

2023 MS YRBS State and District Combined Datasets User's Guide

October 2024

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Introduction

Purpose

The MS YRBS Combined Datasets contain data from middle school YRBS surveys conducted from 1995-2023 in multiple states and districts from 1995 - 2023. The purpose of the MS Combined Datasets is to facilitate MS YRBS data analyses that require middle school data from multiple years and/or multiple surveys.

Contents

This documentation contains the following sections:

- Introduction
- Surveys Included in the MS Combined Datasets
- Variables Included in the MS Combined Datasets
- Analytic Considerations
- Appendix A: Record Counts by Survey and Year
- Appendix B: 2023 Questionnaire Variable Specifications
- Appendix C: 2023 Supplemental Variable Specifications

Note: This document contains information specific to the MS Combined Datasets. Information on general MS YRBS data processing and data editing procedures are not included. When needed, references to other MS YRBS technical documents are provided.

Background

The MS YRBS Combined Datasets include MS YRBS survey data from the majority of weighted state and large urban school district middle school surveys conducted from 1995 to 2023.

Reasons to combine MS YRBS datasets include:

- to increase analytic sample size
- to increase the represented area or population (i.e., a region of the country)
- to identify changes in prevalence of a behavior across time (i.e., trend analysis)

The MS Combined Datasets provide several advantages to analysts:

• The variables in the MS Combined Datasets have been standardized across survey years. The variable Q27, for instance, means the same thing across all years of data. Analysts do not have to crosswalk the questionnaires and variables across multiple survey years themselves.

 The MS Combined Datasets contain results from multiple state and district surveys. Analysts do not have to get individual files from individual surveys and combine them.

Limitations to consider include:

- Not all middle school surveys are in the dataset. State and district YRBS datasets are owned and controlled by the health and education agencies that conducted the surveys. Some of these agencies did not give CDC permission to include their middle school data in the MS Combined Datasets. Therefore, some analyses conducted using the MS Combined Datasets may produce results that do not match middle school results previously published by CDC. Refer to the "YRBSS Participation History & Data Quality" table on the "YRBSS Participation Maps & History" page at www.cdc.gov/yrbss for more information about surveys conducted and data availability.
- The MS Combined Datasets are based on the 2023 MS YRBS standard questionnaire and include data from selected optional YRBS questions. Datasets from earlier years will have more missing data because questionnaires from earlier years did not include the same middle school standard questions as the 2023 middle school questionnaire did.
- Many state and district middle school surveys do not include all of the 2023 standard MS YRBS questions. Some surveys delete some standard questions from their questionnaires. Data will be missing from some surveys for some variables due to these deletions. Many state and district surveys do not include all the standard questions in their questionnaires. Most standard questions are asked but some data will be missing from some state and local surveys.

Data File Structure

The datasets are split into three groups due to large file sizes. The split files make it easier to download just the file(s) of interest. The datasets are split as follows:

- 1. Data from states with names beginning with A through M
- 2. Data from states with names beginning with N through Z
- 3. District data

Data for each group are provided in Microsoft Access and ASCII data formats. The Microsoft Access files are posted as zip files to make downloading them easier. The ASCII files can be read by common statistical packages. Programs to read the data in SAS and SPSS are posted on the website. A program to create a SAS format library is also posted on the website.

Refer to the "Data & Documentation" page at www.cdc.gov/yrbss for details about file names, downloading the data, and how to use the SAS and SPSS programs.

Other Resources

Readers unfamiliar with YRBS data should review:

- the latest data documentation,
- YRBS Questionnaire Content,
- Methodology of the Youth Risk Behavior Surveillance System—2013,
- Software for Analysis of YRBS Data,
- Interpretation of YRBS Trend Data,
- Conducting Trend Analyses of YRBS Data,
- Combining YRBS Data Across Years and Sites
- How to Analyze YRBS Sexual Minority Data, and
- the Frequently Asked Questions page on the YRBS website.

Note: This document is not intended to teach statistical methods or inference techniques and assumes the reader is familiar with the concepts referenced, for example, weighting methods, analysis of complex survey data, data management, and statistical software and programming for analyzing MS YRBS data.

Surveys Included in the MS Combined Datasets

Data Inclusion Criteria

State and district surveys are included in the Combined Datasets if:

- they were conducted between 1995 and 2023,
- they were a middle school survey,
- the data were weighted, and
- the state or district health or education agency conducting the survey gave CDC permission to include the data in the MS Combined Datasets.

Note: The state and district health and education agencies that conduct an MS YRBS survey with technical and financial assistance from CDC own and control access to their MS data. Some sites of these agencies did not grant CDC permission to include their MS data in the MS Combined Datasets.

Refer to the "Participation History & Data Quality" table on the "Participation Maps & History" page at www.cdc.gov/yrbss for more information about middle school surveys conducted and data availability.

Survey Inclusion by Year

Refer to Appendix A for the number of records available by survey and by year.

No records in a given year means that:

- the survey was not conducted in that year or
- the survey was conducted but the response rate was not sufficient to allow the data to be weighted or
- the survey was conducted in the 2023 survey cycle but the response rate was less than 60% and nonresponse bias analysis results suggested that data were not representative of their respective population

Variables Included in the MS Combined Datasets

Categories of Variables Included

Four kinds of variables are included in the MS Combined Datasets:

- Sample variables
- Demographic variables
- 2023 questionnaire variables, and
- 2023 supplemental variables.

Some surveys delete some MS standard questions from their MS questionnaires. Data will be missing from some surveys for some variables due to these deletions. Many state and district surveys do not include all the standard questions in their questionnaires. Most standard questions are asked but some MS data will be missing from some state and local surveys.

The MS combined datasets include 2023 data and data from previous years that map to 2023 MS questions. Datasets from earlier years will have more missing data because questionnaires from earlier years did not include the same MS standard questions as the 2023 MS questionnaire did.

Sample Variables

Sample variables identify records by survey, site type, and survey year and provide information needed to perform statistical analyses appropriately.

