Health Services Program Information Survey Report Concussion Analysis

August 29, 2016

Developed for:

The Connecticut State Department of Education

By

Kevin P. Glass, MSRSM, Director Margot Snellback, Research Associate Center for Program Research & Evaluation

Contact:

EdAdvance

P.O. Box 909 355 Goshen Road Litchfield, CT 06759-0909 Phone: 860-567-0863

Contact:

Connecticut State Department of Education

Stephanie G. Knutson, Education Consultant
Bureau of Health/Nutrition, Family Services and Adult Education
Connecticut State Department of Education
25 Industrial Park Road
Middletown, CT 06457

Phone: 860-807-2108

I. Introduction

The Connecticut State Department of Education (CSDE), as part of its ongoing efforts to support and expand school health services provided to Connecticut students, has surveyed District Nursing Coordinators since 2004. As one component of these ongoing efforts, the CSDE commissioned the Center for Program Research & Evaluation (CPRE) at EdAdvance (formerly EDUCATION CONNECTION) to develop and update an online survey to collect information regarding the status of school health services from school districts throughout Connecticut. The objective of the survey has been to assist the CSDE in understanding the status and needs of school health services in individual school districts. The data gathered in this survey has been instrumental in shedding light on the ever-changing nature of school health services.

Prior to the 2014-2015 school year, and in concert with *Public Act No. 14-66*, the CSDE and CPRE worked together to add questions to the School Health Services Survey to collect information on the nature, extent, and circumstances of student concussions. Data was gathered for the 2014-2015 school year. During the Summer of 2015, the CSDE and CPRE continued to improve the Survey and the manner in which the data was collected. What follows is an analysis of the data collected for the 2015-2016 School Year.

II. Executive Summary

During the winter of 2015-2016 an email was sent out to each of the state's school districts with instructions on how to complete the School Health Services Survey. The districts were asked to work with their District Nursing Coordinators to gather and report the data required within the survey. In the email correspondence (Appendix A), it was made clear that while a majority of the survey was voluntary, the questions related to concussions were **mandatory** (Appendix B).

Of the 197 School Districts in Connecticut (Appendix C), 168 School Districts (85.3%) completed the concussion section of the survey. For the schools that completed the concussion questions in 2015-2016 there were <u>7,075</u> diagnosed concussions. The greatest occurrences of concussions occurred during "Interscholastic Athletic Activities" followed closely by "Outside of School" and "Non-School Sports Related" activities. As a result of the diagnosed concussions reported, there were over 13,000 accommodations made by school districts. A majority of students with reported diagnosed concussions (69.8%) missed less than 5 school days because of the concussion while a relatively small percentage (1.4%) missed more than 20 school days.

III. Results of Concussion Questions

The concussion section of the School Health Services Survey consisted of six mandatory questions. The survey was designed to prevent respondents from moving on to other parts of the survey or submitting the survey unless these questions had been answered. The concussion questions, along with the identifying demographic questions, were the only mandated questions on the survey. What follows are the descriptive statistics and synopsis of those questions.

The TOTAL number of students diagnosed with concussion during 2015-2016 school year = 7,075. The mean number of concussions per district was 42.1. This was an increase from the 2014-2015 mean of 39.9 diagnosed concussions per district. The Fairfield School District was the only district that reported a number (318) that could be considered an outlier. The next highest reported number of concussions were by Trumbull and West Hartford, both reporting 188 concussions.

