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## **Chris Steller**

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Subject: Attachments:	Tuition Reciprocity Report : 2019 TuitionReciprocityReport_2019.pdf

*Minnesota Statutes* 136A.08, Subd. 7 requires the Minnesota Office of Higher Education to annually submit a report to committees of the House of Representatives and the Senate with responsibility for higher education finance on:

- (1) participation in tuition reciprocity programs by Minnesota students and students from other states attending Minnesota postsecondary institutions under a reciprocity agreement;
- (2) reciprocity and resident tuition rates at each institution;
- (3) interstate payments and obligations for each state participating in the tuition reciprocity program in the prior year; and
- (4) summary statistics on number of graduates by institution, degree granted, and year of graduation for reciprocity students who attended Minnesota postsecondary institutions.

Enclosed you will find a copy of the Minnesota Office of Higher Education's *Tuition Reciprocity Annual Report* in compliance with *Minnesota Statutes* 136A.08, Subd. 7.

The report, as well as a link to our reports page can be found here.

Please contact our office with questions.

Thanks much.

# OFFICE OF HIGHER EDUCATION



Minnesota Tuition Reciprocity: 2018 Annual Report February, 2019

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#### About the Minnesota Office of Higher Education

The Minnesota Office of Higher Education is a cabinetlevel state agency providing students with financial aid programs and information to help them gain access to postsecondary education. The agency also serves as the state's clearinghouse for data, research and analysis on postsecondary enrollment, financial aid, finance and trends.

The Minnesota State Grant Program is the largest financial aid program administered by the Office of Higher Education, awarding more than \$198 million in need-based grants to Minnesota residents attending accredited institutions in Minnesota. The agency oversees tuition reciprocity programs, a student loan program, Minnesota's 529 College Savings Plan, licensing and early college awareness programs for youth.

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# Introduction

Minnesota's tuition reciprocity agreements, most of which have been in operation for over 40 years, establish a common market for postsecondary education promoting student choice. Specifically, the agreements aim to expand education opportunities for Minnesota residents by allowing Minnesota residents (and residents of participating states) to be treated as a resident for the purposes of admission and tuition, thereby allowing students to attend the institution that best matches and fits their educational needs.

Researchers find positive effects on the likelihood of enrollment, graduation, and workforce outcomes, as a result of students choosing a best-match, best-fit institution.<sup>1,2</sup> Economists Cohodes and Goodman (2013) explored the impact of a scholarship program in Massachusetts that incentivized low-income students to attend less-selective state schools rather than more selective institutions. The authors found that participating in the program reduced the students' likelihood of graduating on time by 40%.<sup>3</sup> Studies have also shown that improving a student's college match is associated with a 20% increase in their wages following their postsecondary education (Hoekstra, 2009, November).<sup>4</sup>

Minnesota's tuition reciprocity agreements play an important role in providing Minnesota residents with more postsecondary opportunities, some of which may be perceived by students and their families as being of equivalent quality and at a lower cost.

In order to fulfill the requirements of *Minnesota Statutes 136A.08, Subd. 7,* the Minnesota Office of Higher Education (OHE) prepares an annual report on the tuition reciprocity programs for the Minnesota Legislature that presents data on:

- Participation
- Interstate payments
- Tuition rates
- Reciprocity graduates from Minnesota public institutions

The body of this report describes: statutory basis for reciprocity agreements; reciprocity agreements' geneses; student participation; Minnesota's interstate payment calculations; and student outcomes.

<sup>&</sup>lt;sup>1</sup> Kurlaender, M. & Grodsky, E. (2013). Mismatch and the paternalistic justification for selective college admissions. Sociology of Education. 86: 294-310.

<sup>&</sup>lt;sup>2</sup> Pender, M., Smith, J., Hurwitz, M., & Howell, J. (2012, October). College choice: Informing students' trade-offs between institutional price and college completion. The College Board. Policy Brief.

<sup>&</sup>lt;sup>3</sup> Cohodes, S. & Goodman, J. (2013, March). Merit Aid, College Quality and College Completion: Massachusetts' Adams Scholarship as an in-Kind subsidy," Harvard Kennedy School working paper.

<sup>&</sup>lt;sup>4</sup> Hoekstra, M. (2009, November). The effect of attending the flagship state university on earnings: A discontinuity-based approach. The Review of Economic and Statistics. Retrieved from: http://econweb.tamu.edu/mhoekstra/flagship.pdf.

# **Statutory Authority**

*Minnesota Statutes 136A.08 Subd. 2* states that the purpose of tuition reciprocity is for ". . . the mutual improvement of educational advantages for residents of this state and other states or provinces with whom agreements are made."

The mutual improvement of educational advantages for Minnesota residents and other states or provinces has been administratively operationalized as removing non-resident admission and tuition barriers at participating public institutions.<sup>5</sup> Under the agreements, when applying for admission to an eligible public postsecondary institution, a Minnesota resident is to be considered like a Wisconsin, North Dakota, South Dakota or Manitoba resident for admission and tuition purposes. <sup>6</sup> Similarly, residents of reciprocity states are treated as residents of Minnesota when applying for admission to eligible Minnesota public postsecondary education institutions.<sup>7</sup>

*Minnesota Statutes 136A.08 Subd.2* authorizes the Minnesota Office of Higher Education to enter into tuition reciprocity agreements in consultation with the Commissioner of Minnesota Management and Budget (MMB) and each affected Minnesota public postsecondary governing board. Tuition reciprocity agreements are not valid until approved by the University of Minnesota (UMN) Board of Regents and the Minnesota State Board of Trustees as provided for in *Minnesota Statutes 136A.08, Subd. 6*. The agreements are ongoing and reviewed annually by the Office of Higher Education, and can exist as long as the participating states deem them to be beneficial.

Staff at OHE administer Minnesota's tuition reciprocity agreements in consultation with University of Minnesota and Minnesota State staff, the Minnesota Governor's Office, and the Minnesota Legislature. In addition, OHE works with comparable agencies in states and jurisdictions that have a tuition reciprocity agreement with Minnesota. Details regarding reciprocity tuition rates and program operations are contained in annual administrative memoranda. Annual administrative memoranda documents are signed by the executive directors of the higher education boards or agencies in each state before the start of the academic year and disseminated to public postsecondary education campuses.

<sup>&</sup>lt;sup>5</sup> For example, under tuition reciprocity Minnesota resident undergraduates enrolling at UW-Madison are charged \$7,030 for 15 credits in the fall of 2017 compared to \$17,391 for non-residents (<u>https://registrar.wisc.edu/tuition & fees.htm</u>).

<sup>&</sup>lt;sup>6</sup> Minnesota's tuition reciprocity agreements include public postsecondary education institutions in participating states. Typically, all undergraduate and graduate programs of study are available to reciprocity students; however, professional programs may or may not be included in the agreements. Minnesota's agreement with Wisconsin does not include Wisconsin technical colleges, because Wisconsin's technical colleges are operated at the local rather than the state level. Minnesota residents can apply directly to Wisconsin technical colleges, and if admitted, pay the Wisconsin technical college Wisconsin resident tuition rate.

<sup>&</sup>lt;sup>7</sup> Removal of nonresident admission and tuition barriers, along with interstate payments, differentiates Minnesota's state-wide tuition reciprocity agreements from student exchange programs, such as the Midwest Higher Education Compact's Student Exchange Program. The Midwest Higher Education Compact's Student Exchange Program sells excess capacity in a limited number of programs and public institutions at a discounted price, which is typically higher than the reciprocity rate.

# History

Minnesota signed its first reciprocity agreement with Wisconsin in 1969. The initial agreement limited the number of students and the number of public institutions participating from each state. Recognizing the value of the program, Minnesota and Wisconsin expanded the program every year until 1973. In 1973, following a Minnesota and Wisconsin Governors' initiative to establish a 'common market' for college education, the two states signed an unrestricted statewide tuition reciprocity agreement. The impetuses behind the expanded reciprocity agreement were to:

- expand postsecondary education opportunities for state residents, and
- avoid postsecondary institution and program duplication.

Over the next decade, Minnesota entered reciprocity agreements with North Dakota, South Dakota, and a limited agreement with select institutions in Iowa (Table 1).

