

# **ANNUAL SYNAR REPORT**

**42 U.S.C. 300x-26**

OMB № 0930-0222

**[Wyoming]**

**FFY 2006**



U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
Substance Abuse and Mental Health Services Administration  
Center for Substance Abuse Prevention  
[www.samhsa.gov](http://www.samhsa.gov)

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## INTRODUCTION

The Annual Synar Report (ASR) format provides the means for States to comply with the reporting provisions of the Public Health Service Act (42 U.S.C. 300x-26) and the Tobacco Regulation for the SAPT Block Grant (45 C.F.R. 96.130 (e)).

An agency may not conduct or sponsor and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number for this project is 0930-0222 with an expiration date of 08/31/2007. Public reporting burden for the collection of information is estimated to average 15 hours for Section I and 3 hours for Section II, including the time for reviewing instructions, completing and reviewing the collection of information, searching existing data sources, and gathering and maintaining the data needed. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to SAMHSA Reports Clearance Officer; Paperwork Reduction Project (0930-0222); 1 Choke Cherry Road, Room 7-1044, Rockville, Maryland 20857

### **How the Synar report helps the Center for Substance Abuse Prevention**

In accordance with the tobacco regulations, States are required to provide detailed information on progress made in enforcing youth tobacco access laws (FFY 2005 Compliance Progress) and future plans to ensure compliance with the Synar requirements to reduce youth tobacco access rates (FFY 2006 Intended Use Plan). These data are required by 42 U.S.C. 300x-26 and will be used by the Secretary to evaluate State compliance with the statute. Part of the mission of the Substance Abuse and Mental Health Services Administration's (SAMHSA) Center for Substance Abuse Prevention (CSAP) is to assist States<sup>1</sup> by supporting Synar activities and providing technical assistance helpful in determining the type of enforcement measures and control strategies that are most effective. This information is helpful to SAMHSA/CSAP in improving technical assistance resources and expertise on enforcement efforts and tobacco control program support activities, including State Synar Program support services, through an enhanced technical assistance program involving conferences and workshops, development of training materials and guidance documents, and on-site technical assistance consultation.

### **How the Synar report can help States**

The information gathered for the Synar report can help States describe and analyze sub-State needs for program enhancements. These data can also be used to report to the State legislature and other State and local organizations on progress made to date in enforcing youth tobacco access laws when aggregated statistical data from State Synar reports can demonstrate to the Secretary the national progress in reducing youth tobacco access problems. This information will also provide Congress with a better understanding of State progress in implementing Synar, including State difficulties and successes in enforcing retailer compliance with youth tobacco access laws.

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<sup>1</sup>The term State is used to refer to all the States and territories required to comply with Synar as part of the Substance Abuse Prevention and Treatment Block Grant Program requirements (42 U.S.C. 300x-64 and 45 C.F.R. 96.121).

## Getting assistance in completing the Synar report

If you have questions about programmatic issues, you may call CSAP's Division of State and Community Assistance at 240-276-2570 and ask for your respective State Project Officer, or contact your State Project Officer directly by telephone or e-mail using the directory provided. If you have questions about fiscal or grants management issues, you may call the Grants Management Officer, Office of Program Services, Division of Grants Management, at 240-276-1404.

## Where and when to submit the Annual Synar Report

The Annual Synar Report (ASR) must be received by SAMHSA no later than December 31, 2005. The ASR must be submitted in the **approved OMB report format**. Use of the approved format will avoid delays in the review and approval process. The chief executive officer (or an authorized designee) of the applicant organization must sign page 1 of the ASR certifying that the State has complied with all reporting requirements.

Submit one signed original of the report, one additional copy, and an electronic version on either CD-ROM or 3.5" diskette to the Grants Management Officer at the address below:

Grants Management Officer  
Office of Program Services, Division of Grants Management  
Substance Abuse and Mental Health Services Administration

### Regular Mail:

1 Choke Cherry Road, Room 7-1091  
Rockville, Maryland 20857

### Overnight Mail:

1 Choke Cherry Road, Room 7-1091  
Rockville, Maryland 20850

**FFY 2006: FUNDING AGREEMENTS/CERTIFICATIONS**

The following form must be signed by the Chief Executive Officer or an authorized designee and submitted with this application. Documentation authorizing a designee must be attached to the application.

|  |                           |
|--|---------------------------|
| <b>PUBLIC HEALTH SERVICES ACT AND SYNAR AMMENDMENT</b>   |                           |
| 42 U.S.C. 300x-26 requires each State to submit an annual report of its progress in meeting the requirements of the Synar Amendment and its implementing regulation (45 C.F.R. 96.130) to the Secretary of the Department of Health and Human Services. By signing below, the chief executive officer (or an authorized designee) of the applicant organization certifies that the State has complied with these reporting requirements and the certifications as set forth below. |                           |
| <b>SYNAR SURVEY SAMPLING METHODOLOGY</b>   |                           |
| The State certifies that the Synar survey sampling methodology on file with the Center for Substance Abuse Prevention and submitted with the Annual Synar Report for FFY 2006 is up-to-date and approved by the Center for Substance Abuse Prevention.   |                           |
| <b>SYNAR SURVEY INSPECTION PROTOCOL</b>  |                           |
| The State certifies that the Synar Survey Inspection Protocol on file with the Center for Substance Abuse Prevention and submitted with the Annual Synar Report for FFY 2006 is up-to-date and approved by the Center for Substance Abuse Prevention.  |                           |
| <b>State:</b> _____  |                           |
| <b>Name of Chief Executive Officer or Designee:</b> _____  |                           |
| <b>Signature of CEO or Designee:</b> _____   |                           |
| <b>Title:</b> _____  | <b>Date Signed:</b> _____ |
| <b>If signed by a designee, a copy of the designation must be attached</b>   |                           |

