

**2013 DRAFTING REQUEST**

**Bill**

Received: **10/15/2012** Received By: **pgrant**  
Wanted: **As time permits** Companion to LRB:  
For: **Administration-Budget** By/Representing: **Hoechst**  
May Contact: Drafter: **pgrant**  
Subject: **Education - state superintendent** Addl. Drafters:  
Extra Copies: **TKK**  
**FFK**

Submit via email: **YES**  
Requester's email:  
Carbon copy (CC) to:

---

**Pre Topic:**

DOA:.....Hoechst, BB0142 -

---

**Topic:**

WISEdash; DPI data warehouse and reporting system

---

**Instructions:**

See attached

---

**Drafting History:**

<u>Vers.</u>	<u>Drafted</u>	<u>Reviewed</u>	<u>Typed</u>	<u>Proofed</u>	<u>Submitted</u>	<u>Jacketed</u>	<u>Required</u>
/?	pgrant 10/16/2012	evinz 10/18/2012		_____			
/1			10/18/2012	_____	lparisi 10/18/2012		State

FE Sent For:

<END>

**2013 DRAFTING REQUEST**

**Bill**

Received: 10/15/2012 Received By: pgrant  
Wanted: As time permits Companion to LRB:  
For: Administration-Budget By/Representing: Hoechst  
May Contact: Drafter: pgrant  
Subject: Education - state superintendent Addl. Drafters:  
Extra Copies: TKK  
FFK

Submit via email: YES  
Requester's email:  
Carbon copy (CC) to:

**Pre Topic:**

DOA:.....Hoechst, BB0142 -

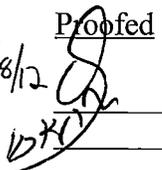
**Topic:**

WISEdash; DPI data warehouse and reporting system

**Instructions:**

See attached

**Drafting History:**

<u>Vers.</u>	<u>Drafted</u>	<u>Reviewed</u>	<u>Typed</u>	<u>Proofed</u>	<u>Submitted</u>	<u>Jacketed</u>	<u>Required</u>
/?	pgrant	1 eev 10/18/12	1 eev 10/18/12				

FE Sent For:

<END>

**Grant, Peter**

---

**From:** Hanaman, Cathlene  
**Sent:** Wednesday, October 10, 2012 5:03 PM  
**To:** Grant, Peter; Kuczenski, Tracy; Knepp, Fern  
**Subject:** FW: Statutory Language Drafting Request  
**Attachments:** DPI 13-15 LRB WISEdash (DIN 5001).pdf

**From:** [Jonathan.Hoechst@wisconsin.gov](mailto:Jonathan.Hoechst@wisconsin.gov) [mailto:[Jonathan.Hoechst@wisconsin.gov](mailto:Jonathan.Hoechst@wisconsin.gov)]  
**Sent:** Friday, October 05, 2012 11:36 AM  
**To:** Hanaman, Cathlene  
**Cc:** Thornton, Scott - DOA; Hynek, Sara - DOA; Hoechst, Jonathan S - DOA  
**Subject:** Statutory Language Drafting Request

**Biennial Budget:** 2013-15

**Topic:** WISEdash Appropriation

**Tracking Code:** BB0142

**SBO Team:** EWD

**SBO Analyst:** Hoechst, Jonathan - DOA  
**Phone:** (608) 266-7329  
**E-mail:** [Jonathan.Hoechst@wisconsin.gov](mailto:Jonathan.Hoechst@wisconsin.gov)

**Agency Acronym:** DPI

**Agency Number:** 255

**Priority:** Medium

**Intent:**

Create an annual GPR appropriation to maintain and develop the department's data warehouse systems.

**Attachments:** True

*Please send completed drafts to [statlanguage@wisapps.wi.gov](mailto:statlanguage@wisapps.wi.gov)*

115-28(12) ?