Reciprocity State	Date of Inception
Wisconsin	1969
North Dakota	1975
South Dakota	1978
Iowa	1979
Manitoba	1989

#### Table 1: Minnesota Reciprocity Agreements by Date of Inception

Periodically, OHE has asked the Iowa Board of Regents to consider expanding tuition reciprocity to include all public institutions in Minnesota and Iowa, although the Office of Higher Education has not done so in recent years. To date, the Iowa Board of Regents has not been interested in establishing state-wide tuition reciprocity with Minnesota.<sup>8</sup> Minnesota's reciprocity agreement with the Canadian province of Manitoba in 1989 represents the last major expansion of the program.<sup>9</sup>

<sup>&</sup>lt;sup>8</sup> For further information see: Erin Jordan and Lisa Ross: *Colleges look to 'steal' students from outside to further growth*, Des Moines Register, September 7, 2006, Frank Santiago: *Out-of-state colleges lure few*, Des Moines Register, February 8, 2001, and *In-state tuition, out of state*, Chicago Tribune, November 19, 2007.

<sup>&</sup>lt;sup>9</sup> In addition to signing reciprocity agreements, Minnesota has also participated in interstate contracting, which allows states to purchase/reserve seats in specific programs at an institution in a participating state for their residents. Historically, these contractual relationships have been limited to professional schools that have limited capacity. For example, the University of Minnesota allowed Wisconsin residents to reserve seats in the College of Veterinary Medicine until Wisconsin established its own Veterinary Medical program (see: Minnesota Higher Education Coordinating Board. (1985, April 12). The contractual arrangements allowed states to cooperatively provide educational services without incurring the costs associated with developing the program infrastructure needed to offer the same program within their own state's boarders.

# **Participation**

# Overview

In a traditional postsecondary market, students may be disincentivized, or even deterred, from enrolling in an outof-state institution due to non-resident tuition costs, which can approach 200% of the resident tuition rate.<sup>10,11</sup> While non-resident tuition revenue remains important for institutional budgets, it may limit postsecondary options for lower- and middle-income and traditionally underserved students, including the institutions located closest to students, which they may otherwise consider.

Reciprocity agreements establish a new "common market," expanding affordable postsecondary options for Minnesota residents and residents of participating states. Additionally, they allow states to leverage participating states' postsecondary infrastructure and programs, enhancing postsecondary regional efficiencies.<sup>12</sup> Specifically, participating states under the agreements treat out-of-state students as residents for purposes of tuition and admission – promoting student choice by making out-of-state institutions more affordable for Minnesota students and their families.

In practice, however, although all of Minnesota's reciprocity agreements utilize the resident tuition rate as a baseline, the agreements vary in their tuition setting approaches/frameworks, creating differing incentives/ disincentives that may differentially impact states' student participation (Table 2). The differences in tuition setting approaches highlight the challenge of balancing tensions between what's best for students, states, and institutions. These tensions, and whether the policies should be aligned, are discussed in the tuition setting approach section. Despite these differences, the common market created by Minnesota's reciprocity agreements provides Minnesota students and families with increased affordable postsecondary options compared to a traditional postsecondary market at a time when published tuition and fees continue to increase at a rate faster than median family income.<sup>13</sup>

<ol> <li>Resident tuition at the institution attended (with or without a surcharge)</li> </ol>	2. The higher of the two-states' resident tuition rates at a comparable institution	3. Resident tuition at comparable institution in the student's state of residence
Minnesota residents attending North Dakota institutions, and participating institutions in Manitoba and Iowa	South Dakota and Wisconsin agreements, and North Dakota residents attending a Minnesota institutions	Not currently used

### Table 2: Tuition Rate Setting Approaches Currently Utilized

<sup>&</sup>lt;sup>10</sup> Minnesota institution's 2017-18 resident and non-resident tuition rates can be found here: <u>http://www.ohe.state.mn.us/sPages/TuitionChart.cfm?SchState=MN&pageID=651</u>

<sup>&</sup>lt;sup>11</sup> Some Minnesota State Universities do not charge a non-resident rate that differs from their resident rate.

<sup>&</sup>lt;sup>12</sup> The enrollment of North Dakota students at Minnesota State Community Technical College and Northland Community and Technical College may be an example of a regional efficiency (see Figure 5).

<sup>&</sup>lt;sup>13</sup> Ma, J., Baum, S., Pender, M., & Bell, D. W. (2015). Trends in College Pricing, 2015. Trends in Higher Education Series. *College Board*. <u>https://files.eric.ed.gov/fulltext/ED572540.pdf</u>

## **Student Flow**

Figure 1 shows reciprocity enrollments by participating states. <sup>14</sup> In fall 2017, a total of 41,755 students participated in tuition reciprocity (93% were undergraduate students).<sup>15</sup> Of the participating students, 28,236 (67%) were Minnesota residents enrolled in reciprocity institutions in participating states, while 13,623 were residents of participating states enrolled in Minnesota public postsecondary institutions. Minnesota's reciprocity agreements with Wisconsin and North Dakota represent the bulk of all reciprocity enrollments (88%). Minnesota's agreement with South Dakota composes an additional 11% of the total participation, while Minnesota's agreements with Iowa and Manitoba enroll relatively few students each year.<sup>16</sup>



#### Figure 1: Reciprocity Participation by State, Fall 2017 Enrollment

Source: Minnesota Office of Higher Education

Historically, Minnesota residents participated in reciprocity in greater numbers than residents of participating states, largely because Minnesota's population dwarfs that of most of its participating neighbors (Wisconsin being the exception, see Figure 13 in Appendix A); however, the participation gap has widened over the past eight

<sup>&</sup>lt;sup>14</sup> See Table 7 in Appendix B for historical fall enrollment data.

<sup>&</sup>lt;sup>15</sup> The number of Minnesota residents enrolling in Manitoba is from fall 2015. At the time of the report's release, Minnesota had not yet received Manitoba's fall 2016 enrollment numbers.

<sup>&</sup>lt;sup>16</sup> As previously stated, the agreement with Iowa allows Iowa residents to attend Minnesota West Community & Technical College and Minnesota residents to attend Iowa Lakes Community College.

years.<sup>17</sup> Since 2010, participation of Minnesota residents under the reciprocity agreements with Wisconsin, North Dakota, and South Dakota (Minnesota's three largest agreements in terms of student flow) remained relatively flat, from 27,388 students in fall 2010 to 27,860 students in fall 2017, indicating that growth in the participation gap did not result from increases in Minnesota participation (Figure 2).



### Figure 2: Reciprocity Participation of Minnesota Residents Fall 2010 to Fall 2017

Source: Minnesota Office of Higher Education

Over the same period, reciprocity participation by residents of Wisconsin, North Dakota, and South Dakota decreased 21%, from 16,992 students in fall 2010 to 13,501 students in fall 2017 (Figure 3). Specifically, Wisconsin's participation decreased by almost 19%, and North Dakota's decreased by 25%. The next two sections examine where students chose to enroll under Minnesota's two largest reciprocity agreements (Wisconsin and North Dakota), whether the tuition rate approach utilized may incent differences in participation between the states, and what impact the enrollment trends may have on the interstate payments.

<sup>&</sup>lt;sup>17</sup> Data from the mid-1980s show the same trends.



### Figure 3: Reciprocity Participation at Minnesota Institutions by Students' State of Origin, Fall 2010 to Fall 2017

Source: Minnesota Office of Higher Education

## Minnesota - Wisconsin Agreement

Minnesota's reciprocity agreement with Wisconsin represents Minnesota's largest in terms of student flow. In fall 2017, 13,504 students from Minnesota chose to enroll at a Wisconsin institution through reciprocity, while 8,296 Wisconsin students attended a Minnesota institution. Students participating under the Minnesota – Wisconsin agreement pay the higher of the two states' resident tuition rates at a comparable institution, meaning both Minnesota and Wisconsin students typically pay Minnesota tuition rates. <sup>18</sup> Under this approach, Wisconsin students may be disincentivized from attending a Minnesota institution compared to the costs of enrolling in a comparable Wisconsin institution. Minnesota students, however, are neither incentivized nor disincentivized from enrolling in a Wisconsin institution in terms of tuition because they pay the same tuition rate they would have paid to attend a comparable Minnesota institution. While residents of both states benefit from additional postsecondary options –as the program intended– only Minnesota residents gain additional postsecondary options at an equivalent price to what they would have paid in their home state.<sup>19</sup>

<sup>&</sup>lt;sup>18</sup> Minnesota's tuition rates are typically higher than Wisconsin, except the University of Wisconsin Colleges (two-year colleges).

<sup>&</sup>lt;sup>19</sup> Obviously, both sides benefit when compared to the traditional non-resident rate. In practice, however, even if reciprocity ended, students would likely only pay a portion of the non-resident rate if they chose to utilize the Midwest Higher Education Compact's Student Exchange Program, which charges 150% of the resident rate (http://msep.mhec.org/).