**SECTION I: FFY 2005 (Compliance Progress)**

**YOUTH ACCESS LAWS, ACTIVITIES, AND ENFORCEMENT**

*42 U.S.C. 300x-26 requires the States to report information regarding the sale/distribution of tobacco products to individuals under age 18.*

**1. Please indicate any changes or additions to the State tobacco statute(s) relating to youth access since the last reporting year. Please attach a photocopy of the change(s) in the State law(s) if any was made since the last reporting year. (See 42 U.S.C. 300x-26)**

**a. Has there been a change in the *minimum sale age* for tobacco products?**

Yes  No

*If Yes, current minimum age:*     19     20     21

**b. Have there been any changes in State law that impact the State's *protocol for conducting Synar inspections*?  Yes  No**

*If Yes, indicate change (check all that apply):*

Changed to require that law enforcement conduct inspections of tobacco outlets

Changed to make it illegal for youth to possess, purchase or receive tobacco

Changed to require ID to purchase tobacco

Other change(s) (*please describe*): Wyoming Attorney General's Office determined that existing Wyoming Statute requires law enforcement personnel to be present at all youth assisted inspections. \*See Appendix C question 6a

**c. Have there been any changes in the law concerning *vending machines*?**

Yes  No

*If Yes, indicate change (check all that apply):*

Total ban enacted

Banned from location(s) accessible to youth

Locking device or supervision required

Other change(s) (*please describe*): \_\_\_\_\_

**d. Have there been any changes in State law that impact the following?**

Licensing of tobacco vendors     Yes  No

Penalties for sales to minors     Yes  No

**2. Describe how the Annual Synar Report (see 45 C.F.R. 96.130(e)) and the State Plan (see 42 U.S.C. 300x-51) were made public within the State. (Check all that apply)**

- Placed on file for public review
- Posted on a State agency Web site (Specify Web site location:  
http://wdh.state.wy.us/SAD/Docs/Prevention/FFY2006ASR\_DRAFT\_1.pdf
- Notice published in a newspaper or newsletter
- Public hearing
- Announced in a news release, a press conference, or discussed in a media interview
- Distributed for review as part of the SAPT Block Grant application process
- Distributed through the public library system
- Published in an annual register
- Other change(s) (please describe): \_\_\_\_\_

**3. Identify the following agency or agencies. (See 42 U.S.C. 300x-26 and 45 C.F.R. 96.130)**

**a. The State agency(s) designated by the Governor for oversight of the Synar requirements:**

Wyoming Department of Health Substance Abuse Division

Has this changed since last year's Annual Synar Report?  Yes  No

**b. The State agency(s) responsible for conducting random, unannounced Synar inspections:**

University of Wyoming, Wyoming Survey and Analysis Center

Has this changed since last year's Annual Synar Report?  Yes  No

**c. The State agency(s) responsible for enforcing youth tobacco access law(s):**

Wyoming Department of Health Substance Abuse Division

Has this changed since last year's Annual Synar Report?  Yes  No

**4. Identify the State agency(s) responsible for tobacco prevention control activities.**

\_\_\_\_\_ Wyoming Department of Health Substance Abuse Division \_\_\_\_\_

Has the responsible agency changed since last year's Annual Synar Report?

Yes  No

**a. Describe the coordination and collaboration that occur between the agency responsible for tobacco control and the agency responsible for oversight of the Synar requirements. The two agencies (*check all that apply*):**

Are the same

Have a formal written memorandum of agreement

Have an informal partnership

Conduct joint planning activities

Combine resources

Have other collaborative arrangement(s) (*please describe*): \_\_\_\_\_

**5. Please answer the following questions regarding the State’s activities to enforce the youth access to tobacco law(s) in FFY 2005. (See 42 U.S.C. 300x-26 and 45 C.F.R. 96.130(e))**

**a. Which one of the following describes the enforcement of youth access to tobacco laws carried out in your State? (Check one category only)**

- Enforcement is conducted exclusively by local law enforcement agencies.
- Enforcement is conducted exclusively by State agency(s).
- Enforcement is conducted by both local and State agencies.

**b. The following items concern penalties imposed for violations of youth access to tobacco laws by LOCAL AND/OR STATE LAW ENFORCEMENT AGENCIES. Please fill in the number requested or indicate if these data are unavailable or the item is not applicable.**

| PENALTY                                     | NOT APPLICABLE                      | NOT AVAILABLE                       | TOTAL | If Available |        |
|---|-------------------------------------|-------------------------------------|-------|--------------|--------|
|   |                                     |                                     |       | OWNERS       | CLERKS |
| Number of <u>citations issued</u>           |                                     |                                     | 101   | NA           | NA     |
| Number of <u>finest assessed</u>            |                                     | <input checked="" type="checkbox"/> |       |              |        |
| Number of <u>permits/licenses suspended</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |       |              |        |
| Number of <u>permits/licenses revoked</u>   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |       |              |        |
| <i>Other (please describe):</i>             |                                     |                                     |       |              |        |

**c. What additional activities are conducted in your State to support enforcement and compliance with State tobacco access law(s)? (Check all that apply)**

- Merchant education and/or training
- Incentives for merchants who are in compliance (e.g., Reward and Reminder)
- Community education regarding youth access laws
- Media use to publicize compliance inspection results
- Community mobilization to increase support for retailer compliance with youth access laws
- Other activities (please list): \_\_\_\_\_

*Briefly describe all checked activities:*

- The annual Reward and Reminder program provides merchant education and incentives to retailers who are in compliance.
- County tobacco prevention organizations also work on community mobilization to increase support for retail education and compliance checks.
- Upon the completion of their compliance checks, law enforcement agencies are encouraged to send out a press release with the results of those inspections to their community.
- The Substance Abuse Division and the Wyoming Association of Sheriffs and Chiefs of Police (WASCOP) have created a press release that will be used by local law enforcement agencies to publicize the results of local tobacco compliance checks.

