

Maine Statewide Longitudinal Data System Phase 2



July 2011

SLDS Project Goals

2007 Grant - *Design, develop and implement a longitudinal data system that stakeholders can draw upon to make well-informed decisions about improving student achievement.*

2009 ARRA Grant – *Expand the SLDS to examine student progress from early childhood into career while protecting student privacy and confidentiality consistent with applicable privacy protection laws.*

Education Data Warehouse

- Vendor – Pearson/Choice Solutions
- 45 core source databases
- Microsoft SQL 2008
- SharePoint 2007
- Public go-live date – February 2011

Public Reporting

Login

Snapshots



Data Tables



Growth Model



Information

Tools

More

Yet more

Maine DOE Home

Maine.gov

Maine DOE ERW Users

Secure Data

Snapshots



Data Tables



Growth Model



Admin



**At Risk
Data Mart**



**Directory
Manager**



**EDFacts
Data Mart**



**EPS
Data Mart**



**Research
Data Mart**



Information

[Maine DOE Home](#)

[Maine.gov](#)

[Maine DOE EDW Home](#)

Tools

More

Yet more

General Feedback

What users like:

- Ability to compare districts and schools
- Export functionality – Excel, CSV, PDF
- Filtering and break out by category
- Growth Model
- Single source for data
- Ease of use
- Training/help function

General Feedback

Concerns:

- Provide district training before issuing a public press release with the URL
- General public navigation
- Data quality
- Data currency
- Date stamping
- Training for the press

General Navigation

The Maine Education Data Warehouse website uses several methods to navigate through the modules and find the precise information you're looking for. Use the following tips to help locate specific information on the site.

How to Locate Modules

You can access each module on the site from one of the buttons on the home page. If you do not see the module you're looking for, you may not have the appropriate permissions to access it. Check with your administrator to confirm this.

The home page gives you access to the following modules:



- Snapshots: A *snapshot* is high-level view of report details designed to meet the needs of the average user. Reports are district and school-based, and display both a chart and data table.



- Data Tables: A *data table* is an aggregate report that lists details on state education characteristics. Users can use these reports to view data in greater details beyond that of which reported in a snapshot, or to pull data out of the system for use in a their party system.



- Growth Model: The Maine Growth Model is a statistical model used to calculate each student's progress on state assessments. It is also a tool for displaying student, school, and district results to educators and to the public.

For Video Help [Click Here](#)

Balanced Score Card

Student Achievement

Measure	AYP Target	Status
Percent Tested (MHSA-2009)	95.0 95	▲
Percent Tested (NECAP-2010)	99.0 95	▲
% Meets or Higher (MHSA-2009)	37.0 43	▼
% Proficient or Higher (NECAP-2010)	62.9 60	▲
Percent Tested (MHSA-2009)	95.0 95	▲
Percent Tested (NECAP-2010)	98.8 95	▲
% Meets or Higher (MHSA-2009)	42.9 64	▼
% Proficient or Higher (NECAP-2010)	66.0 66	▲

Non-Academic

Measure	Target	Status
AYP Targets		
Annual Student Dropout Rate:	5.5 N/A	
Fed. 4 Year cohort Graduation Rate:	78.1 75	▲
Student Attendance Rate:	93.1 90	▲

Staffing

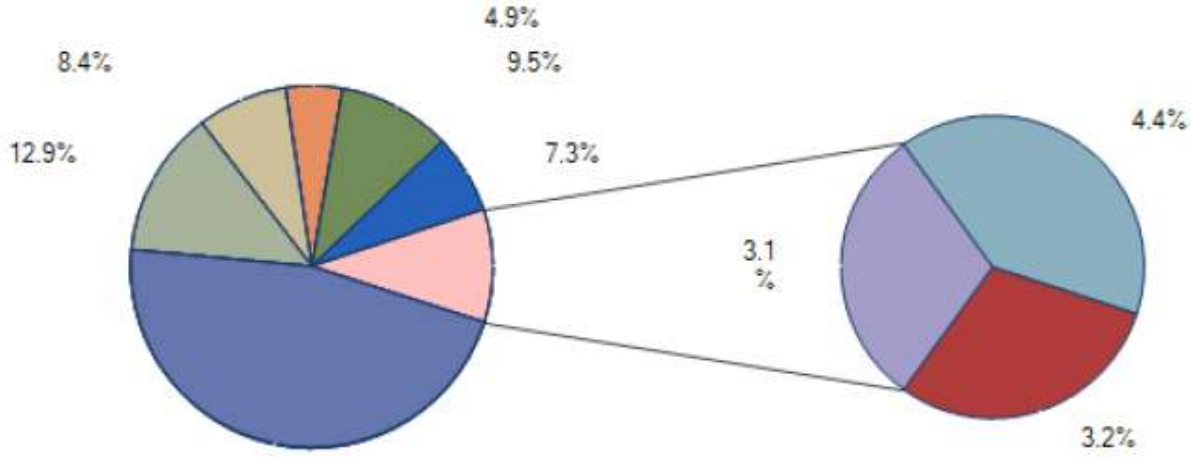
Measure	Goal	Status
% of Teacher with Masters Degree or Higher:	42.4	N/A
FTE Count of Teachers:	192.6	N/A
FTE Count of Administrators:	12.0	N/A

Finance

Measure	Budget	EPS	State Avg.	Status
Per Pupil Expenditures:				
Regular Instruction:	3,419	N/A	5,718	
Special Education:	1,527	N/A	1,466	
School Administration:	556	N/A	572	
Debt Service:	1,303	N/A	449	
Facilities:	1,171	N/A	1,203	
Total:	7,976	N/A	9,408	