### Figure 4: Top 10 Institutions for Reciprocity Enrollments under the MN-WI Agreement, Fall 2017

Figure 4 shows the top 10 Minnesota and Wisconsin institutions students chose to enroll in under the agreement in fall 2017. The top ten institutions in Wisconsin and Minnesota comprise 99% and 98% of all reciprocity enrollment under the agreement, respectively.<sup>20</sup> Almost half of all Wisconsin students enrolled at the University of Minnesota – Twin Cities (3,836 students or 46%). Correspondingly, the majority of Minnesota students enroll at the University of Wisconsin – Madison (2,876 students or 21%) -both prestigious research universities. Despite the price disincentive, Wisconsin students continue to enroll in significant numbers at the University of Minnesota, indicating they see attending the Twin Cities campus as a reasonable value despite incurring higher tuition costs. The data suggest, however, that the same enrollment behavior may not be true at all regional universities.

Enrollment of Minnesota students at Wisconsin's regional public four-year universities also remains strong: 8,871 Minnesota students (64%) enrolled in four regional universities (River Falls, Eau Claire, Stout, and LaCrosse), all of which are located within 50 miles of Minnesota's boarder. This indicates proximity may play a key role in students' decisions. Conversely, the next four largest Minnesota institutions in terms of Wisconsin reciprocity participation (Winona State, University of Minnesota-Duluth, MSU-Mankato, and St. Cloud State University) only enrolled 3,658 (45%) students - representing less than half of Minnesota's participation at regional universities. While the price disincentive likely impacts Wisconsin students' enrollment decisions at Minnesota regional universities, its magnitude is unclear. The differences in enrollment at the regional universities account for a significant proportion of the overall difference in the student flow between the two states.

In terms of the interstate payment, all else being equal, if the participation gap continues to grow, Wisconsin's obligation to Minnesota should increase. If the gap narrows, Wisconsin's obligation would decrease. The tuition paid by both Minnesota and Wisconsin students exceed the program costs. As a result, the state with the larger

<sup>&</sup>lt;sup>20</sup> For a detailed breakout of enrollment by institution, see Table 8 in Appendix B.

overpayment, typically Minnesota, receives an interstate payment equal to the net overpayment amount from the other state. Specifically, as fewer Wisconsin students participate, Wisconsin's total overpayment amount should decrease, resulting in a larger interstate payment from Wisconsin (assuming participation of Minnesota students remains static). The *Interstate Payment* section provides a detailed explanation of the program cost formula and the resulting interstate payment.

## Minnesota - North Dakota Agreement

In fall 2017, 11,207 Minnesota students chose to attend a reciprocity institution in North Dakota (Figure 5). Comparatively, 3,390 North Dakota students chose to enroll in Minnesota. The difference in student participation levels between the states largely results from the significant size difference in the states' populations (see Figure 13 in Appendix A). Minnesota residents attending North Dakota institutions pay the resident tuition rate at the institution attended plus a surcharge (12% for undergraduates and 27% for graduate students). North Dakota residents attending Minnesota institutions pay the higher of the two states' resident tuition rates at comparable institutions, meaning, North Dakota residents typically pay the Minnesota tuition rate, which may disincentivize them from choosing a Minnesota institution. Since 2010, the number of North Dakota students enrolled at a participating Minnesota reciprocity institution has steadily declined (see Figure 3).



### Figure 5: Top Institutions for Reciprocity Enrollments under the MN-ND Agreement, Fall 2017

North Dakota students primarily attend Minnesota institutions located close to the North Dakota boarder (85%). Almost 50% enrolled at two Minnesota community and technical colleges located within 50 miles of the state line, highlighting their regional role. Minnesota students overwhelmingly enrolled at two institutions (93%), the University of North Dakota (UND) and North Dakota State University (NDSU). Several factors likely contribute to Minnesota residents' decision to enroll at UND and NDSU including location, institutional prestige, and perceived value.<sup>21</sup>

The Carnegie Foundation for the Advancement of Teaching classifies institutions according to their mission. An unintended consequence, however, has been the use of the classification as a barometer of prestige.<sup>22</sup> Table 3 shows the classifications for two University of Minnesota institutions (UMN-TC and UMD), Minnesota State Universities, and UND and NDSU.<sup>23</sup> According to the classifications, UND and NDSU are more similar in mission to UMN-TC than to Minnesota State Universities, but their published tuition is more similar to Minnesota State Universities. If Minnesota students and their families perceive UND and NDSU to be more similar in quality to UMN-TC, their enrollment, regardless of whether or not they applied and were accepted to the UMN-TC, may indicate they are making an informed consumer decision by attending an institution of similar quality (whether perceived or actual) at a significantly lower price.

Carnegie Classification (2015, Basic)		Institution	2018-2019 Tuition & Fee Charges for MN Undergraduate Residents (Fees Not Included)*
Doctoral Universities	Highest Research Activity	University of Minnesota-Twin Cities	\$14,760
	Higher Research Activity	North Dakota State University	\$8,546
	Higher Research Activity	University of North Dakota	\$8,447
Master's Colleges & Universities	Larger Programs	University of Minnesota- Duluth	\$13,367
	Larger Programs	Minnesota State University- Mankato	\$7,179
	Larger Programs	Saint Cloud State University	\$8,261
	Larger Programs	Metropolitan State University	\$7,879
	Medium Programs	Minnesota State University Moorhead	\$8,575
	Medium Programs	Winona State University	\$9,426
	Small Programs	Bemidji State University	\$8,696

# Table 3: Carnegie Classification (2015, Basic) of select Minnesota and North Dakota reciprocity institutions

The rates shown for UND and NDSU are the Minnesota reciprocity rates that include the surcharge. Source: Minnesota Office of Higher Education.

<sup>&</sup>lt;sup>21</sup> Obviously, students' college choice decisions incorporate numerous other factors in addition to those previously mentioned.

<sup>&</sup>lt;sup>22</sup> Morphew, C. C., & Baker, B. D. (2004). The cost of prestige: Do new research I universities incur higher administrative costs? The Review of Higher Education, 27(3), 365-384.

<sup>&</sup>lt;sup>23</sup> Although Table 2 shows the 2015 Carnegie Classification, UND's and NDSU's relative position remains the same across all the rankings since 1994. Carnegie modified their classifications over time in an attempt to try to discourage their use as a measure of prestige.



### Figure 6: Residence Zip Code of First-Time Minnesota Reciprocity Students Enrolled at UND and NDSU, Fall 2016

Understanding where Minnesota students enrolling at UND and NDSU live in Minnesota may provide insights into students' enrollment decisions. For example, if the majority of Minnesota students enrolling at UND and NDSU live close to the campuses then location likely plays a significant factor in their decision. Figure 6 shows concentrations of current zip codes for all first-time Minnesota reciprocity participants that enrolled at UND and NDSU in fall 2016. The map shows that a majority of students live in the Twin Cities metro area and surrounding suburbs. Additionally, as one would expect, students are heavily concentrated around major interstates (e.g. the

I-94 corridor) and highways (e.g., U.S. Hwy 10 & U.S. Hwy 2). It also appears that several Minnesota participants live very close to the campuses; however, because students report their current zip code, some participants may have reported their on-campus address rather than their permanent resident address, which overstates the size of this population. Because the majority of new Minnesota residents attending UND and NDSU in the fall of 2016 came from the Twin Cities metro area and surrounding suburbs, it seems reasonable to assume that factors other than location (including price) likely drive these students' decision to enroll at UND and NDSU.<sup>24</sup>

As previously mentioned, Minnesota's reciprocity agreement with North Dakota utilizes two different tuition policies for participating students. Minnesota residents attending North Dakota institutions pay the resident tuition rate at the institution attended plus a surcharge, while North Dakota residents attending Minnesota institutions pay the higher of the two states' resident tuition rates at comparable institutions. The reciprocity agreement with North Dakota is Minnesota's only agreement that utilizes two different tuition policies for participating students. The agreement's tuition setting approach diverged as a result of changes to the agreement in 2013 that reduced Minnesota' interstate payment obligation. Prior to 2013, both Minnesota and North Dakota students essentially paid the higher of the two state rates at a comparable institution. Under the prior agreement, Minnesota State Universities were identified as the comparable institutions to UND and NDSU, rather than the University of Minnesota – Twin Cities.