Variable	Description
sitecode	Two- or three-character survey site code that uniquely identifies a survey location
sitename	Name of location covered by a survey
sitetype	Type of survey site – "District" or "State"
sitetypenum	Numeric indicator of type of survey site: 1 = "District" 2 = "State"
year	4-digit year of survey – 1995, 1997, etc.
survyear	Number of year of survey: 1=1995 2=1997 3=1999, etc.
weight	Analytical weight – used in statistical analyses
stratum	Stratum – used in statistical analyses

PSU	Primary Sampling Unit (PSU) – used in statistical
	analyses

Refer to <u>Software for Analysis of YRBS Data</u> for details on using weight, stratum, and PSU correctly.

Demographic Variables

Demographic variables identify respondents by various demographic characteristics. These variables are self-reported; some respondents may not have answered the relevant question.

Variable	Description
age	Data from:
	How old are you?
	A. 10 years old or younger
	B. 11 years old
	C. 12 years old
	D. 13 years old
	E. 14 years old
	F. 15 years old
	G. 16 years old or older
sex	Data from:
	What is your sex?
	A. Female
	B. Male
grade	Data from:
	In what grade are you?
	A. 6th grade
	B. 7th grade
	C. 8th grade
	D. Ungraded or other grade
race4	4-level variable from race and ethnicity questions:
	1 = "White"
	2 = "Black or African American"
	3 = "Hispanic/Latino"
	4 = "All Other Races"

race7	7-level variable from race and ethnicity questions:
	1 = "American Indian/Alaska Native" 2 = "Asian" 3 = "Black or African American" 4 = "Hispanic/Latino" 5 = "Native Hawaiian/Other Pacific Islander" 6 = "White" 7 = "Multiple Races (Non-Hispanic)"

Race and ethnicity questions have changed over time. Race4 and race7 are coded to bridge over these changes to provide a 4- or 7-level indicator appropriate for all years.

Refer to <u>YRBS Questionnaire Content</u> for information about specific questions asked in a given year.

Refer to the <u>2023 YRBS Data User's Guide</u> for details on how race/ethnicity variables are edited and calculated.

2023 Questionnaire Variables

2023 questionnaire variables in original and dichotomized versions.

Variable	Description
q6-q48	Original data from questions 6 through 48 on the 2023 YRBS standard questionnaire. They are named with a "q" followed by the question number.
qn6-qn48	Dichotomized versions of questions 6 through 48. They are named with a "qn" followed by the question number. The dichotomous variables are set to "1" when the student responds with an answer that is in the response(s) of interest (ROI). Students that respond otherwise are set to "2." Dichotomized variables help analysts easily analyze risk behaviors in a way that reflects terms of broad interest.

Refer to Appendix B for detailed specifications on the questionnaire variables, what each dichotomous variable represents, and how they are calculated.

Refer to the <u>2023 YRBS Data User's Guide</u> for more explanation of dichotomous variables.

2023 Supplemental Variables

Supplemental variables calculated from the 2023 questionnaire. Supplemental dichotomous variables (coded as 1 or 2) of broad interest. They are named with a "qn" followed by a word that indicates the content of the variable. Supplemental variables are calculated based on data from one or sometimes more than one question.

Variable	Description/Variable Label
qnfreig	Currently smoked cigarettes frequently
qndaycig	Currently smoked cigarettes daily
qnfrevp	Currently used electronic vapor products frequently
qndayevp	Currently used electronic vapor products daily
qnfrskl	Currently used smokeless tobacco frequently
qndayskl	Currently used smokeless tobacco daily
qnfrcgr	Currently smoked cigars frequently
qndaycgr	Currently smoked cigars daily
qntb2	Currently smoked cigarettes or cigars
qntb3	Currently smoked cigarettes or cigars or used smokeless tobacco
qntb4	Currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor products
qntb5	Currently smoked cigarettes or used electronic vapor products
qnbk7day	Ate breakfast on all 7 days
qnpa0day	Did not participate in at least 60 minutes of physical activity on at least 1 day
qnpa7day	Were physically active at least 60 minutes per day on all 7 days
qndlype	Attended physical education (PE) classes on all 5 days

Refer to Appendix C for detailed specifications about what each supplemental variable represents and how it is calculated.

Refer to the <u>2023 YRBS Data User's Guide</u> for more explanation of supplemental variables.

Analytic Considerations

Introduction

Important analytic considerations include

- Software requirements
- Minimum cell size
- Combining state and district datasets

Software Requirements

The YRBS uses a multi-stage cluster sample design. Statistical software used to analyze YRBS data should account for this design. Many packages with this capability are available.

Refer to <u>Software for Analysis of YRBS Data</u> for more information on five statistical packages (SUDAAN, SAS, STATA, SPSS, and Epi Info) that can be used to analyze the YRBS.

Minimum Cell Size

Since 2021, CDC analyses of YRBS data have changed to use 30 as the minimum cell denominator along with non-response bias analysis.

Note: This refers to the denominator, not numerator. It is possible to have numerators of 0; these are reported as 0% with no confidence intervals.

Combining State and District Datasets

Generally, as long as there is a sufficient number of records, it is recommended that state data be combined only with other states and that districts be combined only with other districts.

It is not recommended to combine state data and district data because of possible overlap between the two and because state data contains both urban and rural students while district data contains only urban students.

Refer to <u>Combining YRBS Data Across Years and Sites</u> ??? for more information about combining YRBS datasets.

Appendix A: Record Counts by Survey and Year

Appendix A Appendix A contains number of records available by survey and by year. State and district MS YRBS data come from separate scientific samples of middle schools and students.