**DEPARTMENT OF PUBLIC INSTRUCTION  
2013-15 BIENNIAL BUDGET  
DRAFTING REQUEST TO THE LEGISLATIVE REFERENCE BUREAU**

Draft for Possible 2013-15 Budget Bill Introduction (*Agency Decision Item No. 5001*)

**Subject:** WISEdash

**Request Date:** September 17, 2012

**Agency Contact:** Mike Bormett, 266-2804

**Brief Description of Intent:**

The department is requesting that an annual GPR appropriation be created to maintain and develop the department's data warehouse and reporting systems to meet the needs of education decision makers at both the state and local level as well as federal and state reporting requirements.

**Related Stat. Citations:**

Create s. 20.255 (1) (ek), Wis. Stats., WISEdash.

**Decision Item (DIN) - 5001**

**Decision Item (DIN) Title - WISEdash**

**NARRATIVE**

The department requests \$4,434,300 GPR in both FY14 and FY15 to maintain and develop the department's data warehouse and reporting systems to meet the needs of education decision makers at both the state and local level as well as federal and state reporting requirements. The department requests that a new GPR appropriation be created for the purpose of maintaining and developing the longitudinal data system (LDS) and WISEdash as well as maintaining the other systems. The department requests \$3,570,000 PR-S in both FY14 and FY15 in the department's data processing appropriation to utilize contractors to maintain and develop the department's data warehouse system and reporting system. The requested GPR will be used to fund the contractors. The department also requests \$49,100 PR-S and 1.0 PR-S FTE, and -\$49,100 PR-F and -1.0 PR-F FTE in both FY14 and FY15 to convert an existing permanent federal position to program revenue.

*dpi had done a series of grants for LDS (for \$) tracking student growth over time - till grade to see trends in diff types of kids reporting & analysis*

*Don Smith  
7-2003*

**DPI 2013-15 BIENNIAL BUDGET REQUEST**

**DECISION ITEM 5001 – WISEDASH**

**108 – WISEdash**  
**s. 20.255 (1) (ek) - NEW**

**131 – Data Processing**  
**s. 20.255 (1) (ks)**

**141 – Federal aids; program operations**  
**s. 20.255 (1) (me)**

<b>FISCAL SUMMARY</b>		
	<b>2013-14 Request</b>	<b>2014-15 Request</b>
<b>Requested GPR Funding</b>	<b>\$4,434,300</b>	<b>\$4,434,300</b>
<b>Less Base</b>	<b>\$0</b>	<b>\$0</b>
<b>Requested Change</b>	<b>\$4,434,300</b>	<b>\$4,434,300</b>

<b>FISCAL SUMMARY</b>		
	<b>2013-14 Request</b>	<b>2014-15 Request</b>
<b>Requested PR-S Funding</b>	<b>\$8,305,400 1.0 FTE</b>	<b>\$8,305,400 1.0 FTE</b>
<b>Less Base</b>	<b>\$4,693,500</b>	<b>\$4,693,500</b>
<b>Requested Change</b>	<b>\$3,619,100 1.0 FTE</b>	<b>\$3,619,100 1.0 FTE</b>

<b>FISCAL SUMMARY</b>		
	<b>2013-14 Request</b>	<b>2014-15 Request</b>
<b>Requested PR-F Funding</b>	<b>\$43,684,000 -1.0 FTE</b>	<b>\$43,684,000 -1.0 FTE</b>
<b>Less Base</b>	<b>\$43,733,100</b>	<b>\$43,733,100</b>
<b>Requested Change</b>	<b>-\$49,100 -1.0 FTE</b>	<b>-\$49,100 -1.0 FTE</b>

**Request/Objective**

The department requests \$4,434,300 GPR in both FY14 and FY15 to maintain and develop the department's data warehouse and reporting systems to meet the needs of education decision makers at both the state and local level as well as federal and state reporting requirements.

The department requests that a new GPR appropriation be created for the purpose of maintaining and developing the longitudinal data system (LDS) and WISEdash as well as maintaining the other systems.

The department requests \$3,570,000 PR-S in both FY14 and FY15 in the department's data processing appropriation to utilize contractors to maintain and develop the department's data warehouse system and reporting system. The requested GPR will be used to fund the contractors.

The department also requests \$49,100 PR-S and 1.0 PR-S FTE, and -\$49,100 PR-F and -1.0 PR-F FTE in both FY14 and FY15 to convert an existing permanent federal position to program revenue.

