	20.8%
Schuylkill	6.00	143,049	1,007	1,637	2,644	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	54%	46%	0.681	0.681	1,586.40	1,801.80	13.6%
Snyder	2.00	39,736	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Somerset	2.00	74,129	41	120	161	0.450	0.450	100%	0%	n/a	0.450	0.450	39%	0%	0%	0%	0%	61%	0.487	0.487	72.45	78.36	8.2%
Sullivan	2.00	5,840	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Susquehanna	2.00	38,434	7	9	16	0.450	0.450	**0%**	100%	Lackawanna	0.800	0.800	0%	0%	0%	0%	0%	100%	0.450	0.800	7.20	12.80	77.8%
Tioga	2.00	41,045	9	21	30	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.544	0.544	13.50	16.31	20.8%
Union	2.00	42,681	30	98	128	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	57.60	57.60	0.0%
Venango	2.00	50,454	18	64	82	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.544	0.544	36.90	44.59	20.8%
Warren	2.00	38,587	16	55	71	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	31.95	31.95	0.0%
Washington	3.00	209,349	78	483	561	0.575	0.575	**28%**	72%	Allegheny	0.575	0.575	0%	0%	0%	34%	0%	66%	0.575	0.575	322.58	322.58	0.0%
Wayne	2.00	51,155	24	57	81	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	36.45	36.45	0.0%
Westmoreland	6.00	354,663	134	731	865	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	19%	0%	81%	0.596	0.600	519.00	519.00	0.0%
Wyoming	2.00	26,069	7	73	80	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	36.00	36.00	0.0%
York	2.00	456,438	534	1,332	1,866	0.450	0.450	100%	0%	n/a	0.450	0.450	43%	0%	0%	0%	0%	57%	0.490	0.490	839.70	914.23	8.9%
Total		13,002,700	19,309	51,779	71,088																46,641	49,456	6.0%
Control		13,002,700	19,309	51,779	71,088																46,641	49,456	
Difference		0	0	0	0																0	0	

Worksheet Control Difference
0

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HPL Cost Factors by County - High End Estimate

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
	per Census Bureau	per PDH 2020 Hospital Questionnaire	Exhibit 2.1	per 2021 Mcare Assessment Manual	Exhibit 3.1	Selected based on (4) and (6)		1 - (8)		per (7)				per PDH 2020 Hospital Questionnaire					MAX((12),(19))	(3) * (7)	MAX((21),(3) * (20))	(23) / (22) - 1
							Reverse 2002					Composition of Occupied Beds										
County	Number of Residents (2020)	OBEs	Commercial Insurance Relativity (MLM)	Mcare Territory (HPL)	Mcare Assessment Relativity (HPL)	Relative Cost $Factor_0$ (HPL)	Weight to Actual County	Weight to Alt County	County Moved To	County Moved to Relativity (HPL)	Cost $Factor_1$ (HPL)	UPMC	Jefferson	University of Pennsylvania Health System	Allegheny Health Network	Lehigh Valley Health Network	All Other	Projected Post-Consoldiation at 100%	Model Cost $Factor_1$ (HPL)	OBEs * Relative Cost $Factor_0$ (HPL)	OBEs * Relative Cost $Factor_1$ (HPL)	Change
Adams	103,852	48.89	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	25.34	25.34	0.0%
Allegheny	1,250,578	4,694.06	0.591	3.00	0.556	0.573	100%	0%	n/a	0.573	0.573	57%	4%	0%	24%	0%	16%	0.590	0.590	2,691.93	2,769.45	2.9%
Armstrong	65,558	42.03	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	21.79	21.79	0.0%
Beaver	168,215	179.74	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	93.17	93.17	0.0%
Bedford	47,577	16.96	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.573	0.573	8.79	9.73	10.6%
Berks	428,849	967.77	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	501.66	501.66	0.0%
Blair	122,822	366.20	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	79%	0%	0%	0%	0%	21%	0.562	0.562	189.83	205.77	8.4%
Bradford	59,967	174.13	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	90.26	90.26	0.0%
Bucks	646,538	610.35	0.779	4.00	0.889	0.834	100%	0%	n/a	0.834	0.834	0%	1%	0%	0%	0%	99%	0.836	0.836	509.18	510.41	0.2%
Butler	193,763	131.08	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	67.95	67.95	0.0%
Cambria	133,472	250.91	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	130.06	130.06	0.0%
Cameron	4,547	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Carbon	64,749	60.27	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	35.90	35.90	0.0%
Centre	158,172	262.01	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	135.82	135.82	0.0%
Chester	534,413	676.36	0.745	4.00	0.889	0.817	100%	0%	n/a	0.817	0.817	0%	0%	26%	0%	0%	74%	0.865	0.865	552.69	585.36	5.9%
Clarion	37,241	107.20	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	55.57	55.57	0.0%
Clearfield	80,562	146.36	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	75.87	75.87	0.0%
Clinton	37,450	8.72	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	90%	0%	0%	0%	0%	10%	0.568	0.568	4.52	4.95	9.5%
Columbia	64,727	33.74	0.747	2.00	0.444	0.596	**62%**	38%	Schuylkill	0.673	0.625	0%	0%	0%	0%	0%	100%	0.596	0.625	20.10	21.09	4.9%
Crawford	83,938	71.61	0.633	3.00	0.556	0.595	100%	0%	n/a	0.595	0.595	0%	0%	0%	0%	0%	100%	0.595	0.595	42.57	42.57	0.0%
Cumberland	259,469	377.52	0.652	2.00	0.444	0.548	100%	0%	n/a	0.548	0.548	32%	0%	0%	0%	0%	68%	0.556	0.556	206.89	209.92	1.5%
Dauphin	286,401	1,272.70	0.665	2.00	0.444	0.555	100%	0%	n/a	0.555	0.555	42%	0%	0%	0%	0%	58%	0.562	0.562	705.75	715.85	1.4%
Delaware	576,830	748.68	0.922	1.00	1.000	0.961	100%	0%	n/a	0.961	0.961	0%	0%	13%	0%	0%	87%	0.966	0.966	719.31	723.22	0.5%
Elk	30,990	13.90	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	7.20	7.20	0.0%
Erie	270,876	627.31	0.633	3.00	0.556	0.595	100%	0%	n/a	0.595	0.595	49%	0%	0%	25%	0%	26%	0.579	0.595	372.94	372.94	0.0%
Fayette	128,804	100.53	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	52.11	52.11	0.0%
Forest	6,973	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Franklin	155,932	239.56	0.652	2.00	0.444	0.548	100%	0%	n/a	0.548	0.548	0%	0%	0%	0%	0%	100%	0.548	0.548	131.28	131.28	0.0%
Fulton	14,556	5.27	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	2.73	2.73	0.0%
Greene	35,954	6.80	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	3.52	3.52	0.0%
Huntingdon	44,092	32.36	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	16.77	16.77	0.0%
Indiana	83,246	65.13	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	33.76	33.76	0.0%
Jefferson	44,492	30.40	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	15.76	15.76	0.0%
Juniata	23,509	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Lackawanna	215,896	596.95	0.868	3.00	0.556	0.712	100%	0%	n/a	0.712	0.712	0%	0%	0%	0%	0%	100%	0.712	0.712	425.02	425.02	0.0%
Lancaster	552,984	713.59	0.593	2.00	0.444	0.518	**34%**	66%	Dauphin/York	0.536	0.530	13%	0%	77%	0%	0%	10%	0.895	0.895	369.90	638.78	72.7%
Lawrence	86,070	107.21	0.633	3.00	0.556	0.595	100%	0%	Erie	0.595	0.595	100%	0%	0%	0%	0%	0%	0.573	0.595	63.74	63.74	0.0%
Lebanon	143,257	197.44	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	102.35	102.35	0.0%
Lehigh	374,557	1,603.76	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	62%	38%	0.667	0.667	955.23	1,070.46	12.1%
Luzerne	325,594	672.01	0.747	3.00	0.556	0.652	100%	0%	n/a	0.652	0.652	0%	0%	0%	0%	15%	85%	0.661	0.661	437.89	444.02	1.4%
Lycoming	114,188	190.67	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	96%	0%	0%	0%	0%	4%	0.571	0.571	98.84	108.93	10.2%
McKean	40,432	44.72	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	10%	0%	0%	0%	0%	90%	0.524	0.524	23.18	23.43	1.1%
Mercer	110,652	159.48	0.650	3.00	0.556	0.603	100%	0%	n/a	0.603	0.603	28%	0%	0%	19%	0%	52%	0.589	0.603	96.16	96.16	0.0%
Mifflin	46,143	62.11	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	32.20	32.20	0.0%
Monroe	168,327	189.75	0.868	2.00	0.444	0.656	100%	0%	n/a	0.656	0.656	0%	0%	0%	0%	59%	41%	0.689	0.689	124.47	130.74	5.0%
Montgomery	856,553	2,105.85	0.779	4.00	0.889	0.834	**26%**	74%	Philadelphia	1.000	0.957	0%	35%	0%	0%	0%	65%	0.892	0.957	1,756.77	2,014.37	14.7%
Montour	18,136	531.95	0.747	2.00	0.444	0.596	**62%**	38%	Schuylkill	0.673	0.625	0%	0%	0%	0%	0%	100%	0.596	0.625	316.84	332.42	4.9%
Northampton	312,951	136.17	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	81.11	81.11	0.0%
Northumberland	91,647	0.00	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	0.00	0.00	0.0%
Perry	45,842	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Philadelphia	1,603,797	4,781.15	1.000	1.00	1.000	1.000	100%	0%	n/a	1.000	1.000	0%	32%	25%	0%	0%	43%	1.000	1.000	4,781.15	4,781.15	0.0%
Pike	58,535	0.00	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	0.00	0.00	0.0%
Potter	16,396	21.46	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.573	0.573	11.13	12.31	10.6%
Schuylkill	143,049	160.40	0.902	2.00	0.444	0.673	100%	0%	n/a	0.673	0.673	0%	0%	0%	0%	67%	33%	0.699	0.699	107.96	112.16	3.9%
Snyder	39,736	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Somerset	74,129	43.43	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	76%	0%	0%	0%	0%	24%	0.560	0.560	22.51	24.34	8.1%
Sullivan	5,840	0.00	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	0.00	0.00	0.0%
Susquehanna	38,434	11.77	0.593	2.00	0.444	0.518	**0%**	100%	Lackawanna	0.712	0.712	0%	0%	0%	0%	0%	100%	0.518	0.712	6.10	8.38	37.4%
Tioga	41,045	16.79	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.573	0.573	8.70	9.63	10.6%
Union	42,681	51.47	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	26.68	26.68	0.0%
Venango	50,454	82.35	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	100%	0%	0%	0%	0%	0%	0.573	0.573	42.69	47.23	10.6%
Warren	38,587	144.95	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	0%	0%	0%	0%	0%	100%	0.518	0.518	75.14	75.14	0.0%
Washington	209,349	358.64	0.593	2.00	0.444	0.518	**28%**	72%	Allegheny	0.573	0.558	0%	0%	0%	12%	0%	88%	0.525	0.558	185.91	200.22	7.7%
Wayne	51,155	106.25	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	63.28	63.28	0.0%
Westmoreland	354,663	702.82	0.610	2.00	0.444	0.527	100%	0%	n/a	0.527	0.527	0%	0%	0%	1%	0%	99%	0.527	0.527	370.28	370.70	0.1%
Wyoming	26,069	7.42	0.747	2.00	0.444	0.596	100%	0%	n/a	0.596	0.596	0%	0%	0%	0%	0%	100%	0.596	0.596	4.42	4.42	0.0%
York	456,438	686.62	0.593	2.00	0.444	0.518	100%	0%	n/a	0.518	0.518	20%	0%	0%	0%	0%	80%	0.529	0.529	355.92	363.41	2.1%
Total	13,002,700	26,855.71																		18,467	19,331	4.7%
Control	13,002,700	26,855.71																		18,467	19,331	
Difference	0	0																		0	0	

Worksheet Control Difference
0

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PPL Cost Factors by County - High End Estimate