	Number of Records by State and Year of Survey															
Survey Site								Year of	f Survey							
Name (Sitecode)	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	2023	Total
Alabama (AL)	0	0	2,157	1,407	1,179	0	0	1,027	0	0	0	0	0	0	0	5,770
Colorado (CO)	0	0	0	0	0	0	0	0	1,614	1,572	0	0	0	0	0	3,186
Florida (FL)	0	0	0	0	0	0	0	0	0	6,738	5,886	6,026	5,177	4,961	0	28,788
Hawaii (HI)	0	1,450	1,394	1,495	7,709	0	1,231	1,611	5,109	5,036	6,374	6,418	6,591	5,458	5,257	55,133
Kentucky (KY)	0	0	0	0	0	0	0	1,800	2,027	1,702	1,640	1,404	1,663	1,367	1,481	13,084
Mississippi (MS)	0	0	0	1,580	1,510	0	0	1,522	1,557	0	0	0	0	0	0	6,169
Missouri (MO)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	584	584
Nebraska (NE)	1,363	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,363
Nevada (NV)	0	0	0	0	0	0	1,767	2,467	0	0	0	1,550	0	0	0	5,784
New Mexico (NM)	0	0	0	0	0	0	0	5,303	3,851	5,110	3,120	6,820	4,841	3,326	4,674	37,045
North Carolina (NC)	2,227	0	0	2,197	0	0	3,256	0	1,937	1,410	0	2,524	2,751	1,098	1,254	18,654
North Dakota (ND)	836	0	1,666	1,377	1,818	1,239	2,091	2,144	2,141	2,132	2,047	2,381	2,346	2,207	2,360	26,785
Pennsylvania (PA)	0	0	0	0	0	0	0	0	0	0	0	0	2,497	0	0	2,497
South Carolina (SC)	0	0	0	0	0	1,383	1,394	1,325	1,475	1,540	0	0	0	0	0	7,117
Tennessee (TN)	0	0	0	0	0	0	0	0	0	5,589	0	0	0	0	0	5,589
Vermont (VT)	0	0	0	0	0	0	0	0	3,278	3,106	13,648	13,887	13,998	12,136	12,367	72,420
Virginia (VA)	0	0	0	0	0	0	0	0	0	8,211	2,246	2,574	2,525	1,505	1,126	18,187
Wyoming (WY)	0	0	0	2,740	1,945	2,906	2,886	3,015	2,279	2,702	0	0	0	0	0	18,473
Total	4,426	1,450	5,217	10,796	14,161	5,528	12,625	20,214	25,268	44,848	34,961	43,584	42,389	32,058	29,103	326,628

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Number of Records by District and Year of Survey																
Survey Site Name (Sitecode)		Year of Survey														
Survey Site Ivaille (Sitecode)	1995	1997	1999	2001	2003	2005	2007	2009	2011	2013	2015	2017	2019	2021	2023	Total
Albuquerque, NM (AB)	0	0	0	0	0	0	0	0	0	0	0	0	6,826	5,498	5,753	18,077
Broward County, FL (FT)	0	0	0	0	0	0	0	0	0	1,496	1,511	1,446	1,428	963	0	6,844
Charlotte-Mecklenburg County, NC (CM)	0	0	0	0	0	0	1,632	2,791	1,591	1,606	0	0	0	0	0	7,620
Chicago, IL (CH)	1,443	0	0	0	0	0	0	1,459	1,455	1,302	0	0	1,724	1,592	1,406	10,381
Dallas, TX (DA)	0	0	1,258	1,555	1,664	1,367	1,121	0	1,134	0	0	0	0	0	0	8,099
Duval County, FL (DU)	0	0	0	0	0	0	0	3,138	4,513	4,832	4,533	4,576	4,585	3,481	0	29,658
Gaston County, NC (GS)	0	0	0	0	0	0	0	0	0	0	0	0	1,456	1,203	1,274	3,933
Los Angeles, CA (LO)	0	0	0	0	0	0	0	0	1,320	1,504	1,333	1,587	1,577	0	1,278	8,599
Milwaukee, WI (ML)	0	0	0	1,900	1,676	2,003	2,546	2,645	2,255	1,695	0	0	0	0	0	14,720
New York City, NY (NYC)	0	0	0	0	0	0	0	0	0	0	0	0	2,287	0	2,688	4,975
Orange County, FL (OL)	0	0	0	0	0	0	0	0	1,619	1,698	1,883	1,734	1,764	1,379	0	10,077
Palm Beach County, FL (PB)	0	0	0	0	0	0	0	0	0	0	0	1,965	2,506	2,250	0	6,721
Pasco County, FL (PS)	0	0	0	0	0	0	0	0	0	0	0	0	0	1,620	0	1,620
San Bernardino, CA (SB)	0	0	0	1,721	2,026	1,079	1,468	1,382	1,127	0	0	0	0	0	0	8,803
San Diego, CA (SA)	1,302	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1,302
Total	2,745	0	1,258	5,176	5,366	4,449	6,767	11,415	15,014	14,133	9,260	11,308	24,153	17,986	12,399	141,429

Appendix B: 2023 Questionnaire Variable Specifications

Appendix B Appendix B contains q and qn specifications for question 6 through question 48 of the 2023 standard MS YRBS questionnaire.

- 6. **When you ride a bicycle,** how often do you wear a helmet?
 - A. I do not ride a bicycle
 - B. Never wear a helmet
 - C. Rarely wear a helmet
 - D. Sometimes wear a helmet
 - E. Most of the time wear a helmet
 - F. Always wear a helmet

Variable label: Bicycle helmet use

Short response:

- Did not ride a bicycle
- B. Never wear a helmet
- C. Rarely wear a helmet
- D. Sometimes wear a helmet
- E. Most of the time wear a helmet
- F. Always wear a helmet

QN6*: Numerator: Students who answered B, or C for Q6

Denominator: Students who answered B, C, D, E, or F for Q6

Summary Text: Percentage of students who rarely or never wore a bicycle helmet (among students who

rode a bicycle)

QN variable label: Rarely or never wore a bicycle helmet

- 7. **When you rollerblade or ride a skateboard**, how often do you wear a helmet?
 - A. I do not rollerblade or ride a skateboard
 - B. Never wear a helmet
 - C. Rarely wear a helmet
 - D. Sometimes wear a helmet
 - E. Most of the time wear a helmet
 - F. Always wear a helmet

Variable label: Rollerblading helmet use

Short response:

A. Do not rollerblade/skateboard

B. Never wear a helmet

C. Rarely wear a helmet

D. Sometimes wear a helmet

E. Most of the time wear a helmet

F. Always wear a helmet

QN7*: Numerator: Students who answered B or C for Q7

Denominator: Students who answered B, C, D, E, or F for Q7

Summary Text: Percentage of students who rarely or never wore a helmet when rollerblading or

skateboarding (among students who used rollerblades or rode a skateboard)

QN variable label: Rarely or never wore a helmet when rollerblading or skateboarding

8. How often do you wear a seat belt when **riding** in a car?

A. Never

B. Rarely

C. Sometimes

D. Most of the time

E. Always

Variable label: Seat belt use

QN8: Numerator: Students who answered A, B, C, or D for Q8

Denominator: Students who answered A, B, C, D, or E for Q8

Summary Text: Percentage of students who did not always wear a seat belt (when riding in a car)