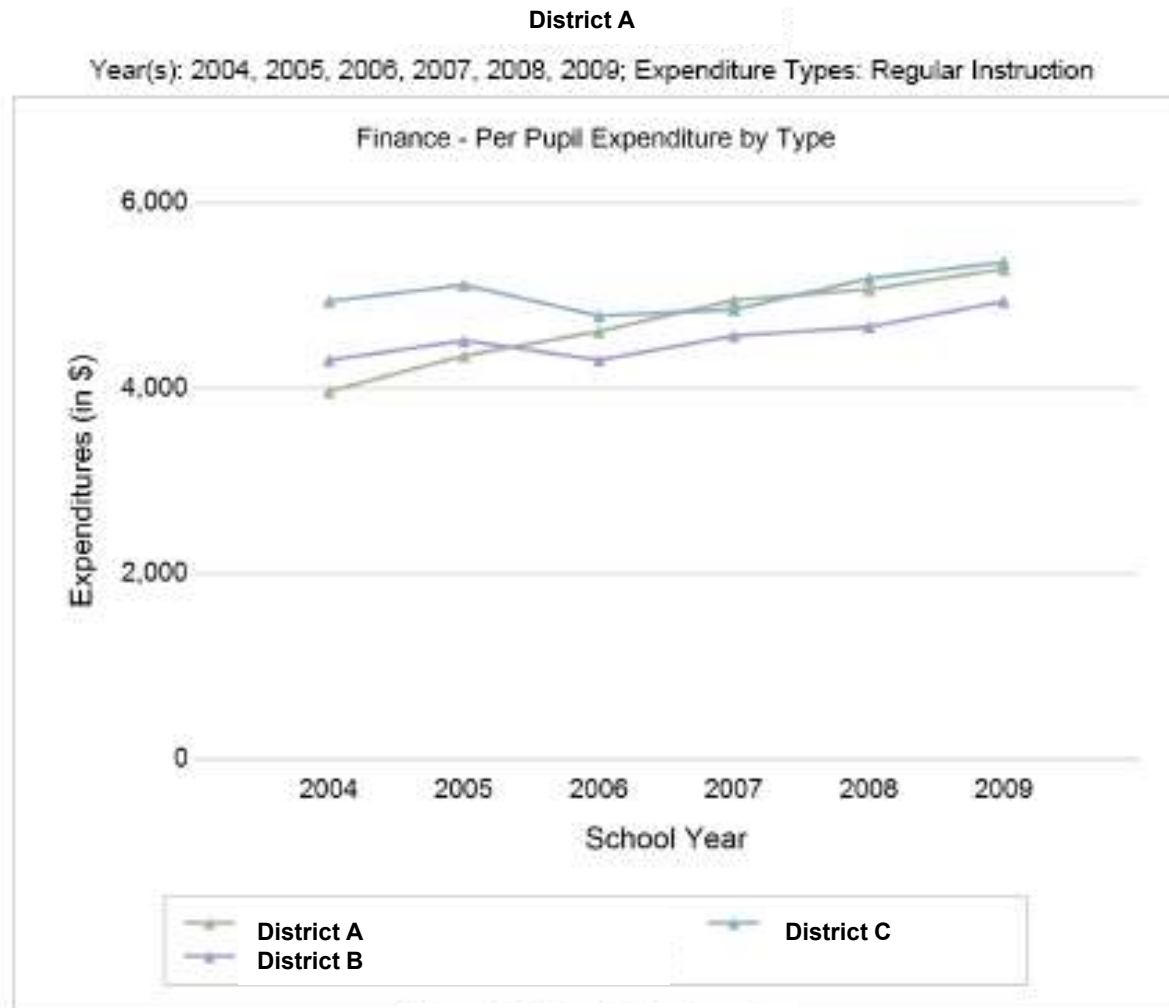
Public Reports

Finance - Per Pupil Expenditure by Type



- Regular Instruction
- Special Ed Instruction
- Student & Staff support
- Transp & Buses
- Facilities Maintenance
- Debt Service
- Other Instruction
- System Admin
- School Admin


Public Reports



District A
Finance - Per Pupil Expenditure by Type
Year(s): 2004, 2005, 2006, 2007, 2008, 2009; Expenditure Types: Regular Instruction

Balanced Scorecard Feedback

- Good starting point for general public
- Add Highly Qualified Teacher Data
- Add data elements for NCLB scorecard
- Provide links to district and school websites