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
	per 2021 Mcare Assessment Manual	per Census Bureau	per PDH 2020 Hospital Questionnaire		(4) + (5)	Exhibit 3.2	Selected, equal to (7)		1 - (9)		per (8)				per PDH 2020 Hospital Questionnaire					MAX((13),(20))	(6) * (8)	MAX((22),(6) * (21))	(23) / (22) - 1
								Reverse 2002					Composition of Total Physicians										
County	Territory (PPL)	Number of Residents (2020)	Primary Care Physicians	Specialists	Total Physicians	Mcare/JUA Assessment (PPL)	Relative Cost Factor$_0$ (PPL)	Weight to Actual County	Weight to Alt County	County Moved To	County Moved to Relativity (PPL)	Cost Factor$_1$ (PPL)	UPMC	Jefferson	University of Pennsylvania Health System	Allegheny Health Network	Lehigh Valley Health Network	All Other	Projected Post-Consoldiation at 100%	Model Cost Factor$_1$ (PPL)	# Physicians * Relative Cost Factor$_0$ (PPL)	# Physicians * Relative Cost Factor$_1$ (PPL)	Change
Adams	2.00	103,852	56	59	115	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	51.75	51.75	0.0%
Allegheny	3.00	1,250,578	2,234	10,053	12,287	0.575	0.575	100%	0%	n/a	0.575	0.575	63%	3%	0%	17%	0%	17%	0.588	0.588	7,065.03	7,223.55	2.2%
Armstrong	3.00	65,558	59	220	279	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	160.43	160.43	0.0%
Beaver	3.00	168,215	61	265	326	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	187.45	187.45	0.0%
Bedford	2.00	47,577	14	47	61	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.575	0.575	27.45	35.08	27.8%
Berks	2.00	428,849	465	865	1,330	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	598.50	598.50	0.0%
Blair	7.00	122,822	99	336	435	0.700	0.700	100%	0%	n/a	0.700	0.700	68%	0%	0%	0%	0%	32%	0.615	0.700	304.50	304.50	0.0%
Bradford	2.00	59,967	57	255	312	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	140.40	140.40	0.0%
Bucks	6.00	646,538	868	1,819	2,687	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	6%	0%	0%	0%	94%	0.625	0.625	1,612.20	1,680.20	4.2%
Butler	2.00	193,763	99	234	333	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	149.85	149.85	0.0%
Cambria	2.00	133,472	97	177	274	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	123.30	123.30	0.0%
Cameron	2.00	4,547	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Carbon	3.00	64,749	199	527	726	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	417.45	417.45	0.0%
Centre	2.00	158,172	116	211	327	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	147.15	147.15	0.0%
Chester	6.00	534,413	373	1,494	1,867	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	30%	0%	0%	70%	0.721	0.721	1,120.20	1,345.80	20.1%
Clarion	2.00	37,241	16	26	42	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	18.90	18.90	0.0%
Clearfield	3.00	80,562	82	221	303	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	174.23	174.23	0.0%
Clinton	2.00	37,450	32	6	38	0.450	0.450	100%	0%	n/a	0.450	0.450	84%	0%	0%	0%	0%	16%	0.555	0.555	17.10	21.10	23.4%
Columbia	6.00	64,727	152	1,078	1,230	0.600	0.600	**62%**	38%	Schuylkill	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	738.00	738.00	0.0%
Crawford	6.00	83,938	37	80	117	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	70.20	70.20	0.0%
Cumberland	2.00	259,469	231	675	906	0.450	0.450	100%	0%	n/a	0.450	0.450	43%	0%	0%	0%	0%	57%	0.503	0.503	407.70	455.95	11.8%
Dauphin	3.00	286,401	818	1,966	2,784	0.575	0.575	100%	0%	n/a	0.575	0.575	33%	0%	0%	0%	0%	67%	0.575	0.575	1,600.80	1,600.80	0.0%
Delaware	4.00	576,830	600	1,279	1,879	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	21%	0%	0%	79%	0.801	0.801	1,409.25	1,505.75	6.8%
Elk	2.00	30,990	14	83	97	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	43.65	43.65	0.0%
Erie	6.00	270,876	249	439	688	0.600	0.600	100%	0%	n/a	0.600	0.600	37%	0%	0%	34%	0%	28%	0.582	0.600	412.80	412.80	0.0%
Fayette	4.00	128,804	32	151	183	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	0%	0%	0%	100%	0.750	0.750	137.25	137.25	0.0%
Forest	2.00	6,973	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Franklin	2.00	155,932	170	318	488	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	219.60	219.60	0.0%
Fulton	2.00	14,556	10	26	36	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	16.20	16.20	0.0%
Greene	2.00	35,954	1	21	22	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	9.90	9.90	0.0%
Huntingdon	2.00	44,092	20	221	241	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	108.45	108.45	0.0%
Indiana	2.00	83,246	15	89	104	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	46.80	46.80	0.0%
Jefferson	3.00	44,492	57	107	164	0.575	0.575	100%	0%	n/a	0.575	0.575	0%	0%	0%	0%	0%	100%	0.575	0.575	94.30	94.30	0.0%
Juniata	2.00	23,509	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Lackawanna	5.00	215,896	485	1,362	1,847	0.800	0.800	100%	0%	n/a	0.800	0.800	0%	0%	0%	0%	0%	100%	0.800	0.800	1,477.60	1,477.60	0.0%
Lancaster	2.00	552,984	690	873	1,563	0.450	0.450	**34%**	66%	Dauphin/York	0.513	0.491	32%	0%	60%	0%	0%	8%	0.819	0.819	703.35	1,280.35	82.0%
Lawrence	6.00	86,070	148	207	355	0.600	0.600	100%	0%	Erie	0.600	0.600	100%	0%	0%	0%	0%	0%	0.575	0.600	213.00	213.00	0.0%
Lebanon	2.00	143,257	31	146	177	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	79.65	79.65	0.0%
Lehigh	6.00	374,557	1,592	2,761	4,353	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	38%	62%	0.677	0.677	2,611.80	2,946.80	12.8%
Luzerne	4.00	325,594	1,157	2,152	3,309	0.750	0.750	100%	0%	n/a	0.750	0.750	0%	0%	0%	0%	43%	57%	0.772	0.772	2,481.75	2,553.55	2.9%
Lycoming	2.00	114,188	220	296	516	0.450	0.450	100%	0%	n/a	0.450	0.450	91%	0%	0%	0%	0%	9%	0.564	0.564	232.20	290.83	25.2%
McKean	2.00	40,432	28	61	89	0.450	0.450	100%	0%	n/a	0.450	0.450	18%	0%	0%	0%	0%	82%	0.472	0.472	40.05	42.05	5.0%
Mercer	4.00	110,652	170	326	496	0.750	0.750	100%	0%	n/a	0.750	0.750	49%	0%	0%	10%	0%	41%	0.646	0.750	372.00	372.00	0.0%
Mifflin	2.00	46,143	141	566	707	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	318.15	318.15	0.0%
Monroe	6.00	168,327	347	893	1,240	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	28%	72%	0.656	0.656	744.00	813.80	9.4%
Montgomery	6.00	856,553	1,155	2,655	3,810	0.600	0.600	**26%**	74%	Philadelphia	1.000	0.895	0%	46%	0%	0%	0%	54%	0.783	0.895	2,286.00	3,410.59	49.2%
Montour	2.00	18,136	353	1,106	1,459	0.450	0.450	**62%**	38%	Schuylkill	0.600	0.507	0%	0%	0%	0%	0%	100%	0.450	0.507	656.55	739.32	12.6%
Northampton	6.00	312,951	543	1,068	1,611	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	0%	100%	0.600	0.600	966.60	966.60	0.0%
Northumberland	2.00	91,647	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Perry	2.00	45,842	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Philadelphia	1.00	1,603,797	2,995	9,254	12,249	1.000	1.000	100%	0%	n/a	1.000	1.000	0%	25%	38%	0%	0%	38%	1.000	1.000	12,249.00	12,249.00	0.0%
Pike	2.00	58,535	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Potter	2.00	16,396	16	25	41	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.575	0.575	18.45	23.58	27.8%
Schuylkill	6.00	143,049	1,007	1,637	2,644	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	0%	54%	46%	0.709	0.709	1,586.40	1,873.60	18.1%
Snyder	2.00	39,736	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Somerset	2.00	74,129	41	120	161	0.450	0.450	100%	0%	n/a	0.450	0.450	39%	0%	0%	0%	0%	61%	0.499	0.499	72.45	80.33	10.9%
Sullivan	2.00	5,840	0	0	0	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	0.00	0.00	0.0%
Susquehanna	2.00	38,434	7	9	16	0.450	0.450	**0%**	100%	Lackawanna	0.800	0.800	0%	0%	0%	0%	0%	100%	0.450	0.800	7.20	12.80	77.8%
Tioga	2.00	41,045	9	21	30	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.575	0.575	13.50	17.25	27.8%
Union	2.00	42,681	30	98	128	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	57.60	57.60	0.0%
Venango	2.00	50,454	18	64	82	0.450	0.450	100%	0%	n/a	0.450	0.450	100%	0%	0%	0%	0%	0%	0.575	0.575	36.90	47.15	27.8%
Warren	2.00	38,587	16	55	71	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	31.95	31.95	0.0%
Washington	3.00	209,349	78	483	561	0.575	0.575	**28%**	72%	Allegheny	0.575	0.575	0%	0%	0%	34%	0%	66%	0.575	0.575	322.58	322.58	0.0%
Wayne	2.00	51,155	24	57	81	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	36.45	36.45	0.0%
Westmoreland	6.00	354,663	134	731	865	0.600	0.600	100%	0%	n/a	0.600	0.600	0%	0%	0%	19%	0%	81%	0.595	0.600	519.00	519.00	0.0%
Wyoming	2.00	26,069	7	73	80	0.450	0.450	100%	0%	n/a	0.450	0.450	0%	0%	0%	0%	0%	100%	0.450	0.450	36.00	36.00	0.0%
York	2.00	456,438	534	1,332	1,866	0.450	0.450	100%	0%	n/a	0.450	0.450	43%	0%	0%	0%	0%	57%	0.503	0.503	839.70	939.08	11.8%
Total		13,002,700	19,309	51,779	71,088																46,641	49,990	7.2%
Control		13,002,700	19,309	51,779	71,088																46,641	49,990	
Difference		0	0	0	0																0	0	

Worksheet Control Difference
0

Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

Mcare Total Charges

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
						per 2021 Medical Liability Monitor							Avg ((2), (5), (8), (11))	Avg ((3), (6), (9), (12))	Avg ((4), (7), (10), (13))	(14) / Philadelphia(14)	(15) / Philadelphia(15)	(16) / Philadelphia(16)	Selected
	Norcal			Pro Assurance Casualty Co.			Curi			The Doctors Company			Selected			Relativity			
County	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Relativity
Adams	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Allegheny	13,640	48,681	63,020	13,063	43,951	60,768	12,904	56,631	72,260	12,904	45,928	54,604	13,128	48,798	62,663	0.610	0.584	0.579	0.591
Armstrong	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Beaver	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Bedford	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Berks	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Blair	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Bradford	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Bucks	15,708	58,365	75,911	17,779	60,513	84,318	21,453	94,467	120,559	12,904	45,928	54,604	16,961	64,818	83,848	0.788	0.775	0.775	0.779
Butler	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Cambria	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Cameron	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Carbon	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Centre	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Chester	15,708	58,365	75,911	14,732	49,851	69,086	21,453	94,467	120,559	12,904	45,928	54,604	16,199	62,153	80,040	0.753	0.743	0.740	0.745
Clarion	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Clearfield	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Clinton	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Columbia	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Crawford	15,426	56,520	73,242	13,230	44,372	61,694	12,904	56,631	72,260	14,326	52,207	62,285	13,972	52,433	67,370	0.649	0.627	0.622	0.633
Cumberland	15,708	58,365	75,911	13,230	44,372	61,694	15,339	67,844	86,668	12,904	45,928	54,604	14,295	54,127	69,719	0.664	0.647	0.644	0.652
Dauphin	16,579	63,051	82,392	13,230	44,372	61,694	15,339	67,844	86,668	12,904	45,928	54,604	14,513	55,299	71,340	0.675	0.661	0.659	0.665
Delaware	20,105	78,484	102,503	17,779	60,513	84,318	21,453	94,467	120,559	19,606	76,167	91,488	19,736	77,408	99,717	0.917	0.926	0.921	0.922
Elk	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Erie	15,426	56,520	73,242	13,230	44,372	61,694	12,904	56,631	72,260	14,326	52,207	62,285	13,972	52,433	67,370	0.649	0.627	0.622	0.633
Fayette	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Forest	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Franklin	15,708	58,365	75,911	13,230	44,372	61,694	15,339	67,844	86,668	12,904	45,928	54,604	14,295	54,127	69,719	0.664	0.647	0.644	0.652
Fulton	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Greene	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Huntingdon	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Indiana	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Jefferson	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Juniata	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Lackawanna	20,105	78,484	102,503	14,732	49,851	69,086	19,809	87,514	111,755	19,552	76,670	91,989	18,550	73,130	93,833	0.862	0.875	0.867	0.868
Lancaster	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Lawrence	15,426	56,520	73,242	13,230	44,372	61,694	12,904	56,631	72,260	14,326	52,207	62,285	13,972	52,433	67,370	0.649	0.627	0.622	0.633
Lebanon	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Lehigh	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Luzerne	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Lycoming	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
McKean	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Mercer	15,426	56,520	73,242	14,732	49,851	69,086	12,904	56,631	72,260	14,326	52,207	62,285	14,347	53,802	69,218	0.667	0.644	0.640	0.650
Mifflin	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Monroe	20,105	78,484	102,503	14,732	49,851	69,086	19,809	87,514	111,755	19,552	76,670	91,989	18,550	73,130	93,833	0.862	0.875	0.867	0.868
Montgomery	15,708	58,365	75,911	17,779	60,513	84,318	21,453	94,467	120,559	12,904	45,928	54,604	16,961	64,818	83,848	0.788	0.775	0.775	0.779
Montour	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Northampton	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Northumberland	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Perry	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Philadelphia	20,121	77,865	101,398	24,873	85,930	119,466	21,453	94,467	120,559	19,606	76,167	91,488	21,513	83,607	108,228	1.000	1.000	1.000	1.000
Pike	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Potter	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Schuylkill	20,105	78,484	102,503	17,779	60,513	84,318	19,809	87,514	111,755	19,552	76,670	91,989	19,311	75,795	97,641	0.898	0.907	0.902	0.902
Snyder	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Somerset	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Sullivan	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Susquehanna	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Tioga	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Union	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Venango	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Warren	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Washington	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593
Wayne	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
Westmoreland	13,640	48,681	63,020	14,732	49,851	69,086	12,904	56,631	72,260	12,904	45,928	54,604	13,545	50,273	64,743	0.630	0.601	0.598	0.610
Wyoming	16,579	63,051	82,392	13,230	44,372	61,694	17,217	75,696	96,593	17,603	67,231	80,573	16,157	62,588	80,313	0.751	0.749	0.742	0.747
York	13,640	48,681	63,020	13,230	44,372	61,694	12,904	56,631	72,260	12,904	45,928	54,604	13,170	48,903	62,895	0.612	0.585	0.581	0.593