### **Background/Analysis of Need**

#### *Longitudinal Data Systems*

An LDS is comprised of a comprehensive data warehouse storing pupil and school data from a variety of sources, reporting tools to access the data and for users to use for reporting and analysis, multiple security components to ensure that only authorized personnel view confidential data, and professional development.

The federal government recognizes the value of longitudinal data and encourages the analysis of pupil-level information, over time. The U.S. Department of Education (USDoE) Institute for Education Sciences (IES) sponsors the State Longitudinal Data System (LDS) Grant Program.

Funding from that program allowed for the initial development of the department's data warehouse via an initial \$3.1 million grant for 2005-2009 (LDS I). Development of additional applications and data capacities continues via a \$5.5 million grant, received in mid-2009 and ending in April 2013 (LDS II).

In December 2009 the department applied for and received a third federal grant for \$13 million (LDS III) to enable Wisconsin to advance and enrich its current work. This grant ends in June 2013.

All objectives identified to the federal government in the original grant applications will be accomplished by the end of the grant period. The grants will be closed out and completed at the end of the grant period, June 30, 2013.

Through the implementation of these three grants, the department has made significant progress in building and utilizing longitudinal data capabilities. The data warehouse integrates data from a variety of data sources into one warehouse including:

- Individual Student Enrollment System (ISES).
- Wisconsin Student Assessment System (WSAS).
- ACCESS for English Language Learners (alternate assessment to Wisconsin Knowledge and Concepts Exam).
- ACT and Advanced Placement data.
- P-20 National Student Clearinghouse data.

- Student Growth Percentile data.

Reports built off data in the LDS include:

- Pupil level and aggregated data tracked over time.
- Pupil growth percentile reports.
- Postsecondary enrollment reporting data.
- School District Performance Report, the public report on school district performance required under state statute.

The department has developed a myriad of tools to benefit school districts that are integrated into the LDS. These include:

- Multi-dimensional analytic tool, enabling secure analysis in change of scale scores over time.
- A secure access file exchange, enabling secure distribution of files and reports to school districts from the department.
- A secure home page allowing users access to multiple tools from a single home page and other agency applications including the new Online School Directory.
- An application security manager, enabling school districts to manage user access in their districts.
- Coursework data collection, including a pupil-teacher course link.
- The WISEdash reporting and dashboard solution.

The department remains committed to continuing the development of the LDS to meet the goals of the grants and the needs of Wisconsin educators, parents, and pupils. Items currently in development include:

- Online education licensure system.
- Interoperable data systems allowing the assigning of the Wisconsin Student Number at the post-secondary level and the completion of data studies linking K-12 and post-secondary performance.
- Early childhood analysis to plan for the integration of early childhood data into the data warehouse and reporting environment.

### WISEdash

The department's business intelligence tool, WISEdash, utilizes aggregate and detail data from a variety of sources to build dashboards and reporting for decision makers, department staff, school districts, and eventually the public. WISEdash includes the following components:

- An education data model structured to enable smart reporting on education data.
- A data warehouse to store and integrate data on a variety of subject areas, including data imported from the LDS data warehouse.
- Role-based data access and dashboards.
- Public and secured reporting through the same technology that can reach a wide variety of users with diverse data needs.
- Ad hoc reporting functionality (e.g. choose a district and demographic).

- Advanced reporting capabilities for a limited number of power users at the district and state level to create customizable reports including reports to meet federal, state and local requirements.
- Documentation, including professional development resources such as pre-made workbooks to guide understanding and use of dashboards and reports.

The department partnered with 21 school districts to pilot a secure release of WISEdash in June 2012. Initial data provided included:

- Enrollment and Attendance.
- Assessments (including WSAS, ACT and AP).
- Pupil Growth Percentiles.
- Pupil Profile (only available with a specific security role).
- Pupil Search (only available with a specific security role).

The department's ultimate goal is for WISEdash to be able to provide access to data on pupils as they transition from early childhood programs through K-12 schools, and on from K-12 to post-secondary institutions. Data and reporting available through WISEdash is critical to the long term success of major department and state-level initiatives, including:

- Statewide Student Information System.
- School accountability.
- Educator effectiveness.
- SMARTER Balanced Assessments and Dynamic Learning Maps.
- College and career readiness assessments.