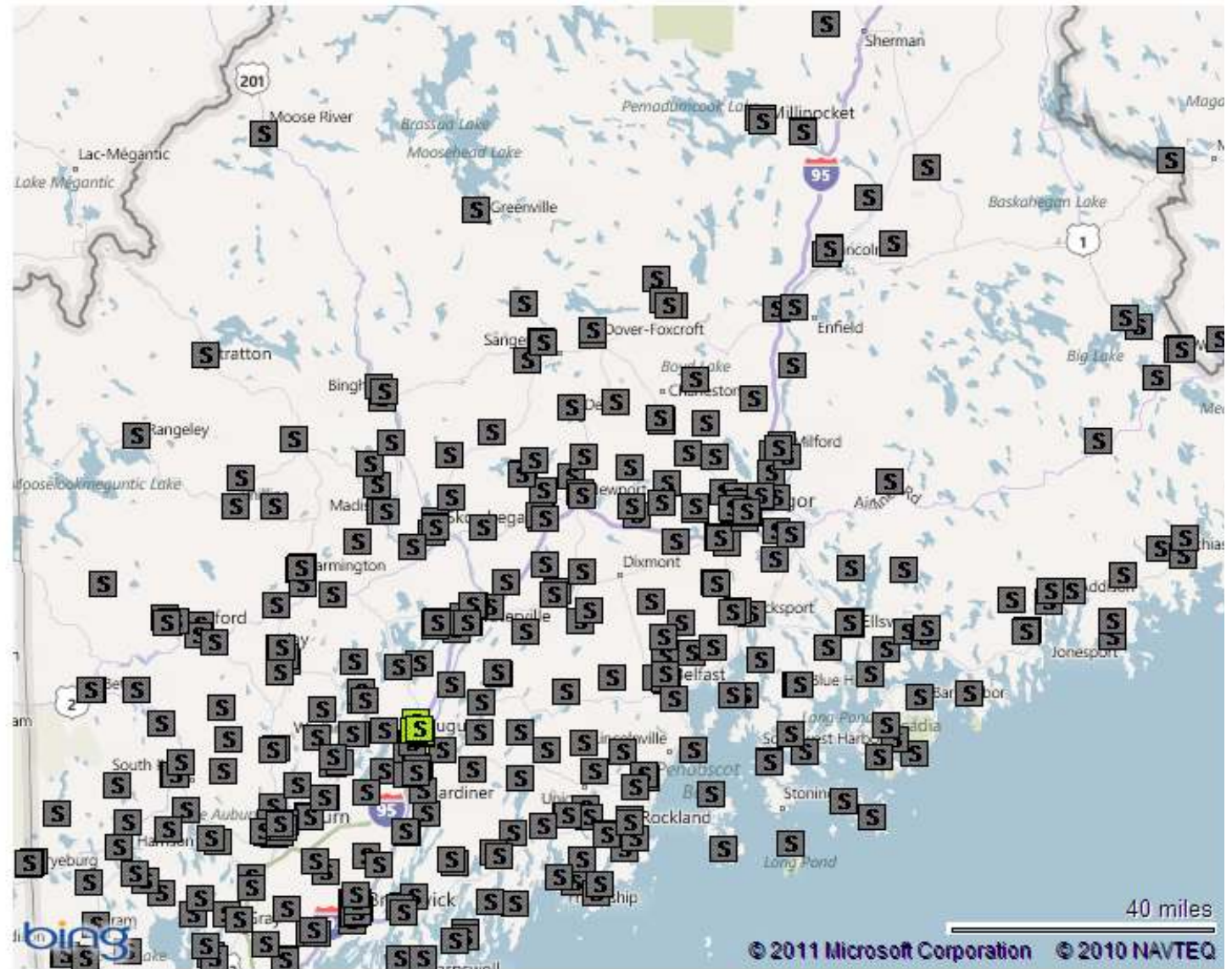


Growth Model

Growth Model

Augusta Public Schools

- Cony
- Farrington School
- Lillian Parks Hussey School
- Lincoln School
- Sylvio J Gilbert School
- Baileysville School Department
- Bangor School Department
- Bar Harbor School Department
- Beals School Department
- Biddeford School Department
- Blue Hill Harbor School
- Blue Hill School Department
- Boothbay-Boothbay Hbr CSD
- Brewer School Department
- Bristol School Department
- Brooklin School Department
- Brooksville School Department
- Brunswick School Department
- Calais School Department
- Cape Elizabeth School Department
- Castine School Department
- Caswell School Department
- Charlotte School Department
- Chebeague Island School Department
- Cranberry Isles School Department
- Cutler School Department
- Dedham School Department

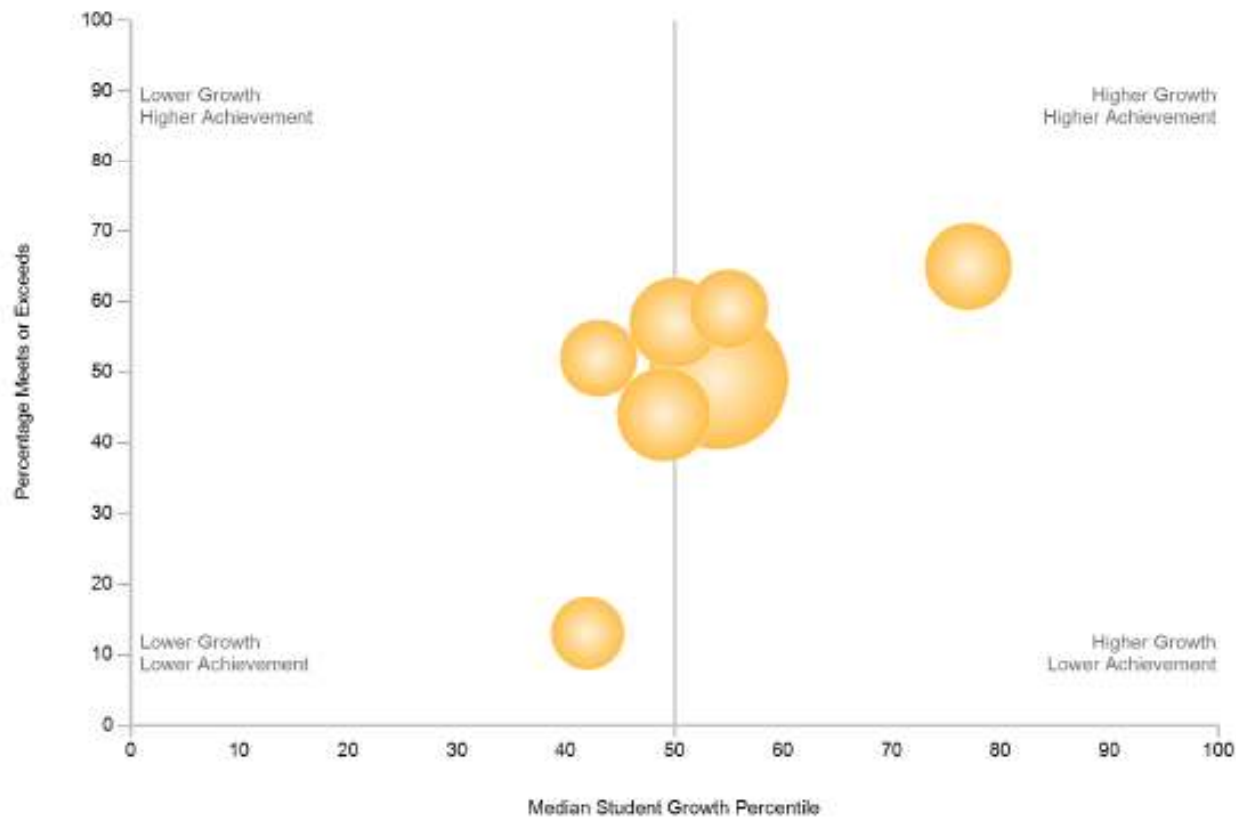


Growth Model

Because Growth Model calculations require a student to be tested two years in a row, the number of students tested and the percentage of students proficient or who met or exceeded the standard might differ from the single-year reports available elsewhere within the Maine Data Warehouse/Education Support System.