### **SYNAR SURVEY METHODS AND RESULTS**

*The following questions pertain to the survey methodology and results of the Synar survey used by the State to meet the requirements of the Synar Regulation in FFY 2005. (See 42 U.S.C. 300x-26 and 45 C.F.R. 96.130)*

**6. Has the sampling methodology changed from the previous year?**

Yes  No

*The State is required to have an approved up-to-date description of the Synar sampling methodology on file with CSAP. Please submit a copy of your Synar Survey Sampling Methodology (Appendix B). If the sampling methodology changed from the previous reporting year, these changes must be reflected in the methodology submitted.*

**7. Please answer the following questions regarding the State's annual random, unannounced inspections of tobacco outlets. (See 45 C.F.R. 96.130(d)(2))**

**a. Did the State use the optional Synar Survey Estimation System (SSES) to analyze the Synar survey data?**

Yes  No

*If Yes, attach SSES summary tables 1, 2, 3 and 4 and go to Question 8.*

*If No, continue to Question 7b.*

- b. Report the weighted and unweighted Retailer Violation Rate (RVR) estimates, and the standard error.**

**Unweighted RVR** .069

**Weighted RVR** .070

**Standard error (s.e.) of the (weighted) RVR** .0133

**Fill in the blanks to calculate the right limit of the right-sided 95% confidence interval.**

$$\frac{.0697}{\text{RVR Estimate}} + (1.645 \text{ times } \frac{.0133}{\text{Standard Error}}) = \frac{.0916}{\text{Right Limit}}$$

- c. Fill out Form 1 in Appendix A (Forms).** *(Required regardless of the sample design)*

- d. How were the (weighted) RVR estimate and its standard error obtained?**  
*(Check the one that applies)*

Form 2 (Optional) in Appendix A (Forms) *(Attach completed Form 2)*

Other *(Please specify. Provide formulae and calculations or attach and explain the program code and output with description of all variable names.)*

- e. If stratification was used, did any strata in the sample contain only one outlet or cluster this year?**

Yes  No  No stratification

*If Yes, explain how this situation was dealt with in variance estimation.*

- f. Was a cluster sample design used?**

Yes  No

*If No, go to Question 7g.*

*If Yes, fill out and attach Form 3 in Appendix A (Forms), and answer the following question:*

**Were any certainty primary sampling units selected this year?**

Yes  No

*If Yes, explain how the certainty clusters were dealt with in variance estimation.*



**SECTION II: FFY 2006 (Intended Use):**

*Public law 42 U.S.C. 300x-26 of the Public Health Service Act and 45 C.F.R. 96.130 (e) (4, 5) require that the States provide information on future plans to ensure compliance with the Synar requirements to reduce youth tobacco access.*

**1. In the upcoming year, does the State anticipate any changes in the:**

Synar sampling methodology  Yes  No

Synar inspection protocol  Yes  No

*If changes are made in either the Synar sampling methodology or the Synar inspection protocol, the State is required to obtain approval from CSAP prior to implementation of the change and file an updated Synar Survey Sampling Methodology (Appendix B) or an updated Synar Survey Inspection Protocol (Appendix C), as appropriate.*

**2. Please describe the State's plans to maintain and/or reduce the retailer violation rate for Synar inspections to be completed in FFY 2006. Include a brief description of plans for law enforcement efforts to enforce youth tobacco access laws, activities that support law enforcement efforts to enforce youth tobacco access laws, and any anticipated changes in youth tobacco access legislation or regulation in the State.**

The Substance Abuse Division will continue to expand its relationship with the Wyoming Association of Sheriffs and Chiefs of Police (WASCOP) by contracting with them to conduct on-site education and citation-driven compliance checks. The contract will require all contracted law enforcement agencies to conduct not less than two compliance checks annually per retailer for a total of 1400 inspections statewide. WASCOP will continue to increase the number of participating law enforcement agencies.

The Division will continue its collaboration with WYSAC and WASCOP to conduct the Synar inspections. The Division will work with the Wyoming Attorney General's Office to change the language in Statute 14, Article 3 requiring all retail inspections have law enforcement present.

The Division will change the protocol for the Reward and Reminder (R&R) Program. The program will continue to be conducted by the Tobacco-free Wyoming Community (TFWC) coalitions. The protocol change will require the TFWC programs to conduct on-site retail education using the R&R "Got ID" packets. The focus of this educational visit will be the owner or manager of the establishment. In addition, there will be no attempt to illegally purchase tobacco products by the youth participant. These changes will allow this program to move to a community-based educational program. All youth accessible tobacco retailers in Wyoming will be visited by this program. The Wyoming Tobacco Prevention and Control Technical Assistance Consortium (WyTTAC) will begin implementation in 2006. The focus of the WyTTAC will be to provide education, materials, and technical assistance to the TFWC program managers statewide.