QN variable label: Did not always wear a seat belt

9. Have you ever ridden in a car driven by someone who had been drinking alcohol?

A. Yes
B. No
C. Not sure

Variable label: Riding with a drinking driver

QN9: Numerator: Students who answered A for Q9

Denominator: Students who answered A, B, or C for Q9

Summary Text: Percentage of students who ever rode with a driver who had been drinking alcohol (in a

car)

QN variable label: Ever rode with a driver who had been drinking alcohol

10. Have you ever been in a physical fight?

A. Yes B. No

Variable label: Physical fighting

QN10: Numerator: Students who answered A for Q10
Denominator: Students who answered A or B for Q10

Summary Text: Percentage of students who were ever in a physical fight

QN variable label: Were ever in a physical fight

11. Have you ever seen someone get physically attacked, beaten, stabbed, or shot in your neighborhood?

A. Yes B. No

Variable label: Seen someone get physically attacked

QN11: Numerator: Students who answered A for Q11

Denominator: Students who answered A or B for Q11

Summary text: Percentage of students who ever saw someone get physically attacked, beaten, stabbed,

or shot in their neighborhood

QN variable label: Ever saw someone get physically attacked, beaten, stabbed, or shot in their

neighborhood

12. During your life, how often have you felt that you were treated badly or unfairly in school because of your race or ethnicity?

A. Never

B. RarelyC. Sometimes

D. Most of the time

E. Always

Variable label: Treated badly because of race or ethnicity

QN12: Numerator: Students who answered B, C, D, or E for Q12
Denominator: Students who answered A, B, C, D, or E for Q12

Summary text: Percentage of students who felt that they were ever treated badly or unfairly in school

because of their race or ethnicity (during their life)

QN variable label: Felt that they were ever treated badly or unfairly in school because of their race or

ethnicity

13. Have you ever been bullied **on school property**?

A. Yes B. No

Variable label: Bullying at school

QN13: Numerator: Students who answered A for Q13

Denominator: Students who answered A or B for Q13

Summary Text: Percentage of students who were ever bullied on school property

QN variable label: Were ever bullied on school property

14. Have you ever been **electronically** bullied? (Count being bullied through texting, Instagram, Facebook, or other social media.)

A. Yes B. No

Variable label: Electronic bullying

QN14: Numerator: Students who answered A for Q14
Denominator: Students who answered A or B for Q14

Summary Text: Percentage of students who were ever electronically bullied (counting being bullied

through texting, Instagram, Facebook, or other social media)

QN variable label: Were ever electronically bullied

15. Have you ever **seriously** thought about killing yourself?

A. Yes B. No

Variable label: Suicide consideration

QN15: Numerator: Students who answered A for Q15

Denominator: Students who answered A or B for Q15

Summary Text: Percentage of students who ever seriously thought about killing themselves

ON variable label: Ever seriously thought about killing themselves

16. Have you ever made a **plan** about how you would kill yourself?

A. Yes B. No

Variable label: Suicide plan

QN16: Numerator: Students who answered A for Q16
Denominator: Students who answered A or B for Q16

Summary Text: Percentage of students who ever made a plan about how they would kill themselves

QN variable label: Ever made a plan about how they would kill themselves

17. Have you ever **tried** to kill yourself?

A. Yes B. No

Variable label: Attempted suicide

QN17: Numerator: Students who answered A for Q17
Denominator: Students who answered A or B for Q17

Summary Text: Percentage of students who ever tried to kill themselves

QN variable label: Ever tried to kill themselves

18. Have you ever smoked a cigarette, even one or two puffs?

A. Yes B. No

Variable label: Ever cigarette use

QN18: Numerator: Students who answered A for Q18

Denominator: Students who answered A or B for Q18

Summary Text: Percentage of students who ever smoked a cigarette (even one or two puffs)

QN variable label: Ever smoked a cigarette

19. How old were you when you first smoked a cigarette, even one or two puffs?

A. I have never smoked a cigarette, not even one or two puffs

B. 8 years old or younger

C. 9 years old

D. 10 years old

E. 11 years old

F. 12 years old

G. 13 years old or older

Variable label: Initiation of cigarette smoking

Short response:

A. Never smoked a cigarette

B. 8 years old or younger

C. 9 years old

D. 10 years old

E. 11 years old

F. 12 years old

G. 13 years old or older

QN19: Numerator: Students who answered B, C, or D for Q19

Denominator: Students who answered A, B, C, D, E, F, or G for Q19

Summary Text: Percentage of students who smoked a cigarette for the first time before age 11 years

(even one or two puffs)

QN variable label: Smoked a cigarette for the first time before age 11 years

20. During the past 30 days, on how many days did you smoke cigarettes? 0 days 1 or 2 days B. C. 3 to 5 days D. 6 to 9 days E. 10 to 19 days F. 20 to 29 days G. All 30 days Variable label: Current cigarette use ON20: Students who answered B, C, D, E, F, or G for Q20 Numerator: Denominator: Students who answered A, B, C, D, E, F, or G for Q20 Summary Text: Percentage of students who currently smoked cigarettes (on at least 1 day during the 30 days before the survey) QN variable label: Currently smoked cigarettes Dependence: Required by QN21, QNFRCIG, QNDAYCIG, QNTB2, QNTB3, QNTB4, and QNTB5 21. During the past 30 days, on the days you smoked, how many cigarettes did you smoke per day? I did not smoke cigarettes during the past 30 days B. Less than 1 cigarette per day C. 1 cigarette per day D. 2 to 5 cigarettes per day E. 6 to 10 cigarettes per day F. 11 to 20 cigarettes per day More than 20 cigarettes per day Variable label: Smoked >10 cigarettes Short response: Did not smoke cigarettes B. Less than 1 cigarette C. 1 cigarette D. 2 to 5 cigarettes E. 6 to 10 cigarettes F. 11 to 20 cigarettes More than 20 cigarettes ON21*: Numerator: Students who answered F or G for O21 Denominator: Students who answered B, C, D, E, F, or G for Q20 and answered B, C, D, E, F, or G for Q21 Summary Text: Percentage of students who smoked more than 10 cigarettes per day (on the days they smoked during the 30 days before the survey, among students who currently smoked QN variable label: Smoked more than 10 cigarettes per day Dependence: Depends on Q20 22. Have you ever used an electronic vapor product? A. Yes B. No Variable label: Electronic vapor product use QN22: Numerator: Students who answered A for Q22 Denominator: Students who answered A or B for Q22 Summary Text: Percentage of students who ever used an electronic vapor product (including ecigarettes, vapes, mods, e-cigs, e-hookahs, or vape pens [such as JUUL, Vuse, NJOY, Puff Bar, blu, or Bidi Stick]) ON variable label: Ever used an electronic vapor product