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Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

Mcare Surcharges

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
						per 2021 Medical Liability Monitor							Avg ((2), (5), (8), (11))	Avg ((3), (6), (9), (12))	Avg ((4), (7), (10), (13))	(14) / Philadelphia(14)	(15) / Philadelphia(15)	(16) / Philadelphia(16)	Selected
	Norcal			Pro Assurance Casualty Co.			Curi			The Doctors Company			Selected			Relativity			
County	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Internal Medicine	General Surgery	OB/Gyn	Relativity
Adams	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Allegheny	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Armstrong	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Beaver	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Bedford	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Berks	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Blair	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Bradford	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Bucks	2,537	9,357	11,613	2,537	9,357	11,613	4,175	15,677	19,480	2,380	8,752	10,859	2,907	10,786	13,391	0.696	0.688	0.687	0.691
Butler	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Cambria	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Cameron	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Carbon	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Centre	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Chester	2,537	9,357	11,613	2,537	9,357	11,613	4,175	15,677	19,480	2,380	8,752	10,859	2,907	10,786	13,391	0.696	0.688	0.687	0.691
Clarion	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Clearfield	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Clinton	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Columbia	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Crawford	3,104	11,547	14,338	3,104	11,547	14,338	2,537	9,357	11,613	2,537	9,357	11,613	2,821	10,452	12,976	0.676	0.667	0.666	0.669
Cumberland	2,537	9,357	11,613	2,537	9,357	11,613	2,380	8,752	10,859	2,380	8,752	10,859	2,459	9,055	11,236	0.589	0.578	0.577	0.581
Dauphin	1,921	6,982	8,655	1,921	6,982	8,655	2,380	8,752	10,859	1,921	6,982	8,655	2,036	7,425	9,206	0.488	0.474	0.473	0.478
Delaware	4,175	15,677	19,480	2,537	9,357	11,613	4,175	15,677	19,480	4,175	15,677	19,480	3,766	14,097	17,513	0.902	0.899	0.899	0.900
Elk	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Erie	3,104	11,547	14,338	3,104	11,547	14,338	2,537	9,357	11,613	2,537	9,357	11,613	2,821	10,452	12,976	0.676	0.667	0.666	0.669
Fayette	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Forest	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Franklin	2,537	9,357	11,613	2,537	9,357	11,613	2,380	8,752	10,859	2,380	8,752	10,859	2,459	9,055	11,236	0.589	0.578	0.577	0.581
Fulton	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Greene	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Huntingdon	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Indiana	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Jefferson	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Juniata	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Lackawanna	3,394	12,664	15,730	2,537	9,357	11,613	3,394	12,664	15,730	3,394	12,664	15,730	3,180	11,837	14,701	0.762	0.755	0.755	0.757
Lancaster	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Lawrence	3,104	11,547	14,338	3,104	11,547	14,338	3,104	11,547	14,338	2,537	9,357	11,613	2,962	11,000	13,657	0.710	0.702	0.701	0.704
Lebanon	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Lehigh	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Luzerne	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Lycoming	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
McKean	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Mercer	3,104	11,547	14,338	2,537	9,357	11,613	2,537	9,357	11,613	2,537	9,357	11,613	2,679	9,905	12,294	0.642	0.632	0.631	0.635
Mifflin	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Monroe	3,394	12,664	15,730	2,537	9,357	11,613	3,394	12,664	15,730	3,394	12,664	15,730	3,180	11,837	14,701	0.762	0.755	0.755	0.757
Montgomery	2,537	9,357	11,613	2,537	9,357	11,613	4,175	15,677	19,480	2,380	8,752	10,859	2,907	10,786	13,391	0.696	0.688	0.687	0.691
Montour	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Northampton	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Northumberland	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Perry	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Philadelphia	4,175	15,677	19,480	4,175	15,677	19,480	4,175	15,677	19,480	4,175	15,677	19,480	4,175	15,677	19,480	1.000	1.000	1.000	1.000
Pike	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Potter	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Schuylkill	3,394	12,664	15,730	2,537	9,357	11,613	3,394	12,664	15,730	3,394	12,664	15,730	3,180	11,837	14,701	0.762	0.755	0.755	0.757
Snyder	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Somerset	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Sullivan	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Susquehanna	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Tioga	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Union	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Venango	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Warren	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Washington	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534
Wayne	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
Westmoreland	2,380	8,752	10,859	2,537	9,357	11,613	2,537	9,357	11,613	1,921	6,982	8,655	2,344	8,612	10,685	0.561	0.549	0.549	0.553
Wyoming	1,921	6,982	8,655	1,921	6,982	8,655	3,394	12,664	15,730	3,394	12,664	15,730	2,658	9,823	12,193	0.637	0.627	0.626	0.630
York	2,380	8,752	10,859	2,380	8,752	10,859	2,380	8,752	10,859	1,921	6,982	8,655	2,265	8,310	10,308	0.543	0.530	0.529	0.534

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Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

Hospitals, Nursing Homes and Primary Health Centers
Prevailing Primary Premiums

(1)	(2)	(3)	(4)	(5)	(6)
		per 2021 Mcare Assessment Manual			
		Rate			
Exposure Base	Exposure Type	Territory 1	Territory 2	Territory 3	Territory 4
Hospitals					
Per Occupied Bed	Hospital (Acute Care)	7,600.44	3,374.58	4,225.83	6,756.80
Per Occupied Bed	Mental Health/Mental Rehabilitation	3,803.48	1,688.75	2,114.73	3,381.28
Per Occupied Bed	Extended Care	338.37	150.23	188.13	300.80
Per Occupied Bed	Outpatient Surgical	7,600.44	3,374.58	4,225.83	6,756.80
Per Occupied Bed	Health Institution	1,522.70	676.07	846.62	1,353.66
Per 100 Visits	Emergency	759.73	337.33	422.41	675.40
Per 100 Visits	Other	303.89	134.93	168.97	270.16
Per 100 Visits	Mental Health/Mental Rehabilitation	189.95	84.32	105.58	168.84
Per 100 Visits	Extended Care	16.86	7.50	9.36	15.01
Per 100 Visits	Outpatient Surgical	759.73	337.33	422.41	675.40
Per 100 Visits	Health Institution	113.94	50.60	63.36	101.30
Per 100 Visits	Home Health Care	189.95	84.32	105.58	168.84
Nursing Homes					
Per Occupied Bed	Convalescent	516.81	229.49	287.37	459.46
Per Occupied Bed	Skilled Nursing	425.63	188.99	236.65	378.39
Primary Health Centers					
Per 100 Visits	Emergency	747.59	331.91	415.67	664.60
Per 100 Visits	Other	299.04	132.76	166.27	265.85
Per 100 Visits	Mental Health/Mental Rehabilitation	186.92	83.00	103.93	166.18
Per 100 Visits	Outpatient Surgical	747.59	331.91	415.67	664.60
Per 100 Visits	Home Health Care	186.92	83.00	103.93	166.18
Total		26,310	11,682	14,628	23,390
Control		26,310	11,682	14,628	23,390
Difference		0	0	0	0

	Territory 1	Territory 2	Territory 3	Territory 4
Total Hospitals Per Occupied Bed	20,865.43	9,264.21	11,601.14	18,549.34
Selected Relativity	1.000	0.444	0.556	0.889

Note:
Territory 1: Delaware (23), Philadelphia (51)
Territory 2: Remainder of State
Territory 3: Allegheny (02), Crawford (20), Erie (25), Lackawanna (35), Lawrence (37), Luzerne (40), Mercer (43)
Territory 4: Bucks (09), Chester (15), Montgomery (46)

Worksheet Control Difference
0

Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

Physicians, Surgeons, Podiatrists, and Certified Nurse Midwives
Prevailing Primary Premium / Assessment

per 2021 Mcare Assessment Manual

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
	Territory 1		Territory 2		Territory 3		Territory 4		Territory 5		Territory 6		Territory 7	
Class	PPP	Assess	PPP	Assess	PPP	Assess	PPP	Assess	PPP	Assess	PPP	Assess	PPP	Assess
005	4,243	806	2,309	439	2,703	514	3,324	632	3,573	679	2,838	539	3,324	632
006	8,310	1,579	4,099	779	4,956	942	6,309	1,199	6,851	1,302	5,249	997	6,221	1,182
007	14,812	2,814	6,960	1,322	8,558	1,626	11,082	2,106	12,092	2,297	9,105	1,730	11,082	2,106
010	10,682	2,030	5,143	977	6,270	1,191	8,051	1,530	8,763	1,665	6,656	1,265	8,051	1,530
012	30,762	5,845	13,978	2,656	17,395	3,305	22,790	4,330	24,948	4,740	18,564	3,527	21,404	4,067
015	21,972	4,175	10,110	1,921	12,525	2,380	16,337	3,104	17,862	3,394	13,351	2,537	15,616	2,967
017	21,506	4,086	9,905	1,882	12,267	2,331	15,995	3,039	17,487	3,323	13,074	2,484	15,853	3,012
020	24,916	4,734	11,405	2,167	14,156	2,690	18,498	3,515	20,236	3,845	15,097	2,868	17,252	3,278
022	34,532	6,561	15,637	2,971	19,483	3,702	25,557	4,856	27,986	5,317	20,799	3,952	23,481	4,461
025	37,519	7,129	16,951	3,221	21,138	4,016	27,749	5,272	28,893	5,490	22,570	4,288	24,468	4,649
030	34,109	6,481	15,450	2,936	19,249	3,657	25,246	4,797	27,645	5,253	20,548	3,904	23,938	4,548
035	51,478	9,781	23,093	4,388	28,871	5,485	37,995	7,219	41,265	7,840	30,848	5,861	34,246	6,507
050	44,678	8,489	20,101	3,819	25,104	4,770	33,004	6,271	36,164	6,871	26,816	5,095	32,523	6,179
060	52,092	9,897	23,363	4,439	29,211	5,550	38,446	7,305	42,139	8,006	31,212	5,930	38,267	7,271
070	82,509	15,677	36,746	6,982	46,062	8,752	60,772	11,547	66,655	12,664	49,249	9,357	58,428	11,101
080	102,525	19,480	45,554	8,655	57,151	10,859	75,464	14,338	82,789	15,730	61,119	11,613	69,988	13,298
090	55,121	10,473	24,696	4,692	30,889	5,869	40,669	7,727	44,581	8,470	33,008	6,272	40,669	7,727
100	158,466	30,109	70,168	13,332	88,143	16,747	116,524	22,140	127,877	24,297	94,292	17,915	111,901	21,261
120	4,984	947	2,635	501	3,114	592	3,868	735	4,170	792	3,277	623	3,868	735
130	36,058	6,851	16,308	3,099	20,328	3,862	26,676	5,068	27,683	5,260	21,704	4,124	23,024	4,375
900	33,071	6,283	14,994	2,849	18,674	3,548	24,484	4,652	26,434	5,022	19,933	3,787	21,993	4,179
Total	864,345	164,227	389,605	74,027	486,247	92,388	638,840	121,382	696,093	132,257	519,309	98,668	605,597	115,065
Control	864,345	164,227	389,605	74,027	486,247	92,388	638,840	121,382	696,093	132,257	519,309	98,668	605,597	115,065
Difference	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	Territory 1	Territory 2	Territory 3	Territory 4	Territory 5	Territory 6	Territory 7
Selected Relativity	1.000	0.450	0.575	0.750	0.800	0.600	0.700

Note:
Territory 1: Philadelphia (51)
Territory 2: Remainder of State (01, 05, 06, 08, 10-12, 14, 16, 18, 21, 24, 27-32, 34, 36, 38, 41, 42, 44, 47, 49, 50, 52, 53, 55-62, 64, 66, 67)
Territory 3: Allegheny (02), Armstrong (03), Beaver (04), Carbon (13), Clearfield (17), Dauphin (22), Jefferson (33), Washington (63)
Territory 4: Delaware (23), Fayette (26), Luzerne (40), Mercer (43)
Territory 5: Lackawanna (35)
Territory 6: Bucks (09), Chester (15), Columbia (19), Crawford (20), Erie (25), Lawrence (37), Lehigh (39), Monroe (45), Montgomery (46), Northampton (48), Schuylkill (54), Westmoreland (65)
Territory 7: Blair (07)