Minnesota's annual interstate payment to North Dakota is largely determined by the difference in student flow between the states and the amount of tuition Minnesota students paid. Because more Minnesota residents enrolled in North Dakota institutions than the reverse, and the tuition paid by Minnesota participants does not cover the marginal instructional costs, Minnesota issues an interstate payment to North Dakota.

In 2017, OHE renegotiated Minnesota's agreement with North Dakota to accomplish two broad goals:

- To limit Minnesota's annual financial obligation the revised agreement limits Minnesota's interstate payment obligation to the lesser of the program costs for each fiscal year or the annual amount appropriated by the state legislature for the current biennium – resulting in a lower interstate payment beginning with the 2018 fiscal year. In exchange, North Dakota can increase the surcharge charged to Minnesota residents without Minnesota's approval if Minnesota lowers its annual appropriation amount.
- 2. Ensure state parity The modified agreement also allows either North Dakota or Minnesota to increase the surcharge with the mutual agreement of the other state (except in the circumstances described above). Previously, only North Dakota could initiate an increase in the surcharge (with Minnesota's approval). Under the previous agreement, Minnesota could not initiate a surcharge increase. A termination clause was also added that allows either North Dakota or Minnesota to cancel the agreement. To be clear, neither state expressed a desire or is seeking to terminate the agreement.

The Interstate Payment section provides a detailed explanation of the program cost formula and the resulting interstate payment.

<sup>&</sup>lt;sup>24</sup> For a description of North Dakota's success in attracting out-of-state residents to North Dakota see: (<u>http://online.wsj.com/article/SB10001424052702304231204576406042109860376.html</u>).

# **Interstate Payments**

# **Marginal Instructional Cost**

In order to understand the costs associated with participating in reciprocity agreements for students and states, it is essential to understand the concept of a "marginal instructional cost." A marginal instructional cost is the economic cost of incremental enrollment. For purposes of tuition reciprocity agreements, the agreements assume that each participating state has existing instructional costs (both fixed and variable) associated with educating their own residents (infrastructure, personnel, etc...) and that incrementally adding non-residents will not increase the cost of instruction at a rate that is equal to or greater than the average full instructional cost. In Minnesota's reciprocity agreements, the marginal instructional cost is set at 64% of the per-student instructional costs.

## **Interstate Payments**

Students (through tuition payments) and participating states (through interstate payments, if the reciprocity agreement requires an interstate payment) bear the responsibility for covering the marginal instructional cost. According to Minnesota Statutes 136A.08, Subd. 3 and 4, Minnesota's reciprocity agreements may include a provision for interstate tuition reciprocity payments based on a formula mutually acceptable to the participating states. Currently, Minnesota has long-standing interstate payment agreements with Wisconsin, North Dakota, and South Dakota. Minnesota and South Dakota, however, have historically agreed to waive the interstate payment in the annual memorandum of understanding due to the small student flow between the states.

A cost-based formula that accounts for the total reciprocity tuition paid by students and the number of enrolled reciprocity students determines a state's interstate payment. In its simplest form, the cost formula first takes into account the tuition a reciprocity student pays for his or her education. The remaining marginal instructional costs are the responsibility of the general fund of a reciprocity student's state of residence, as shown in the following formula.

Marginal Instructional Costs per Student
- Reciprocity Tuition Paid per Student
= State General Fund Obligation per Student

All else being equal, increasing the tuition paid per student decreases a state's general fund obligation for tuition reciprocity. Conversely, decreasing the tuition paid per student increases a state's general fund obligation.

# **Tuition Rate Setting Approaches**

The tuition students pay under the reciprocity agreements, along with the student flow between the states, determine the interstate payment amounts under Minnesota's agreements with North Dakota and Wisconsin. Tuition rates used in Minnesota's tuition reciprocity agreements reflect agreement among the participating states and their public postsecondary education systems. Since the inception of tuition reciprocity in the 1960s, Minnesota's reciprocity agreements have utilized a variety of the tuition rate setting approaches, including:

- 1. The resident tuition rate at the institution attended, with or without a surcharge. The current policy for Minnesota residents attending North Dakota institutions and participating institutions in Manitoba and Iowa.
- 2. The higher of the two-state resident tuition rates at a comparable institution. The current policy in place for the South Dakota and Wisconsin agreements, and for North Dakota residents attending Minnesota institutions.
- 3. The resident tuition rate at a comparable institution in the student's state of residence, with or without a surcharge. None of Minnesota's agreements currently utilize this approach.

Generally, tuition setting approaches change as a result of a state's desire to reduce its interstate payment, institutions' desire to capture more revenue (or sustain existing revenue streams), or state policy concerns -such as out-of-state students paying less tuition to attend an in-state institution than resident students. Changing the tuition setting approach utilized under an agreement to achieve a policy goal may result in other intended or unintended consequences. Historically, for example, decreasing the interstate payment meant increasing the amount students and their families pay in tuition. Understanding how a proposed change aligns with the program's purpose of promoting "the mutual improvement of educational advantages for residents" remains a core consideration. Additionally, while some of the approaches may be more beneficial to Minnesota students and their families than others, all of them benefit Minnesota students more than the traditional postsecondary marketplace where students pay conventional non-resident tuition rates. Some of the advantages and disadvantages of the three tuition rate setting approaches are briefly described below.

#### 1. Students charged the resident tuition rate at the institution attended with or without a surcharge.

This approach functions most like a competitive market - students pay the resident rate set by the institution they attend. It also has the advantage of being readily understood by students and their families, and rewards informed consumers from higher-priced states. Under this approach, educated and savvy consumers (students and their families) benefit from attending an institution of equivalent quality (whether perceived or actual) at a lower price in a reciprocity state than a comparable institution in their home state. Minnesota residents would benefit under this approach when attending an out-of-state institution. This approach, however, may create a price incentive for students from states with higher resident tuition rates (Minnesota) to leave their state of residence, resulting in a decline in institutional tuition revenue for in-state institutions.

Minnesota's agreements with Manitoba and Iowa Lakes Community College utilize the resident tuition rate at the institution attended. Additionally, Minnesota residents attending North Dakota University System institutions pay the resident rate plus a surcharge, while North Dakota students attending Minnesota institutions pay the higher of two states' residents' rate for the type of campus attended. As previously stated, the surcharge was implemented in fall 2013 to reduce Minnesota's general fund obligation to North Dakota. The modification to the North Dakota agreement created a policy misalignment that still exists today - the tuition setting approach differs based on the students' state of residence.

#### Utilizing a Surcharge

Historically, states implemented or increased a surcharge to reduce the state's interstate payment obligation (subsidy). While implementing or increasing a surcharge reduces the states obligation, it shifts more of the marginal instructional costs onto students and their families -increasing their direct costs of pursuing a postsecondary education. As the price of attending an out-of-state institution approaches costlier

in-state options as a result of a surcharge, fewer students may choose to enroll -limiting student choice and the number of lower-priced postsecondary alternatives available to students. The cost shift, as a result of the surcharge, may also increase student debt - an often-cited concern of policymakers.

#### 2. Students charged the higher of the two states' resident tuition rates at a comparable institution.

In practice, because Minnesota's public postsecondary institutions tuition rates are generally higher than the tuition rates at comparable institutions in reciprocity states, Minnesota resident reciprocity students pay the higher Minnesota tuition rate charged at a comparable Minnesota institution. Under this approach, Minnesota students are neither incentivized nor disincentivized from enrolling in a participating out-of-state institution. This approach, however, does increase the costs Minnesota reciprocity students pay to enroll in a participating out-of-state institution. This approach, however, does increase the costs Minnesota reciprocity students pay to enroll in a participating out-of-state institution compared to option #1. Conversely, reciprocity students attending Minnesota public postsecondary education institutions pay the higher Minnesota tuition rate at the institution attended, creating a disincentive for them to enroll in Minnesota institution.

This approach advantages institutions in the state with higher resident tuition rates as they are more likely to retain more in-state students. Additionally, assuming no changes to enrollment behavior as a result of the increased costs to students from higher priced states, out-of-state institutions would collect additional tuition revenue. This approach disadvantages students and their families compared to option #1, but still provides them with a discount compared to the traditional non-resident rates. The higher of the two-state resident tuition rates at comparable institutions is current practice for all students under Minnesota's reciprocity agreements with South Dakota and Wisconsin, and for North Dakota residents attending Minnesota institutions.