School Department

Growth Performance Report for Mathematics for Year 2010



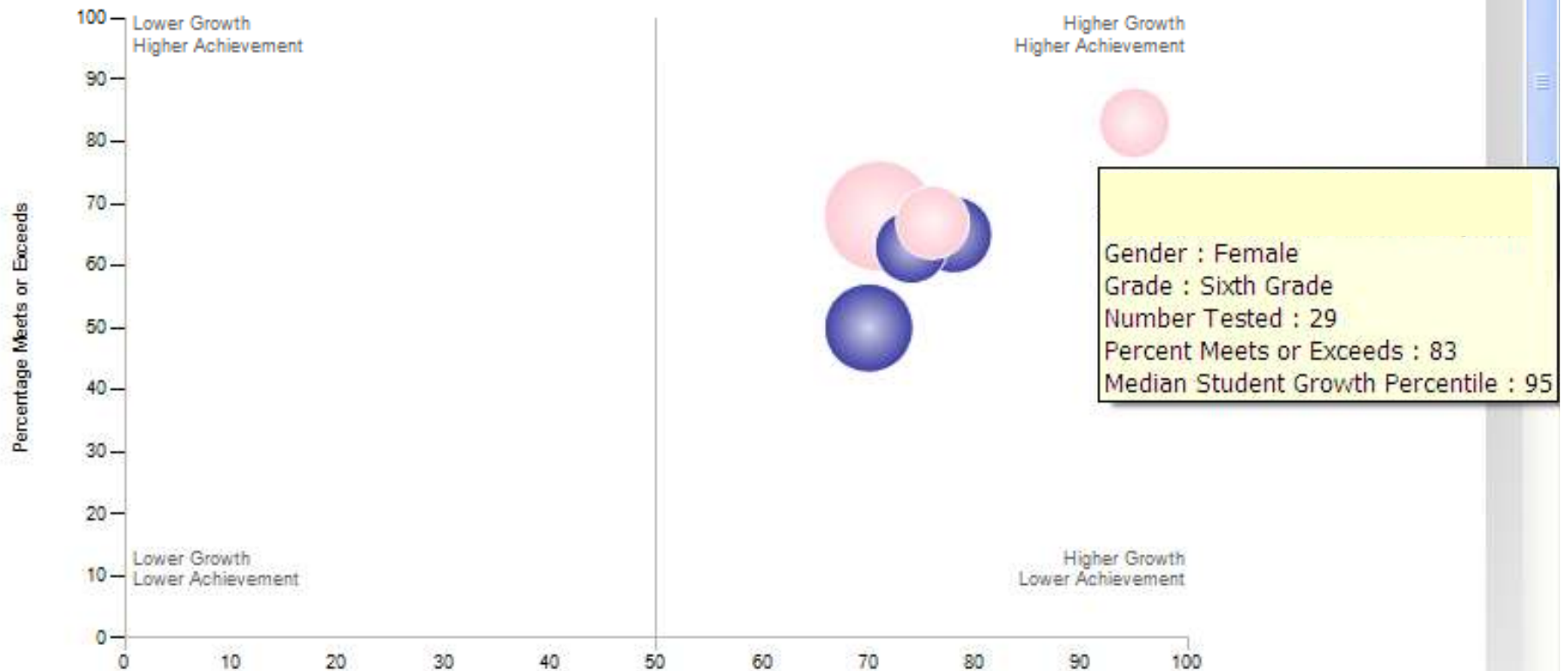
Growth Model Breakout

Because Growth Model calculations require a student to be tested two years in a row, the number of students tested and the percentage of students proficient or who met or exceeded the standard might differ from the single-year reports available elsewhere within the Maine Data Warehouse/Education Support System.

School Department

Elementary Sch

Growth Performance Report for Mathematics for Year 2010



Selecting Student Reports

<input checked="" type="checkbox"/>	2010	Eighth Grade	Female	Caucasian / White	Status unknown	N	38	Partially Proficient	839	26
<input type="checkbox"/>	2010	Eighth Grade	Male	Caucasian / White	Status unknown	N	98	Proficient	850	45
<input type="checkbox"/>	2010	Eighth Grade	Male	Caucasian / White	Status unknown	N	14	Proficient	845	36
<input type="checkbox"/>	2010	Eighth Grade	Male	Caucasian / White	Status unknown	N	39	Proficient	850	45
<input type="checkbox"/>	2010	Eighth Grade	Male	Caucasian / White	Status unknown	N	48	Proficient with Distinction	854	50
<input type="checkbox"/>	2010	Eighth Grade	Male	Caucasian / White	Status unknown	Y	46	Proficient with Distinction	852	48
<input type="checkbox"/>	2010	Eighth Grade	Male	Caucasian / White	Status unknown	N	12	Substantially Below Proficient	832	15

