Utilizing SLEDS data at your Institution

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November 3, 2016
Presentation Overview

• Demo of SLEDS Postsecondary Data Marts
  • How to access the DataMart
  • Basics around data security and data privacy
  • Understanding DataMart data elements
• Building basic reports
• Q&A
Postsecondary Data Marts

Student-level data for colleges

Data:

• De-identified student level records
  • OHE is working with the SLEDS Governance Committee to make identifiable data available this fall
• SLEDS ID matches across files
• Population limited (e.g. current or former students)

Format:

• CSV or Excel
• Files refresh automatically in June & December
• Fields open to revision based on feedback
Uses & Responsibilities

Allowable Uses
• Evaluate educational programs;
• Evaluate student achievement and preparedness;
• Evaluate postsecondary success;
• Evaluate employment outcomes; and
• Other uses as approved by the SLEDS Executive Committee.
• SLEDS data may not be used for other purposes.

Responsibilities
• Sign data sharing agreement;
• Abide by provisions of FERPA and MGDPA;
• Store data in a secure manner; Limit data access to approved uses;
• Do not redisclose data
• Suppress small cells, institution names
• Destroy data when no longer needed.
Postsecondary Data Marts

http://w20.education.state.mn.us/MDEAnalytics/Sleds.jsp

Secure Reports

The Statewide Longitudinal Education Data System (SLEDS) Secure Reports site contains student level de-identified data from K-12, postsecondary education. Data are linked at the individual student level from K-12 to postsecondary but no identifying information is included. SLEDS was developed to match student data from pre-kindergarten through completion of postsecondary education and into the workforce. By bridging existing data with other incoming data a range of education, programmatic, and delivery questions can be answered to gauge the effectiveness of current programs and design targeted improvement strategies to help students.

K-12 Secure Reports

This data is provided to LEAs around the state to answer questions specific to their student populations so that data can be used to drive decision-making and program improvement. These reports can be customized and opened directly in Excel. The starting cohort includes public high school graduates and drop outs (starting in 6th grade). The columns are labeled with definitions for each variable but users can refer to the attachment of data element descriptions or the SLEDS Data Dictionary located on the SLEDS analytics website for further information.

For LEAs who would like to gain access to the K-12 Secure Report for their district and schools, please see the data sharing agreement document. Once filled out and signed, it should be scanned and e-mailed to Kara Arzamendia at kara.arzamendia@state.mn.us.

Postsecondary Secure Reports

This data is provided to postsecondary institutions around the state to answer questions specific to their student populations. The data can be used to drive decision-making and program improvement. These reports can be customized and are available as text files. The starting cohort includes students enrolled in a postsecondary institution starting in 2003 or completing a certificate or degree starting in 2007 and continues to the present enrollment class. The columns are labeled with definitions for each variable but users can refer to the attachment of data element descriptions or the SLEDS Data Dictionary located on the SLEDS analytics website for further information.

For institutions who would like to gain access to the Postsecondary Secure Report for their institution, please see the data sharing agreement document. Once filled out and signed, it should be scanned and e-mailed to Meredith Ferguson at meredith.fergus@state.mn.us.

SLEDS Secure Reports
- K-12 Research Data Mart
- Postsecondary Research Data Mart
PS Data Mart selections include:

- SYSTEM (e.g. MnScU, etc)
- COLLEGE (e.g. Augsburg, Bemidji State, etc)
- FISCAL YEAR (2007-2014)
- STATUS (Enrollees, Completers)

Enrolled Students: One record per Enrolled Student per Fiscal Year Selected per College as reported to OHE

Completers: One record per Award perCompleter per Fiscal Year Selected per College as reported to OHE
Content

Row: 1 student
Columns: data

• PostSecondary default columns
• K-12 Demographics
• K-12 Enrollment/Programs
• K-12 Accountability Tests
• ACT
• Advanced Placement
• GED/Adult Basic Ed
• PS First Transfer (OHE/NSC)
• PS Completion – 1\textsuperscript{st}/2\textsuperscript{nd}/3\textsuperscript{rd}/4\textsuperscript{th} (OHE/NSC)
• WDQI/Employment
PS Data Mart Access Roles

OHE DSA Clause 2 Representative (C2R)

- Individual authorized to grant OHE permission to release information identifying the institution or system
- Also responsible for signing the SLEDS DSA.