The number of FEMALE students diagnosed with a concussion during the 2015-2016 school year:

| Grade | # of Diagnosed Concussions | |
|------------------------|----------------------------|--|
| Pre-K | 9 | |
| Kindergarten | 16 | |
| 1st Grade | 22 | |
| 2 nd Grade | 42 | |
| 3 rd Grade | 63 | |
| 4 th Grade | 103 | |
| 5 th Grade | 156 | |
| 6 th Grade | 219 | |
| 7 th Grade | 350 | |
| 8 th Grade | 433 | |
| 9 th Grade | 645 | |
| 10 th Grade | 601 | |
| 11 th Grade | 503 | |
| 12 Grade | 389 | |
| Total | 3,551 | |

| Grade | # of Diagnosed Concussions |
|------------------------|----------------------------|
| Pre-K | 5 |
| Kindergarten | 13 |
| 1st Grade | 38 |
| 2 nd Grade | 64 |
| 3 rd Grade | 117 |
| 4 th Grade | 187 |
| 5 th Grade | 267 |
| 6 th Grade | 302 |
| 7 th Grade | 353 |
| 8 th Grade | 443 |
| 9 th Grade | 585 |
| 10 th Grade | 487 |
| 11 th Grade | 424 |
| 12 th Grade | 360 |
| Total | 3,645 |

There were no statistically significant differences for concussion rates between female and male students. Interestingly, however, rates increased for both genders and peaked at the 9th grade and declined thereafter.

The number of diagnosed concussion occurrences during the following categories:

| Activities | # of Diagnosed Concussions | % of Diagnosed Concussions |
|--|-------------------------------|-------------------------------|
| Physical Education Class | 545 | 7.8 |
| School Recess | 268 | 3.8 |
| School Athletics-Intramural | 142 | 2.0 |
| School Athletics-Interscholastic | 2,231 | 32.0 |
| Any other school sponsored activities | 262 | 3.8 |
| Non-school sports Related (i.e. Local Town | 1,221 | 17.5 |
| Recreational Sports) | | |
| Outside of school - Other | 1,791 | 25.7 |
| Don't know | 426 | 6.1 |
| Other | 84 | 1.2 |

The highest number of diagnosed concussions occurred during Athletic Activities, both Interscholastic (32.0%) and Non-School Sports Related (17.5%). The number of concussion that occurred Outside of School accounted for 25.7% of the total concussions reported.

Of students diagnosed with concussions during the 2015-16 school year, number requiring the following accommodations:

| Accommodations | # of Accommodations Required |
|----------------------------------|------------------------------|
| Individual Health Care Plan | 2,070 |
| Section 504 Plan | 395 |
| Academic Accommodations | 4,719 |
| Physical Activity Accommodations | 5,675 |
| Homebound Instruction | 79 |
| No accommodations required | 538 |

The number of accommodations required were greater than the total number of concussions as many diagnosed concussions required more than one type of accommodation. "Physical Activity Accommodations" and "Academic Accommodations" represent the largest number of interventions required. There were 79 incidences of "Homebound Instruction" required due to a diagnosed concussion.

Of concussions diagnosed during school year 2015-16, the (mean) average length of time (in days) that accommodations were needed:

| Accommodations | Average Length of Time (Days) Accommodations Were Needed |
|----------------------------------|--|
| Individual Health Care Plan | 17.7 |
| Section 504 Plan | 41.5 |
| Academic Accommodations | 26.3 |
| Physical Activity Accommodations | 23.8 |
| Homebound Instruction | 9.1 |

The average length of the "Physical Activity Accommodation" was 23.8 days while the average "Academic Accommodation" was 26.3 days. The average "Homebound Instruction" accommodation lasted 9.1 days.

The number of students who missed school days due to concussions during the 2015-16 school year, for each category below:

| School Days Missed | # of Students |
|------------------------------|---------------|
| Less than 5 school days | 4,336 |
| 5 to 10 school days | 1,030 |
| 11 - 15 school days | 142 |
| 16 - 20 school days | 77 |
| 21 - 60 school days | 64 |
| 61 - 120 school days | 21 |
| Greater than 120 school days | 3 |
| Don't know | 540 |
| Total | 6,213 |

A vast majority (69.8%) of students diagnosed with a concussion missed less than 5 school days. 16.6% of students missed between 5 and 10 days of school while 1.4% of students missed more than 20 days of school.

