GRADUATION RESILIENCY

Presentation to North Carolina General Assembly
House Select Committee on Education Reform

Debora Williams, Special Assistant
Graduation and Dropout Prevention Initiatives
Purpose

To facilitate an early warning system with research-based risk factors for identifying students who may be at risk of dropping out of school.
RTTT and GR

• Dropout prevention is implicit in all four pillars (effective teachers/leaders; low-performing schools; standards/assessment; data systems)

• Employing the graduation resiliency software could be one of the activities outlined in Scope of Work

• Would provide baseline data and subsequent services would result in outcome data

• Proactive not reactive
On-track Credits

• An on-track student has accumulated the requisite number of credits to move to the next grade level.

• An on-track student has no more than one semester “F” in a core subject.

(Allensworth, 2009)
Research on Early Warning Indicators

Attendance

Eight times more predictive of failure than prior test scores. A student who has more than 5 absences in one semester of the 9th grade year has a 63% chance of graduating in four years. (Allensworth, 2009)
RESEARCH ON EARLY WARNING INDICATORS

GPA

- Students with a “B” (3.0) average or higher in the first year have better than a 93% chance of graduating.

- Students with a D+/C- (1.0-2.5 GPA) average have a 53-92% chance of graduating.

- Students with less than a “D” average (1.0) have less than a 6% chance of graduating.

(Allensworth, 2009)
RELEVANT NCWISE DATA

- Student name, pupil number, birth date, ninth-grade entry date
- Attendance data, both current and historical
- State assessment achievement level data
- Final marks for all middle school/high school courses
- Most recently calculated GPA (calculated at year-end for grades 9-12)
NCWISE REPORTS

Four *Graduation Resiliency* reports available in NCWISE

- Ninth grade
- Tenth grade
- Eleventh grade
- Twelfth grade
NCWISE REPORTS
(continued)

• Reports are designed for availability just prior to the start of school allowing counselors to identify the “at risk” students.

• Reports consider the student’s historical data.

• Executed at the beginning of school year for identification of individual student issues.

• All risk factors carry the same weight.
NCWISE Reports

(continued)

• Reports are available on the NC WISE Reporting Hub – web-based tool

• Accessible to NC WISE School Data Managers, the LEA Coordinators, Principals, and Others

• Reports have about 10 columns, one record per student.

• Reports can be downloaded into MS Excel for sorting and analysis.
Areas of student performance

- Attendance through middle/high school
- Final course marks in key elementary/middle school courses
- Successful completion of high school courses essential to graduation within an appropriate timeframe, as indicated by state assessments
- Cumulative credits earned in each high school year
- Continuous cumulative grade point average
Information Source

- All report data is **historical**.
- Reports are run at the **start** of the school year.
- Source data is **not** updated after the start of the school year.
- Reports consider data from **previous** years.
- Ninth grade report analyzes student data from grades 6, 7, and 8.
- Tenth, eleventh, and twelfth grade report analyzes data from the previous school year.
Report Availability

- A ninth grade report, *to be run at the start of ninth grade*, considering the previous 3 years
- A tenth grade report, *to be run at the start of tenth grade*, considering ninth grade data
- An eleventh grade report, *to be run at the start of eleventh grade*, considering tenth grade data
- An twelfth grade report, *to be run at the start of twelfth grade*, considering eleventh grade data
Ninth Grade Risk Criteria

• Final grade for standard required math course (grades 6, 7, 8) < C

• Final grade for standard required English course (grades 6, 7, 8) < C

• Total daily absences, in any one school year, exceed 5 daily absences
Tenth/Eleventh/Twelfth Grade Risk Criteria

- Total absences, in any one school year, exceed five
- GPA < 2.0
- Achievement Level of I or II for EOCs
  - English I
  - Algebra I
- Failure to achieve an expected level of course credits after each year in high school
  - At beginning of grade 10, less than 5 earned credits
  - At beginning of grade 11, less than 10 earned credits
  - At beginning of grade 12, less than 15 earned credits
Report Details

- All reports are **school level** reports
  - Each report **only** contains students “at risk” for dropout
  - Each student has **only** one record in the report

- **Each column** of the report represents a potential dropout risk factor
  - If there is no data for a particular risk factor, the column for that factor indicates “no data”
Report Details (continued)

- Risk Level *calculated* using only the available data points

- **No variable weighting** factor. All risk factors carry the same weight.