Level 3 User

- Individual appointed by the institution or system to be able to access SLEDS data on students from their institution
- Not responsible for granting release of information.

More info at https://www.ohe.state.mn.us/mPg.cfm?pageID=1935
Reports Using K12 Variables

K-12 Profiles

• PS datamart allows you to mine K-12 attributes for a better understanding of incoming Minnesota High School Graduates

Data you may not have had access to before includes:

• Homelessness and migrant worker status
• K-12 academic assessments
• Language measures: English Language Learner status, Home Primary Language
• Dual credit participation
New data options

Homelessness

- Indicates if the student was determined to meet the federal definition of homeless at some time during a K12 school year.

Migrant

- An indicator of whether the student has had a qualifying move within an eligible time period for temporary or seasonal agricultural or fishing work.

% of MN High School Graduates Enrolled at Institution Z

- "Y" - 0.98% of students
- "Y" - 0.03% of students

0% 20% 40% 60% 80% 100%

Homeless Migrant
Limited English Proficient

- Indicates whether this student has been assessed as needing additional English language instruction.

Home Primary Language

- The language the student first learned to speak, the language spoken most of the time, or the language usually spoken at home.

% of MN High School Graduates Enrolled at Institution Z

- 9.8% of students were identified as LEP
- 19.6% of students spoke a language other than English at home
K12 Academics

- Data includes State Academic Assessments in Math, Reading and Science

% of MN High School Graduates Enrolled at Institution Z

<table>
<thead>
<tr>
<th>Subject</th>
<th>Proficient</th>
<th>Not Proficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math</td>
<td>58%</td>
<td>42%</td>
</tr>
<tr>
<td>Reading</td>
<td>23%</td>
<td>77%</td>
</tr>
<tr>
<td>Science</td>
<td>48%</td>
<td>52%</td>
</tr>
</tbody>
</table>

- Course-level data in process
• 50% of all high school graduates statewide have participated in a dual credit opportunity
• Differences exist by high school, geographic location, income, race/ethnicity and student academic performance
• AP is the top choice, followed closely by concurrent enrollment
Basic Employment Reports

Employment Profiles and Wages by Program Area

• PS datamart allows you to aggregate up to graduating class OR to program level (2 or 4-digit CIP Codes)
  • Percent working FT YR 24, 36, and 48 months out
  • Annual wages for those working FT YR 24, 36, and 48 months out

• GEO tool allows for expanded profile
  • Median hourly wages 12, 24, 48, and 60 months out
  • Aggregated industry and region of employment (classes of 2010 through 2013)
Employment Profile

Class of 2010 from ABC University (Bachelor’s Degrees)

Employed Full-time Year-round in MN 4 Years After Graduation

- 51%

Median Annual Wage

- $41,205

Full-time Year-round Employment and Annual Earnings Over Time

- Year 2
- Year 3
- Year 4

% Employed FT YR in MN

FT YR Median Wage

Median Annual Wage

- $41,205

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% Employed FT YR in MN

FT YR Median Wage

Median Annual Wage

- $41,205
Employment Profile

Class of 2010 from ABC University
(Bachelor’s Degrees)

Employment Status Second Year After Graduation

- Outcome Unknown: 22%
- Continuing Ed in MN: 2%
- Wages in MN: 76%

Median Hourly Wage Over Time

- 12 Mo. (1 Yr): $0.00
- 24 Mo. (2 Yrs): $5.00
- 48 Mo. (4 Yrs): $10.00
- 60 Mo. (5 Yrs): $15.00
Employment Profile

Classes of 2010 to 2013 from ABC University
(Bachelor’s Degrees)

Top Industries of Employment 24 Months After Graduation

- Healthcare
- Primary and Secondary Ed
- Public Administration
- Retail Trade
- Manufacturing
- Finance and Insurance
- Professional and Technical Services
Employment Profile

Classes of 2010 to 2013 from ABC University
(Bachelor’s Degrees)

MN Regions of Employment 24 Months After Graduation

- Northwest: 38%
- Twin Cities: 33%
- Northeast: 15%
- Central: 10%
- Southeast: 5%
- Southwest: 3%
- Unspecified: 1%
Wages by Program Area