IV. Demographics of Survey Respondents

| District Reference Group | Number of Districts Responding | Percent |
|---------------------------------|---------------------------------------|---------|
| A | 10 | 6.0 |
| В | 21 | 12.5 |
| С | 27 | 16.1 |
| D | 28 | 16.7 |
| Е | 28 | 16.7 |
| F | 14 | 8.3 |
| G | 19 | 11.3 |
| Н | 10 | 6.0 |
| I | 11 | 6.5 |
| Total | 168 | 100.0 |

| Type of District Number of Districts Responding | | Percent |
|---|-----|---------|
| Urban | 24 | 14.3 |
| Suburban | 92 | 54.8 |
| Rural | 52 | 31.0 |
| Total | 168 | 100.0 |

| | Number of Districts Responding | Percent |
|-------------------------------------|--------------------------------|---------|
| Public School District | 160 | 95.2 |
| Charter School | 7 | 4.2 |
| Regional Educational Service Center | 1 | .6 |
| Total | 168 | 100.0 |

V. Data Limitations

With great effort from the District Nurse Supervisors and the CSDE, 85.3% of the school districts completed the concussion portion of the School Health Services Survey. While this is an improvement on previous year's data collection, it is still short of the 100% that should be completing these state mandated questions. The concussion portion of the School Health Services Survey were introduced in the 2014-2015 school year, they were changed significantly this year. Comparisons between the data collected between the two years of implementation are inappropriate except at the most basic level. Additionally, there seems to be a level of difficulty in completing the survey at some of the school districts. For example, the total number of diagnosed concussions is the first required question in the survey. The instructions for the following questions remind respondents that the numbers entered must add up to the number of diagnosed concussions entered in the first question. In many cases, this was not the case. This disconnect makes the analysis of the questions somewhat difficult. Another issue in reporting was that some districts may have misinterpreted the question asking for the

average amount of time an accommodation was needed. Several school districts entered numbers much greater than 180 days, which is not possible.

VI. Conclusions and Recommendations

The School Health Services Survey contained questions on student concussions in 2014-2015 for the first time. Those questions were constructed with cooperation between the Connecticut State Department of Education and the Center for Program Research & Evaluation at EdAdvance. As with all surveys, the usefulness of the results is dependent upon response rate. In 2015-2016, a significantly higher number (168) of school districts reported total numbers of concussions (7,075). It is impossible to tell if the higher number reported this year is a trend towards actually increased numbers of diagnosed concussions or a result of greater data tracking and reporting. Additional efforts need to be made in subsequent years to ensure 100% data collection. Districts also need to be trained in how to track and report concussion data accurately. If these efforts continue, comparisons between school years for concussion data will be appropriate and useful.



STATE OF CONNECTICUT

DEPARTMENT OF EDUCATION



TO: School Nurse Supervisors

FROM: Stephanie

Knutson, MSN, RN Education Consultant

DATE: April 13, 2016

SUBJECT: 2015-16 School Health Services Program Information Survey

Thank you for your efforts last year with the *Health Services Program Information Survey* (*Survey*). A copy of the report along with the 2004-15 Summary Highlights Report is available on the Connecticut State Department of Education's (CSDE) Health Promotion Services/School Nurse Web site at www.ct.gov/sde/schoolnurse.

Public Act No. 14-66, *An Act Concerning Youth Athletics and Concussions* requires that for the school year commencing July 1, 2014, and annually thereafter, the State Board of Education shall require all local and regional school districts to collect and report all occurrences of concussions to the board. Each report shall contain, if known: (1) the nature and extent of the concussion, and (2) the circumstances in which the student sustained the concussion. For the school year commencing July 1, 2015, and each school year thereafter, the State Board of Education shall send a concussion report to the Department of Public Health containing all of the information received. In addition, not later than October 1, 2015, and

annually thereafter, the Commissioner of Public Health shall report to the joint standing committees of the General Assembly the findings of the concussion report provided to the department.