Worksheet Control Difference
0

Pennsylvania State Senate Judiciary Committee

Medical Professional Liability Venue Rule

Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Adams	2000-02 Average	5	2005	2020	1.548	0.676	3.546
	2003	8	2005	2020	1.585	0.406	6.190
	2004	2	2005	2020	1.603	0.424	6.060
	2005	0	2005	2020	1.622	0.442	5.950
	2006	1	2005	2020	1.642	0.460	5.859
	2007	3	2005	2020	1.661	0.477	5.788
	2008	3	2005	2020	1.681	0.492	5.737
	2009	2	2005	2020	1.701	0.507	5.706
	2010	1	2005	2020	1.721	0.520	5.696
	2011	1	2005	2020	1.741	0.531	5.707
	2012	2	2005	2020	1.762	0.541	5.741
	2013	3	2005	2020	1.783	0.548	5.797
	2014	1	2005	2020	1.804	0.554	5.877
	2015	1	2005	2020	1.825	0.557	5.982
	2016	3	2005	2020	1.847	0.558	6.112
	2017	3	2005	2020	1.869	0.557	6.269
	2018	2	2005	2020	1.891	0.554	6.453
	2019	1	2005	2020	1.913	0.549	6.666
	2020	3	2005	2020	1.936	0.542	6.909
Allegheny	2000-02 Average	396	2005	2020	321.686	278.952	370.967
	2003	272	2005	2020	312.794	247.004	396.107
	2004	297	2005	2020	308.440	244.727	388.741
	2005	324	2005	2020	304.147	242.363	381.681
	2006	301	2005	2020	299.914	239.909	374.927
	2007	262	2005	2020	295.739	237.362	368.474
	2008	275	2005	2020	291.623	234.721	362.320
	2009	263	2005	2020	287.564	231.984	356.460
	2010	326	2005	2020	283.562	229.152	350.890
	2011	293	2005	2020	279.615	226.225	345.604
	2012	281	2005	2020	275.723	223.207	340.595
	2013	296	2005	2020	271.885	220.100	335.855
	2014	278	2005	2020	268.101	216.910	331.374
	2015	245	2005	2020	264.370	213.642	327.141
	2016	271	2005	2020	260.690	210.304	323.147
	2017	224	2005	2020	257.062	206.903	319.379
	2018	289	2005	2020	253.484	203.448	315.826
	2019	217	2005	2020	249.956	199.946	312.473
	2020	262	2005	2020	246.477	196.407	309.309
Armstrong	2000-02 Average	4	2005	2020	2.227	0.993	4.996
	2003	2	2005	2020	2.352	0.617	8.971
	2004	3	2005	2020	2.418	0.651	8.975
	2005	3	2005	2020	2.485	0.686	9.002
	2006	3	2005	2020	2.554	0.720	9.053
	2007	2	2005	2020	2.625	0.755	9.130
	2008	4	2005	2020	2.698	0.788	9.234
	2009	1	2005	2020	2.773	0.821	9.368
	2010	2	2005	2020	2.850	0.852	9.535
	2011	2	2005	2020	2.929	0.881	9.735
	2012	8	2005	2020	3.010	0.909	9.973
	2013	4	2005	2020	3.094	0.934	10.250
	2014	4	2005	2020	3.180	0.957	10.569
	2015	4	2005	2020	3.268	0.977	10.935
	2016	4	2005	2020	3.359	0.994	11.350
	2017	3	2005	2020	3.452	1.009	11.817
	2018	2	2005	2020	3.548	1.020	12.342
	2019	8	2005	2020	3.647	1.029	12.927
	2020	2	2005	2020	3.748	1.035	13.579
Beaver	2000-02 Average	23	2005	2020	15.326	9.171	25.612
	2003	17	2005	2020	15.057	6.431	35.253
	2004	14	2005	2020	14.925	6.485	34.349
	2005	15	2005	2020	14.793	6.528	33.522
	2006	12	2005	2020	14.663	6.561	32.770
	2007	10	2005	2020	14.534	6.582	32.093
	2008	11	2005	2020	14.406	6.591	31.488
	2009	15	2005	2020	14.279	6.587	30.954
	2010	16	2005	2020	14.153	6.570	30.490
	2011	14	2005	2020	14.028	6.539	30.096
	2012	21	2005	2020	13.905	6.495	29.768
	2013	21	2005	2020	13.782	6.438	29.506
	2014	12	2005	2020	13.661	6.368	29.307
	2015	26	2005	2020	13.541	6.285	29.171
	2016	14	2005	2020	13.421	6.191	29.095
	2017	13	2005	2020	13.303	6.086	29.077
	2018	14	2005	2020	13.186	5.971	29.116
	2019	13	2005	2020	13.070	5.848	29.209
	2020	6	2005	2020	12.955	5.717	29.355
Bedford	2000-02 Average	2	2005	2020	3.122	1.008	9.673
	2003	5	2005	2020	3.106	0.522	18.464
	2004	0	2005	2020	3.097	0.565	16.990
	2005	0	2005	2020	3.089	0.607	15.729
	2006	4	2005	2020	3.081	0.647	14.663
	2007	0	2005	2020	3.073	0.685	13.776
	2008	0	2005	2020	3.064	0.719	13.057
	2009	3	2005	2020	3.056	0.747	12.498
	2010	2	2005	2020	3.048	0.769	12.090
	2011	4	2005	2020	3.040	0.781	11.828
	2012	5	2005	2020	3.032	0.785	11.711
	2013	1	2005	2020	3.024	0.779	11.734
	2014	0	2005	2020	3.016	0.764	11.899
	2015	3	2005	2020	3.008	0.741	12.205
	2016	5	2005	2020	3.000	0.711	12.655
	2017	3	2005	2020	2.992	0.675	13.253
	2018	0	2005	2020	2.984	0.636	14.005
	2019	0	2005	2020	2.976	0.594	14.919
	2020	0	2005	2020	2.968	0.550	16.006

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Pennsylvania State Senate Judiciary Committee
Medical Professional Liability Venue Rule

Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Berks	2000-02 Average	36	2006	2016	26.878	20.343	35.510
	2003	12	2006	2016	26.758	17.213	41.598
	2004	13	2006	2016	26.699	17.493	40.750
	2005	14	2006	2016	26.639	17.746	39.990
	2006	27	2006	2016	26.580	17.966	39.323
	2007	23	2006	2016	26.521	18.149	38.754
	2008	24	2006	2016	26.462	18.289	38.288
	2009	37	2006	2016	26.403	18.380	37.927
	2010	30	2006	2016	26.344	18.421	37.676
	2011	22	2006	2016	26.286	18.407	37.537
	2012	26	2006	2016	26.227	18.339	37.509
	2013	24	2006	2016	26.169	18.217	37.591
	2014	25	2006	2016	26.111	18.046	37.779
	2015	27	2006	2016	26.052	17.829	38.070
	2016	27	2006	2016	25.995	17.571	38.457
	2017	32	2006	2016	25.937	17.278	38.935
	2018	34	2006	2016	25.879	16.956	39.499
	2019	33	2006	2016	25.821	16.610	40.141
	2020	33	2006	2016	25.764	16.246	40.858
Blair	2000-02 Average	25	2009	2020	19.332	13.753	27.174
	2003	21	2009	2020	18.848	10.937	32.481
	2004	24	2009	2020	18.610	11.031	31.397
	2005	4	2009	2020	18.376	11.113	30.384
	2006	10	2009	2020	18.144	11.182	29.442
	2007	13	2009	2020	17.915	11.234	28.570
	2008	11	2009	2020	17.689	11.268	27.770
	2009	17	2009	2020	17.466	11.282	27.040
	2010	15	2009	2020	17.246	11.274	26.382
	2011	20	2009	2020	17.029	11.242	25.794
	2012	20	2009	2020	16.814	11.184	25.278
	2013	15	2009	2020	16.602	11.099	24.833
	2014	15	2009	2020	16.393	10.988	24.457
	2015	18	2009	2020	16.186	10.849	24.149
	2016	16	2009	2020	15.982	10.685	23.906
	2017	15	2009	2020	15.781	10.497	23.725
	2018	16	2009	2020	15.582	10.287	23.603
	2019	11	2009	2020	15.385	10.058	23.535
	2020	20	2009	2020	15.191	9.813	23.518
Bradford	2000-02 Average	7	2005	2020	3.379	1.466	7.789
	2003	6	2005	2020	3.598	0.902	14.357
	2004	10	2005	2020	3.714	0.957	14.409
	2005	2	2005	2020	3.832	1.013	14.499
	2006	4	2005	2020	3.955	1.069	14.630
	2007	5	2005	2020	4.082	1.125	14.805
	2008	7	2005	2020	4.212	1.181	15.028
	2009	8	2005	2020	4.347	1.235	15.302
	2010	7	2005	2020	4.486	1.287	15.633
	2011	1	2005	2020	4.630	1.338	16.023
	2012	5	2005	2020	4.778	1.385	16.479
	2013	6	2005	2020	4.931	1.429	17.007
	2014	7	2005	2020	5.088	1.470	17.611
	2015	5	2005	2020	5.251	1.507	18.299
	2016	8	2005	2020	5.419	1.539	19.077
	2017	5	2005	2020	5.593	1.568	19.953
	2018	4	2005	2020	5.771	1.591	20.935
	2019	4	2005	2020	5.956	1.610	22.032
	2020	9	2005	2020	6.147	1.625	23.255
Bucks	2000-02 Average	52	2005	2020	52.301	38.489	71.070
	2003	3	2005	2020	53.133	31.969	88.308
	2004	43	2005	2020	53.554	32.554	88.102
	2005	62	2005	2020	53.978	33.117	87.980
	2006	51	2005	2020	54.406	33.657	87.948
	2007	66	2005	2020	54.837	34.168	88.009
	2008	58	2005	2020	55.272	34.649	88.169
	2009	55	2005	2020	55.710	35.096	88.431
	2010	56	2005	2020	56.151	35.506	88.801
	2011	30	2005	2020	56.596	35.877	89.281
	2012	55	2005	2020	57.045	36.207	89.875
	2013	59	2005	2020	57.497	36.494	90.588
	2014	56	2005	2020	57.953	36.737	91.420
	2015	72	2005	2020	58.412	36.936	92.375
	2016	72	2005	2020	58.875	37.090	93.455
	2017	59	2005	2020	59.341	37.200	94.660
	2018	70	2005	2020	59.812	37.268	95.993
	2019	54	2005	2020	60.286	37.294	97.452
	2020	57	2005	2020	60.763	37.280	99.039
Butler	2000-02 Average	26	2005	2020	8.151	4.201	15.815
	2003	16	2005	2020	8.392	2.799	25.163
	2004	15	2005	2020	8.515	2.903	24.974
	2005	13	2005	2020	8.640	3.005	24.837
	2006	8	2005	2020	8.766	3.104	24.756
	2007	7	2005	2020	8.895	3.199	24.731
	2008	6	2005	2020	9.026	3.289	24.767
	2009	7	2005	2020	9.158	3.373	24.864
	2010	11	2005	2020	9.293	3.450	25.027
	2011	16	2005	2020	9.429	3.520	25.257
	2012	7	2005	2020	9.567	3.581	25.558
	2013	15	2005	2020	9.708	3.634	25.933
	2014	18	2005	2020	9.850	3.677	26.385
	2015	10	2005	2020	9.995	3.711	26.918
	2016	7	2005	2020	10.141	3.735	27.534
	2017	4	2005	2020	10.290	3.750	28.237
	2018	9	2005	2020	10.441	3.755	29.030
	2019	12	2005	2020	10.594	3.752	29.918
	2020	18	2005	2020	10.750	3.739	30.904

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Cambria	2000-02 Average	28	2005	2009	8.707	1.860	40.750
	2003	32	2005	2009	8.343	1.083	64.275
	2004	11	2005	2009	8.167	1.394	47.862
	2005	6	2005	2009	7.995	1.708	37.421
	2006	11	2005	2009	7.827	1.947	31.460
	2007	10	2005	2009	7.662	2.013	29.161
	2008	5	2005	2009	7.500	1.866	30.148
	2009	8	2005	2009	7.342	1.569	34.363
	2010	15	2005	2009	7.187	1.226	42.118
	2011	20	2005	2009	7.036	0.913	54.201
	2012	12	2005	2009	6.887	0.659	72.002
	2013	17	2005	2009	6.742	0.465	97.670
	2014	24	2005	2009	6.600	0.324	134.373
	2015	11	2005	2009	6.461	0.224	186.697
	2016	16	2005	2009	6.325	0.153	261.233
	2017	14	2005	2009	6.191	0.104	367.437
	2018	12	2005	2009	6.061	0.071	518.856
	2019	23	2005	2009	5.933	0.048	734.903
	2020	18	2005	2009	5.808	0.032	1043.403
Cameron/Elk	2000-02 Average	4	2005	2020	2.808	1.303	6.053
	2003	2	2005	2020	2.779	0.779	9.915
	2004	2	2005	2020	2.764	0.795	9.612
	2005	4	2005	2020	2.749	0.809	9.342
	2006	1	2005	2020	2.734	0.821	9.102
	2007	3	2005	2020	2.720	0.832	8.892
	2008	2	2005	2020	2.705	0.840	8.710
	2009	3	2005	2020	2.691	0.846	8.558
	2010	3	2005	2020	2.676	0.849	8.433
	2011	2	2005	2020	2.662	0.850	8.336
	2012	5	2005	2020	2.648	0.848	8.265
	2013	3	2005	2020	2.634	0.844	8.221
	2014	3	2005	2020	2.620	0.837	8.203
	2015	6	2005	2020	2.606	0.827	8.211
	2016	2	2005	2020	2.592	0.815	8.243
	2017	3	2005	2020	2.578	0.801	8.301
	2018	4	2005	2020	2.564	0.784	8.384
	2019	2	2005	2020	2.551	0.766	8.490
	2020	1	2005	2020	2.537	0.747	8.622
Carbon	2000-02 Average	5	2005	2020	7.063	2.421	20.601
	2003	12	2005	2020	6.276	1.075	36.646
	2004	4	2005	2020	5.917	1.054	33.212
	2005	2	2005	2020	5.578	1.029	30.221
	2006	9	2005	2020	5.258	1.001	27.616
	2007	6	2005	2020	4.957	0.969	25.349
	2008	8	2005	2020	4.673	0.934	23.378
	2009	4	2005	2020	4.405	0.896	21.667
	2010	8	2005	2020	4.153	0.854	20.182
	2011	5	2005	2020	3.915	0.811	18.898
	2012	3	2005	2020	3.690	0.766	17.788
	2013	5	2005	2020	3.479	0.719	16.832
	2014	1	2005	2020	3.279	0.672	16.011
	2015	1	2005	2020	3.092	0.624	15.308
	2016	0	2005	2020	2.914	0.577	14.710
	2017	5	2005	2020	2.747	0.531	14.203
	2018	5	2005	2020	2.590	0.487	13.778
	2019	0	2005	2020	2.442	0.444	13.424
	2020	2	2005	2020	2.302	0.403	13.134
Centre	2000-02 Average	14	2005	2020	6.749	4.016	11.340
	2003	10	2005	2020	7.051	2.984	16.660
	2004	7	2005	2020	7.207	3.103	16.737
	2005	6	2005	2020	7.366	3.222	16.841
	2006	10	2005	2020	7.529	3.340	16.975
	2007	5	2005	2020	7.696	3.456	17.140
	2008	14	2005	2020	7.866	3.569	17.340
	2009	5	2005	2020	8.041	3.678	17.577
	2010	10	2005	2020	8.219	3.783	17.853
	2011	7	2005	2020	8.401	3.883	18.172
	2012	6	2005	2020	8.586	3.978	18.534
	2013	12	2005	2020	8.777	4.066	18.945
	2014	15	2005	2020	8.971	4.147	19.405
	2015	10	2005	2020	9.169	4.221	19.919
	2016	9	2005	2020	9.372	4.287	20.489
	2017	13	2005	2020	9.580	4.346	21.118
	2018	7	2005	2020	9.792	4.397	21.809
	2019	8	2005	2020	10.009	4.440	22.565
	2020	10	2005	2020	10.230	4.475	23.389
Chester	2000-02 Average	39	2005	2020	29.808	21.420	41.481
	2003	39	2005	2020	30.423	17.597	52.598
	2004	35	2005	2020	30.735	17.974	52.555
	2005	41	2005	2020	31.050	18.341	52.566
	2006	32	2005	2020	31.369	18.695	52.635
	2007	34	2005	2020	31.691	19.034	52.765
	2008	40	2005	2020	32.016	19.356	52.958
	2009	20	2005	2020	32.345	19.658	53.218
	2010	32	2005	2020	32.677	19.940	53.549
	2011	24	2005	2020	33.012	20.199	53.953
	2012	37	2005	2020	33.351	20.434	54.433
	2013	31	2005	2020	33.693	20.644	54.992
	2014	35	2005	2020	34.039	20.827	55.631
	2015	27	2005	2020	34.388	20.984	56.354
	2016	45	2005	2020	34.741	21.115	57.161
	2017	34	2005	2020	35.098	21.219	58.055
	2018	34	2005	2020	35.458	21.296	59.037
	2019	47	2005	2020	35.822	21.349	60.107
	2020	35	2005	2020	36.190	21.377	61.267