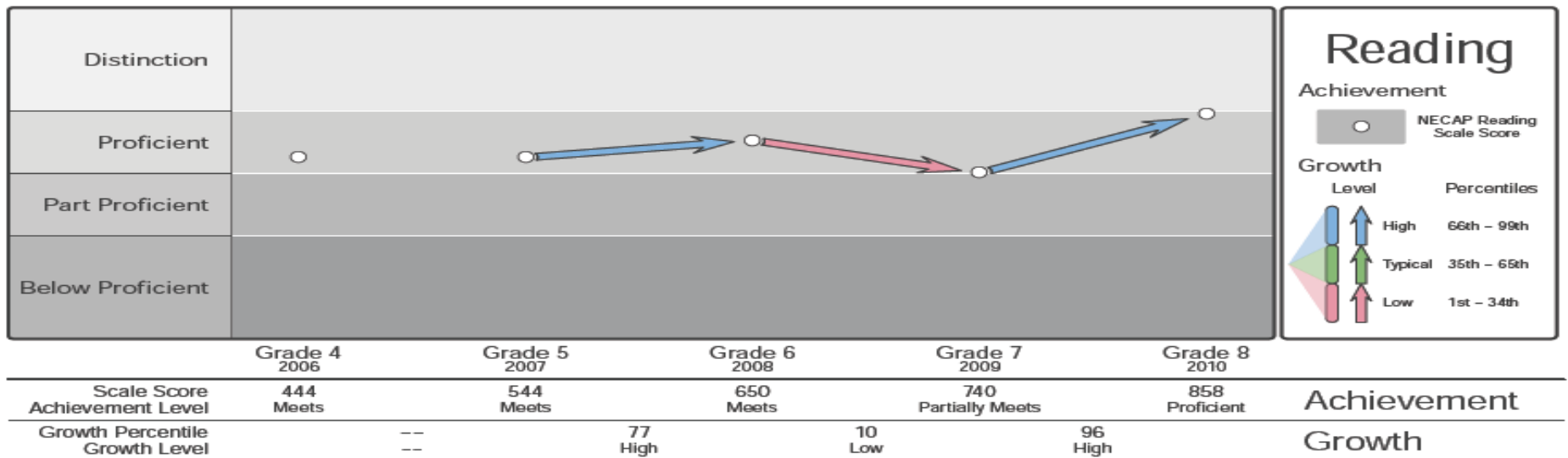
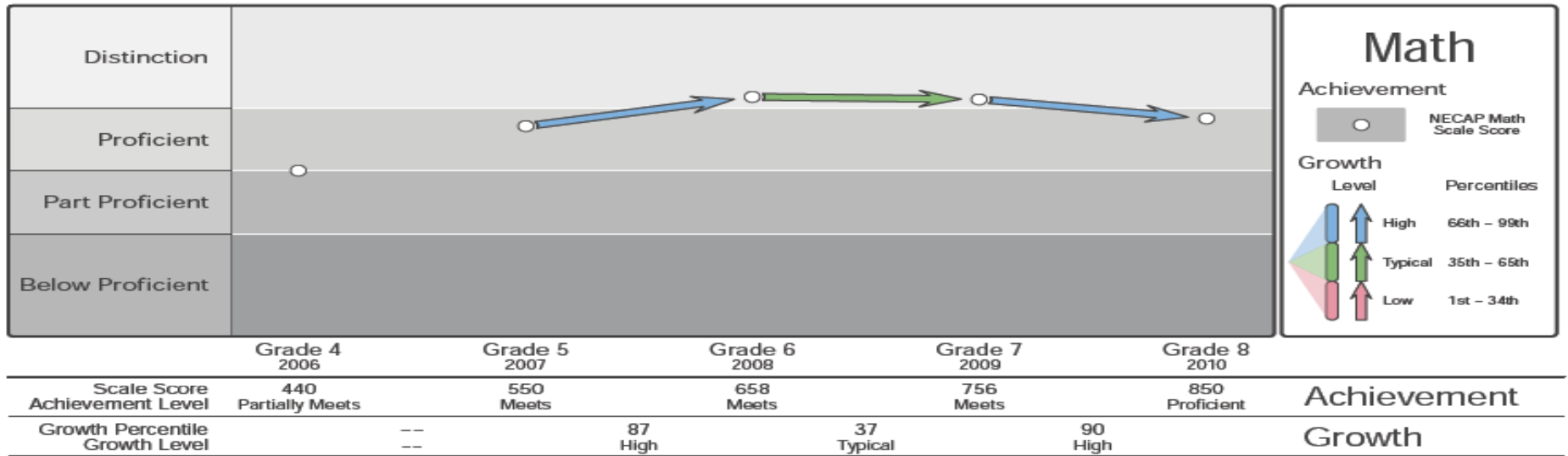
Check All

Un-check All

View

Export

Individual Reports



Growth Model Feedback

- Expand map to highlight schools and districts by type/category
- Add high school model using 10th grade PSAT and 11th grade SAT
- Add formative assessment/NWEA model
 - More immediate assessment data
 - Use May NWEA data in addition to October NECAP data



College Readiness

At-Risk Data Mart

- A tool that educators use to identify, address and manage a problem, opportunity or strategy.
 - Identifies students at risk
 - Allow educators to create, assign and manage programs for at-risk students and track student performance in the programs
 - Provide data for analysis of model results as well as analysis to improve the model and programming

At-Risk Drop Out Model

- The initial model was designed as a high school dropout early warning and management system
- Students are initially evaluated as they enter 9th grade using research-based indicators

At-Risk Drop Out Model Measures

Academic Performance

State Assessment – Math
State Assessment – Science
State Assessment – Writing
State Assessment – Reading

Educational Engagement

Number of out of school suspensions
Expulsions

Student Background

Repeated one or more grades
Transfers
ACCESS for ELLs Score
Special Education
Free or Reduced Lunch
2 or more years over age for entering 9th grade

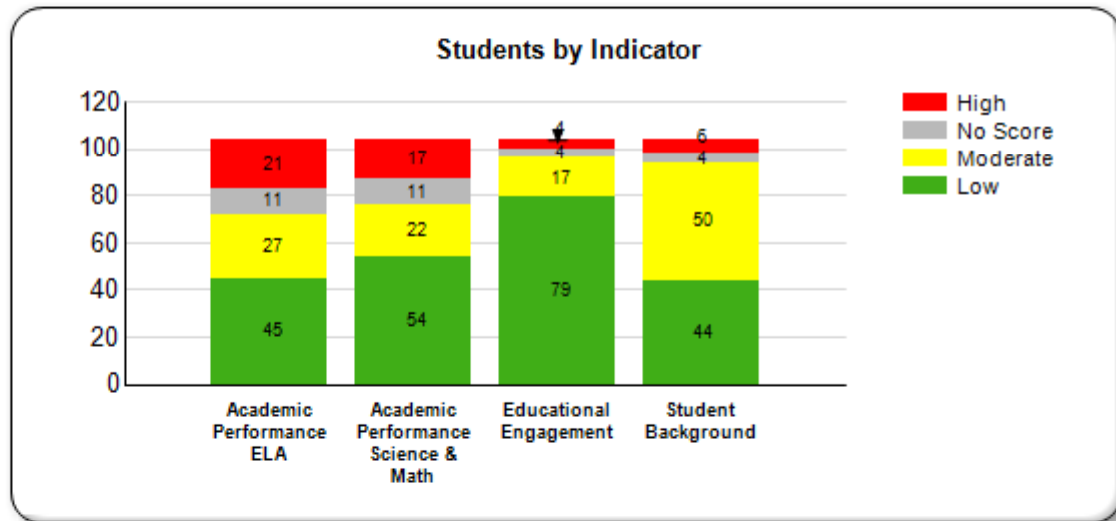
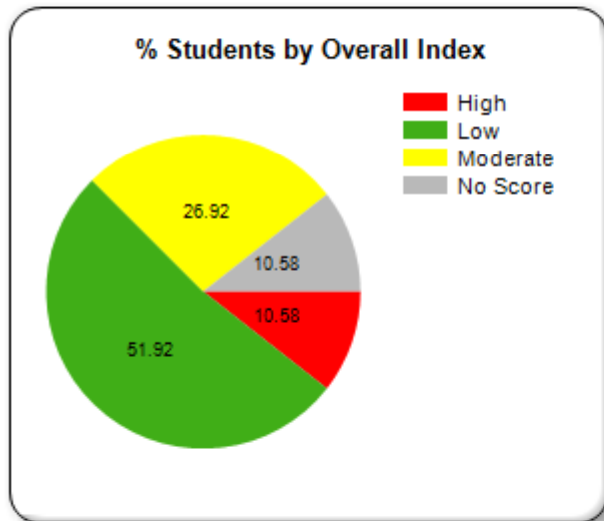
At-Risk Drop Out Model