In response to this new reporting requirement, the CSDE has incorporated concussion questions into the existing CSDE *Survey* that is completed annually by school nurses and school nurse supervisors throughout the state since 2004. While the full completion of the *Survey* is not mandatory, **questions 8 through 13 must be completed by all local and regional school districts** in order to comply with the concussion reporting requirements of Public Act No. 14-66. Over the past twelve-year period, response rates of Connecticut school districts have ranged from 61 to 89 percent, providing valuable data that assists local and regional boards of education and state agencies with information on the health status of students. We therefore encourage completion of the entire survey.

All Surveys MUST be completed by June 15, 2016, to allow adequate time for data analysis.

All information needed to complete the *Survey* may be found on the EDUCATION CONNECTION Web site at www.educationconnection.org. On the homepage near the top of the page you will see a list of links.

The last link in the row is titled, "School Services". Please click on that link. On the left side of the next page you will see a list of links. Click on the third link down in the list, "The Center for Program Research & Evaluation (CPRE)". On the next page, the link below CPRE is the link for "State Department of Education Health Services Survey". Please click on that link to enter the "SDE Health Services Survey" Web page.

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On that Web page, you will see instructions to complete the survey/questionnaire, a sample form for data collection by school nurses at the building level, and reports from the last years of data collection including the summary reports tracking trends over time. A list of all school districts in Connecticut and their school codes is also posted for your convenience.

Each School Nurse Coordinator/Supervisor will need to gather some of the data from each building and compile the information. As the coordinator/supervisor, you will be entering only the totals for your district into the *Survey*. Only one survey per school district is accepted by the Survey Administrator.

Please feel free to contact me at 860-807-2108 or stephanie.knutson@ct.gov if you have any questions.