#### Next Steps for WISEdash

All LDS and WISEdash work completed to date is almost solely based on funding from the three federally funded LDS grants. With the grants ending in June 2013, the department believes that it needs an alternate funding source to ensure maintenance and development of the tools to continue providing the value of data and analysis back to districts and schools. In addition, the department needs to be able to continue work on the various projects in the P-20 spectrum to build upon what has already been done and the relationships already built. The department believes that all of the work completed over the past seven years will be in vain unless alternative funding sources can be utilized in place of the grant funding.

The department has made considerable progress on building a data warehouse and tools to access the data. The department believes that a data warehouse and reporting solution is the foundation on which a robust system may be built. In addition to the information available for the pilot, the department currently has a list of more than 70 items to add to the data warehouse and/or the dashboard to enable even more robust research and analysis. These enhancements are related to major department and statewide initiatives and are critical to being able to provide aggregated reporting to policy decision makers. Examples of data and/or dashboards or reports that have been requested to be implemented within or integrated into WISEdash include:

- Statewide Student Information System (SSIS), including career and technical education (CTE) data and Gaining Early Awareness & Readiness for Undergraduate Programs (GEARUP) data. This includes both the increased volume of data and a more timely integration of that data, reducing the current delay of more than a year before data is available for informed decision making.
- Coursework Completion System (CWCS).

- SMARTER Balanced Assessment System (SBAC).
- Educator Licensing Online (ELO).
- Educator Effectiveness.
- Early Childhood.
- Postsecondary.

The department's current priorities for immediate development are listed below in order of importance:

1. Public reporting portal for WISEdash.
2. Integration of school report cards.
3. Early warning system dashboards.
4. Integration of value-added growth data.
5. Finalize integration of P-20 National Student Clearinghouse data.

It is important to note that the data connection between SSIS and WISEdash allows reporting and analysis not available directly in the SSIS. Importing the data into WISEdash allows for state and regional level analysis and also allows SSIS data to be connected to data from all of the other systems connected to WISEdash. Some analysis is available within the SSIS, however not to the robust level that is achieved by bringing that data into WISEdash.

Maintenance and Future Development of WISEdash

The LDS grants currently fund technical support and maintenance for WISEdash. These costs will continue after the expiration of the LDS grants in FY13. The table below shows the annual expenditures related to support and maintenance.

<b>Hardware, software, and maintenance costs</b>	<b>Estimated FY13 cost</b>	<b>Estimated Annual Cost</b>
Edvantage Maintenance	\$26,300	\$27,600
Edvantage Support	\$0	\$31,300
Oracle Maintenance and Licenses-Dev DW, Prod DW, ISES Prod	\$45,400	\$60,600
SQLServer Maintenance and Licenses	\$26,200	\$26,200
Hardware	\$300,000*	\$50,000
Visual Studio Licenses	\$3,600	\$3,600
Software Licenses	\$3,000	\$5,000
DOA Hosting Fees	\$4,900	\$5,000
Misc. Expenses	\$20,000	\$25,000
Training-Analysis Services		\$19,500
<b>Total Non-Staffing Costs</b>		<b>\$253,800</b>

\*Hardware purchase will be in FY13, annual costs will be for maintenance in FY14 and FY15

The department remains committed to maintaining existing functionality and continuing the development of the LDS and WISEdash to meet the goals of the grants and the needs of Wisconsin educators, parents, and pupils. In order to meet these needs, the department is requesting funding for 21 contractors. The projected staffing costs to maintain, fully develop, and implement new features, dashboards, reporting, and technical requirements are detailed in the table below.