At Risk → Model → Model Report

Model : The Maine Grade 9 Foundational Model

Students Analyzed : 104

Run Date : 07/28/2010



*Please click on numeric values of (pie/bar) chart to see drill down reports

Model Details by Student

Grade

Race/Ethnicity

Gender

Go

Select	Student Name	Grades	Overall Index	Index Category	Academic Performance Science & Math	Academic Performance ELA	Educational Engagement	Student Background
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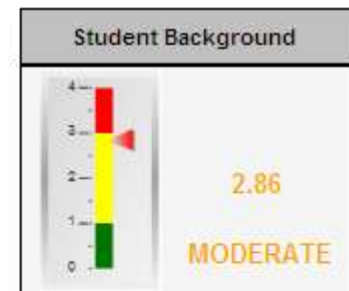
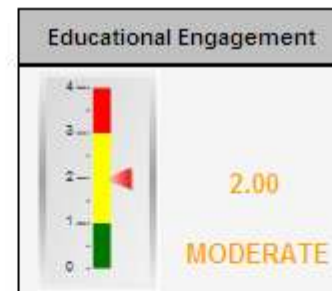
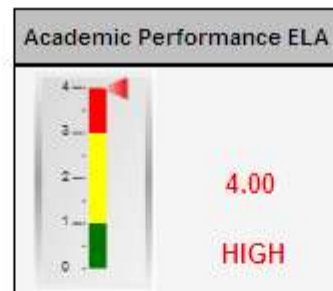
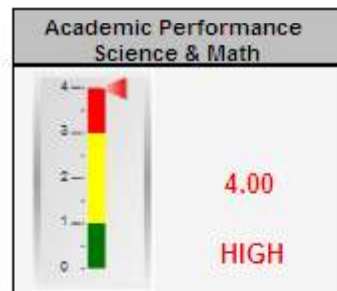
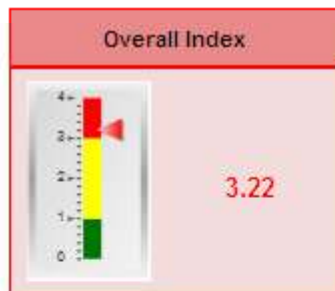
Student Vitae

At Risk → Student → Student Vitae

Bianca Atoor

General Information :

School ID	N/A	DOB	N/A	Guardian	N/A
		Gender	Female	Phone	N/A
		Ethnicity	African American / Black	Email	N/A



Associations

Programs

Program Name	Assigned Date	Last Attended	Status
<input type="checkbox"/> Credit Recovery Umbrella Program - GP	08/09/2010		
<input type="checkbox"/> Math Credit Recovery Program - 2010/2011 - GP	08/09/2010		
<input type="checkbox"/> Off-Campus tutoring - GP	08/24/2010		

Add Programs

Remove Programs

Interventions

Intervention Name	Progress Status	Intervention Type
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College Readiness Model

- Requested by the Maine Community College System Presidents Council
- Leverage At-Risk data mart
- Identify high school students at risk of needing remedial or developmental courses
- Deliver the courses during senior year of high school

College Readiness Model Goals

- Reduce need for remedial or developmental courses in college
- Reduce need for students to pay for a non-credit course
- Indicate to students not considering postsecondary education that they may be college ready
- Provide feedback for high schools

College Readiness Indicators

- SAT Participation Rates
- SAT Scores/State Assessment Results
- High School GPA
- Completion of Algebra II
- Attendance
- Completion of FAFSA
- Completion of 4 Years of Mathematics
- Course Completion/Scores in Dual Enrollment/Early College, Advanced Placement and International Baccalaureate

Application

- The application provides a platform to operationally implement dropout prevention efforts – including:
 - **Programs and Interventions:** organization and centralized storage of programming and intervention information
 - **Strategies:** create strategies and align them to your programming
 - **Student Vitae:** A single source of information for student information
 - **Student Assignment:** Assign programming and interventions to students and track their progress and attendance



Teacher Effectiveness

Pilot Districts

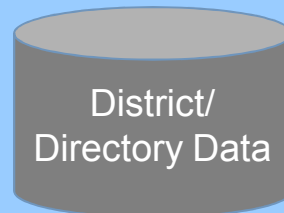
- Schools for Excellence Program
 - Teacher Incentive Fund Grant
- Five Districts
 - 19 Schools
 - 450 Teachers
- Phase 1 – Fall 2011
- Phase 2 – Spring 2012

Pilot Project Goals

- Performance-Based Compensation System
- Multiple measures of educator performance
- Real-time reporting of scorecard performance measures
- Secure, web based access to performance by educators
- Summary performance reporting at the classroom, grade, school and district

What data can be used

SLDS Data Warehouse Data



Model / Rubric
Builder Data Set

LEA-Uploaded
Data

Selecting Measures

Please select the measures to include in the calculation:

Staff Personal	Staff Position	Staff Employment	Assessment Results	Other
Select ▼	Select ▼	Select ▼	Select =====	Select =====
			Assessment Grade Year	Attendance Rate Survey Rating Prof. Development