### 3. Students charged the resident tuition rate at a comparable institution in the student's state of residence.

Under this approach, Minnesota students attending an out-of-state reciprocity institution pay a tuition rate equal to the resident rate they would have paid at a comparable Minnesota institution. Again, Minnesota's tuition rates are typically higher than the resident rates in participating reciprocity states, meaning this approach increases the cost of postsecondary education for Minnesota students and their families participating in reciprocity compared to option #1. Additionally, under this tuition setting model, institutions in the state with higher resident tuition rates (in this case Minnesota) would also collect less tuition revenue from a reciprocity student than from a resident student. For example, a Wisconsin student attending the University of Minnesota's resident rate. Minnesota-Wisconsin tuition reciprocity agreement used this approach prior to 2007. The agreement was modified to address three concerns: 1. The University of Minnesota wanting to capture a larger share of revenue, 2. Wisconsin students paying less tuition to attend the University of Minnesota than Minnesota and 3. Wisconsin's desire to reduce its interstate payment to Minnesota.

In summary, Minnesota's current reciprocity agreements vary in their tuition setting approaches, and have changed approaches over the last 40 years to achieve state and institutional priorities, such as lowering the interstate payment and allowing institutions to capture (or maintain) revenue. Furthermore, in addition to varying across the agreements, Minnesota's agreement with North Dakota utilizes two different tuition policies for participating students depending on their state of residence.

From a policy perspective, two key questions emerge: Should Minnesota's agreements be uniform in their tuition setting approach? And, if so, what tuition setting approach should Minnesota utilize in its agreements? The answers to these questions likely vary depending on the stakeholders. Given the program's purpose, however, of promoting student choice, option #1 (paying the resident tuition rate at the institution attended without a surcharge) seems to align most closely with the program's goals. Option #1 provides Minnesota students and their families with more postsecondary options at the lowest cost, making college more affordable as public concerns over the price of college continue to grow. As discussed earlier, this approach, however, creates other consequences that would need to be carefully considered and weighed before implementing this approach universally.

## **Marginal Instructional Cost Split**

Today, students, through the tuition they paid, cover the majority of the marginal instructional costs. Figures 7 and 8 show the marginal instructional cost split between students and the state under both the Wisconsin and North Dakota agreements. For the 2017-2018 academic year, the tuition paid by Minnesota residents' attending Wisconsin institutions exceeded the marginal instructional cost, up from 64% in 2000-2001 (Figure 7).





Historically, both of Minnesota's reciprocity agreements with North Dakota and Wisconsin resulted in a general fund obligation for Minnesota (see Figure 9 on p. 26). Changes to the agreement with Wisconsin combined with tuition increases that eventually exceeded the marginal instructional cost resulted in Wisconsin issuing payments to Minnesota beginning with the 2002-2003 academic year. Initially, the payments from Wisconsin more than offset Minnesota's general fund cost associated with the North Dakota agreement. Over the last six years, however, the growth in Minnesota's obligation to North Dakota resulted in an overall net program cost for Minnesota. Based on invoices from North Dakota and Wisconsin, the net cost of Minnesota's tuition reciprocity program is projected to be \$5.5 million for the 2017-2018 academic year.



#### Figure 8: Minnesota's General Fund Obligation, 1975-1976 to 2017-2018

Source: Minnesota Office of Higher Education

# **Minnesota-Wisconsin Interstate Payment Formula**

Because the tuition paid by both Minnesota and Wisconsin students exceeds the marginal instructional cost, Wisconsin's interstate payment to Minnesota represents the difference in the net amount of student tuition paid in excess of marginal instructional costs (Table 4). Specifically, the state that made the larger overpayment above the marginal instructional cost receives a payment for the net difference between the two states' overpayment. For the 2017-2018 academic year, Wisconsin's payment to Minnesota is \$5.5 million.

	Payment Variable	WI Obligation to MN	MN Obligation to WI	
	Marginal Instructional Costs	\$70.8	\$91.8	
-	Student Paid Tuition	\$86.3	\$112.8	
=	Remainder	(\$15.5)	(\$21.0)	

# Table 4: Preliminary Minnesota-Wisconsin Interstate Payment Calculation: 2017-2018 Academic Year

Difference = \$5.5 million WI payment to MN General Fund

Note: Differences due to rounding. Source: Minnesota Office of Higher Education

## Minnesota-North Dakota Interstate Payment Formula

The Minnesota-North Dakota agreement uses a marginal cost formula based on the state educating the greatest number of students, defined as "GAP full-time equivalent (FTE) Students" (Table 6). Currently, more Minnesota residents enroll in North Dakota public institutions than the reverse, and their tuition fails to cover the marginal instructional costs. As a result, Minnesota issues North Dakota an interstate payment.

	Operational Expenditure per FTE	\$14,844
	Marginal Expenditure Rate	0.64
х	Marginal Expenditure per FTE	\$9,500
=	Resident Tuition Rate (NDSU/UND)	(\$7,074)
-	Remaining Marginal Expenditures per FTE	\$2,426
=	GAP FTE Students	7,817
х	Gross State Obligation	\$18,966,641
-	Student Payment	\$9,515,100
=	Net State Obligation	\$9,451,542

#### Table 5: Minnesota-North Dakota Interstate Payment Formula: 2017-2018 Academic Year

For the 2017-2018 academic year, 7,817 more Minnesota FTE students enrolled in a North Dakota than the reverse, resulting in an interstate payment of \$9.5 million. Beginning with the 2017-2018 academic year, Minnesota's interstate payment will be capped at \$11.02 million as a result of the 2017 renegotiated agreement.

The renegotiated agreement caps Minnesota's interstate payment at the lesser of: 1. the actual remaining marginal instructional cost balance, or 2. the annual amount appropriated by the Minnesota legislature. North Dakota agreed to forgo any balance that exceeds the annual appropriation amount in exchange for the ability to increase the surcharge Minnesota students pay without approval from Minnesota, if the Legislature reduces the annual appropriation amount.

In addition to more Minnesota residents enrolling in North Dakota public institutions than the reverse, which is the largest driver of Minnesota's obligation, North Dakota's growth in total educational revenue also plays a key role. Table 6 shows the five-year percent change in total educational revenue per FTE, appropriations per FTE, and net tuition revenue per FTE for both Minnesota and North Dakota over the past five years. Total educational revenue per FTE is the sum of appropriations per FTE and net tuition revenue per FTE. Over the period, North Dakota increased their state support of their public institutions on an FTE basis (up 13.9% over the past five years) at a lower rate than Minnesota. However, their net tuition revenue growth (9.7%) significantly outpaced Minnesota's (0.3%), which is primarily driven by the differences in enrollment declines each state experienced over the period. Increases in both state support and net tuition revenue resulted in increases in their total operating expenditures and, therefore, the marginal instructional cost.

Table 6: Total Educational Appropriations, Appropriations, and Tuition Five-Year
Percent Change per FTE, Fiscal Years 2012-2017

State	Total Educational Revenues Per FTE	Appropriations per FTE	Net Tuition Revenue per FTE	FTEs
Minnesota	10.3%	26.3%	0.3%	-11.5%
North Dakota	11.8%	13.9%	9.7%	-4.1%

Source: State Higher Education Officers Association (SHEEO), SHEF: FY 2017 - State Higher Education Finance Survey

# Are Interstate Payments Still Necessary?

As previously stated, interstate payments are based on the marginal instructional cost associated with incremental enrollment. Again, the model assumes that incrementally adding additional non-residents will not increase the cost of instruction at a rate that is equal to, or greater than, the average full instructional cost. At what point, however, does the net student flow violate the assumption of incremental enrollment? Additionally, if the incremental enrollment assumption is violated, what are the implications? Would the marginal instructional cost rate adequately account for the actual costs of instruction resulting from enrolling additional non-residents students over and above incremental enrollments? If the net student flow represents a significant portion of state's postsecondary system, does the agreement still require an interstate payment?

To answer these questions adequately, instructional costs associated with these additional enrollments (any enrollments above incremental enrollments) would need to be examined by program and institution. Alternatively, examining the student flows between participating states may provide an indicator of whether or not the net reciprocity participation under both Minnesota's agreement with North Dakota and with Wisconsin seems to be consistent with the incremental assumption.

For the 2017-2018 academic year, almost 92% (9,844) of Minnesota's total FTE participating in reciprocity in North Dakota enrolled at UND and NDSU. In comparison, in 2017-2018, UND's and NDSU's combined FTE totaled 25,237, meaning that Minnesota reciprocity students represented 39% of the institutions' total FTE enrollment. Additionally, tuition paid by Minnesota students (\$79 million) represented approximately 41% of UND and NDSU's tuition revenue (\$234 million). While the interstate payment (\$11 million), which is currently capped (beginning with the 2017-2018 academic year), represents 5% of UND's and NDSU's total tuition revenue. Given that Minnesota residents make up such a significant proportion of UND's and NDSU's FTE and tuition revenue, it seems doubtful that the level of participation should be considered incremental.