**3. Describe any challenges the State faces in complying with the Synar regulation. (Check all that apply)**

- Limited resources for law enforcement of youth access laws
- Limited resources for activities to support enforcement and compliance with youth tobacco access laws
- Limitations in the State youth tobacco access laws
- Limited public support for enforcement of youth tobacco access laws
- Limitations on completeness/accuracy of list of tobacco outlets
- Limited expertise in survey methodology
- Laws/regulations limiting the use of minors in tobacco inspections
- Difficulties recruiting youth inspectors
- Geographic, demographic, and logistical considerations in conducting inspections
- Cultural factors (e.g., language barriers, young people purchasing for their elders)
- Issues regarding sources of tobacco under tribal jurisdiction
- Other challenges (*please list*): \_\_\_\_\_
- No challenges (*please explain*): \_\_\_\_\_

*Briefly describe all items checked above:*

- Wyoming does not require retailers to be licensed to sell tobacco products. As a result, Tobacco Free Wyoming Community programs must go through a labor intensive process to ensure the accuracy of the retail list. This process necessitates on site visits to every tobacco retailer in the state to maintain an accurate retail list.
- Wyoming law enforcement agencies are required to work tremendous amounts of overtime hours. As a result of this constant overtime, agencies are often resistant to conducting compliance checks. To these agencies, time is a much more valuable resource than money.
- Wyoming is a frontier state. Often times, cities or towns can be 50 to 100 miles apart. These distances can be a challenge to the Synar inspections because often youth need to travel overnight or longer to conduct these inspections. If no youth in a certain area are available, overnight travel is required. Whenever possible, youth from these areas are incorporated so that travel is not an issue.
- Based on a determination from the Wyoming Attorney General's office, Wyoming Statute requires law enforcement personnel to be present at all youth assisted retail inspections. This determination forced a change in protocol for Synar inspections. All Synar inspections were coordinated with local law enforcement agencies; these agencies were present for all inspections. A formal protocol change was approved by the Center for Substance Abuse Prevention (CSAP).

**APPENDIX A: FORMS**

**FORM 1 (Required for all States not using the Synar Survey Estimation System (SSES) to analyze the Synar Survey data)**

Complete Form 1 to report sampling frame and sample information and to calculate the unweighted retailer violation rate using results from the current year's Synar survey inspections.

**Instructions for Completing Form 1:** In the top right hand corner of the form, provide the State name and reporting Federal fiscal year (FFY 2006). Provide the remaining information by stratum if stratification was used. Make copies of the form if additional rows are needed to list all the strata.

Column 1: *If stratification was used:*

1(a) Sequentially number each row.

1(b) Write in the name of each stratum. All strata in the State must be listed.

*If no stratification was used:*

1(a) Leave blank.

1(b) Write "State" in the first row (indicates that the whole state is a single stratum).

*Note for unstratified samples: for columns 2-5, wherever the instruction refers to "each stratum," report the specified information for the State as a whole.*

Column 2: 2(a) Report the number of over-the-counter (OTC) outlets in the sampling frame in each stratum.

2(b) Report the number of vending machine (VM) outlets in the sampling frame in each stratum.

2(c) Report the combined total of OTC and VM outlets in the sampling frame in each stratum.

Column 3: 3(a) Report the estimated number of eligible OTC outlets in the OTC outlet population in each stratum.

3(b) Report the estimated number of eligible VM outlets in the VM outlet population in each stratum.

3(c) Report the combined total estimated number of eligible OTC and VM outlets in the total outlet population in each stratum.

*The estimates for Column 3 can be obtained from the Synar survey sample as the weighted sum of eligible outlets by outlet type.*

Column 4: 4(a) Report the number of eligible OTC outlets for which an inspection was completed, for each stratum.

4(b) Report the numbers of eligible VM outlets for which an inspection was completed, for each stratum.

4(c) Report the combined total of eligible OTC and VM outlets for which an inspection was completed, for each stratum.

Column 5: 5(a) Report the number of OTC outlets found in violation of the law as a result of completed inspections, for each stratum.

5(b) Report the number of VM outlets found in violation of the law as a result of completed inspections, for each stratum.

5(c) Report the combined total of OTC and VM outlets found in violation of the law as a result of completed inspections, for each stratum.

Totals: For each sub-column (a-c) in Columns 2-5, provide totals for the State as a whole in the last row of the table. These numbers will be the sum of the numbers in each row for the respective column.

**FORM 1 (Required for all States not using the Synar Survey Estimation System (SSES) to analyze the Synar Survey data)**

| Summary of Synar Inspection Results by Stratum |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|--|---------------------|-------------------------------------|------------------------------|------------------------------|--|------------------------------|------------------------------|-------------------------------|------------------------------|------------------------------|--|------------------------------|------------------------------|
| State <u>Wyoming</u><br>FFY <u>2006</u>        |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
| (1)  |                     | (2)                                 |                              |                              | (3)  |                              |                              | (4)                           |                              |                              | (5)  |                              |                              |
| STRATUM  |                     | NUMBER OF OUTLETS IN SAMPLING FRAME |                              |                              | ESTIMATED NUMBER OF ELIGIBLE OUTLETS IN POPULATION |                              |                              | NUMBER OF OUTLETS INSPECTED   |                              |                              | NO. OF OUTLETS FOUND IN VIOLATION DURING INSPECTIONS |                              |                              |
| (a)<br>Row #                                   | (b)<br>Stratum Name | (a)<br>Over-the-Counter (OTC)       | (b)<br>Vending Machines (VM) | (c)<br>Total Outlets (2a+2b) | (a)<br>Over-the-Counter (OTC)                      | (b)<br>Vending Machines (VM) | (c)<br>Total Outlets (3a+3b) | (a)<br>Over-the-Counter (OTC) | (b)<br>Vending Machines (VM) | (c)<br>Total Outlets (4a+4b) | (a)<br>Over-the-Counter (OTC)                        | (b)<br>Vending Machines (VM) | (c)<br>Total Outlets (5a+5b) |
| 1  | Large               | 382                                 | 0                            | 382                          | 357  | 0                            | 357                          | 125                           | 0                            | 125                          | 9  | 0                            | 9                            |
| 2  | Small               | 180                                 | 0                            | 180                          | 161  | 0                            | 161                          | 123                           | 0                            | 123                          | 8  | 0                            | 8                            |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     |                                     |                              |                              |  |                              |                              |                               |                              |                              |  |                              |                              |
|  |                     | 562                                 | 0                            | 562                          | 518  | 0                            | 518                          | 248                           | 0                            | 248                          | 17   | 0                            | 17                           |