23. During the past 30 days, on how many days did you use an electronic vapor product? 0 days A. 1 or 2 days B. C. 3 to 5 days D. 6 to 9 days E. 10 to 19 days F. 20 to 29 days G. All 30 days Variable label: Current electronic vapor product use ON23: Students who answered B, C, D, E, F, or G for Q23 Numerator: Denominator: Students who answered A, B, C, D, E, F, or G for Q23 Percentage of students who currently used an electronic vapor product (on at least 1 day Summary text: during the 30 days before the survey) QN variable label: Currently used an electronic vapor product Dependence: Required by QNFREVP, QNDAYEVP, QNTB4, and QNTB5 24. During the past 30 days, on how many days did you use chewing tobacco, snuff, dip, snus, or dissolvable tobacco products, such as Copenhagen, Grizzly, Skoal, Camel Snus, or Velo Nicotine Lozenges? (Do not count any electronic vapor products.) A. 0 days В. 1 or 2 days C. 3 to 5 days 6 to 9 days D. Ε. 10 to 19 days F. 20 to 29 days G. All 30 days Variable label: Current smokeless tobacco use QN24: Students who answered B, C, D, E, F, or G for Q24 Numerator: Denominator: Students who answered A, B, C, D, E, F, or G for Q24 Percentage of students who currently used smokeless tobacco (chewing tobacco, snuff, Summary text: dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, Camel Snus, or Velo Nicotine Lozenges], not counting any electronic vapor products, on at least 1 day during the 30 days before the survey) ON variable label: Currently used smokeless tobacco Dependence: Required by QNFRSKL, QNDAYSKL, QNTB3, and QNTB4 25. During the past 30 days, on how many days did you smoke cigars, cigarillos, or little cigars, such as Swisher Sweets, Middleton's (including Black & Mild), or Backwoods? 0 days A. B. 1 or 2 days C. 3 to 5 days D. 6 to 9 days Ε. 10 to 19 days F. 20 to 29 days All 30 days G. Variable label: Current cigar use QN25: Numerator: Students who answered B, C, D, E, F, or G for Q25 Students who answered A, B, C, D, E, F, or G for Q25 Denominator: Summary Text: Percentage of students who currently smoked cigars, cigarillos, or little cigars, such as Swisher Sweets, Middleton's (including Black & Mild), or Backwoods, on at least 1 day during the 30 days before the survey ON variable label: Currently smoked cigars Dependence: Required by: QNFRCGR, QNDAYCGR, QNTB2, QNTB3, and QNTB4

26. Have you ever had a drink of alcohol, other than a few sips?

A. Yes B. No

Variable label: Ever alcohol use

QN26: Numerator: Students who answered A for Q26
Denominator: Students who answered A or B for Q26

Summary Text: Percentage of students who ever drank alcohol (other than a few sips)

QN variable label: Ever drank alcohol

27. How old were you when you had your first drink of alcohol other than a few sips?

A. I have never had a drink of alcohol other than a few sips

B. 8 years old or younger

C. 9 years oldD. 10 years old

E. 11 years old F. 12 years old

G. 13 years old or older

Variable label: Initiation of alcohol use

Short response:

A. Never drank alcohol

B. 8 years old or younger

C. 9 years oldD. 10 years old

E. 11 years old F. 12 years old

G. 13 years old or older

QN27: Numerator: Students who answered B, C, or D for Q27

Denominator: Students who answered A, B, C, D, E, F, or G for Q27

Summary Text: Percentage of students who drank alcohol for the first time before age 11 years (other

than a few sips)

QN variable label: Drank alcohol for the first time before age 11 years

28. Have you ever used marijuana?

A. Yes B. No

Variable label: Ever marijuana use

QN28: Numerator: Students who answered A for Q28

Denominator: Students who answered A or B for Q28

Summary Text: Percentage of students who ever used marijuana

QN variable label: Ever used marijuana

29. How old were you when you tried marijuana for the first time? I have never tried marijuana 8 years old or younger B. C. 9 years old D. 10 years old E. 11 years old F. 12 years old 13 years old or older Variable label: Initiation of marijuana use Short response: Never tried marijuana B. 8 years old or younger 9 years old C. 10 years old D. 11 years old E. F. 12 years old 13 years old or older G. ON29: Numerator: Students who answered B, C, or D for Q29 Denominator: Students who answered A, B, C, D, E, F, or G for Q29 Summary Text: Percentage of students who tried marijuana for the first time before age 11 years QN variable label: Tried marijuana for the first time before age 11 years 30. Have you ever taken prescription pain medicine without a doctor's prescription or differently than how a doctor told you to use it? Yes A. В. No Variable label: Ever prescription pain medicine use QN30: Numerator: Students who answered A for Q30 Students who answered A or B for Q30 Denominator: Summary Text: Percentage of students who ever took prescription pain medicine without a doctor's prescription or differently than how a doctor told them to use it (counting drugs such as codeine, Vicodin, OxyContin, Hydrocodone, and Percocet) Ever took prescription pain medicine without a doctor's prescription or differently than QN variable label: how a doctor told them to use it 31. Have you ever used any form of cocaine, including powder, crack, or freebase? A. Yes В. No Variable label: Ever cocaine use QN31: Numerator: Students who answered A for Q31 Students who answered A or B for Q31 Denominator: Summary Text: Percentage of students who ever used cocaine (any form of cocaine, including powder, crack, or freebase) QN variable label: Ever used cocaine 32. Have you ever sniffed glue, breathed the contents of spray cans, or inhaled any paints or sprays to get high? A. В. No Variable label: Ever inhalant use QN32: Numerator: Students who answered A for Q32 Denominator: Students who answered A or B for Q32 Summary Text: Percentage of students who ever used inhalants (sniffed glue, breathed the contents of spray cans, or inhaled any paints or sprays to get high) QN variable label: Ever used inhalants