- Risk Level must be *25* or above for the student to be included in the report.
## Ninth Grade Sample Report

<table>
<thead>
<tr>
<th>SCHOOL NAME</th>
<th>PUPIL #</th>
<th>9th Grade Entry Date</th>
<th>BIRTHDATE</th>
<th>STUDENT NAME</th>
<th>SIXth Grade Abs</th>
<th>SEVN Grade Abs</th>
<th>EIGHT Grade Abs</th>
<th>SIXth Grade ENGL</th>
<th>SEVN Grade ENGL</th>
<th>EIGHT Grade ENGL</th>
<th>SIXth Grade MATH</th>
<th>SEVN Grade MATH</th>
<th>EIGHT Grade MATH</th>
<th>RISK</th>
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</thead>
<tbody>
<tr>
<td>NCWISE HS</td>
<td>1</td>
<td>7/1/2010</td>
<td>6/30/1995</td>
<td>Student1</td>
<td>2</td>
<td>8</td>
<td>5</td>
<td>C+</td>
<td>D</td>
<td>F</td>
<td>D-</td>
<td>F</td>
<td>D</td>
<td>0.67</td>
</tr>
<tr>
<td>NCWISE HS</td>
<td>2</td>
<td>7/1/2011</td>
<td>7/12/1996</td>
<td>Student2</td>
<td>14</td>
<td>3</td>
<td>28</td>
<td>no data</td>
<td>C</td>
<td>F</td>
<td>80</td>
<td>C</td>
<td>D-</td>
<td>0.5</td>
</tr>
<tr>
<td>NCWISE HS</td>
<td>3</td>
<td>7/1/2011</td>
<td>9/20/1996</td>
<td>Student3</td>
<td>16</td>
<td>6</td>
<td>0</td>
<td>no data</td>
<td>B</td>
<td>A-</td>
<td>no data</td>
<td>B-</td>
<td>A-</td>
<td>0.29</td>
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<tr>
<td>NCWISE HS</td>
<td>4</td>
<td>7/1/2010</td>
<td>8/29/1993</td>
<td>Student4</td>
<td>no data</td>
<td>6</td>
<td>18</td>
<td>no data</td>
<td>no data</td>
<td>F</td>
<td>no data</td>
<td>P</td>
<td>F</td>
<td>0.8</td>
</tr>
<tr>
<td>NCWISE HS</td>
<td>5</td>
<td>7/1/2010</td>
<td>4/10/1995</td>
<td>Student5</td>
<td>9</td>
<td>24</td>
<td>no data</td>
<td>D</td>
<td>no data</td>
<td>no data</td>
<td>F</td>
<td>no data</td>
<td>no data</td>
<td>1</td>
</tr>
</tbody>
</table>
## Ninth Grade Sample Report

| SCHOOL NAME | Pupil L# | 9th Grade Entry Date | BIRTH DATE | STUDENT Name | SIXth Grd ABS | SEVN Grd ABS | EIGHT Grd ABS | SIXth Grd ENGL | SEVN Grd ENGL | EIGHT Grd ENGL | SIXth Grd MATH | SEVN Grd MATH | EIGHT Grd MATH | RISK |
|-------------|---------|----------------------|------------|--------------|---------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------|
| NC WISE HS  | 6       | 7/1/2010 8/18/1995   | Student6   | 3            | 5             | 5            | C+           | D             | F             | C             | F             | D             | 0.44          |
| NC WISE HS  | 7       | 7/1/2011 3/20/1996   | Student7   | 1            | 4             | 13           | A            | C-            | B-            | A             | C-            | C             | 0.33          |
| NC WISE HS  | 8       | 7/1/2010 2/20/1995   | Student8   | 5            | 9             | 13           | C-           | B-            | F             | C+            | B-            | D             | 0.56          |
| NC WISE HS  | 9       | 7/1/2011 8/23/1996   | Student9   | 7            | 6             | 6            | A            | C             | D             | C             | C             | C             | 0.44          |
| NC WISE HS  | 10      | 7/1/2011 2/18/1996   | Student1   | 0            | no data       | 9            | no data      | 94            | 92            | no data       | 94            | 92            | 0.33          |
Example: Student #1

- Rising ninth grader
  - 2 absences in sixth grade
  - 8 absences in seventh grade - risk factor
  - 5 absences in eighth grade
  - Sixth grade English final mark is “C+”
  - Seventh grade English final mark is “D” - risk factor
  - Eighth grade English final mark is “F” - risk factor
  - Sixth grade math final mark is “D-” – risk factor
  - Seventh grade math final mark is “F” – risk factor
  - Eighth grade math final mark is “D” – risk factor

- RISK FACTOR is 67% (6 of 9 factors qualify as risks)
The NC WISE reports to be used in the Graduation Resiliency process are called the “Early Warning Reports”.

- 9th Grade Dropout Early Warning Report
- 10th Grade Dropout Early Warning Report
- 11th Grade Dropout Early Warning Report
- 12th Grade Dropout Early Warning Report
Contacts

• Debora Williams, Special Assistant Graduation Initiatives
  (919) 807-3912
debora.williams@dpi.nc.gov

• Betsy Baugess, Manager Data/Software & Reporting
  (919) 807-3276
betsy.baugess@dpi.nc.gov