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Clarion	2000-02 Average	3	2005	2020	3.513	1.281	9.634
	2003	5	2005	2020	3.329	0.629	17.608
	2004	3	2005	2020	3.240	0.635	16.525
	2005	7	2005	2020	3.154	0.640	15.556
	2006	1	2005	2020	3.071	0.642	14.693
	2007	5	2005	2020	2.989	0.642	13.926
	2008	3	2005	2020	2.910	0.639	13.249
	2009	0	2005	2020	2.832	0.634	12.652
	2010	0	2005	2020	2.757	0.627	12.132
	2011	0	2005	2020	2.684	0.617	11.681
	2012	1	2005	2020	2.613	0.604	11.294
	2013	4	2005	2020	2.543	0.590	10.967
	2014	3	2005	2020	2.476	0.573	10.695
	2015	2	2005	2020	2.410	0.555	10.475
	2016	3	2005	2020	2.346	0.534	10.303
	2017	2	2005	2020	2.284	0.513	10.176
	2018	4	2005	2020	2.223	0.490	10.091
	2019	1	2005	2020	2.164	0.466	10.046
	2020	3	2005	2020	2.107	0.442	10.038
Clearfield	2000-02 Average	9	2005	2020	2.607	0.605	11.233
	2003	4	2005	2020	3.074	0.273	34.553
	2004	5	2005	2020	3.337	0.312	35.732
	2005	7	2005	2020	3.624	0.354	37.120
	2006	12	2005	2020	3.934	0.399	38.749
	2007	4	2005	2020	4.272	0.449	40.654
	2008	6	2005	2020	4.638	0.502	42.881
	2009	4	2005	2020	5.036	0.558	45.479
	2010	1	2005	2020	5.468	0.616	48.510
	2011	7	2005	2020	5.936	0.677	52.046
	2012	9	2005	2020	6.446	0.740	56.173
	2013	1	2005	2020	6.998	0.803	60.990
	2014	9	2005	2020	7.598	0.867	66.617
	2015	5	2005	2020	8.250	0.930	73.196
	2016	13	2005	2020	8.957	0.992	80.896
	2017	9	2005	2020	9.726	1.052	89.917
	2018	8	2005	2020	10.560	1.110	100.496
	2019	89	2005	2020	11.465	1.164	112.918
	2020	9	2005	2020	12.448	1.215	127.521
Clinton	2000-02 Average	2	2005	2020	1.390	0.543	3.561
	2003	1	2005	2020	1.405	0.304	6.492
	2004	1	2005	2020	1.412	0.320	6.237
	2005	0	2005	2020	1.419	0.335	6.011
	2006	2	2005	2020	1.427	0.350	5.812
	2007	0	2005	2020	1.434	0.365	5.639
	2008	1	2005	2020	1.442	0.378	5.493
	2009	1	2005	2020	1.449	0.391	5.373
	2010	0	2005	2020	1.456	0.402	5.279
	2011	0	2005	2020	1.464	0.411	5.211
	2012	0	2005	2020	1.472	0.419	5.169
	2013	0	2005	2020	1.479	0.425	5.152
	2014	0	2005	2020	1.487	0.428	5.162
	2015	0	2005	2020	1.494	0.430	5.199
	2016	3	2005	2020	1.502	0.429	5.263
	2017	2	2005	2020	1.510	0.426	5.354
	2018	2	2005	2020	1.518	0.421	5.474
	2019	1	2005	2020	1.526	0.414	5.623
	2020	1	2005	2020	1.533	0.405	5.802
Columbia/Montour	2000-02 Average	14	2005	2020	22.515	14.840	34.158
	2003	30	2005	2020	21.979	11.018	43.843
	2004	15	2005	2020	21.715	11.038	42.719
	2005	14	2005	2020	21.455	11.044	41.679
	2006	19	2005	2020	21.198	11.035	40.720
	2007	26	2005	2020	20.944	11.010	39.840
	2008	33	2005	2020	20.693	10.969	39.039
	2009	23	2005	2020	20.445	10.910	38.314
	2010	25	2005	2020	20.200	10.834	37.664
	2011	25	2005	2020	19.958	10.741	37.086
	2012	17	2005	2020	19.719	10.630	36.579
	2013	16	2005	2020	19.483	10.503	36.141
	2014	18	2005	2020	19.249	10.359	35.769
	2015	13	2005	2020	19.019	10.200	35.461
	2016	19	2005	2020	18.791	10.027	35.214
	2017	13	2005	2020	18.566	9.841	35.025
	2018	16	2005	2020	18.343	9.643	34.893
	2019	23	2005	2020	18.123	9.435	34.814
	2020	25	2005	2020	17.906	9.218	34.785
Crawford	2000-02 Average	3	2005	2020	2.940	0.898	9.624
	2003	2	2005	2020	3.154	0.446	22.315
	2004	5	2005	2020	3.266	0.482	22.128
	2005	2	2005	2020	3.383	0.520	22.026
	2006	5	2005	2020	3.504	0.558	22.013
	2007	0	2005	2020	3.629	0.596	22.094
	2008	6	2005	2020	3.759	0.634	22.276
	2009	1	2005	2020	3.893	0.672	22.565
	2010	5	2005	2020	4.032	0.708	22.970
	2011	7	2005	2020	4.177	0.742	23.501
	2012	5	2005	2020	4.326	0.774	24.168
	2013	4	2005	2020	4.481	0.804	24.984
	2014	9	2005	2020	4.641	0.830	25.963
	2015	3	2005	2020	4.807	0.852	27.121
	2016	5	2005	2020	4.978	0.870	28.476
	2017	8	2005	2020	5.156	0.885	30.049
	2018	11	2005	2020	5.341	0.895	31.863
	2019	11	2005	2020	5.532	0.901	33.944
	2020	1	2005	2020	5.729	0.904	36.322

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Cumberland	2000-02 Average	22	2005	2010	0.766	0.085	6.915
	2003	27	2005	2010	1.135	0.053	24.443
	2004	12	2005	2010	1.382	0.088	21.638
	2005	3	2005	2010	1.682	0.140	20.198
	2006	2	2005	2010	2.047	0.207	20.250
	2007	2	2005	2010	2.492	0.279	22.226
	2008	1	2005	2010	3.033	0.340	27.053
	2009	4	2005	2010	3.692	0.373	36.518
	2010	9	2005	2010	4.494	0.374	53.965
	2011	27	2005	2010	5.470	0.349	85.656
	2012	20	2005	2010	6.658	0.309	143.354
	2013	23	2005	2010	8.105	0.264	249.269
	2014	13	2005	2010	9.865	0.218	445.532
	2015	14	2005	2010	12.008	0.177	812.405
	2016	26	2005	2010	14.616	0.142	1503.420
	2017	16	2005	2010	17.790	0.113	2813.260
	2018	11	2005	2010	21.654	0.088	5309.223
	2019	15	2005	2010	26.358	0.069	10086.187
	2020	17	2005	2010	32.083	0.053	19261.848
Dauphin	2000-02 Average	79	2005	2020	48.287	36.909	63.173
	2003	43	2005	2020	46.798	29.984	73.040
	2004	41	2005	2020	46.071	29.784	71.264
	2005	44	2005	2020	45.355	29.561	69.589
	2006	39	2005	2020	44.650	29.313	68.013
	2007	51	2005	2020	43.957	29.040	66.536
	2008	46	2005	2020	43.274	28.741	65.154
	2009	41	2005	2020	42.601	28.417	63.865
	2010	40	2005	2020	41.939	28.067	62.668
	2011	51	2005	2020	41.288	27.691	61.559
	2012	33	2005	2020	40.646	27.291	60.536
	2013	35	2005	2020	40.015	26.867	59.596
	2014	41	2005	2020	39.393	26.421	58.734
	2015	47	2005	2020	38.781	25.953	57.948
	2016	54	2005	2020	38.178	25.467	57.235
	2017	28	2005	2020	37.585	24.963	56.589
	2018	31	2005	2020	37.001	24.445	56.007
	2019	34	2005	2020	36.426	23.913	55.486
	2020	41	2005	2020	35.860	23.372	55.021
Delaware	2000-02 Average	72	2005	2020	53.166	33.467	84.462
	2003	36	2005	2020	51.359	23.855	110.576
	2004	75	2005	2020	50.479	23.811	107.015
	2005	62	2005	2020	49.614	23.733	103.719
	2006	66	2005	2020	48.764	23.619	100.678
	2007	34	2005	2020	47.928	23.467	97.884
	2008	38	2005	2020	47.106	23.278	95.327
	2009	22	2005	2020	46.299	23.050	93.000
	2010	51	2005	2020	45.505	22.782	90.893
	2011	59	2005	2020	44.725	22.476	88.998
	2012	47	2005	2020	43.959	22.133	87.307
	2013	52	2005	2020	43.205	21.754	85.811
	2014	44	2005	2020	42.465	21.340	84.500
	2015	57	2005	2020	41.737	20.896	83.366
	2016	41	2005	2020	41.022	20.422	82.399
	2017	50	2005	2020	40.319	19.924	81.591
	2018	44	2005	2020	39.628	19.403	80.932
	2019	25	2005	2020	38.948	18.865	80.414
	2020	35	2005	2020	38.281	18.312	80.027
Erie	2000-02 Average	54	2005	2020	34.649	24.284	49.439
	2003	44	2005	2020	34.356	19.065	61.910
	2004	34	2005	2020	34.210	19.211	60.920
	2005	34	2005	2020	34.065	19.336	60.013
	2006	40	2005	2020	33.921	19.439	59.189
	2007	36	2005	2020	33.777	19.519	58.449
	2008	24	2005	2020	33.633	19.574	57.792
	2009	21	2005	2020	33.491	19.602	57.219
	2010	49	2005	2020	33.349	19.604	56.731
	2011	37	2005	2020	33.207	19.577	56.327
	2012	34	2005	2020	33.066	19.523	56.006
	2013	46	2005	2020	32.926	19.440	55.769
	2014	33	2005	2020	32.786	19.329	55.613
	2015	29	2005	2020	32.647	19.191	55.538
	2016	35	2005	2020	32.509	19.028	55.542
	2017	26	2005	2020	32.371	18.839	55.622
	2018	25	2005	2020	32.234	18.627	55.778
	2019	36	2005	2020	32.097	18.394	56.007
	2020	36	2005	2020	31.961	18.142	56.306
Fayette	2000-02 Average	18	2005	2020	8.312	4.902	14.094
	2003	13	2005	2020	8.762	3.653	21.016
	2004	11	2005	2020	8.996	3.818	21.201
	2005	13	2005	2020	9.237	3.983	21.422
	2006	7	2005	2020	9.484	4.148	21.684
	2007	12	2005	2020	9.737	4.312	21.989
	2008	7	2005	2020	9.997	4.473	22.342
	2009	12	2005	2020	10.264	4.632	22.745
	2010	10	2005	2020	10.539	4.787	23.203
	2011	9	2005	2020	10.820	4.936	23.721
	2012	14	2005	2020	11.109	5.078	24.302
	2013	11	2005	2020	11.406	5.214	24.952
	2014	19	2005	2020	11.711	5.342	25.674
	2015	13	2005	2020	12.024	5.461	26.473
	2016	5	2005	2020	12.345	5.571	27.356
	2017	12	2005	2020	12.675	5.672	28.326
	2018	14	2005	2020	13.014	5.763	29.389
	2019	12	2005	2020	13.361	5.844	30.550
	2020	21	2005	2020	13.718	5.915	31.816