<b>Position Description</b>	<b>Contractors</b>	<b>Annual Cost</b>
EDEN Developer	1.0	\$170,000
Application Developer, ETL Developer, Security Solution Lead	1.0	\$170,000
ETL Developer	2.0	\$340,000
Data Governance Lead	1.0	\$170,000
Technical Lead	1.0	\$170,000
Business Analyst	1.0	\$170,000
Dashboard Administrator, Dashboard Technical Lead, Dashboard Developer	1.0	\$170,000
SQL Server Expert/Administrator	1.0	\$170,000
Education Consultant	1.0	\$170,000
QA Analyst/Help Desk	1.0	\$170,000
SQL Server Database Administrator	1.0	\$170,000
EDEN Coordinator	1.0	\$170,000
Report Developer	1.0	\$170,000
VersiFit Subcontracting	4.0	\$680,000
Business Analyst	1.0	\$170,000
Research Analyst Advanced	2.0	\$340,000
<b>Staffing Total/Year:</b>	<b>21.0</b>	<b>\$3,570,000</b>

The department is also requesting that funding be provided for work completed by PR-S staff in the data processing appropriation that has been billed to the LDS grant in the past. While these employees are not dedicated 100 percent to LDS work, they have provided key efforts in the development of the LDS and WISEdash. In addition, the department has an existing 1.0 PR-F FTE funded in the LDS grant. The department is requesting that this be converted to a 1.0 PR-S FTE in the data processing appropriation, billing against the new GPR appropriation.

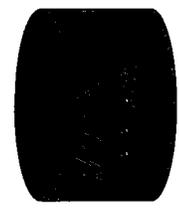
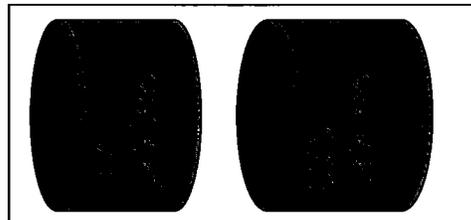
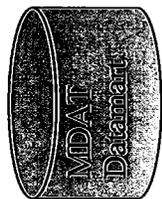
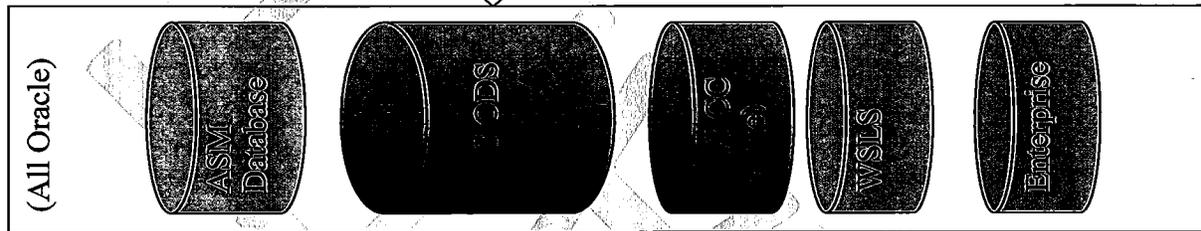
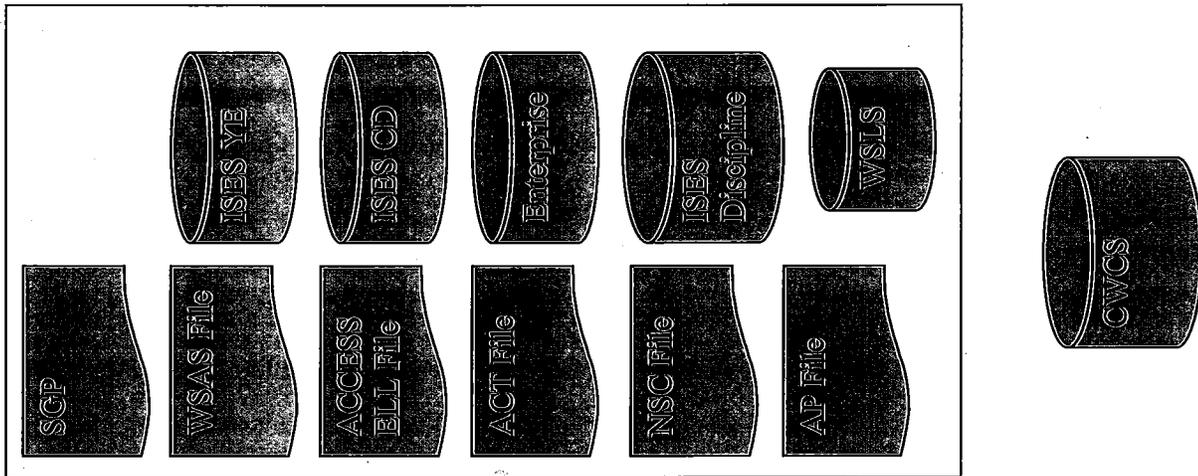
<b>Year</b>	<b>Hours of work on LDS</b>	<b>Total Cost</b>
2010-11	7,328	\$622,894
2011-12	7,037	\$598,173
2 year average	7,183	\$610,513