SGK:sk

| I. Demographic Information | | | |
|--|--|--|--|
| | | | |
| * 1. Please type the name of your school district below. | | | |
| | | | |
| * 2. Please select the letter representing the <u>District Reference Group (DRG)</u> of your school district. | | | |
| * 3. My district is considered to be: | | | |
| Urban Suburban Rural | | | |
| * 4. My district is a: | | | |
| | | | |
| * 5. Please type the <u>identification number</u> of your school district below. (The ID is the three digit number to the left of the district name. Click highlighted text for school district list.) | | | |
| * 6. Email address of the individual completing this questionnaire. | | | |
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| * 7. Does your district provide health services to private, non-profit schools? | | | |
| Yes No | | | |
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| II. Student Health - Concussions | | | | |
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| Pursuant to Public Act 14-66 all school districts are mandated to collect and report all occurrences of concussions. Questions 8-13 therefore, must be completed. | | | | |
| * 8. In your district, how | * 8. In your district, how many students were diagnosed with concussions during the 2015-2016 school year? | | | |
| * 9a. In your district, ho school year in the foll | ow many FEMALE students were diagnosed with a conc owing grades? | ussion during the 2015-2016 | | |
| Pre-Kindergarten | | | | |
| Kindergarten | | | | |
| 1st Grade | | | | |
| 2nd Grade | | | | |
| 3rd Grade | | | | |
| 4th Grade | | | | |
| 5th Grade | | | | |
| 6th Grade | | | | |
| 7th Grade | | | | |
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| * 9b. In your district, how many MALE students were diagnosed with a concussion during the 2015-2016 | | | |
|---|----|--|--|
| school year in the following grades? (Sum of all responses in questions 9a and 9b should equal number | | | |
| provided in question | 8) | | |
| Pre-Kindergartenin | | | |
| Kindergarten | | | |
| 1st Grade | | | |
| 2nd Grade | | | |
| 3rd Grade | | | |
| 4th Grade | | | |
| 5th Grade | | | |
| 6th Grade | | | |
| 7th Grade | | | |
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| * 10. Of the diagnosed concussions that occurred during | the 2015-2016 school year, |
|---|-----------------------------|
| please provide the number of occurrences during the c | ategories indicated below: |
| (Sum of all choices in question 10 should match the nu | |
| | mass promuse in quosion or, |
| Physical Education Class | |
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| | |
| School Recess | |
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| | |
| School Athletics - Intramural | |
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| Och cal Athletica Intercelelectic | • |
| School Athletics - Interscholastic | |
| | |
| | |
| Any Other School Sponsored Activities | |
| | |
| | |
| Non-School Sports Related (i.e. Local Town | |
| Recreational Sports) | |
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| | |
| Outside of School - Other | |
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| | |
| Don't Know | |
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| | |
| Other | |
| Citici | |
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| If a number was entered for "Other" please describe | |
| cause | |
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|--|--------------------|---|------------|-------------|--------|
| Individual Health Care Plan | | | | | |
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| Section 504 Plan | | | | | |
| | | | | | |
| Academic Accommodations | | | | | |
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| Physical Activity Accommodations | · | | | | |
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| Homebound Instruction | | | | | |
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| No accommodations required | | | | | |
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| AVERAGE length of time (i | | | known, ple | ease provid | de the |
| AVERAGE length of time (i | | | known, ple | ease provid | de the |
| AVERAGE length of time (individual Health Care Plan Section 504 Plan | | | known, ple | ease provid | de the |
| AVERAGE length of time (individual Health Care Plan Section 504 Plan | | | known, ple | ease provid | de the |
| AVERAGE length of time (individual Health Care Plan Section 504 Plan Academic Accommodations | n days) the accomi | | known, ple | ease provid | de the |
| AVERAGE length of time (individual Health Care Plan Section 504 Plan Academic Accommodations | n days) the accomi | | known, ple | ease provid | de the |
| AVERAGE length of time (individual Health Care Plan Section 504 Plan Academic Accommodations Physical Activity Accommodations | n days) the accomi | | known, ple | ease provid | de the |
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| AVERAGE length of time (individual Health Care Plan Section 504 Plan Academic Accommodations Physical Activity Accommodations Homebound Instruction | n days) the accomi | | known, ple | ease provid | de the |
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| AVERAGE length of time (individual Health Care Plan Section 504 Plan Academic Accommodations Physical Activity Accommodations Homebound Instruction | n days) the accomi | | known, ple | ease provid | de the |
| 12. Of the diagnosed concu AVERAGE length of time (individual Health Care Plan) Section 504 Plan Academic Accommodations Physical Activity Accommodations Homebound Instruction | n days) the accomi | | known, ple | ease provid | de the |
| AVERAGE length of time (individual Health Care Plan Section 504 Plan Academic Accommodations Physical Activity Accommodations Homebound Instruction | n days) the accomi | | known, ple | ease provid | de the |

| 13. If known, please provide the number of students when the 2015-2016 school year, for each category listed belongers. | |
|---|-----|
| Less than 5 school days | ow. |
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| 5 to 10 school days | |
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| 11 to 15 school days | |
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| 16 to 20 school days | |
| 24 to 60 cebeel down | |
| 21 to 60 school days | |
| 61 to 120 school days | |
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| Greater than 120 school days | |
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| Don't Know | |
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Appendix C: Applicable School Districts in Connecticut