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Forest/Warren	2000-02 Average	4	2005	2020	1.728	0.669	4.462
	2003	2	2005	2020	1.774	0.370	8.516
	2004	2	2005	2020	1.797	0.387	8.347
	2005	1	2005	2020	1.821	0.404	8.206
	2006	3	2005	2020	1.845	0.420	8.093
	2007	1	2005	2020	1.869	0.436	8.008
	2008	2	2005	2020	1.893	0.451	7.952
	2009	0	2005	2020	1.918	0.464	7.925
	2010	3	2005	2020	1.943	0.476	7.927
	2011	1	2005	2020	1.969	0.487	7.960
	2012	4	2005	2020	1.995	0.496	8.025
	2013	2	2005	2020	2.021	0.503	8.123
	2014	3	2005	2020	2.047	0.508	8.255
	2015	7	2005	2020	2.074	0.511	8.422
	2016	3	2005	2020	2.101	0.512	8.626
	2017	1	2005	2020	2.129	0.511	8.869
	2018	1	2005	2020	2.157	0.508	9.152
	2019	2	2005	2020	2.185	0.504	9.478
	2020	2	2005	2020	2.214	0.498	9.849
Franklin/Fulton	2000-02 Average	13	2005	2020	3.298	1.287	8.452
	2003	9	2005	2020	3.569	0.751	16.968
	2004	4	2005	2020	3.713	0.806	17.105
	2005	1	2005	2020	3.862	0.862	17.295
	2006	5	2005	2020	4.018	0.920	17.541
	2007	5	2005	2020	4.179	0.979	17.848
	2008	2	2005	2020	4.348	1.037	18.224
	2009	7	2005	2020	4.523	1.095	18.673
	2010	6	2005	2020	4.705	1.153	19.204
	2011	12	2005	2020	4.894	1.208	19.824
	2012	7	2005	2020	5.091	1.262	20.543
	2013	10	2005	2020	5.296	1.313	21.370
	2014	6	2005	2020	5.509	1.360	22.316
	2015	11	2005	2020	5.731	1.404	23.394
	2016	5	2005	2020	5.962	1.444	24.615
	2017	4	2005	2020	6.202	1.480	25.996
	2018	8	2005	2020	6.452	1.511	27.552
	2019	5	2005	2020	6.711	1.537	29.301
	2020	3	2005	2020	6.982	1.559	31.264
Greene	2000-02 Average	1	2005	2020	0.913	0.384	2.171
	2003	1	2005	2020	1.016	0.246	4.193
	2004	3	2005	2020	1.071	0.269	4.261
	2005	2	2005	2020	1.130	0.294	4.344
	2006	1	2005	2020	1.191	0.319	4.444
	2007	0	2005	2020	1.257	0.346	4.562
	2008	0	2005	2020	1.325	0.374	4.701
	2009	1	2005	2020	1.397	0.402	4.864
	2010	1	2005	2020	1.474	0.430	5.054
	2011	1	2005	2020	1.554	0.458	5.274
	2012	0	2005	2020	1.639	0.486	5.528
	2013	2	2005	2020	1.729	0.513	5.821
	2014	2	2005	2020	1.823	0.540	6.158
	2015	2	2005	2020	1.923	0.565	6.543
	2016	2	2005	2020	2.027	0.589	6.984
	2017	5	2005	2020	2.138	0.611	7.486
	2018	4	2005	2020	2.255	0.631	8.058
	2019	0	2005	2020	2.378	0.649	8.708
	2020	1	2005	2020	2.508	0.666	9.446
Huntingdon	2000-02 Average	7	2005	2020	4.660	1.855	11.709
	2003	5	2005	2020	4.158	0.941	18.377
	2004	2	2005	2020	3.928	0.934	16.511
	2005	0	2005	2020	3.710	0.924	14.888
	2006	3	2005	2020	3.504	0.911	13.479
	2007	2	2005	2020	3.310	0.894	12.257
	2008	0	2005	2020	3.127	0.873	11.199
	2009	0	2005	2020	2.954	0.848	10.285
	2010	0	2005	2020	2.790	0.819	9.498
	2011	4	2005	2020	2.635	0.787	8.823
	2012	3	2005	2020	2.489	0.751	8.246
	2013	4	2005	2020	2.351	0.713	7.754
	2014	2	2005	2020	2.221	0.672	7.339
	2015	4	2005	2020	2.098	0.630	6.989
	2016	0	2005	2020	1.982	0.586	6.697
	2017	1	2005	2020	1.872	0.543	6.455
	2018	1	2005	2020	1.768	0.500	6.258
	2019	2	2005	2020	1.670	0.457	6.099
	2020	0	2005	2020	1.578	0.417	5.973
Indiana	2000-02 Average	2	2005	2020	1.857	0.836	4.123
	2003	4	2005	2020	2.112	0.566	7.874
	2004	3	2005	2020	2.252	0.622	8.154
	2005	3	2005	2020	2.401	0.681	8.466
	2006	3	2005	2020	2.561	0.744	8.814
	2007	0	2005	2020	2.731	0.810	9.203
	2008	7	2005	2020	2.912	0.880	9.638
	2009	1	2005	2020	3.106	0.953	10.126
	2010	2	2005	2020	3.312	1.028	10.674
	2011	5	2005	2020	3.532	1.105	11.289
	2012	3	2005	2020	3.767	1.184	11.981
	2013	4	2005	2020	4.017	1.264	12.761
	2014	3	2005	2020	4.284	1.345	13.639
	2015	4	2005	2020	4.568	1.427	14.628
	2016	11	2005	2020	4.872	1.508	15.744
	2017	4	2005	2020	5.195	1.588	17.001
	2018	7	2005	2020	5.540	1.667	18.419
	2019	6	2005	2020	5.908	1.744	20.018
	2020	6	2005	2020	6.301	1.819	21.821

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Jefferson	2000-02 Average	4	2005	2020	3.264	1.259	8.460
	2003	4	2005	2020	3.233	0.668	15.646
	2004	6	2005	2020	3.217	0.686	15.079
	2005	3	2005	2020	3.202	0.703	14.578
	2006	5	2005	2020	3.187	0.718	14.140
	2007	3	2005	2020	3.172	0.731	13.762
	2008	2	2005	2020	3.156	0.741	13.443
	2009	5	2005	2020	3.141	0.749	13.180
	2010	2	2005	2020	3.127	0.754	12.973
	2011	5	2005	2020	3.112	0.755	12.820
	2012	1	2005	2020	3.097	0.754	12.719
	2013	4	2005	2020	3.082	0.750	12.671
	2014	5	2005	2020	3.068	0.742	12.674
	2015	2	2005	2020	3.053	0.732	12.727
	2016	0	2005	2020	3.038	0.720	12.831
	2017	3	2005	2020	3.024	0.704	12.986
	2018	7	2005	2020	3.010	0.687	13.190
	2019	6	2005	2020	2.995	0.667	13.446
	2020	1	2005	2020	2.981	0.646	13.752
Juniata/Perry	2000-02 Average	0	2005	2020	1.078	0.422	2.753
	2003	0	2005	2020	1.123	0.249	5.073
	2004	0	2005	2020	1.146	0.267	4.914
	2005	1	2005	2020	1.170	0.286	4.779
	2006	0	2005	2020	1.194	0.305	4.670
	2007	0	2005	2020	1.219	0.324	4.586
	2008	1	2005	2020	1.244	0.342	4.529
	2009	0	2005	2020	1.270	0.358	4.500
	2010	0	2005	2020	1.296	0.373	4.499
	2011	2	2005	2020	1.323	0.387	4.529
	2012	1	2005	2020	1.350	0.397	4.590
	2013	2	2005	2020	1.378	0.405	4.685
	2014	0	2005	2020	1.407	0.411	4.816
	2015	1	2005	2020	1.436	0.414	4.984
	2016	3	2005	2020	1.466	0.414	5.193
	2017	0	2005	2020	1.496	0.411	5.446
	2018	0	2005	2020	1.527	0.406	5.744
	2019	0	2005	2020	1.558	0.399	6.093
	2020	1	2005	2020	1.591	0.389	6.497
Lackawanna	2000-02 Average	65	2005	2020	35.629	27.706	45.818
	2003	34	2005	2020	35.019	23.085	53.121
	2004	31	2005	2020	34.718	23.080	52.224
	2005	35	2005	2020	34.419	23.056	51.382
	2006	35	2005	2020	34.123	23.013	50.596
	2007	30	2005	2020	33.829	22.950	49.866
	2008	36	2005	2020	33.538	22.866	49.191
	2009	33	2005	2020	33.250	22.761	48.571
	2010	37	2005	2020	32.964	22.635	48.007
	2011	36	2005	2020	32.680	22.486	47.496
	2012	30	2005	2020	32.399	22.315	47.039
	2013	27	2005	2020	32.120	22.123	46.634
	2014	22	2005	2020	31.844	21.911	46.281
	2015	47	2005	2020	31.570	21.678	45.977
	2016	34	2005	2020	31.298	21.425	45.721
	2017	29	2005	2020	31.029	21.156	45.511
	2018	31	2005	2020	30.762	20.869	45.345
	2019	33	2005	2020	30.498	20.568	45.221
	2020	28	2005	2020	30.235	20.253	45.137
Lancaster	2000-02 Average	7	2005	2020	20.832	11.908	36.446
	2003	5	2005	2020	21.948	8.689	55.440
	2004	31	2005	2020	22.528	9.086	55.852
	2005	31	2005	2020	23.123	9.486	56.367
	2006	40	2005	2020	23.734	9.884	56.991
	2007	34	2005	2020	24.361	10.279	57.734
	2008	13	2005	2020	25.004	10.668	58.605
	2009	17	2005	2020	25.665	11.049	59.616
	2010	12	2005	2020	26.343	11.418	60.777
	2011	26	2005	2020	27.039	11.773	62.098
	2012	35	2005	2020	27.753	12.112	63.593
	2013	34	2005	2020	28.487	12.432	65.273
	2014	27	2005	2020	29.239	12.732	67.152
	2015	40	2005	2020	30.012	13.008	69.241
	2016	37	2005	2020	30.805	13.262	71.555
	2017	26	2005	2020	31.619	13.490	74.108
	2018	39	2005	2020	32.454	13.694	76.914
	2019	33	2005	2020	33.312	13.873	79.989
	2020	33	2005	2020	34.192	14.026	83.349
Lawrence	2000-02 Average	4	2005	2020	17.795	10.342	30.619
	2003	4	2005	2020	16.261	6.617	39.958
	2004	17	2005	2020	15.544	6.441	37.511
	2005	13	2005	2020	14.858	6.259	35.274
	2006	20	2005	2020	14.203	6.071	33.229
	2007	14	2005	2020	13.577	5.878	31.362
	2008	11	2005	2020	12.978	5.679	29.658
	2009	12	2005	2020	12.406	5.476	28.105
	2010	18	2005	2020	11.859	5.270	26.689
	2011	17	2005	2020	11.336	5.060	25.400
	2012	7	2005	2020	10.837	4.847	24.226
	2013	5	2005	2020	10.359	4.634	23.158
	2014	8	2005	2020	9.902	4.419	22.186
	2015	7	2005	2020	9.465	4.206	21.302
	2016	15	2005	2020	9.048	3.994	20.497
	2017	9	2005	2020	8.649	3.785	19.765
	2018	9	2005	2020	8.268	3.579	19.098
	2019	12	2005	2020	7.903	3.378	18.490
	2020	6	2005	2020	7.555	3.182	17.935