### Funding Alternatives

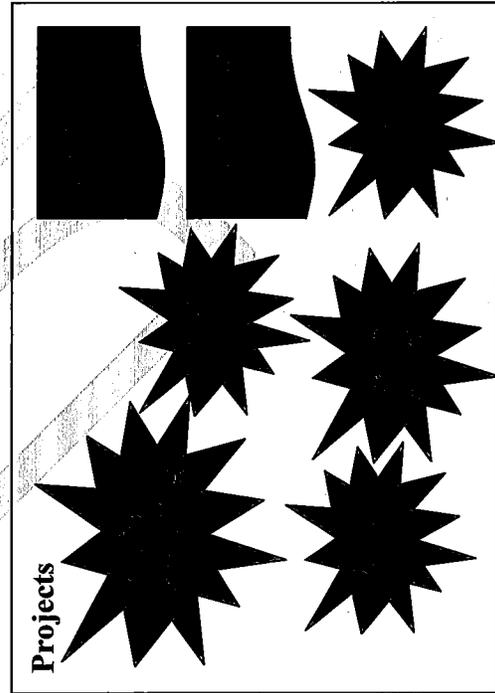
The department is requesting that the LDS and WISEdash be funded with GPR. High profile department initiatives including SMARTER Balanced Assessments, the accountability system, and educator effectiveness all rely on collecting and analyzing high quality, timely data to make important decisions regarding the future of education in Wisconsin. The department believes that the data warehouse, reporting tools, and analysis should not be funded by short-term grant commitments but instead be part of a wider agency initiative to sustain what has been built over the past few years to provide value to districts and department staff. GPR funding will allow the department to continue supporting the tools as well as to continue adding to the tools to provide ongoing value and to support the agency's goal of Every Child a Graduate.

### **Statutory Language**

The department is proposing statutory language to create a new GPR appropriation.



**Notes:**  
Green = Completed  
Blue = Future  
Star = TBD



Date (time)  
needed \_\_\_\_\_

LRB- 0396 / 1

# DOA BUDGET DRAFT

PG: cev : \_\_\_\_\_

Use the appropriate components and routines developed for bills.

>>FOR BUDGET — NOT READY FOR INTRODUCTION<<

AN ACT . . . [DO NOT generate catalog]; relating to: the budget. . . . .

.....  
.....

SA ✓  
xref NA

### *Analysis by the Legislative Reference Bureau*

If titles are needed in the analysis, in the component bar:

For the main heading, execute: ..... create → anal: → title: → head

For the subheading, execute: ..... create → anal: → title: → sub

For the sub-subheading, execute: ..... create → anal: → title: → sub-sub

For the analysis text, in the component bar:

For the text paragraph, execute: ..... create → anal: → text

*(attached)*

***The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:***

**SECTION #.**

SEC.# CR; 20.255(1)(ek) <sup>total</sup>

20.255(1)(ek) Longitudinal data system <sup>develop and</sup>

The amounts in the schedule to maintain the

longitudinal data system of student <sup>the</sup>

information under s. 115.297 and tools necessary

to access the data for ~~purpose~~ of research

and analysis purposes.

note: base

ANALYSISEDUCATIONCS - PRIMARY AND SECONDARY EDUCATION

Current law directs DPI, the DW, and the Technical College System to enter into an agreement requiring the agencies to establish and maintain a longitudinal data system of ~~state~~ information about students from preschool programs to postsecondary education programs.

This bill appropriates moneys to DPI to maintain the data system and develop the tools necessary to access the data for research and analysis purposes.