Calculating Scores

Define the calculation model using the values below.
When finished please click "Save" to name and save your model

[Definitions](#) [Excel](#) [PDF](#) [CSV](#)

Domain	Indicator	Base	Max. Goal	Priority %
Assessment	% of students at or above	65%	90%	30%
Attendance	Attendance Rate	90%	98%	20%
Assessment	Median Growth Percentile	60	90	20%
Other	Professional Growth Rating	3	4	20%
Total				90%





Return to indicator Selection

Add indicator

Save

Saved Models

Below is a listing of models available for Maine School District 123. Please click on the link if you would like to see the details of a particular model

 Definitions  Excel  PDF  CSV			Last Updated
Model Name	Description		
<input type="checkbox"/> Elementary-1	Used for teachers in grades 1-8 who teach subjects for which no state assessment is given.	5/12/2010	
<input type="checkbox"/> Elementary-2	Used for teachers in grades 1-8 who teach subjects for which state assessment is given.	9/17/2010	
<input type="checkbox"/> HS-1	Used for teachers in grades 9-12 who teach subjects for which no state assessment is given.	4/23/2010	
<input type="checkbox"/> HS-2	Used for teachers in grades 9-12 who teach subjects for which no state assessment is given.	7/14/2011	

Back

View

Edit

Delete

Sample Report Card

Schools for Excellence

, Teacher, Grade 4, Elementary #2, 2010-2011

Performance Indicator	Priority Points	- Performance Standards -			% Gain	Earned Points
		Base	Actual	Goal		
1 % Student Growth – Math (NWCA SW)	40	3%	3.50%	4%	50%	20
2 % Student Growth – Reading (NWCA SW)	40	3%	3.75%	4%	75%	30
3 % Student Growth – LA (NWCA SW)	20	3%	4%	4%	100%	20
4 Student Perception Rating (7C Survey Classroom)		70%	80%	90%	50%	
5 Professional Growth Rating (WARTS Rubric Individual)		3	3.33	4	33%	

Performance Index 70%
 Performance Pay Opportunity \$5,000
 Performance Pay \$3,500

PD Take One! Bonus \$500
 PD Facilitator Bonus \$1,000

Total Performance Pay \$5,000



Workforce Research

Department of Labor Studies

- Maine DOL Center for Workforce Research and Information reports
 - *Employment and Earnings Outcomes of Graduates from Maine High Schools*
 - *Employment and Earnings Outcomes of Graduates from Maine's Community College System*
 - *Employment and Earnings Outcomes of Graduates from Maine's State University System*

DOL Report Sources

- *Wage Records Matching System*
 - State Unemployment Insurance Database
 - Wage Records Interchange System
 - Federal Employment Data Exchange Systems
- *National Student Clearinghouse*

Community College Report

Graduate follow Up December 2008 Through August 2009									
Wages Reported in Maine			Post Graduation						
CIP Code	Degree	Major/Minor	Grads	With Wages	Continue In School	Reported Wages While In School	Low Quarterly Wage	Mean Quarterly Wage	High Quarterly Wage
010601	Assoc in Applied Science	Horticulture	11	10	3	2	\$1,000	\$5,086	\$9,674
090702	Assoc in Applied Science	Communications & New Media	31	18	11	3	\$284	\$3,901	\$6,251
120503	Assoc in Applied Science	Culinary Arts	21	21	4	2	\$70	\$4,715	\$7,200
131210	Assoc in Applied Science	Early Childhood Education	13	11	5	5	\$2,891	\$4,458	\$5,842
150303	Assoc in Applied Science	Electrical Engineering Technologies	19	14	4	4	\$1,442	\$6,330	\$13,541
151201	Assoc in Applied Science	Computer Technology	19	14	5	2	\$734	\$6,803	\$11,516
151303	Assoc in Applied Science	Architectural & Engineering Design	27	22	10	8	\$1,469	\$5,213	\$10,311
240199	Associate in Arts	Liberal Studies	84	65	60	45	\$63	\$4,168	\$14,732
261201	Associate in Science	Biotechnology	3	3	3	3	\$4,958	\$5,640	\$6,301
261302	Associate in Science	Applied Marine Biology and Oceanography	2	1	1	0	*	*	*
430107	Assoc in Applied Science	Criminal Justice	38	28	16	7	\$231	\$6,063	\$18,412
430203	Assoc in Applied Science	Fire Science Technology	27	23	14	12	\$22	\$6,974	\$19,001
460000	Assoc in Applied Science	Construction Technology	25	18	9	7	\$1,215	\$5,368	\$12,963
460503	Certificate	Plumbing Certificate	10	10	3	3	\$238	\$3,434	\$6,875
470201	Assoc in Applied Science	Heating & Air Conditioning	12	10	1	1	\$262	\$5,854	\$9,872
470604	Assoc in Applied Science	Automotive Technology	7	6	0	0	\$3,999	\$7,458	\$9,449
480501	Assoc in Applied Science	Integrated Manufacturing - Precision Machining	6	6	1	1	\$5,956	\$7,608	\$11,305
480508	Certificate	Welding Certificate	5	4	1	1	\$5,108	\$6,630	\$8,575
490202	Certificate	Heavy Equipment Operations Certificate	3	3	3	1	*	*	*
510801	Associate in Arts	Medical Assisting	15	15	4	4	\$88	\$5,654	\$9,452
510805	Assoc in Applied Science	Pharmacy Technician	2	1	0	0	*	*	*
510901	Associate in Science	Cardiovascular Technology	9	7	1	1	\$219	\$6,732	\$13,277
510904	Assoc in Applied Science	Emergency Medical Services/Paramedicine	9	9	2	2	\$10,480	\$13,540	\$19,773
510907	Associate in Science	Radiation Therapy	5	2	1	0	*	*	*
510908	Associate in Science	Respiratory Therapy	15	13	3	3	\$2,483	\$8,939	\$11,406
510909	Assoc in Applied Science	Surgical Technology	4	4	0	0	\$7,001	\$11,942	\$16,092
510911	Associate in Science	Radiography	12	12	2	0	*	*	*
511599	Assoc in Applied Science	Behavioral Health & Human Services	23	19	14	12	\$461	\$4,032	\$10,353
511601	Associate in Science	Nursing	53	45	9	6	\$176	\$9,765	\$16,097
513103	Associate in Science	Dietetic Technology	13	12	8	6	\$664	\$4,426	\$7,699
513199	Certificate	Certified Dietary Manager	1	1	1	1	*	*	*
520201	Associate in Science	Business Administration	70	51	38	23	\$390	\$5,731	\$16,874
520904	Assoc in Applied Science	Lodging, Hospitality, and Restaurant Management	9	8	2	2	\$3,006	\$4,186	\$5,113
			603	486	239	167			