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Lebanon	2000-02 Average	9	2005	2020	3.549	1.597	7.889
	2003	7	2005	2020	3.798	1.022	14.115
	2004	7	2005	2020	3.928	1.091	14.146
	2005	0	2005	2020	4.063	1.162	14.214
	2006	3	2005	2020	4.203	1.233	14.324
	2007	4	2005	2020	4.348	1.306	14.478
	2008	5	2005	2020	4.498	1.378	14.680
	2009	4	2005	2020	4.652	1.449	14.936
	2010	6	2005	2020	4.812	1.519	15.250
	2011	11	2005	2020	4.978	1.586	15.627
	2012	3	2005	2020	5.149	1.650	16.073
	2013	4	2005	2020	5.327	1.710	16.595
	2014	8	2005	2020	5.510	1.765	17.199
	2015	4	2005	2020	5.699	1.816	17.892
	2016	6	2005	2020	5.896	1.860	18.682
	2017	8	2005	2020	6.099	1.900	19.579
	2018	18	2005	2020	6.308	1.933	20.591
	2019	5	2005	2020	6.525	1.960	21.729
	2020	3	2005	2020	6.750	1.981	23.003
Lehigh	2000-02 Average	72	2005	2020	69.655	50.091	96.860
	2003	101	2005	2020	65.995	38.220	113.956
	2004	93	2005	2020	64.238	37.613	109.709
	2005	78	2005	2020	62.528	36.979	105.728
	2006	70	2005	2020	60.863	36.315	102.003
	2007	62	2005	2020	59.242	35.623	98.522
	2008	62	2005	2020	57.665	34.902	95.274
	2009	63	2005	2020	56.130	34.153	92.248
	2010	38	2005	2020	54.635	33.377	89.433
	2011	38	2005	2020	53.181	32.576	86.818
	2012	58	2005	2020	51.765	31.751	84.393
	2013	50	2005	2020	50.387	30.906	82.146
	2014	47	2005	2020	49.045	30.043	80.066
	2015	36	2005	2020	47.739	29.164	78.145
	2016	40	2005	2020	46.468	28.274	76.369
	2017	36	2005	2020	45.231	27.376	74.731
	2018	54	2005	2020	44.027	26.474	73.218
	2019	60	2005	2020	42.854	25.570	71.822
	2020	49	2005	2020	41.713	24.669	70.533
Luzerne	2000-02 Average	34	2005	2020	42.367	32.432	55.345
	2003	38	2005	2020	42.662	27.402	66.422
	2004	79	2005	2020	42.811	27.743	66.062
	2005	36	2005	2020	42.960	28.065	65.758
	2006	41	2005	2020	43.109	28.367	65.513
	2007	46	2005	2020	43.259	28.644	65.330
	2008	54	2005	2020	43.409	28.897	65.211
	2009	48	2005	2020	43.560	29.122	65.158
	2010	37	2005	2020	43.712	29.318	65.172
	2011	48	2005	2020	43.864	29.484	65.257
	2012	30	2005	2020	44.017	29.619	65.412
	2013	49	2005	2020	44.170	29.722	65.640
	2014	50	2005	2020	44.323	29.793	65.940
	2015	47	2005	2020	44.477	29.832	66.314
	2016	53	2005	2020	44.632	29.838	66.761
	2017	47	2005	2020	44.787	29.814	67.281
	2018	50	2005	2020	44.943	29.760	67.874
	2019	46	2005	2020	45.100	29.676	68.538
	2020	33	2005	2020	45.256	29.566	69.274
Lycoming	2000-02 Average	18	2003	2020	7.402	3.750	14.609
	2003	15	2003	2020	7.412	2.368	23.198
	2004	18	2003	2020	7.417	2.407	22.851
	2005	9	2003	2020	7.421	2.443	22.549
	2006	5	2003	2020	7.426	2.474	22.292
	2007	4	2003	2020	7.431	2.501	22.081
	2008	5	2003	2020	7.436	2.523	21.914
	2009	7	2003	2020	7.441	2.541	21.793
	2010	3	2003	2020	7.446	2.553	21.717
	2011	9	2003	2020	7.451	2.560	21.686
	2012	8	2003	2020	7.456	2.562	21.700
	2013	7	2003	2020	7.461	2.558	21.760
	2014	6	2003	2020	7.466	2.549	21.865
	2015	4	2003	2020	7.471	2.535	22.016
	2016	9	2003	2020	7.476	2.516	22.212
	2017	7	2003	2020	7.481	2.492	22.455
	2018	12	2003	2020	7.486	2.464	22.743
	2019	9	2003	2020	7.490	2.431	23.078
	2020	12	2003	2020	7.495	2.395	23.460
McKean	2000-02 Average	4	2005	2020	1.612	0.609	4.265
	2003	0	2005	2020	1.787	0.362	8.816
	2004	3	2005	2020	1.881	0.396	8.927
	2005	1	2005	2020	1.980	0.432	9.078
	2006	4	2005	2020	2.085	0.469	9.272
	2007	1	2005	2020	2.195	0.506	9.516
	2008	2	2005	2020	2.311	0.544	9.814
	2009	5	2005	2020	2.433	0.582	10.174
	2010	3	2005	2020	2.561	0.619	10.603
	2011	0	2005	2020	2.696	0.654	11.112
	2012	3	2005	2020	2.839	0.688	11.709
	2013	2	2005	2020	2.988	0.720	12.406
	2014	7	2005	2020	3.146	0.749	13.217
	2015	6	2005	2020	3.312	0.775	14.155
	2016	0	2005	2020	3.487	0.798	15.237
	2017	2	2005	2020	3.671	0.818	16.483
	2018	0	2005	2020	3.865	0.834	17.913
	2019	0	2005	2020	4.069	0.847	19.552
	2020	3	2005	2020	4.284	0.856	21.427

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(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Mercer	2000-02 Average	43	2005	2020	28.998	17.360	48.437
	2003	41	2005	2020	25.596	10.940	59.884
	2004	31	2005	2020	24.048	10.456	55.308
	2005	30	2005	2020	22.594	9.977	51.163
	2006	21	2005	2020	21.227	9.504	47.408
	2007	20	2005	2020	19.943	9.038	44.008
	2008	25	2005	2020	18.737	8.578	40.928
	2009	16	2005	2020	17.604	8.126	38.137
	2010	19	2005	2020	16.539	7.682	35.608
	2011	17	2005	2020	15.539	7.248	33.315
	2012	5	2005	2020	14.599	6.824	31.234
	2013	14	2005	2020	13.716	6.411	29.345
	2014	14	2005	2020	12.886	6.011	27.628
	2015	12	2005	2020	12.107	5.623	26.066
	2016	10	2005	2020	11.375	5.250	24.643
	2017	10	2005	2020	10.687	4.892	23.344
	2018	10	2005	2020	10.040	4.550	22.156
	2019	9	2005	2020	9.433	4.224	21.068
	2020	15	2005	2020	8.863	3.914	20.069
Mifflin	2000-02 Average	3	2005	2020	1.322	0.535	3.263
	2003	4	2005	2020	1.459	0.327	6.517
	2004	1	2005	2020	1.533	0.354	6.645
	2005	1	2005	2020	1.611	0.382	6.795
	2006	1	2005	2020	1.693	0.411	6.970
	2007	3	2005	2020	1.778	0.441	7.174
	2008	2	2005	2020	1.869	0.471	7.409
	2009	3	2005	2020	1.963	0.502	7.680
	2010	1	2005	2020	2.063	0.533	7.990
	2011	3	2005	2020	2.168	0.563	8.345
	2012	3	2005	2020	2.278	0.593	8.748
	2013	0	2005	2020	2.393	0.622	9.207
	2014	0	2005	2020	2.515	0.650	9.727
	2015	9	2005	2020	2.642	0.677	10.316
	2016	0	2005	2020	2.776	0.702	10.982
	2017	2	2005	2020	2.917	0.725	11.732
	2018	2	2005	2020	3.065	0.747	12.578
	2019	4	2005	2020	3.220	0.767	13.531
	2020	2	2005	2020	3.384	0.784	14.601
Monroe	2000-02 Average	11	2005	2020	6.911	2.680	17.820
	2003	5	2005	2020	6.998	1.457	33.612
	2004	3	2005	2020	7.042	1.513	32.771
	2005	7	2005	2020	7.086	1.567	32.046
	2006	5	2005	2020	7.131	1.618	31.435
	2007	7	2005	2020	7.176	1.664	30.938
	2008	5	2005	2020	7.221	1.707	30.553
	2009	12	2005	2020	7.266	1.744	30.281
	2010	2	2005	2020	7.312	1.775	30.123
	2011	20	2005	2020	7.358	1.800	30.079
	2012	6	2005	2020	7.404	1.818	30.151
	2013	16	2005	2020	7.451	1.830	30.341
	2014	9	2005	2020	7.498	1.834	30.651
	2015	16	2005	2020	7.545	1.832	31.083
	2016	11	2005	2020	7.593	1.822	31.640
	2017	8	2005	2020	7.640	1.806	32.327
	2018	5	2005	2020	7.688	1.783	33.147
	2019	3	2005	2020	7.737	1.755	34.106
	2020	8	2005	2020	7.785	1.722	35.207
Montgomery	2000-02 Average	22	2005	2020	83.943	68.556	102.784
	2003	14	2005	2020	86.318	61.718	120.723
	2004	102	2005	2020	87.531	63.010	121.595
	2005	104	2005	2020	88.761	64.287	122.551
	2006	95	2005	2020	90.008	65.547	123.597
	2007	103	2005	2020	91.272	66.785	124.739
	2008	81	2005	2020	92.555	67.995	125.985
	2009	102	2005	2020	93.855	69.175	127.340
	2010	66	2005	2020	95.173	70.320	128.812
	2011	100	2005	2020	96.511	71.425	130.406
	2012	95	2005	2020	97.866	72.489	132.128
	2013	94	2005	2020	99.241	73.507	133.984
	2014	89	2005	2020	100.636	74.478	135.980
	2015	116	2005	2020	102.049	75.400	138.118
	2016	105	2005	2020	103.483	76.271	140.403
	2017	107	2005	2020	104.937	77.092	142.839
	2018	99	2005	2020	106.411	77.862	145.429
	2019	115	2005	2020	107.906	78.581	148.174
	2020	121	2005	2020	109.422	79.252	151.078
Northampton	2000-02 Average	73	2005	2020	3.463	1.174	10.213
	2003	47	2005	2020	4.282	0.714	25.688
	2004	41	2005	2020	4.761	0.823	27.550
	2005	12	2005	2020	5.294	0.945	29.647
	2006	2	2005	2020	5.886	1.082	32.018
	2007	2	2005	2020	6.545	1.234	34.709
	2008	3	2005	2020	7.277	1.402	37.774
	2009	18	2005	2020	8.092	1.586	41.279
	2010	15	2005	2020	8.997	1.787	45.298
	2011	23	2005	2020	10.004	2.005	49.925
	2012	26	2005	2020	11.123	2.239	55.266
	2013	14	2005	2020	12.368	2.489	61.451
	2014	13	2005	2020	13.752	2.756	68.630
	2015	14	2005	2020	15.291	3.037	76.986
	2016	17	2005	2020	17.002	3.333	86.733
	2017	20	2005	2020	18.904	3.642	98.128
	2018	35	2005	2020	21.020	3.964	111.473
	2019	13	2005	2020	23.372	4.297	127.133
	2020	14	2005	2020	25.987	4.640	145.538

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Northumberland	2000-02 Average	9	2005	2020	2.733	1.021	7.317
	2003	4	2005	2020	2.755	0.539	14.082
	2004	6	2005	2020	2.766	0.559	13.682
	2005	2	2005	2020	2.777	0.578	13.334
	2006	2	2005	2020	2.789	0.596	13.037
	2007	2	2005	2020	2.800	0.613	12.791
	2008	6	2005	2020	2.811	0.627	12.594
	2009	6	2005	2020	2.822	0.640	12.447
	2010	1	2005	2020	2.834	0.650	12.348
	2011	4	2005	2020	2.845	0.658	12.299
	2012	1	2005	2020	2.857	0.664	12.299
	2013	5	2005	2020	2.868	0.666	12.349
	2014	7	2005	2020	2.880	0.666	12.448
	2015	7	2005	2020	2.891	0.664	12.599
	2016	3	2005	2020	2.903	0.658	12.803
	2017	2	2005	2020	2.915	0.651	13.059
	2018	3	2005	2020	2.927	0.641	13.370
	2019	2	2005	2020	2.938	0.628	13.738
	2020	2	2005	2020	2.950	0.615	14.164
Philadelphia	2000-02 Average	1,204	2005	2020	603.463	514.578	707.702
	2003	577	2005	2020	569.579	437.432	741.648
	2004	559	2005	2020	553.358	427.239	716.706
	2005	540	2005	2020	537.598	417.076	692.947
	2006	569	2005	2020	522.287	406.941	670.329
	2007	586	2005	2020	507.412	396.832	648.807
	2008	553	2005	2020	492.961	386.750	628.341
	2009	491	2005	2020	478.922	376.698	608.886
	2010	381	2005	2020	465.282	366.679	590.401
	2011	418	2005	2020	452.031	356.699	572.841
	2012	389	2005	2020	439.157	346.766	556.164
	2013	382	2005	2020	426.650	336.890	540.324
	2014	382	2005	2020	414.499	327.082	525.278
	2015	381	2005	2020	402.694	317.354	510.982
	2016	378	2005	2020	391.225	307.719	497.391
	2017	406	2005	2020	380.083	298.192	484.463
	2018	416	2005	2020	369.258	288.785	472.155
	2019	406	2005	2020	358.742	279.514	460.426
	2020	348	2005	2020	348.525	270.390	449.238
Pike	2000-02 Average	0	2005	2020	2.000	NA	NA
	2003	0	2005	2020	2.000	NA	NA
	2004	0	2005	2020	2.000	NA	NA
	2005	0	2005	2020	2.000	NA	NA
	2006	0	2005	2020	2.000	NA	NA
	2007	0	2005	2020	2.000	NA	NA
	2008	0	2005	2020	2.000	NA	NA
	2009	0	2005	2020	2.000	NA	NA
	2010	0	2005	2020	2.000	NA	NA
	2011	2	2005	2020	2.000	NA	NA
	2012	0	2005	2020	2.000	NA	NA
	2013	0	2005	2020	2.000	NA	NA
	2014	0	2005	2020	2.000	NA	NA
	2015	0	2005	2020	2.000	NA	NA
	2016	0	2005	2020	2.000	NA	NA
	2017	0	2005	2020	2.000	NA	NA
	2018	0	2005	2020	2.000	NA	NA
	2019	0	2005	2020	2.000	NA	NA
	2020	0	2005	2020	2.000	NA	NA
Potter	2000-02 Average	3	2005	2020	0.727	0.377	1.401
	2003	6	2005	2020	0.851	0.294	2.463
	2004	1	2005	2020	0.920	0.328	2.581
	2005	2	2005	2020	0.996	0.365	2.715
	2006	1	2005	2020	1.077	0.405	2.867
	2007	1	2005	2020	1.165	0.447	3.040
	2008	1	2005	2020	1.261	0.491	3.237
	2009	1	2005	2020	1.364	0.537	3.464
	2010	2	2005	2020	1.475	0.585	3.724
	2011	1	2005	2020	1.596	0.633	4.024
	2012	1	2005	2020	1.727	0.682	4.369
	2013	3	2005	2020	1.868	0.732	4.767
	2014	0	2005	2020	2.021	0.781	5.227
	2015	2	2005	2020	2.186	0.830	5.757
	2016	3	2005	2020	2.365	0.878	6.368
	2017	3	2005	2020	2.559	0.926	7.072
	2018	0	2005	2020	2.768	0.972	7.883
	2019	0	2005	2020	2.994	1.017	8.818
	2020	0	2005	2020	3.239	1.061	9.893
Schuylkill	2000-02 Average	29	2005	2020	9.024	5.718	14.240
	2003	13	2005	2020	9.477	4.451	20.179
	2004	12	2005	2020	9.712	4.631	20.367
	2005	9	2005	2020	9.953	4.812	20.586
	2006	11	2005	2020	10.199	4.992	20.839
	2007	5	2005	2020	10.452	5.171	21.128
	2008	12	2005	2020	10.711	5.347	21.457
	2009	11	2005	2020	10.977	5.520	21.828
	2010	13	2005	2020	11.249	5.688	22.246
	2011	15	2005	2020	11.528	5.851	22.713
	2012	14	2005	2020	11.814	6.007	23.233
	2013	14	2005	2020	12.107	6.156	23.809
	2014	23	2005	2020	12.407	6.297	24.445
	2015	10	2005	2020	12.715	6.429	25.144
	2016	14	2005	2020	13.030	6.552	25.911
	2017	15	2005	2020	13.353	6.666	26.748
	2018	11	2005	2020	13.684	6.770	27.661
	2019	11	2005	2020	14.023	6.864	28.652
	2020	12	2005	2020	14.371	6.948	29.725