33. Have you ever had sexual intercourse? A. Yes B. No Variable label: Ever sexual intercourse ON33: Numerator: Students who answered A for Q33 Denominator: Students who answered A or B for Q33 Summary Text: Percentage of students who ever had sexual intercourse QN variable label: Ever had sexual intercourse Dependence: Required by QN36 34. How old were you when you had sexual intercourse for the first time? I have never had sexual intercourse A. В. 8 years old or younger C. 9 years old 10 years old D. E. 11 years old F. 12 years old G. 13 years old or older Variable label: Sex before 11 years Short response: Never had sex 8 years old or younger B. C. 9 years old D. 10 years old Ε. 11 years old F. 12 years old G. 13 years old or older QN34: Numerator: Students who answered B, C, or D for Q34 Students who answered A, B, C, D, E, F, or G for Q34 Denominator: Summary Text: Percentage of students who had sexual intercourse for the first time before age 11 years QN variable label: Had sexual intercourse for the first time before age 11 years 35. With how many people have you ever had sexual intercourse? I have never had sexual intercourse A. B. 1 person C. 2 people D. 3 people 4 people Ε. F. 5 people G. 6 or more people Variable label: Number of sex partners Short response: Never had sex 1 person В. C. 2 people D. 3 people E. 4 people F. 5 people G. 6 or more people ON35: Numerator: Students who answered D, E, F, or G for Q35 Denominator: Students who answered A, B, C, D, E, F, or G for Q35 Summary Text: Percentage of students who ever had sexual intercourse with three or more persons QN variable label: Ever had sexual intercourse with three or more persons

36. The **last time** you had sexual intercourse, did you or your partner use a condom?

A. I have never had sexual intercourse

B. Yes C. No

Variable label: Condom use

Short response:

A. Never had sex

B. Yes C. No

ON36*: Numerator: Students who answered B for O36

Denominator: Students who answered A for Q33 and answered B or C for Q36

Summary Text: Percentage of students who used a condom during last sexual intercourse (among

students who ever had sexual intercourse)

QN variable label: Used a condom during last sexual intercourse

Dependence: Depends on Q33

37. How do **you** describe your weight?

A. Very underweight
B. Slightly underweight
C. About the right weight
D. Slightly overweight
E. Very overweight

Variable label: Perception of weight

QN37: Numerator: Students who answered D or E for Q37

Denominator: Students who answered A, B, C, D, or E for Q37

Summary Text: Percentage of students who described themselves as slightly or very overweight

QN variable label: Described themselves as slightly or very overweight

38. Which of the following are you trying to do about your weight?

A. Lose weightB. Gain weight

C. Stay the same weight

D. I am not trying to do anything about my weight

Variable label: Weight loss

Short response:

A. Lose weight B. Gain weight

C. Stay the same weight

D. Not trying to do anything

QN38: Numerator: Students who answered A for Q38

Denominator: Students who answered A, B, C, or D for Q38
Summary Text: Percentage of students who were trying to lose weight

QN variable label: Were trying to lose weight

```
39.
         During the past 7 days, on how many days did you eat breakfast?
         A.
                   0 days
         В.
                   1 day
         C.
                   2 days
         D.
                   3 days
         E.
                   4 days
         F.
                   5 days
         G.
                   6 days
         H.
                   7 days
         Variable label:
                            Breakfast eating
ON39:
         Numerator:
                                 Students who answered A for Q39
                                 Students who answered A, B, C, D, E, F, G, or H for Q39
         Denominator:
         Summary Text:
                                 Percentage of students who did not eat breakfast (during the 7 days before the survey)
         QN variable label:
                                 Did not eat breakfast
         Dependence:
                                 Required by QNBK7DAY
40.
         During the past 7 days, on how many days were you physically active for a total of at least 60 minutes per day?
         (Add up all the time you spent in any kind of physical activity that increased your heart rate and made you
         breathe hard some of the time.)
                   0 days
         B.
                   1 day
         C.
                   2 days
                   3 days
         D.
         E.
                   4 days
         F.
                   5 days
         G.
                   6 days
         H.
                   7 days
         Variable label:
                            Physical activity >= 5 days
QN40:
         Numerator:
                                 Students who answered F, G, or H for Q40
                                 Students who answered A, B, C, D, E, F, G, or H for Q40
         Denominator:
         Summary Text:
                                 Percentage of students who were physically active at least 60 minutes per day on 5 or
                                 more days (in any kind of physical activity that increased their heart rate and made them
                                 breathe hard some of the time during the 7 days before the survey)
         ON variable label:
                                 Were physically active at least 60 minutes per day on 5 or more days
         Dependence:
                                 Required by QNPA0DAY and QNPA7DAY
41.
         In an average week when you are in school, on how many days do you go to physical education (PE) classes?
                   0 days
         A.
         В.
                   1 day
         C.
                   2 days
         D.
                   3 days
         E.
                   4 days
         F.
                   5 days
         Variable label:
                            PE attendance
QN41:
                                 Students who answered B, C, D, E, or F for Q41
         Numerator:
                                 Students who answered A, B, C, D, E, or F for Q41
         Denominator:
         Summary Text:
                                 Percentage of students who attended physical education (PE) classes on 1 or more days
                                 (in an average week when they were in school)
         ON variable label:
                                 Attended physical education (PE) classes on 1 or more days
         Dependence:
                                 Required by QNDLYPE
```

42. During the past 12 months, on how many sports teams did you play? (Count any teams run by your school or community groups.)

A. 0 teams

B. 1 team

C. 2 teams

D. 3 or more teams

Variable label: Sports team participation

QN42: Numerator: Students who answered B, C, or D for Q42
Denominator: Students who answered A, B, C, or D for Q42

Summary Text: Percentage of students who played on at least one sports team (counting any teams run

by their school or community groups, during the past 12 months before the survey)

QN variable label: Played on at least one sports team

43. During the past 12 months, how many times did you have a concussion from playing a sport or being

physically active?

A. 0 times

B. 1 timeC. 2 times

D. 3 times

E. 4 or more times

Variable label: Concussion

QN43: Numerator: Students who answered B, C, D, or E for Q43

Denominator: Students who answered A, B, C, D, or E for Q43

Summary text: Percentage of students who had a concussion from playing a sport or being physically

active (one or more times during the 12 months before the survey)

QN variable label: Had a concussion from playing a sport or being physically active

Q44. How often do you use social media?