Assuming that Minnesota's reciprocity participation in North Dakota violates the assumption of incremental enrollment, what are the consequences? If the tuition paid by Minnesota students' and the interstate payment from Minnesota fail to cover the actual instructional costs the institutions and programs incurred as a result of the additional enrollment, then the formula may be underestimating the actual costs of the reciprocity program. At the same time, the scale of Minnesota's participation at UND and NDSU indicates that the institutions heavily depend on Minnesota residents to sustain their enterprise. Minnesota students' decisions to enroll in North Dakota institutions indicates that the arrangement is mutually beneficial, and that Minnesota families perceive enrolling in North Dakota to be a good investment. Even if the tuition paid by Minnesota residents fails to cover the marginal instructional cost, the sheer size of the proportion of North Dakota's public enrollment and tuition revenue attributable to Minnesota residents raises the question: Is the interstate payment still necessary? Or, does the significant amount tuition revenue flowing across the border provide sufficient justification to maintain the reciprocity program without an interstate payment?

In contrast, total participation of Minnesota residents at Wisconsin institutions represented less than 10% of each states' full-time equivalent enrollments (FTE) for the 2017-2018 academic year. At least aggregated at the state level, the incremental enrollment assumption may be tenable under the Minnesota-Wisconsin agreement. However, given that the tuition paid by students from both states, exceeds the marginal instructional costs, should the interstate payment between Wisconsin and Minnesota be re-evaluated? Again, the significant participation by residents from both states indicates that the arrangement is mutually beneficial. Then, does the interstate payment remain necessary? Wisconsin previously expressed the desire to end the interstate payment because it represents an overpayment rather than a subsidy to offset any unmet program costs.

Minnesota would likely benefit from aligning all of its tuition reciprocity agreements under a common policy framework. Considering that Minnesota currently only exchanges an interstate payment under two of its five agreements, and the need for the remaining interstate payments seems unclear, aligning the North Dakota and Wisconsin agreements -in terms of the interstate payment- with Minnesota's other reciprocity agreements should be considered. Until its determined if whether a uniform policy approach would be beneficial across all Minnesota's reciprocity agreements for students, an intermediate step may be discontinuing the interstate payments with North Dakota and Wisconsin while the other components of the existing agreement remained in place –aligning with Minnesota's other agreements. Ultimately, if eliminating the interstate payments resulted in increased costs for Minnesota students and their families, then aligning the policies under a common framework may run counter to the program's purpose.

# **Outcomes**

The significant participation by Minnesota residents, and residents of participating states, indicates that Minnesota's reciprocity agreements successfully expanded affordable postsecondary options for students and their families. This section explores the postsecondary outcomes of reciprocity students, because both students and the participating states want to ensure that participating students earn a credential of economic value. Specifically, it explores the credentials earned by out-of-state reciprocity students that enrolled at Minnesota institutions, including the number of credentials awarded by sector, type, and trends over time.<sup>25</sup> Additionally, the section closes by examining whether or not Minnesota residents, and out-of-state residents enrolling in Minnesota, find jobs and participate in Minnesota's workforce following graduation.

During the 2017-2018 academic year, out-of-state residents enrolled in Minnesota institutions through reciprocity earned 3,488 postsecondary credentials, as shown in Figure 10. Undergraduate degrees represented 88% of all the degrees awarded, with out-of-state students primarily pursuing bachelor's degrees (62%). Graduate degrees composed the remaining 12% of credentials awarded. Of the 3,488 credentials conferred, Minnesota State accounted for 57% (State Colleges – 25%, State Universities – 32%), while the University of Minnesota conferred 42%.



<sup>25</sup> Credential data by participating Minnesota institutions for 2016-17 are in Appendix D.

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Figures 10 and 11 show that the number of reciprocity graduates slightly decreased in 2017-2018 at both the University of Minnesota and at Minnesota State institutions corresponding to declines in reciprocity participation (Figure 3). Enrollments typically increase during periods of economic distress (e.g., the great recession) and decline as the economy recovers and displaced workers begin re-entering the labor market.





Source: Minnesota State Colleges and Universities

The number of bachelor's degrees awarded to non-resident reciprocity participants at the University of Minnesota have declined from 1,666 in 2007-2008 to 1,174 in 2017-2018. Within Minnesota State, the bachelor's degree and associate's degree trend lines follow similar trajectories, with the number of bachelor's degrees awarded declining from 1,209 in 2007-2008 to 973 in 2017-2018, and the number of associate's degree decreasing from 759 to 528 over the same period. Again, these trends likely primarily result from the overall participation declines of out-of-state residents in the reciprocity program.



Figure 10: University of Minnesota Tuition Reciprocity Graduates, 2007-08 to 2017-18

Source: University of Minnesota

A key question asked by policymakers is: Do Minnesota students participating in reciprocity return to Minnesota to work following graduation? Previous research shows that more than 60% of Minnesota reciprocity participants that graduated from a participating institution in Wisconsin, North Dakota, or South Dakota returned to Minnesota's workforce within three years of graduation.<sup>26</sup> Specifically, 66% of Minnesota students graduating from a Wisconsin had wages in Minnesota within three years of graduation. Likewise, 62% of Minnesota students graduating from a North Dakota institution reemerged in Minnesota's workforce during the same period. While 50% of the Minnesota students graduating from South Dakota institutions had wages in Minnesota within three years of graduations had wages in Minnesota within three years of graduations had wages in Minnesota students graduating from South Dakota institutions had wages in Minnesota within three years of graduations had wages in Minnesota students graduating from South Dakota institutions had wages in Minnesota within three years of graduating. Additionally, Minnesota retained almost 40% of reciprocity graduates that attended a participating Minnesota institution from Wisconsin, North Dakota, and South Dakota.

Comparatively, data from Minnesota's Statewide Longitudinal Education Data System (SLEDS) shows that 75% of graduates from Minnesota institutions, including Minnesota residents and non-residents that enrolled at both private and public institutions had wages in Minnesota two years following graduation.<sup>27</sup> Although the measures differ in terms of:

- the populations examined (Minnesota residents enrolled out-of-state vs. Minnesota residents and non-residents enrolled in Minnesota),
- institutions included (public vs. all),
- and timing (two years following graduation compared to three),

<sup>&</sup>lt;sup>26</sup> Office of the Legislative Auditor (2003, September). *Evaluation Report: Higher Education Tuition Reciprocity*. St. Paul, MN, Retrieved from <u>https://www.auditor.leg.state.mn.us/ped/pedrep/0308all.pdf</u>

<sup>&</sup>lt;sup>27</sup> Based on the 2013 graduation cohort, retrieved from <u>http://www.sleds.mn.gov/#employment/orgId--999999000</u> groupType--<u>state\_employmentCOHORTID--2013\_employmentAward--All+Awards\_p--7</u>

the comparison indicates that Minnesota students participating in reciprocity return to Minnesota at reasonably high rates.

Additionally, a recent report from North Dakota showed that only 22% of out-of-state students that graduated from the North Dakota University System had wages in North Dakota three years following graduation.<sup>28</sup> The number staying in North Dakota declined each subsequent year following graduation. While the population examined in the report was broader than out-of-state reciprocity participants, Minnesota reciprocity students would have been included, providing an additional point of comparison.