**RECORD COLUMN TOTALS ON LAST LINE (LAST PAGE ONLY IF MULTIPLE PAGES ARE NEEDED)**

**FORM 2 (Optional)**  
**Appropriate for stratified simple or systematic random sampling designs.**

Complete Form 2 to calculate the weighted RVR. This table (in Excel form) is designed to calculate the weighted RVR for stratified simple or systematic random sampling designs, accounting for ineligible outlets and non-complete inspections encountered during the annual Synar survey.

**Instructions for Completing Form 2:**

In the top right hand corner of the form, provide the State name and reporting Federal fiscal year (FFY 2006).

- Column 1: Write in the name of each stratum into which the sample was divided. These should match the strata reported in Column 1(b) of Form 1.
- Column 2: Report the number of outlets in the sampling frame in each stratum. These numbers should match the numbers reported for the respective strata in Column 2(c) of Form 1.
- Column 3: Report the original sample size (the number of outlets originally selected, including substitutes or replacements) for each stratum.
- Column 4: Report the number of sample outlets in each stratum that were found to be eligible during the inspections. Note that this number must be less than or equal to the number reported in Column 3 for the respective strata.
- Column 5: Report the number of eligible outlets in each stratum for which an inspection was completed. Note that this number must be less than or equal to the number reported in Column 4. These numbers should match the numbers reported in Column 4(c) of Form 1 for the respective strata.
- Column 6: Report the number of eligible outlets inspected in each stratum that were found in violation. These numbers should match the numbers reported in Column 5(c) of Form 1 for the stratum.
- Column 7: Form 2 (in Excel form) will automatically calculate the stratum RVR for each stratum in this column. This is calculated by dividing the number of inspected eligible outlets found in violation (Column 6) by the number of inspected eligible outlets (Column 5). The State unweighted RVR will be shown in the Total row of Column 7.
- Column 8: Form 2 (in Excel form) will automatically calculate the estimated number of eligible outlets in the population for each stratum. This calculation is made by multiplying the number of outlets in the sampling frame (Column 2) times the number of eligible outlets (Column 4) divided by the original sample size (Column 3). Note that these numbers will be less than or equal to the numbers in Column 2.
- Column 9: Form 2 (in Excel form) will automatically calculate the relative stratum weight by dividing the estimated number of eligible outlets in the population for each stratum in Column 8 by the Total of the values in Column 8.
- Column 10: Form 2 (in Excel form) will automatically calculate each stratum's contribution to the State weighted RVR by multiplying the stratum RVR (Column 7) by the relative stratum weight (Column 9). The weighted RVR will be shown in the Total row of Column 10.
- Column 11: Form 2 (in Excel form) automatically calculates the standard error of each stratum's RVR (Column 7). The standard error for the State weighted RVR will be shown in the Total row of Column 11.
- TOTAL: For Columns 2-6, Form 2 (in Excel form) provides totals for the State as a whole in the last row of the table. For Columns 7-11, it calculates the respective statistic for the State as a whole.

**FORM 2 (Optional) Appropriate for stratified simple or systematic random sampling designs.**

| <b>Calculation of Weighted Retailer Violation Rate</b> |  |                                     |  |  |  |   |  |  |  |  |
|--|--|-------------------------------------|--|--|--|---|--|--|--|--|
|  |  |                                     |  |  |  |   |  |  |  | <b>State: Wyoming</b>                                  |
|  |  |                                     |  |  |  |   |  |  |  | <b>FFY: 2006</b>                                       |
| (1)<br>Stratum<br>Name                                 | (2)<br>N<br>Number of<br>Outlets<br>in Sampling<br>Frame | (3)<br>n<br>Original<br>Sample Size | (4)<br>n1<br>Number of<br>Sample Outlets<br>Found Eligible | (5)<br>n2<br>Number of<br>Outlets<br>Inspected | (6)<br>x<br>Number of<br>Outlets Found<br>in Violation | (7)<br>p=x/n2<br>Stratum<br>Retailer<br>Violation<br>Rate | (8)<br>N'=N(n1/n)<br>Estimated<br>Number of<br>Eligible Outlets<br>in Population | (9)<br>w=N'/Total<br>Column 8<br>Relative<br>Stratum<br>Weight | (10)<br>pw<br>Stratum<br>Contribution<br>to State<br>Weighted<br>RVR | (11)<br>s.e.<br>Standard<br>Error of<br>Stratum<br>RVR |
| Large<br>Municipality                                  | 382  | 139                                 | 130  | 125  | 9  | 0.072   | 357.27   | 0.68973  | 0.0497   | 0.0187   |
| Small<br>Municipality                                  | 180  | 140                                 | 125  | 123  | 8  | 0.065   | 160.71   | 0.31027  | 0.0202   | 0.0108   |
|  |  |                                     |  |  |  |   |  |  |  |  |
|  |  |                                     |  |  |  |   |  |  |  |  |
| <b>TOTAL</b>   | <b>562</b>   | <b>279</b>                          | <b>255</b>   | <b>248</b>                                     | <b>17</b>  | <b>0.069</b>  | <b>517.98</b>  | <b>1.00000</b>   | <b>0.0698</b>  | <b>0.0133</b>  |