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Snyder/Union	2000-02 Average	7	2005	2020	1.635	0.629	4.251
	2003	6	2005	2020	1.818	0.374	8.841
	2004	2	2005	2020	1.917	0.407	9.027
	2005	2	2005	2020	2.022	0.442	9.245
	2006	1	2005	2020	2.132	0.478	9.499
	2007	4	2005	2020	2.248	0.516	9.795
	2008	3	2005	2020	2.370	0.554	10.136
	2009	6	2005	2020	2.499	0.593	10.529
	2010	5	2005	2020	2.635	0.632	10.980
	2011	1	2005	2020	2.779	0.672	11.495
	2012	1	2005	2020	2.930	0.710	12.083
	2013	4	2005	2020	3.089	0.748	12.753
	2014	6	2005	2020	3.258	0.785	13.515
	2015	2	2005	2020	3.435	0.821	14.379
	2016	0	2005	2020	3.622	0.854	15.360
	2017	3	2005	2020	3.819	0.886	16.470
	2018	4	2005	2020	4.027	0.915	17.726
	2019	5	2005	2020	4.246	0.942	19.145
	2020	6	2005	2020	4.478	0.966	20.748
Somerset	2000-02 Average	8	2005	2020	5.893	2.800	12.402
	2003	8	2005	2020	5.742	1.674	19.698
	2004	5	2005	2020	5.668	1.694	18.967
	2005	8	2005	2020	5.594	1.710	18.305
	2006	3	2005	2020	5.522	1.722	17.710
	2007	8	2005	2020	5.451	1.730	17.178
	2008	3	2005	2020	5.380	1.733	16.708
	2009	6	2005	2020	5.311	1.731	16.296
	2010	8	2005	2020	5.242	1.724	15.940
	2011	4	2005	2020	5.174	1.712	15.639
	2012	6	2005	2020	5.107	1.695	15.390
	2013	7	2005	2020	5.041	1.673	15.191
	2014	5	2005	2020	4.976	1.646	15.040
	2015	3	2005	2020	4.912	1.615	14.936
	2016	7	2005	2020	4.848	1.580	14.877
	2017	2	2005	2020	4.786	1.541	14.861
	2018	11	2005	2020	4.724	1.499	14.887
	2019	6	2005	2020	4.663	1.454	14.953
	2020	3	2005	2020	4.602	1.407	15.059
Sullivan/Wyoming	2000-02 Average	4	2005	2020	1.385	0.744	2.578
	2003	2	2005	2020	1.335	0.485	3.674
	2004	3	2005	2020	1.310	0.490	3.506
	2005	1	2005	2020	1.286	0.493	3.353
	2006	0	2005	2020	1.262	0.495	3.216
	2007	2	2005	2020	1.239	0.496	3.094
	2008	0	2005	2020	1.216	0.496	2.986
	2009	1	2005	2020	1.194	0.493	2.891
	2010	0	2005	2020	1.172	0.489	2.808
	2011	0	2005	2020	1.151	0.483	2.738
	2012	0	2005	2020	1.129	0.476	2.680
	2013	0	2005	2020	1.109	0.467	2.632
	2014	1	2005	2020	1.088	0.456	2.595
	2015	0	2005	2020	1.068	0.445	2.567
	2016	0	2005	2020	1.049	0.431	2.549
	2017	0	2005	2020	1.029	0.417	2.540
	2018	0	2005	2020	1.010	0.402	2.539
	2019	1	2005	2020	0.992	0.386	2.546
	2020	1	2005	2020	0.974	0.370	2.560
Susquehanna	2000-02 Average	0	2005	2020	1.818	0.493	6.702
	2003	0	2005	2020	1.828	0.216	15.457
	2004	0	2005	2020	1.833	0.229	14.653
	2005	1	2005	2020	1.837	0.242	13.954
	2006	0	2005	2020	1.842	0.254	13.355
	2007	3	2005	2020	1.847	0.265	12.849
	2008	1	2005	2020	1.852	0.276	12.433
	2009	0	2005	2020	1.857	0.285	12.101
	2010	0	2005	2020	1.861	0.292	11.853
	2011	0	2005	2020	1.866	0.298	11.685
	2012	6	2005	2020	1.871	0.302	11.597
	2013	4	2005	2020	1.876	0.304	11.588
	2014	0	2005	2020	1.881	0.304	11.658
	2015	1	2005	2020	1.886	0.301	11.808
	2016	0	2005	2020	1.891	0.297	12.040
	2017	0	2005	2020	1.896	0.291	12.357
	2018	1	2005	2020	1.901	0.283	12.762
	2019	2	2005	2020	1.906	0.274	13.259
	2020	2	2005	2020	1.911	0.264	13.853
Tioga	2000-02 Average	3	2005	2020	0.900	0.564	1.433
	2003	0	2005	2020	0.940	0.436	2.026
	2004	0	2005	2020	0.961	0.454	2.036
	2005	1	2005	2020	0.982	0.471	2.049
	2006	1	2005	2020	1.004	0.488	2.066
	2007	1	2005	2020	1.027	0.505	2.087
	2008	0	2005	2020	1.049	0.521	2.113
	2009	1	2005	2020	1.073	0.537	2.143
	2010	1	2005	2020	1.097	0.552	2.178
	2011	0	2005	2020	1.121	0.567	2.218
	2012	1	2005	2020	1.146	0.580	2.265
	2013	0	2005	2020	1.172	0.592	2.317
	2014	0	2005	2020	1.198	0.604	2.376
	2015	0	2005	2020	1.224	0.614	2.442
	2016	2	2005	2020	1.252	0.623	2.515
	2017	2	2005	2020	1.280	0.631	2.596
	2018	0	2005	2020	1.308	0.637	2.685
	2019	1	2005	2020	1.337	0.643	2.781
	2020	1	2005	2020	1.367	0.647	2.887

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Model Data and Output

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			Calibration Interval		Prediction Interval		
County	Year	Count	Start	End	Mean	Lower	Upper
Venango	2000-02 Average	8	2005	2020	2.392	1.036	5.525
	2003	5	2005	2020	2.416	0.605	9.655
	2004	3	2005	2020	2.429	0.625	9.431
	2005	4	2005	2020	2.441	0.645	9.238
	2006	3	2005	2020	2.453	0.663	9.076
	2007	2	2005	2020	2.466	0.680	8.944
	2008	4	2005	2020	2.478	0.695	8.843
	2009	2	2005	2020	2.491	0.707	8.773
	2010	3	2005	2020	2.504	0.718	8.734
	2011	1	2005	2020	2.516	0.726	8.726
	2012	1	2005	2020	2.529	0.731	8.750
	2013	0	2005	2020	2.542	0.734	8.806
	2014	4	2005	2020	2.555	0.734	8.894
	2015	4	2005	2020	2.568	0.731	9.016
	2016	2	2005	2020	2.581	0.726	9.171
	2017	0	2005	2020	2.594	0.719	9.362
	2018	2	2005	2020	2.607	0.709	9.587
	2019	2	2005	2020	2.620	0.697	9.849
	2020	6	2005	2020	2.634	0.683	10.149
Washington	2000-02 Average	7	2005	2020	25.400	19.019	33.922
	2003	4	2005	2020	25.545	15.818	41.256
	2004	21	2005	2020	25.618	16.017	40.976
	2005	29	2005	2020	25.692	16.204	40.735
	2006	26	2005	2020	25.765	16.377	40.535
	2007	25	2005	2020	25.839	16.536	40.375
	2008	21	2005	2020	25.913	16.678	40.259
	2009	21	2005	2020	25.987	16.804	40.187
	2010	31	2005	2020	26.061	16.911	40.161
	2011	39	2005	2020	26.135	17.000	40.181
	2012	21	2005	2020	26.210	17.069	40.248
	2013	31	2005	2020	26.285	17.117	40.363
	2014	19	2005	2020	26.360	17.146	40.526
	2015	30	2005	2020	26.436	17.154	40.738
	2016	25	2005	2020	26.511	17.143	40.998
	2017	30	2005	2020	26.587	17.112	41.307
	2018	24	2005	2020	26.663	17.063	41.663
	2019	28	2005	2020	26.739	16.996	42.067
	2020	27	2005	2020	26.816	16.912	42.518
Wayne	2000-02 Average	3	2005	2020	5.334	2.359	12.060
	2003	3	2005	2020	5.040	1.316	19.297
	2004	7	2005	2020	4.899	1.320	18.179
	2005	7	2005	2020	4.762	1.321	17.174
	2006	4	2005	2020	4.629	1.317	16.274
	2007	0	2005	2020	4.500	1.309	15.470
	2008	5	2005	2020	4.374	1.297	14.756
	2009	4	2005	2020	4.252	1.280	14.125
	2010	5	2005	2020	4.133	1.259	13.570
	2011	6	2005	2020	4.018	1.233	13.087
	2012	0	2005	2020	3.905	1.204	12.670
	2013	2	2005	2020	3.796	1.170	12.314
	2014	3	2005	2020	3.690	1.133	12.015
	2015	1	2005	2020	3.587	1.093	11.769
	2016	4	2005	2020	3.487	1.051	11.571
	2017	5	2005	2020	3.389	1.006	11.419
	2018	0	2005	2020	3.295	0.960	11.309
	2019	4	2005	2020	3.203	0.913	11.238
	2020	5	2005	2020	3.113	0.865	11.203
Westmoreland	2000-02 Average	62	2005	2019	24.763	10.721	57.199
	2003	49	2005	2019	25.185	6.341	100.026
	2004	26	2005	2019	25.398	6.598	97.772
	2005	35	2005	2019	25.613	6.844	95.862
	2006	27	2005	2019	25.830	7.076	94.296
	2007	18	2005	2019	26.049	7.290	93.076
	2008	19	2005	2019	26.270	7.484	92.206
	2009	12	2005	2019	26.493	7.655	91.691
	2010	14	2005	2019	26.717	7.798	91.536
	2011	107	2005	2019	26.944	7.912	91.748
	2012	52	2005	2019	27.172	7.996	92.337
	2013	37	2005	2019	27.402	8.047	93.310
	2014	27	2005	2019	27.634	8.066	94.678
	2015	29	2005	2019	27.869	8.052	96.453
	2016	27	2005	2019	28.105	8.007	98.646
	2017	25	2005	2019	28.343	7.932	101.271
	2018	22	2005	2019	28.583	7.830	104.345
	2019	25	2005	2019	28.825	7.702	107.883
	2020	29	2005	2019	29.070	7.551	111.906
York	2000-02 Average	48	2005	2020	19.134	11.761	31.129
	2003	33	2005	2020	19.777	8.831	44.291
	2004	15	2005	2020	20.106	9.125	44.303
	2005	20	2005	2020	20.441	9.415	44.384
	2006	15	2005	2020	20.782	9.698	44.535
	2007	23	2005	2020	21.128	9.973	44.763
	2008	23	2005	2020	21.480	10.237	45.072
	2009	39	2005	2020	21.838	10.489	45.466
	2010	31	2005	2020	22.202	10.727	45.951
	2011	16	2005	2020	22.572	10.949	46.531
	2012	16	2005	2020	22.948	11.154	47.212
	2013	23	2005	2020	23.330	11.340	47.999
	2014	31	2005	2020	23.719	11.506	48.896
	2015	22	2005	2020	24.114	11.651	49.908
	2016	12	2005	2020	24.516	11.775	51.041
	2017	31	2005	2020	24.924	11.878	52.298
	2018	29	2005	2020	25.339	11.960	53.685
	2019	29	2005	2020	25.761	12.021	55.206
	2020	28	2005	2020	26.191	12.062	56.866

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