A. I do not use social media

B. A few times a month

C. About once a week

D. A few times a week

E. About once a day

F. Several times a day

G. About once an hour

H. More than once an hour

Variable label: Social media

QN44: Numerator: Students who answered F, G, or H for Q44

Denominator: Students who answered A, B, C, D, E, F, G, or H for Q44
Summary text: Percentage of students who use social media several times a day

QN variable label: Used social media several times a day

45. During the past 30 days, how often was your mental health not good? (Poor mental health includes stress, anxiety, and depression.)

A. Never

B. Rarely

C. Sometimes

D. Most of the time

E. Always

Variable label: Current mental health

QN45: Numerator: Students who answered D or E for Q45

Denominator: Students who answered A, B, C, D, or E for Q45

Summary text: Percentage of students who reported that their mental health was most of the time or

always not good (poor mental health includes stress, anxiety, and depression, during the

30 days before the survey)

QN variable label: Reported that their mental health was most of the time or always not good

46. On an average school night, how many hours of sleep do you get?

A. 4 or less hours

B. 5 hours

C. 6 hours

D. 7 hoursE. 8 hours

F. 9 hours

G. 10 or more hours

Variable label: Sleep

QN46: Numerator: Students who answered E, F, of G for Q46

Denominator: Students who answered A, B, C, D, E, F or G for Q46

Summary text: Percentage of students who got 8 or more hours of sleep (on an average school night)

QN variable label: Got 8 or more hours of sleep

47. During the past 30 days, where did you usually sleep?

A. In my parent's or guardian's home

B. In the home of a friend, family member, or other person because I had to leave my home or my parent or guardian cannot afford housing

C. In a shelter or emergency housing

D. In a motel or hotel

E. In a car, park, campground, or other public place

F. I do not have a usual place to sleep

G. Somewhere else

Variable label: Unstable housing

A. Home of parent or guardian

B. Home of other people

C. Shelter or emergency housing

D. Motel or hotel

E. Public place

F. No usual place

G. Somewhere else

QN47: Numerator: Students who answered B, C, D, E, or F for Q47

Denominator: Students who answered A, B, C, D, E, F, or G for Q47

Summary text: Percentage of students who experienced unstable housing (during the 30 days before the

survey)

ON variable label: Experienced unstable housing

Q48: During the past 12 months, how would you describe your grades in school?

A. Mostly A's

B. Mostly B's

C. Mostly C's

D. Mostly D's E. Mostly F's

F. None of these grades

G. Not sure

Variable label: Grades in school

QN48: Numerator: Students who answered A or B for Q48

Denominator: Students who answered A, B, C, D, E, F, or G for Q48

Summary text: Percentage of students who described their grades in school as mostly A's or B's (during

the 12 months before the survey)

QN variable label: Described their grades in school as mostly A's or B's

Appendix C: 2023 Supplemental Variable Specifications

Appendix C

Appendix C contains the specifications for 2023 supplemental dichotomous variables. Supplemental variables are calculated based on data from one or sometimes more than one question.

QNFRCIG:

Numerator: Students who answered F or G for Q20

Denominator: Students who answered A, B, C, D, E, F, or G for Q20

Summary text: Percentage of students who currently smoked cigarettes frequently (on 20 or more days

during the 30 days before the survey)

Variable label: Currently smoked cigarettes frequently

Dependence: Depends on Q20

SAS code: if q20 in ('6','7') then QNFRCIG=1;

else if q20 in ('1','2','3','4','5') then QNFRCIG=2;

QNDAYCIG:

Numerator: Students who answered G for Q20

Denominator: Students who answered A, B,C, D, E, F, or G for Q20

Summary text: Percentage of students who currently smoked cigarettes daily (on all 30 days during the

30 days before the survey)

Variable label: Currently smoked cigarettes daily

Dependence: Depends on Q20

SAS code: if q20='7' then QNDAYCIG=1;

else if q20 in ('1','2','3','4','5','6') then QNDAYCIG=2;

QNFREVP:

Numerator: Students who answered F or G for Q23

Denominator: Students who answered A, B, C, D, E, F, or G for Q23

Summary text: Percentage of students who currently used electronic vapor products frequently (on 20 or

more days during the 30 days before the survey)

Variable label: Currently smoked electronic vapor products frequently

Dependence: Depends on Q23

SAS code: if q23 in ('6','7') then QNFREVP=1;

else if q23 in ('1','2','3','4','5') then QNFREVP=2;

QNDAYEVP:

Numerator: Students who answered G for Q23

Denominator: Students who answered A, B, C, D, E, F, or G for Q23

Summary text: Percentage of students who currently used electronic vapor products daily (on all 30

days during the 30 days before the survey)

Variable label: Currently used electronic vapor products daily

Dependence: Depends on Q23

SAS code: if q23='7' then QNDAYEVP =1;

else if q23 in ('1','2','3','4','5','6') then QNDAYEVP=2;

QNFRSKL:

Numerator: Students who answered F or G for Q24

Denominator: Students who answered A, B, C, D, E, F, or G for Q24

Summary text: Percentage of students who currently used smokeless tobacco frequently (chewing tobacco, snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly,

Skoal, Camel Snus, or Velo Nicotine Lozenges], not counting any electronic vapor

products, on 20 or more days during the 30 days before the survey)

Variable label: Currently used smokeless tobacco frequently

Dependence: Depends on Q24

SAS code: if q24 in ('6','7') then QNFRSKL=1;

else if q24 in ('1','2','3','4','5') then QNFRSKL=2;

QNDAYSKL:

Numerator: Students who answered G for Q24

Denominator: Students who answered A, B, C, D, E, F, or G for Q24

Summary text: Percentage of students who currently used smokeless tobacco daily (chewing tobacco,

snuff, dip, snus, or dissolvable tobacco products [such as Copenhagen, Grizzly, Skoal, Camel Snus, or Velo Nicotine Lozenges], not counting any electronic vapor products, on

all 30 days during the 30 days before the survey)

Variable label: Currently used smokeless tobacco daily

Dependence: Depends on Q24

SAS code: if q24 in ('7') then QNDAYSKL=1;

else if q24 in ('1','2','3','4','5', '6') then QNDAYSKL=2;

QNFRCGR:

Numerator: Students who answered F or G for Q25

Denominator: Students who answered A, B, C, D, E, F, or G for Q25

Summary Text: Percentage of students who currently smoked cigars frequently (cigars, cigarillos, or

little cigars, on 20 or more days during the 30 days before the survey)

Variable label: Currently smoked cigars frequently

Dependence: Depends on Q25

SAS code: if q25 in ('6','7') then QNFRCGR=1;

else if q25 in ('1','2','3','4','5') then QNFRCGR=2;

QNDAYCGR:

Numerator: Students who answered G for Q25

Denominator: Students who answered A, B, C, D, E, F, or G for Q25

Summary Text: Percentage of students who currently smoked cigars daily (cigars, cigarillos, or little

cigars, on all 30 days during the 30 days before the survey)

Variable label: Currently smoked cigars daily

Dependence: Depends on Q25

SAS code: if q25 in ('7') then QNDAYCGR=1;

else if q25 in ('1','2','3','4','5', '6') then QNDAYCGR=2;

QNTB2:

Numerator: Students who answered B, C, D, E, F, or G for Q20 or Q25 Denominator: Students who answered A, B, C, D, E, F, or G for Q20 or Q25

Summary text: Percentage of students who currently smoked cigarettes or cigars (on at least 1 day

during the 30 days before the survey)

Variable label: Currently smoked cigarettes or cigars

Dependence: Depends on Q20 and Q25

SAS code: if q20 in ('2','3','4','5','6','7') or q25 in ('2','3','4','5','6','7') then QNTB2=1;

else if q20='1' and q25='1' then QNTB2=2; if q20 in ('') or q25 in ('') then QNTB2=.;

QNTB3:

Numerator: Students who answered B, C, D, E, F, or G for Q20, Q24, or Q25
Denominator: Students who answered A, B, C, D, E, F, or G for Q20, Q24, or Q25

Summary text: Percentage of students who currently smoked cigarettes or cigars or used smokeless

tobacco (on at least 1 day during the 30 days before the survey)

Variable label: Currently smoked cigarettes or cigars or used smokeless tobacco

Dependence: Depends on Q20, Q24, and Q25 SAS code: if q20 in ('2','3','4','5','6','7') or q24 in ('2','3','4','5','6','7') or

q25 in ('2','3','4','5','6','7') then QNTB3=1; else if q20='1' and q24='1' and q25='1' then QNTB3=2; if q20 in ('') or q24 in ('') or q25 in ('') then QNTB3=.;

QNTB4:

Numerator: Students who answered B, C, D, E, F, or G for Q20, Q23, Q24, or Q25 Denominator: Students who answered A, B, C, D, E, F, or G for Q20, Q23, Q24, or Q25

Summary text: Percentage of students who currently smoked cigarettes or cigars or used smokeless

tobacco or electronic vapor products (on at least 1 day during the 30 days before the

survey)

Variable label: Currently smoked cigarettes or cigars or used smokeless tobacco or electronic vapor

products

Dependence: Depends on Q20, Q23, Q24, and Q25 SAS code: if q20 in ('2','3','4','5','6','7') or q23 in ('2','3','4','5','6','7') or q24 in ('2','3','4','5','6','7') or

q24 in (2, 3, 4, 3, 6, 7) or q25 in ('2','3','4','5','6','7') then QNTB4=1;

else if q20='1' and q23='1' and q24='1' and q25='1' then QNTB4=2; if q20 in ('') or q23 in ('') or q24 in ('') or q25 in ('') then QNTB4=.;

QNTB5:

Numerator: Students who answered B, C, D, E, F, or G for Q20 or Q23
Denominator: Students who answered A, B, C, D, E, F, or G for Q20 or Q23

Summary text: Percentage of students who currently smoked cigarettes or used electronic vapor

products (on at least 1 day during the 30 days before the survey)

Variable label: Currently smoked cigarettes or used electronic vapor products

Dependence: Depends on Q20 and Q23

SAS code: if q20 in ('2', '3', '4', '5', '6', '7') or q23 in ('2', '3', '4', '5', '6', '7') then QNTB5=1;

else if q20='1' and q23='1' then QNTB5=2; if q20 in (' ') or q23 in (' ') then QNTB5=.;

QNBK7DAY:

Numerator: Students who answered H for Q39

Denominator: Students who answered A, B, C, D, E, F, G or H for Q39

Summary text: Percentage of students who ate breakfast on all 7 days (during the 7 days before the

urvev)

Variable label: Ate breakfast on all 7 days

Dependence: Depends on Q39

SAS code: if q39 in ('8') then QNBK7DAY=1;

else if q39 in ('1','2','3','4','5','6','7') then QNBK7DAY=2;

QNPA0DAY:

Numerator: Students who answered A for Q40

Denominator: Students who answered A, B, C, D, E, F, G, or H for Q40

Summary text: Percentage of students who did not participate in at least 60 minutes of physical activity on at least 1 day (in any kind of physical activity that increased their heart rate and made

them breathe hard some of the time, during the 7 days before the survey)

Variable label: Did not participate in at least 60 minutes of physical activity on at least 1 day

Dependence: Depends on Q40

SAS code: if q40='1' then QNPA0DAY=1;

else if q40 in ('2','3','4','5','6','7','8') then QNPA0DAY=2;

QNPA7DAY:

Numerator: Students who answered H for O40

Denominator: Students who answered A, B, C, D, E, F, G, or H for Q40

Summary text: Percentage of students who were physically active at least 60 minutes per day on all 7

days (in any kind of physical activity that increased their heart rate and made them

breathe hard some of the time, during the 7 days before the survey)

Variable label: Were physically active at least 60 minutes per day on all 7 days

Dependence: Depends on Q40

SAS code: if q40='8' then QNPA7DAY=1

else if q40 in ('1','2','3','4','5','6','7') then QNPA7DAY=2;

ONDLYPE:

Numerator: Students who answered F for Q41

Denominator: Students who answered A, B, C, D, E, or F for Q41

Summary text: Percentage of students who attended physical education (PE) classes on all 5 days (in an

average week when they were in school)

Variable label: Attended physical education (PE) classes on all 5 days

Dependence: Depends on Q41

SAS code: if Q41='6' then QNDLYPE=1;

else if Q41 in ('1','2','3','4','5') then QNDLYPE=2;