<sup>&</sup>lt;sup>28</sup> North Dakota Statewide Longitudinal Data System (2017, January 5). NDUS Graduate Retainment and Waiver Report. Retrieved from <a href="https://slds.ndcloud.gov/public/SiteAssets/NDUS%20Graduate%20Retainment%20and%20Waiver%20Report.pdf">https://slds.ndcloud.gov/public/SiteAssets/NDUS%20Graduate%20Retainment%20and%20Waiver%20Report.pdf</a>

# **Appendix A: State Resident Populations**



#### Figure 11: State Resident Population Estimates, 2017

Source: U.S. Census Bureau, Population Division Annual Estimates of the Resident Population: 5-Year Estimates 2013 - 2017

# **Appendix B: Reciprocity Fall Headcounts**

	Minnesota & Wisconsin		Minnesota & North Dakota		Minnesota & South Dakota	
	MN Residents Attending in WI	WI Residents Attending in MN	MN Residents Attending in ND	ND Residents Attending in MN	MN Residents Attending in SD	SD Residents Attending in MN
2010	14,431	10,181	10,325	5,386	2,632	1,425
2011	14,590	9,848	10,790	5,295	2,823	1,315
2012	14,523	9,282	11,447	5,067	3,013	1,318
2013	14,186	8,794	11,234	4,769	3,180	1,273
2014	14,104	8,473	11,014	4,468	3,316	1,198
2015	13,837	8,300	11,047	4,132	3,386	1,178
2016	13,689	8,285	10,844	4,118	3,461	1,172
2017	13,504	8,296	10,917	4,024	3,439	1,181

#### Table 7: Fall Headcounts, 2010-2017

Source: Minnesota Office of Higher Education

#### Table 8: Minnesota-Wisconsin Reciprocity Participation, Fall 2017

#### **Minnesota Residents Enrolled in Wisconsin Institutions**

Institution	Undergraduate	Graduate	Total
U of WI-Madison	2,723	153	2,876
U of WI-Milwaukee	291	48	339
U of WI-Green Bay	72	6	78
UW College System	8	-	8
U of WI-Stout	2,131	52	2,183
U of WI-Eau Claire	2,593	31	2,624
U of WI-LaCrosse	1,268	85	1,353
U of WI-Oshkosh	46	5	51
U of WI-Platteville	121	-	121
U of WI-River Falls	2,624	87	2,711
U of WI-Stevens Point	287	11	298
U of WI-Superior	756	37	793
U of WI-Whitewater	57	2	59
U of WI-Parkside	10	-	10
Total	12,987	517	13,504

Institution	Undergraduate	Graduate	Total
Anoka-Ramsey Community College	-	-	-
Bemidji State University	41	-	41
Central Lakes College	-	-	-
Century College	43	-	43
Fond du Lac Tribal & Cmty College	-	-	-
Hibbing Community College	8	-	8
Inver Hills Community College	1	-	1
Itasca Community College	20	-	20
Lake Superior College	263	-	263
Mesabi Range Cmty & Tech College	9	-	9
Metro State Univ ersity	44	4	48
Minneapolis Cmty & Tech College	67	-	67
MN State Cmty & Tech College	15	-	15
MN State Univ Moorhead	73	11	84
MN State Univ, Mankato	692	11	703
MN West Cmty & Tech College	15	-	15
Normandale Community College	3	-	3
North Hennepin Community College	-	-	-
Northland Cmty & Tech College	8	-	8
Rainy River Community College	7	-	7
Ridgewater College	7	-	7
Riverland Community College	12	-	12
Rochester Cmty & Tech College	3	-	3
Southwest MN State Univ	12	-	12
St Cloud State Univ	417	32	449
Univ of MN-Crookston	62	-	62
University of MN-Duluth	793	67	860
University of MN-Morris	32	-	32
University of MN-TC	3,452	384	3,836
Vermilion Community College	32	-	32
Winona State University	1,583	63	1,646
Total	7,714	572	8,286

## Wisconsin Residents Enrolled in Minnesota Institutions

## Table 9: Minnesota-North Dakota Reciprocity Participation, Fall 2017

Institution	Undergraduate	Graduate	Professional	Total
Bismarck State College	31	-	-	31
Dickinson State University	6	-	-	6
Mayville State University	114	-	-	114
Minot State University	20	-	-	20
NDSCS-Wahpeton	515	-	-	515
Dakota College at Bottineau	13	-	-	13
NDSU-Fargo	5,774	194	3	5,971
UND-Grand Forks	3,724	368	-	4,092
Lake Region State College	41	-	-	41
UND-Williston	1	-	-	1
Valley City State University	113	-	-	113
Total	10,352	562	3	10,917

### Minnesota Residents Enrolled in North Dakota Institutions

### North Dakota Residents Enrolled in Minnesota Institutions

Institution	Undergraduate	Graduate	Professional	Total
Anoka-Ramsey Cmty College	-	-	-	-
Riverland Community College	1	-	-	1
Bemidji State University	32	4	-	36
Central Lakes College	-	-	-	-
Vermilion Community College	-	-	-	-
Hibbing Community College	-	-	-	-
Itasca Community College	4	-	-	4
MN State University, Mankato	33	7	-	40
Minneapolis Cmty & Tech College	-	-	-	-
MN State University Moorhead	1,168	143	-	1,311
North Hennepin Cmty College	-	-	-	-
Rochester Cmty & Tech College	-	-	-	-
Southwest MN State University	4	-	-	4
St Cloud State University	47	3	-	50
Northland Cmty & Tech College	955	-	-	955
University of MN-Duluth	67	7	-	74
University of MN-Morris	9	-	-	9
MN State College-SE Technical	4	-	-	4
Winona State University	11	2	-	13
University of MN-Twin Cities	290	38	11	339
Mesabi Range Cmty & Tech College	-	-	-	-
University of MN-Crookston	106	-	-	106

Institution	Undergraduate	Graduate	Professional	Total
Ridgewater College	10	-	-	10
MN West Cmty & Tech College	2	-	-	2
St Paul College	4	-	-	4
St Cloud Technical College	11	-	-	11
Pine Technical College	2	-	-	2
South Central Technical College	1	-	-	1
MN State Cmty & Tech College	1,028	-	-	1,028
Alexandria Technical College	-	-	-	-
Lake Superior College	2	-	-	2
NW Technical College-Bemidji	2	-	-	2
Rainy River Community College	-	-	-	-
Inver Hills Community College	-	-	-	-
Anoka Technical College	-	-	-	-
Normandale Community College	3	-	-	3
Metro State University	7	-	-	7
Dakota County Technical College	3	-	-	3
Hennepin Technical College	3	-	-	3
Century College	-	-	-	-
Fond du Lac Tribal & Cmty College	-	-	-	-
Total	3,809	204	11	4,024

### Table 10: Minnesota-South Dakota Reciprocity Participation, Fall 2017

#### Minnesota Residents Enrolled in South Dakota Institutions

Institution	Undergraduate	Graduate	Total
Black Hills State University	29	-	29
Dakota State University	155	3	158
Northern State University	142	-	142
SDSM&T	306	12	318
SDSU-Brookings	2,217	90	2,307
USD-Vermillion	404	81	485
Total	3,253	186	3,439

Institution	Undergraduate	Graduate	Total
Anoka-Ramsey Cmty College	1	-	1
Riverland Community College	4	-	4
Bemidji State University	9	-	9
Central Lakes College	-	-	-
Vermilion Community College	2	-	2
Hibbing Community College	-	-	-
Itasca Community College	-	-	-
MN State University, Mankato	253	11	264
Minneapolis Cmty & Tech College	-	-	-
MN State University Moorhead	116	8	124
North Hennepin Cmty College	-	-	-
Rochester Cmty & Tech College	-	-	-
Southwest MN State University	111	43	154
St Cloud State University	72	10	82
Northland Cmty & Tech College	1	-	1
University of MN-Duluth	15	7	22
University of MN-Morris	32	-	32
Winona State University	31	-	31
University of MN-Twin Cities	332	54	386
Mesabi Range Cmty & Tech College	-	-	-
University of MN-Crookston	11	-	11
Ridgewater College	5	-	5
MN West Cmty & Tech College	35	-	35
St Paul College	-	-	-
South Central College	6	-	6
MN State Cmty & Tech College	5	-	5
Lake Superior College	-	-	-
Rainy River Community College	-	-	-
Inver Hills Community College	-	-	-
Normandale Community College	2	-	2
Metro State University	4	1	
Century College	-	-	
Fond du Lac Tribal & Cmty College	-	-	-
Total	1,047	134	1,181

### South Dakota Residents Enrolled in Minnesota Institutions

# **Appendix C: Interstate Payments**

#### Table 11: Preliminary Wisconsin Interstate Payment, 2017-2018 Academic Year

Institution	Number of Credits	Marginal Instructional Cost	Student Paid Tuition	Net State Obligation
U.W. Madison - Undergraduate	76,265	\$24,831,884	\$34,539,457	-\$9,707,573
U.W. Milwaukee Undergraduate	7,905	\$1,817,597	\$3,274,760	-\$1,457,164
U.W. Madison - Graduate	4,132	\$3,756,236	\$3,176,488	\$579,747
U.W. Milwaukee Graduate	846	\$614,737	\$633,531	-\$18,794
U.W. College System	181	\$36,928	\$33,249	\$3,679
U.W. Comprehensive 4-year - Undergraduate	275,376	\$57,589,278	\$67,781,760	-\$10,192,482
U.W. Comprehensive 4-year - Graduate	7,818	\$3,176,219	\$3,372,648	-\$196,429
Total	372,523	\$91,822,879	\$112,811,893	-\$20,989,015