Class of 2010 from ABC University
(Bachelor’s Degrees)

Median Full-time Year-round Annual Earnings – 4 Years After Graduation: $41,205
Wages by Program Area

Engineering Graduates
Class of 2010 from ABC University
(Bachelor’s Degrees)

Full-time Year-round Annual Earnings 4 Years After Graduation

Computer Engineering
Electrical Engineering
Biomedical Engineering
Chemical Engineering
Mechanical Engineering
Aeronautical Engineering
Civil Engineering

Median Full-time Year-round Annual Earnings – 4 Years After Graduation
$68,740
Wages by Program Area

Engineering Graduates
Classes of 2010 to 2013 from ABC University
(Bachelor’s Degrees)

Median Hourly Wage 24 Months After Graduation, by Industry

- Manufacturing: $30.97
- Professional and Technical Services
- Management of Companies: $30.97
- Higher Education
- Wholesale Trade: $30.97
- Temp Help
- Construction

Median Hourly Wage – 24 Months After Graduation: $30.97
Wages by Program Area

Engineering Graduates
Classes of 2010 to 2013 from ABC University
(Bachelor’s Degrees)

Median Hourly Wage 24 Months After Graduation, by MN Region

- Twin Cities: $30.97
- Southeast: $31.00
- Central: $30.90
- Northeast: $29.90
- Southwest: $28.90
- Northwest: $27.90

Median Hourly Wage – 24 Months After Graduation
$30.97
Meredith Fergus
Manager Financial Aid Research / SLEDS
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Scott Godfrey
Performance Measures Analyst
651-259-7193, scott.godfrey@state.mn.us
SLEDS Mobile Analytics  

- Website includes background info on project
- New for 2016 = Reports by Institution
  (Demographics, Enrollment, Completions)

Graduate Employment Outcomes (GEO)

- Employment outcomes of Minnesota college graduates 1-4 years after graduation by college type, program and major
- Includes graduates from 2007-2013
- !!! Institution Level Data !!!
What data is included?
SLEDS links data from K-12 to Higher Ed to Workforce.

Minnesota Department of Education (MDE)
- K-12 Enrollment
- K-12 Assessment
- ACT
- Adult Basic Education
- Early Childhood Enrollment
- Career and Technical Education

Minnesota Department of Employment and Economic Development (DEED)
- Unemployment Insurance Wage Detail Records
- Employer Detail (including NAICS info)
- Workforce Training Participant Data

Minnesota Office of Higher Education (OHE)
- Post-Secondary Enrollment
- Post-Secondary Completions
- Institutional Characteristics

Other
- GED Results
- Out of State Higher Education Enrollments and Completions (National Student Clearinghouse)
- Advanced Placement Results
- International Baccalaureate (IB)
- SAT / PSAT

Data is loaded twice a year: June & November
More info about Employment & Wage Data
### Wage Outcome Timing

| Graduation | Q1 | Q2 | Q3 | Q4 | Q5 | Q6 | Q7 | Q8 | Q9 | Q10 | Q11 | Q12 | Q13 | Q14 | Q15 | Q16 | Q17 | Q18 | Q19 | Q20 |
|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Months 1-3 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 4-6 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 7-9 |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Year 0     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 10-12 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 13-15 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 16-18 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 19-21 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 22-24 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Year 1     |     |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 25-27 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 28-30 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 31-33 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 34-36 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 37-39 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 40-42 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 43-45 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 46-48 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 49-51 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 52-54 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 55-57 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| Months 58-60 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |

Year 2:
- aWageYr2
- awageFtYr2

Year 3:
- aWageYr3

Year 4:
- aWageYr4
Wage Data Basics

Pulled from Minnesota unemployment insurance data (97% of MN employment)

Workers and jobs excluded from Minnesota wage records include, but are not limited to:
- employees of the federal government, including the US military,
- those employed in another state or by another state,
- those employed by a school, college, or university whose primarily relation to the school or institution is as a student, or
- proprietors and the self-employed.

Wage records excluded from hourly and annual wage calculations:
- IF quarterly hours worked is less than 10 or equal to 999.
- IF quarterly hourly wages are less than $6.00.
Wage Data Exclusions

Wage records excluded from hourly and annual wage calculations:
- IF quarterly hours worked is less than 10 or equal to 999.
- IF quarterly hourly wages are less than $6.00.