- N - number of outlets in sampling frame  
n - original sample size (number of outlets in the original sample)  
n1 - number of sample outlets that were found to be eligible  
n2 - number of eligible outlets that were inspected  
x - number of inspected outlets that were found in violation  
p - stratum retailer violation rate ( $p=x/n2$ )  
N' - estimated number of eligible outlets in population ( $N'=N*n1/n$ )  
w - relative stratum weight ( $w=N'/\text{Total Column 8}$ )  
pw - stratum contribution to the weighted retailer violation rate  
s.e. - standard error of the stratum RVR

**FORM 3 (Required when a cluster design is used for all States not using the Synar Survey Estimation System (SSES) to analyze the Synar survey data)**

Complete Form 3 to report information about primary sampling units when a cluster design was used for the Synar survey.

**Instructions for Completing Form 3:**

In the top right hand corner of the form, provide the State name and reporting Federal fiscal year (FFY2006).

Provide information by stratum if stratification was used. Make copies of the form if additional rows are needed to list all the strata.

Column 1: Sequentially number each row.

Column 2: *If stratification was used:* Write in the name of stratum. All strata in the State must be listed.

*If no stratification was used:* write "State" in the first row to indicate that the whole state constitutes a single stratum.

Column 3: Report the number of primary sampling units (PSUs) (i.e., first-stage clusters) created for each stratum.

Column 4: Report the number of PSUs selected in the original sample for each stratum.

Column 5: Report the number of PSUs in the final sample for each stratum.

TOTALS: For Columns 3-5, provide totals for the State as a whole in the last row of the table.

| <b>Summary of Clusters Created and Sampled</b> |                     |                                  |                                   |  |
|--|---------------------|----------------------------------|-----------------------------------|--|
|  |                     |                                  |                                   | <b>State: Wyoming</b>                        |
|  |                     |                                  |                                   | <b>FFY: 2006</b>                             |
| (1)<br>Row #                                   | (2)<br>Stratum Name | (3)<br>Number of PSUs<br>Created | (4)<br>Number of PSUs<br>Selected | (5)<br>Number of PSUs in the<br>Final Sample |
|  |                     |                                  |                                   |  |
|  |                     |                                  |                                   |  |
|  |                     |                                  |                                   |  |
|  |                     |                                  |                                   |  |
| <b>TOTAL</b>                                   |                     |                                  |                                   |  |

**FORM 4 (Required for all States not using the Synar Survey Estimation System (SSES) to analyze the Synar Survey data)**

Complete Form 4 to provide detailed tallies of ineligible sample outlets by reasons for ineligibility and detailed tallies of eligible sample outlets with noncomplete inspections by reasons for noncompletion.

**Instructions for Completing Form 4:**

In the top right hand corner of the form, provide the State name and reporting Federal fiscal year (FFY2006).

Column 1(a): Enter the number of sample outlets found ineligible for inspection by reason for ineligibility. Provide the total number of ineligible outlets in the row marked “**Total**”.

Column 2(a): Enter the number of eligible sample outlets with noncomplete inspections by reason for noncompletion. Provide the total number of eligible outlets with noncomplete inspections in the row marked “**Total**”.

| <b>Inspection tallies by reason of ineligibility or noncompletion</b>   |               |   |               |
|---|---------------|---|---------------|
|   |               | <b>State</b>  | Wyoming       |
|   |               | <b>FFY</b>  | 2006          |
| (1)<br>INELIGIBLE   |               | (2)<br>ELIGIBLE   |               |
| Reason for ineligibility  | (a)<br>Counts | Reason for noncompletion                                | (a)<br>Counts |
| Out of business   | 8             | In operation but closed at time of visit                | 0             |
| Does not sell tobacco products  | 4             | Unsafe to access  | 0             |
| Inaccessible by youth   | 5             | Presence of police                                      | 0             |
| Private club or private residence   | 0             | Youth inspector knows salesperson                       | 7             |
| Temporary closure   | 1             | Moved to new location                                   | 0             |
| Unlocatable   | 3             | Drive thru only/youth inspector has no driver’s license | 0             |
| Wholesale only/Carton sale only   | 0             | Tobacco out of stock                                    | 0             |
| Vending machine broken  | 0             | Run out of time   | 0             |
| Duplicate   | 1             | Other noncompletion reason(s) <i>(describe)</i>         |               |
| Other ineligibility reason(s) <i>(describe)</i><br><ul style="list-style-type: none"> <li>• Only drive up sales</li> <li>• Resort (sales to guests only)</li> </ul> | 2             |   |               |
| <b>Total</b>  | <b>24</b>     | <b>Total</b>  | <b>7</b>      |

**FORM 5 (Required for all States not using the Synar Survey Estimation System (SSES) to analyze the Synar survey data)**

Complete Form 5 to show the distribution of outlet inspection results by age and gender of the youth inspectors.

**Instructions for Completing Form 5:**

In the top right hand corner of the form, provide the State name and reporting Federal fiscal year (FFY2006).

Column 1: Enter the number of attempted buys by youth inspector age and gender.

Column 2: Enter the number of successful buys by youth inspector age and gender.