## Minnesota's Obligation to Wisconsin

## Wisconsin's Obligation to Minnesota

Institution	Number of Credits	Marginal Instructional Cost	Student Paid Tuition	Net State Obligation
U of M Twin Cities & Morris	102,822	\$33,478,876	\$43,135,171	-\$9,656,295
U of M Duluth - Undergrad	23,822	\$5,477,392	\$5,298,116	\$179,276
U of M Twin Cities - Graduate	10,455	\$9,504,495	\$8,708,866	\$795,629
U of M Duluth - Graduate	1,841	\$1,337,672	\$5,482,636	-\$4,144,964
MinnState Colleges	12,024	\$2,453,136	\$2,018,719	\$434,418
MinnState Universities & U of M Crookston - Undergrad	84,901	\$17,755,242	\$20,848,459	-\$3,093,218
MinnState Universities - Graduate	1,876	\$762,163	\$784,589	-\$22,426
Total	237,741	\$70,768,975	\$86,276,555	-\$15,507,580

\$5,481,434

Source: Minnesota Office of Higher Education

Year	Obligation to North Dakota	Obligation to Wisconsin	Minnesota's Total Obligation
1989-90	\$ -	\$5.70	\$5.70
1990-91	\$ -	\$6.60	\$6.60
1991-92	\$0.35	\$ 3.30	\$3.65
1992-93	\$0.37	\$2.50	\$2.87
1993-94	\$0.60	\$2.00	\$2.60
1994-95	\$1.00	\$1.70	\$2.70
1995-96	\$2.70	\$1.70	\$4.40
1996-97	\$2.90	\$ (1.30)	\$1.60
1997-98	\$4.20	\$ (2.10)	\$2.10
1998-99	\$2.60	\$2.60	\$5.20
1999-00	\$2.20	\$2.50	\$4.70
2000-01	\$1.40	\$2.40	\$3.80
2001-02	\$ 0.43	\$(0.30)	\$0.13
2002-03	\$ -	\$(3.10)	\$(3.10)
2003-04	\$ -	\$(6.10)	\$(6.10)
2004-05	\$ -	\$(6.51)	\$(6.51)
2005-06	\$1.54	\$(7.77)	\$(6.23)
2006-07	\$0.28	\$(10.00)	\$(9.72)
2007-08	\$3.10	\$(10.50)	\$(7.40)
2008-09	\$3.10	\$(9.23)	\$(6.13)
2009-10	\$4.03	\$(9.10)	\$(5.07)
2010-11	\$4.20	\$(6.77)	\$(2.57)
2011-12	7.20	\$(6.13)	\$1.07
2012-13	\$5.80	\$ (6.80)	\$ (1.00)
2013-14	\$7.49	\$ (6.46)	\$1.03
2014-15	\$6.94	\$ (5.10)	\$1.84
2015-16	\$11.57	\$ (8.40)	\$3.17
2016-17	\$11.85	\$ (6.30)	\$5.55
2017-18	\$9.50	\$ (5.48)	\$4.02

#### Table 12: Minnesota's General Fund Obligation, 1989-90 to 2017-18

Notes: The Office of Higher Education renegotiated its agreement with ND in 2017. In terms of the interstate payment, the revised agreement limits Minnesota's interstate payment obligation to the lesser of the marginal expenditure calculation for each fiscal year or the annual amount appropriated by the state legislature for the current biennium. If Minnesota lowers its annual appropriation amount, North Dakota can increase the surcharge charged to Minnesota residents without Minnesota's approval.

# **Appendix D: Graduates by Institution**

Table 13: University of Minnesota Reciprocity Graduates, 2017-2018								
	Certificate – Pre-Bachelor	Bachelor's	Certificate – Post-Bachelor	Master's	Doctoral	First Professional	Total	
Crookston	1	37					38	
Duluth	1	162		31	2		196	
Morris		19					19	
Rochester		7					7	
Twin Cities	25	949	14	163	31	44	1,226	
Total	27	1,174	14	194	33	44	1,486	

## Table 13: University of Minnesota Reciprocity Graduates, 2017-2018

Source: University of Minnesota

# Table 14: State Reciprocity Graduates, Final Fiscal Year 2017 Graduates Who Attended as Tuition Reciprocity Students

#### **Minnesota State Colleges**

Institution	Certificate	Diploma	Associate	Bachelor's	Graduate Certificate	Master's	Post Master's	Doctorate	Total
Alexandria Technical and Community College									
Anoka Colleges									
Anoka Technical College									
Anoka-Ramsey Community College									
Central Lakes College									
Century College	1	1	7						9
Dakota County Technical College	3								3
Fond du Lac Tribal and Community College									
Hennepin Technical College									
Hibbing Community College		1	2						3
Inver Hills Community College			2						2
Itasca Community College	1	1	3						5
Lake Superior College	16	18	51						85
Mesabi Range Community and Technical College									
Minneapolis Community and Technical College	1								1
Minnesota State College - Southeast Technical	25	27	43						95
Minnesota State Community and Technical College	7	62	214						283

Institution	Certificate	Diploma	Associate	Bachelor's	Graduate Certificate	Master's	Post Master's	Doctorate	Total
Minnesota West Community and Technical College	13	6	15						34
Normandale Community College									
North Hennepin Community College									
Northeast Higher Education District									
Northland Community and Technical College	42	76	203						321
Northwest Technical College - Bemidji			1						1
Pine Technical College		16	8						24
Rainy River Community College									
Ridgewater College	2	2	6						10
Riverland Community College			1						1
Rochester Community and Technical College			3						3
Saint Paul College									
South Central College									
St. Cloud Technical and Community College		1	11						12
Vermilion Community College	2		16						18
Subtotal Minnesota Colleges	113	211	588						912

## **Minnesota Universities**

Institution	Certificate	Diploma	Associate	Bachelor's	Graduate Certificate	Master's	Post Master's	Doctorate	Total
Bemidji State University				17		1			18
Metropolitan State University	1			12		4			17
Minnesota State University, Mankato	1		2	193	2	16			214
Minnesota State University Moorhead			1	337		75	1		414
St. Cloud State University			1	75		18			94
Southwest Minnesota State University				26		11			37
Winona State University			15	337	2	11		1	366
Subtotal Universities	2		19	997	4	136	1	1	1,160
SYSTEM TOTAL	115	211	607	997	4	136	1	1	2,072

## Table 15: State Reciprocity Graduates, Preliminary Fiscal Year 2018

#### **Minnesota State Colleges**

Institution	Certificate	Diploma	Associate	Bachelor's	Graduate Certificate	Master's	Post Master's	Doctorate	Total
Alexandria Technical and Community College	1		4						5
Anoka Colleges									
Anoka-Ramsey Community College									
Anoka Technical College									
Central Lakes College									
Century College			7						7
Dakota County Technical College									
Fond du Lac Tribal and Comm. College									
Hennepin Technical College			2						2
Inver Hills Community College									
Lake Superior College	30	12	45						87
Minneapolis Community and Technical College	4	1	6						11
Minnesota State College Southeast- Technical	24	25	36						87
Minnesota State Community and Technical College	9	77	181						267
Minnesota West Community and Technical College	14	8	15						37
Normandale Community College			1						1
North Hennepin Community College									
Northeast Higher Education District									
Hibbing Community College			2						2
Itasca Community College			6						6
Mesabi Range Community and Technical College									
Rainy River Community College			1						1
Vermilion Community College	4		9						13
Northland Community and Technical College	54	91	178						373
Northwest Technical College - Bemidji									
Pine Technical College	8	3	9						20
Ridgewater College	1	3	9						13
Riverland Community College			1						1
Rochester Community and Technical College									
St. Cloud Technical and Comm. College			1						1
Saint Paul College									
South Central College	1								1
Subtotal Minnesota State Colleges	150	220	513						883

#### Minnesota State Universities

Institution	Certificate	Diploma	Associate	Bachelor's	Graduate Certificate	Master's	Post Master's	Doctorate	Total
Bemidji State University				28		3			31
Metropolitan State University				14		1			15
Minnesota State University, Mankato			4	181	3	15			203
Minnesota State University Moorhead	4		1	295	1	70	4		375
St. Cloud State University			1	96	1	16			114
Southwest Minnesota State University				34		2			36
Winona State University			9	325	2	16			352
Subtotal Minnesota State Universities	4		15	973	7	123	4		1,126
SYSTEM TOTAL	154	220	528	973	7	123	4		2,009