| Achievement First Hartford Academy Inc. District |
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| Amistad Academy District |
| Andover School District |
| Ansonia School District |
| Ashford School District |
| Avon School District |
| Barkhamsted School District |
| Berlin School District |
| Bethany School District |
| Bethel School District |
| Bloomfield School District |
| Bolton School District |
| Booker T. Washington Academy District |
| Bozrah School District |
| Branford School District |
| Brass City Charter School District |
| Bridgeport Achievement First District |
| Bridgeport School District |
| Bristol School District |
| Brookfield School District |
| Brooklyn School District |
| Canaan School District |
| Canterbury School District |
| Canton School District |
| Capital Preparatory Harbor School Inc. District |
| Chaplin School District |
| Cheshire School District |
| Chester School District |
| Clinton School District |
| Colchester School District |
| Colebrook School District |
| Columbia School District |
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| Common Ground High School District |
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| Connecticut Technical High School System |
| Cornwall School District |
| Coventry School District |
| Cromwell School District |
| Danbury School District |
| Darien School District |
| Deep River School District |
| Derby School District |
| East Granby School District |
| East Haddam School District |
| East Hampton School District |
| East Hartford School District |
| East Haven School District |
| East Lyme School District |
| East Windsor School District |
| Eastern Connecticut Regional Educational Service Center (EASTCONN) Eastford School District |
| Easton School District |
| Ellington School District |
| Elm City College Preparatory School District |
| Elm City Montessori School District |
| Enfield School District |
| Essex School District |
| Explorations District |
| Fairfield School District |
| Farmington School District |
| Franklin School District |
| Glastonbury School District |
| Goodwin College |
| Granby School District |
| Great Oaks Charter School District |
| Greenwich School District |

| Griswold School District |
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| Groton School District |
| Guilford School District |
| Hamden School District |
| Hampton School District |
| Hartford School District |
| Hartland School District |
| Hebron School District |
| Highville Charter School District |
| Integrated Day Charter School District |
| Interdistrict School for Arts and Comm District |
| Jumoke Academy District |
| Kent School District |
| Killingly School District |
| Lebanon School District |
| Ledyard School District |
| Lisbon School District |
| Litchfield School District |
| Madison School District |
| Manchester School District |
| Mansfield School District |
| Marlborough School District |
| Meriden School District |
| Middletown School District |
| Milford School District |
| Monroe School District |
| Montville School District |
| Naugatuck School District |
| New Beginnings Inc., Family Academy District |
| New Britain School District |
| New Canaan School District |
| New Fairfield School District |
| New Hartford School District |

| New Haven School District |
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| New London School District |
| New Milford School District |
| Newington School District |
| Newtown School District |
| Norfolk School District |
| North Branford School District |
| North Canaan School District |
| North Haven School District |
| North Stonington School District |
| Norwalk School District |
| Norwich Free Academy District |
| Norwich School District |
| Odyssey Community School District |
| Old Saybrook School District |
| Orange School District |
| Oxford School District |
| Park City Prep Charter School District |
| Path Academy District |
| Plainfield School District |
| Plainville School District |
| Plymouth School District |
| Pomfret School District |
| Portland School District |
| Preston School District |
| Putnam School District |
| Redding School District |
| Regional School District 01 |
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| Regional School District 14 |
| Regional School District 15 |
| Regional School District 16 |
| Regional School District 17 |
| Regional School District 18 |
| Regional School District 19 |
| Ridgefield School District |
| Rocky Hill School District |
| Salem School District |
| Salisbury School District |
| Scotland School District |
| Seymour School District |
| Sharon School District |
| Shelton School District |
| Sherman School District |
| Side By Side Charter School District |
| Simsbury School District |
| Somers School District |
| South Windsor School District |
| Southington School District |
| Sprague School District |
| Stafford School District |
| Stamford Academy District |
| Stamford Charter School for Excellence District |
| Stamford School District |
| Sterling School District |
| Stonington School District |
| Stratford School District |

| Suffield School District |
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| The Bridge Academy District |
| The Gilbert School District |
| Thomaston School District |
| Thompson School District |
| Tolland School District |
| Torrington School District |
| Trailblazers Academy District |
| Trumbull School District |
| Union School District |
| Vernon School District |
| Voluntown School District |
| Wallingford School District |
| Waterbury School District |
| Waterford School District |
| Watertown School District |
| West Hartford School District |
| West Haven School District |
| Westbrook School District |
| Weston School District |
| Westport School District |
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| Willington School District |
| Wilton School District |
| Winchester School District |
| Windham School District |
| Windsor Locks School District |
| Windsor School District |
| Wolcott School District |
| Woodbridge School District |
| Woodstock Academy District |
| Woodstock School District |