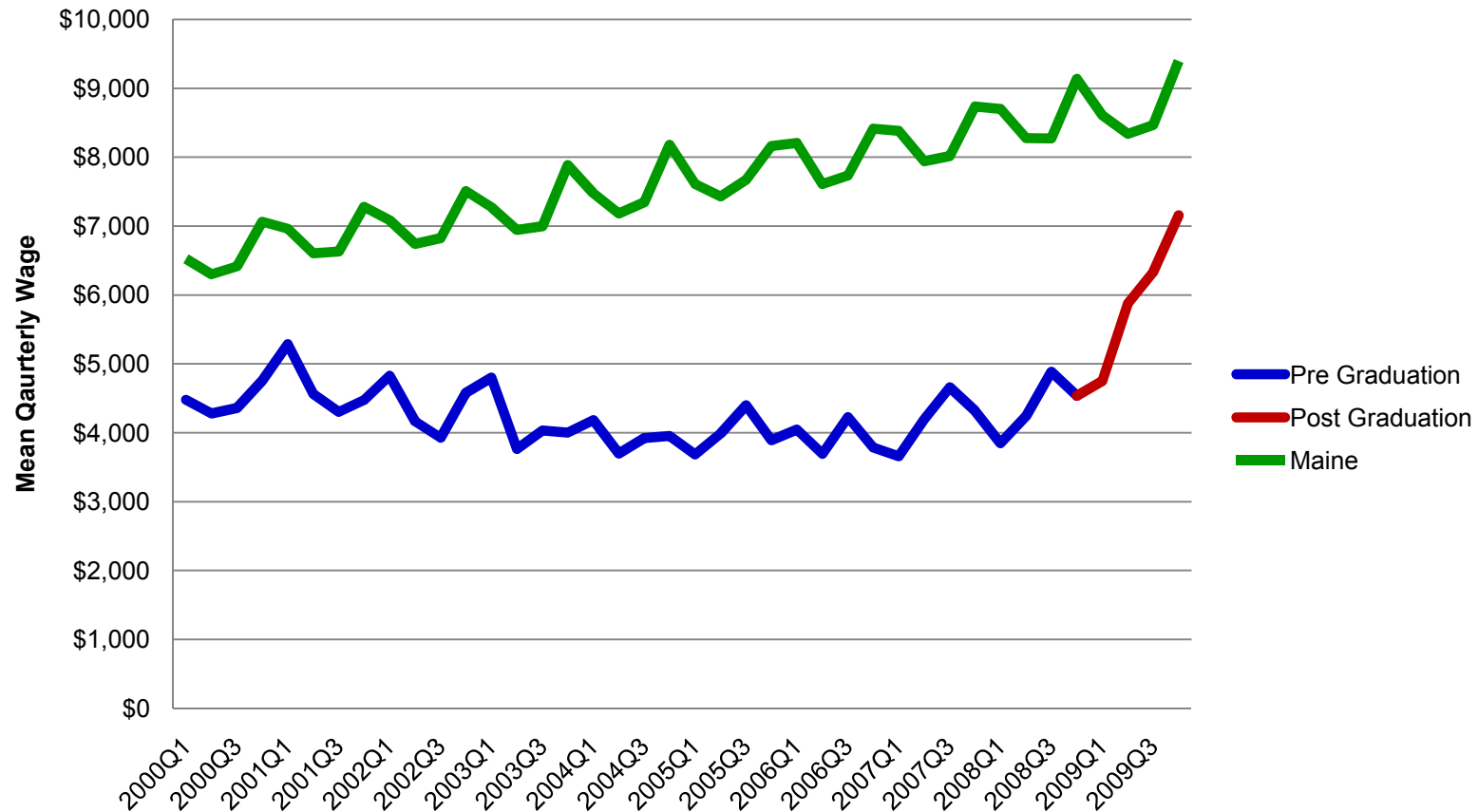
1. Values of cells with an asterisks are suppressed for confidentiality purposes.

2. This is a count of degrees, not students. 12 students with 2nd degrees in the study period are counted twice.

3. Continuing education is reported from the National Student Clearinghouse. Due to imperfect matching algorithms continuing education is likely underestimated.

Community College Report

Class of 12/20/2008





Education Research Studies

SLDS Research Studies

Maine Education Policy Research Institute

School Success and College Readiness

- *Student success characteristics upon entry to high school – grades 3-8 data points*
- *Characteristics of high school drop outs and 4-year graduates – high school persistence, graduation rates and college enrollment*
- *Post-secondary success characteristics – college placement, performance and persistence*

SLDS Research Studies


Growth Models

- SLDS variables
- School and community-level data
- Classes of growth models
- Multi-year, multi-level data set
- Impact of school characteristics
- Impact of student characteristics

SLDS Research Studies

Student Mobility

- SLDS variables
- Multi-year data set
- Extent and nature of mobility
- Student demographics
- School and regional demographics
- Impact on education systems



Early Childhood Programs

Early Childhood Data

Currently included in DOE data system

- Child Development Services
- Four-Year-Old Programs

DHHS Participating Programs

- Educare
- Early Head Start
- Head Start

Early Childhood Goals

- Link DOE and DHHS unique identifiers
- Collect child-level data on:
 - Demographics
 - Program participation
 - Child development
- Collect program site data
- Establish multi-agency governance
- Create outcome reports

New Applications

- Educator Credentialing System
- Educator Quality Management System
- Adult Education Management System

Questions?

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