Additional Exclusions
- Programs with less than 10 graduates with valid Social Security Numbers
- Cells with fewer than 10 individuals
- The following 2-digit CIP groups have been excluded: 32, 34, and 39.
  - CIPs 32 and 34 were excluded as invalid instructional program codes
  - CIP 39 was excluded due to the gaps in coverage of religious establishments in UI records.
Wage Data Caveats

Median Annual Wages

• IF a graduate is concurrently earning wages from more than one employer, only wages from the predominant job are included.
• "Predominant" is defined as the job with the highest wages per quarter.

Full-Time Employment

• Graduates must have worked during each quarter of the year for an annual total of at least 1,820 hours (an average of 35 hours per week for a full year)
Receive Postsecondary Data Mart Access Instructions from OHE

• Instructions will include a SLEDS DSA that your institution needs to sign and return to OHE
  • Who signs it? The Clause 2 Representative (C2R)
  • List of Clause 2 Reps is available from OHE
    • MINNESOTA STATE COLLEGES – Special form available from Meredith
• To update your C2R, complete the Update to Clause 2 Representation Amendment
• To add another user from your institution beyond C2R, complete the Access to SLEDS Level 3 Data and Secured Reports Amendment
• Follow steps as follows to request access
1. Create an MDE account here

http://education.state.mn.us/MDE/SchSup/DataSubLogin/index.html
Go to SLEDS Secure reports here

http://w20.education.state.mn.us/MDEAnalytics/Sleds.jsp
Choose “Postsecondary Research Data Mart”
Log in using your account created in step 1
“Does not have permitted role”
Error Message
Authorization Required

Select “Request Application Access”
### Choose Role

You are requesting authorization as:

- **User ID:** nisorens27
- **Full Name:** Nichole Sorenson
- **For Application:** SLEDSPS

<table>
<thead>
<tr>
<th>Role Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CollegeUser</strong></td>
<td>College-Level users</td>
</tr>
</tbody>
</table>

[Image of the Choose Role page from the SLEDS website]

[Back to top]

40
Select 1 Institution OR “I need access to more than one...”

<table>
<thead>
<tr>
<th>District</th>
<th>District</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academy College 0067-24</td>
<td>Adier Graduate School 0064-24</td>
</tr>
<tr>
<td>Alexandria Technical &amp; Community College 0205-04</td>
<td>American Academy of Acupuncture and Oriental Medicine 0106-24</td>
</tr>
<tr>
<td>American Indian Opportunities Industrialization Center 0053-24</td>
<td>American Institute of Nondestructive Testing 0151-24</td>
</tr>
<tr>
<td>American Nursing &amp; Technical Institute 0163-24</td>
<td>American Workshop 0139-24</td>
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<tr>
<td>Anoka Technical College 0011-04</td>
<td>Anoka-Ramsey Cambridge Comm. Col. 0019-21</td>
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<tr>
<td>Anoka-Ramsey Community College 0001-21</td>
<td>Apostolic Bible Institute 0025-24</td>
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<td>Aveda Institute Minneapolis 0102-24</td>
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<td>Bethany Lutheran College 0031-24</td>
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<tr>
<td>Bethel Seminary 0210-24</td>
<td>Bethel University 0002-24</td>
</tr>
<tr>
<td>Bethlehem College and Seminary 0214-24</td>
<td>Braintree-Minneapolis School of Advertising Design and Interactive Studies 0121-24</td>
</tr>
</tbody>
</table>
For multiple institutions, use check boxes.
Confirm and Submit Request
Authorization Request Submitted

Your request to access the SLEDSPS application has been submitted for review. Requests are reviewed in the order received. Please allow from 1 to 7 business days for approval. Do not submit more than one request.

View My Account  Return to Data Submissions
MDE sends OHE an email; OHE will approve access if we’ve received a signed SLEDS DSA.
Make sure your paperwork is in!

• Your system or institution needs a signed SLEDS DSA
• Some may also need to submit
  • Update to Clause 2 Representation Amendment
  and/or
  • Access to SLEDS Level 3 Data and Secured Reports Amendment

Access approved within 7 days.