If the inspectors are age eligible but the gender of the inspector is unknown, include those inspections in the "OTHER" row. Calculate subtotals for males and females in rows marked SUBTOTALS. Sum SUBTOTALS for male, female, and OTHER and record in the bottom row marked TOTAL. Verify that that the TOTAL of attempted buys and successful buys equal the total for Column 4(c) and Column 5(c), respectively, on Form 1. If the totals do not match, please explain any discrepancies.

| <b>Synar Survey Inspector Characteristics</b> |                       | <b>State</b> Wyoming   |
|---|-----------------------|------------------------|
|   |                       | <b>FFY</b> 2006        |
|   | (1)<br>Attempted Buys | (2)<br>Successful Buys |
| <b><u>Male</u></b>                            |                       |                        |
| 14 yrs  | 0                     | 0                      |
| 15 yrs  | 79                    | 4                      |
| 16 yrs  | 39                    | 5                      |
| 17 yrs  | 0                     | 0                      |
| 18 yrs  | 0                     | 0                      |
| <b>MALE SUBTOTAL</b>                          | 118                   | 9                      |
| <b><u>Female</u></b>                          |                       |                        |
| 14 yrs  | 0                     | 0                      |
| 15 yrs  | 113                   | 8                      |
| 16 yrs  | 17                    | 0                      |
| 17 yrs  | 0                     | 0                      |
| 18 yrs  | 0                     | 0                      |
| <b>FEMALE SUBTOTAL</b>                        | 130                   | 8                      |
| <b>OTHER</b>                                  |                       |                        |
| <b>TOTAL</b>                                  | 248                   | 17                     |

**APPENDIX B**

**STATE:** Wyoming

**FFY:** 2006

**SYNAR SURVEY SAMPLING METHODOLOGY**

**1. What type of sampling frame is used?**

- List frame *(Go to Question 2)*
- Area frame *(Go to Question 3)*
- List-assisted area frame *(Go to Question 2)*

**2. List all sources of the list frame. Indicate the type of source from the list below. Provide a brief description of the frame source. Explain how the lists are updated (method), including how new outlets are identified and added to the frame. In addition, explain how often the lists are updated (cycle). (After completing this question, go to Question 4)**

*Use the corresponding number to indicate Type of Source in the table below:*

- 1 – Statewide commercial business list
- 2 – Local commercial business list
- 3 – Statewide tobacco license/permit list
- 4 – Statewide retail license/permit list
- 5 – Statewide liquor license/permit list
- 6 – Other

| Name of Frame Source                   | Type of Source | Description  | Updating Method and Cycle  |
|--|----------------|--|--|
| WY Dept. of Revenue Sales Revenue File | 6              | Sales tax revenue list from the WY Dept. of Revenue. The list is compiled based a tax revenue forms required for all retailers in Wyoming. This form contains a checkbox for tobacco sales. Unfortunately, this list also contains many other non-tobacco retailers. Extensive efforts are exerted to eliminate those non-tobacco retailers. | Before sampling, Tobacco Free Wyoming Community programs in all 23 Wyoming counties examine all outlets on the list to identify non-tobacco and other ineligible outlets. The outlets that do not sell tobacco products, are no longer in business, or are not youth accessible are eliminated from the master list. This is an annual updating method that takes place before the Synar sample is designed. |
|  |                |  |  |
|  |                |  |  |
|  |                |  |  |

**3. If an area frame is used, describe how area sampling units are defined and formed.**

**a. Is any area left out in the formation of the area frame?**  Yes  No

*If Yes, what percentage of the State's population is not covered by the area frame?*

\_\_\_\_\_ %

**4. Federal regulation requires that vending machines be inspected as part of the Synar survey. Are vending machines included in the Synar survey?**

Yes  No

*If No, please indicate the reason they are not included in the Synar survey.*

State law bans vending machines

State law bans vending machines from locations accessible to youth

State has SAMHSA approval to exempt vending machines from the survey

Other (please describe): \_\_\_\_\_

**5. Which category below best describes the sample design? (Check only one)**

**Census** (*STOP HERE: Appendix B is complete*)

**Unstratified State-wide sample:**

Simple random sample (*go to Question 9*)

Systematic random sample (*go to Question 6*)

Single-stage cluster sample (*go to Question 8*)

Multi-stage cluster sample (*go to Question 8*)

**Stratified sample:**

Simple random sample (*go to Question 7*)

Systematic random sample (*go to Question 6*)

Single-stage cluster sample (*go to Question 7*)

Multi-stage cluster sample (*go to Question 7*)

**Other** (*please describe and go to Question 9*): \_\_\_\_\_

**6. Describe the systematic sampling methods. (After completing Question 6, go to Question 7 if stratification is used. Otherwise go to Question 9.)**

**7. Provide the following information about stratification****a. Provide a full description of the strata that are created.**

Stratified by municipality: Large (population  $\geq 3000$ ) and Small (population  $\leq 3000$ )

**b. Is clustering used within the stratified sample?**

**Yes** (go to Question 8)

**No** (go to Question 9)

**8. Provide the following information about clustering****a. Provide a full description of how clusters are formed. (If multi-stage clusters are used, give definitions of clusters at each stage.)****b. Specify the sampling method (simple random, systematic, or probability proportional to size sampling) for each stage of sampling and describe how the method(s) is (are) implemented.****9. Provide the formulae for determining the effective, target, and original outlet sample sizes.**

Effective sample size:

$$n = 1 / [((s.e.)^2 / p(1 - p) + (1 / N)]$$

where s.e. = 0.0182;

$p$  = previous year's RVR;

$N$  = total number of outlets in the previous year's population list.

The target sample size was calculated by applying the effective sample size formula just above within each of the two strata, thereby adjusting for the design effect directly. This gave a value of 242. As a check, the target sample size was also calculated by multiplying the effective sample size times the estimated design effect of 1.3 for this simple 2-stratum non-clustered design. This gave a value of 237. To be conservative, the larger value was used.