FE-5

(DN)

Jonathan:

Is the longitudinal data system referred to in  
 DPI's budget request the system <sup>that is</sup> & require  
 under s. 115.297, Stats.? If so, I'd  
 like to redraft to make that clear.

Does anything in s. 115.297 need to be  
 amended to indicate that the federal  
 grants are ending and the roles of  
 the WU and WTCS may be diminishing?

PLG



DOA:.....Hoechst, BB0142 - WISEdash; DPI data warehouse and reporting system

**FOR 2013-2015 BUDGET - NOT READY FOR INTRODUCTION**

1 AN ACT ...; relating to: the budget.

and the Wisconsin Association of Independent Colleges and Universities

System

**Analysis by the Legislative Reference Bureau  
EDUCATION**

**PRIMARY AND SECONDARY EDUCATION**

Current law directs DPI, the UW, and the Technical College System to enter into an agreement requiring the agencies to establish and maintain a longitudinal data system of information about students from preschool programs to postsecondary education programs.

This bill appropriates moneys to DPI to maintain the data system and develop the tools necessary to access the data for research and analysis purposes.

For further information see the *state* fiscal estimate, which will be printed as an appendix to this bill.

**The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:**

2 SECTION 1. 20.255 (1) (ek) of the statutes is created to read:

3 20.255 (1) (ek) *Longitudinal data system.* The amounts in the schedule to  
4 develop and maintain the longitudinal data system of student information under s.

1 115.297<sup>y</sup> and the tools necessary to access the data for research and analysis  
2 purposes.

\*\*\*NOTE: This SECTION involves a change in an appropriation that must be reflected in the revised schedule in s. 20.005, stats.

3 (END)

**DRAFTER'S NOTE  
FROM THE  
LEGISLATIVE REFERENCE BUREAU**

LRB-0396/1dn  
PG:eev:...

1

October 18, 2012

2 Jonathan:

3 Does anything in s. 115.297 need to be amended to indicate that the federal grants are  
4 ending and the roles of the UW and WTCS may be diminishing?

the ↗

5  
6  
7  
8

Peter R. Grant  
Managing Attorney  
Phone: (608) 267-3362  
E-mail: peter.grant@legis.wisconsin.gov

**DRAFTER'S NOTE**  
**FROM THE**  
**LEGISLATIVE REFERENCE BUREAU**

LRB-0396/1dn

PG:eev:rs

October 18, 2012

Jonathan:

Does anything in s. 115.297 need to be amended to indicate that the federal grants are ending and the roles of the UW and the WTCS may be diminishing?

Peter R. Grant  
Managing Attorney  
Phone: (608) 267-3362  
E-mail: [peter.grant@legis.wisconsin.gov](mailto:peter.grant@legis.wisconsin.gov)



State of Wisconsin  
2013 - 2014 LEGISLATURE



LRB-0396/1

PG:eev:rs

DOA:.....Hoechst, BB0142 – WISEdash; DPI data warehouse and reporting system

**FOR 2013-2015 BUDGET -- NOT READY FOR INTRODUCTION**

1 **AN ACT ...; relating to:** the budget.

---

*Analysis by the Legislative Reference Bureau*

**EDUCATION**

**PRIMARY AND SECONDARY EDUCATION**

Current law directs DPI, the UW System, the Technical College System, and the Wisconsin Association of Independent Colleges and Universities to enter into an agreement requiring them to establish and maintain a longitudinal data system of information about students from preschool programs to postsecondary education programs.

This bill appropriates moneys to DPI to maintain the data system and develop the tools necessary to access the data for research and analysis purposes.

For further information see the *state* fiscal estimate, which will be printed as an appendix to this bill.

---

*The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:*

2 **SECTION 1.** 20.255 (1) (ek) of the statutes is created to read:

3 20.255 (1) (ek) *Longitudinal data system.* The amounts in the schedule to

4 develop and maintain the longitudinal data system of student information under s.

1 115.297 and the tools necessary to access the data for research and analysis  
2 purposes.

\*\*\*NOTE: This SECTION involves a change in an appropriation that must be reflected in the revised schedule in s. 20.005, stats.

3 (END)