Original sample size = (Target sample size) / {(accuracy rate)\*(completion rate)}

**APPENDIX C****STATE:** Wyoming**FFY:** 2006**SYNAR SURVEY INSPECTION PROTOCOL**

*Note: Attach a copy of the inspection form and protocol used to record the inspection result.*

**1. How does the State Synar survey protocol address the following?****a. Consummated buy attempts?**

- Required  Not Permitted  
 Permitted under specified circumstances  Not specified in protocol

**b. Youth inspectors to carry ID?**

- Required  Not Permitted  
 Permitted under specified circumstances  Not specified in protocol

**c. Adult inspectors to enter the outlet?**

- Required  Not Permitted  
 Permitted under specified circumstances  Not specified in protocol

**d. Youth inspectors to be compensated?**

- Required  Not Permitted  
 Permitted under specified circumstances  Not specified in protocol

**2. Identify the agency(s) or entity(s) that actually conduct the random, unannounced Synar inspections of tobacco outlets. (Check all that apply)**

- Law enforcement agency(s)  
 State or local government agency(s) other than law enforcement  
 Private contractor(s)  
 Other

List the agency name(s):

The Wyoming Department of Health Substance Abuse Division contracts with the University of Wyoming Wyoming Survey and Analysis Center

**3. Are Synar inspections combined with law enforcement efforts (i.e., do law enforcement issue warnings or citations to retailers found in violation of the law at the time of the inspection)?**

- Always  Usually  Sometimes  Rarely  Never

**4. Describe the methods used to recruit, select, and train youth inspectors and adult supervisors.**

Participant minor buyers from prior years (2002-2005) were e-mailed or telephoned and asked if they could recommend friends or acquaintances who would be interested in participating in the SYNAR inspections. In other cases, adults from local tobacco coalitions and organizations were contacted and asked to help find adolescents interested in the project. Finally, Tobacco Free Wyoming Community program managers from the Wyoming Department of Health's Reward and Reminder program were solicited to assist in identifying potential buyers in their region.

Once identified, all interested youth received a written description of the program, a parent permission slip, and hire forms. Completed parent permission forms and hire forms were required for a youth to participate in the project. All youth resided in the region they inspected. Further, to ensure consistency in buying procedure, all youth were trained to follow a written script and role-played the script with the adult escort until they mastered the buying protocol.

Prior to beginning the inspections, Principal Investigator Dahl (WYSAC) instructed all adult escorts in Synar protocol during two-hour training. Minors were trained to look for certain key elements in their surroundings while attempting a purchase. These elements included the location of tobacco products in the outlet, the approximate age of the clerk, gender of the clerk, signs indicating that tobacco would not be sold to minors, and should a sale be attempted, the price of the tobacco product. The youth were also encouraged to mentally note any strange circumstances that arose and to inform the driver of these so that they could be included in the data record. The youth inspectors were reminded of the protocol in the vehicle prior to their first inspection and throughout the purchase attempts.

**5. Are there specific legal or procedural requirements instituted by the State to address the issue of youth inspectors' immunity when conducting inspections?**

**a. Legal**             **Yes**     **No** (*If Yes, please describe*):

Any minor conducting inspections under W.S. 14-3-307(vi) shall be granted immunity from prosecution under W.S. 14-3-304.

**b. Procedural**     **Yes**     **No** (*If Yes, please describe*):

Youth are required to leave all identification at home during the inspections. This helps to maintain the confidentiality of their identity. In addition, youth were instructed to refrain from buy attempts if they knew anyone present at the location.

**6. Are there specific legal or procedural requirements instituted by the State to address the issue of the safety of youth inspectors during all aspects of the Synar inspection process?**

**a. Legal**             **Yes**     **No** (*If Yes, please describe*):

Based on a determination from the Wyoming Attorney General's office, existing Wyoming Statute requires law enforcement personnel to be present at all youth assisted retail inspections. A law enforcement officer with jurisdiction over the municipality in question was present during the inspections, either in the vehicle with the team or in an unmarked police vehicle. The officer's primary role was to observe the inspection.

**b. Procedural**     **Yes**     **No** (*If Yes, please describe*):

All minors participating in the program must have parental approval and a signed consent form. These minor buyers are supervised by UW contracted adult supervisor.

**7. Are there any other legal or procedural requirements the State has regarding how inspections are to be conducted (e.g., age of youth inspector, time of inspections, training that must occur)?**

**a. Legal**             **Yes**     **No** (*If Yes, please describe*):

**b. Procedural**     **Yes**     **No** (*If Yes, please describe*):

Minors are required to be 15-16 years of age and are required to be trained by an adult supervisor prior to participating in the inspections.

## APPENDIX D

STATE: Wyoming  
FFY: 2006

### List Sampling Frame Coverage Study (LIST FRAME ONLY)

**1. Calendar year of the coverage study: 2005**

**2. Percent coverage found: 99%**

*(Provide calculation of the percent coverage)*

**2005 list/2004 list**

**562/564=.9964**

**3. Provide a description of the coverage study methods and results.**

#### Method

The original sampling frame was a list, maintained by the Wyoming Department of Revenue, of businesses holding Wyoming sales tax licenses. Separate licenses are required for each location, including locations with vending machines. Every licensed outlet had a municipal address based on its location or the nearest municipality. Because the State of Wyoming does not issue licenses solely for the sale of tobacco products, the list of those businesses with sales tax license has proved unreliable and, in the past, required more ongoing “cleaning” than time and monetary considerations would allow. As a result, the Wyoming Department of Health, Substance Abuse Division, undertook a list-assisted exhaustive coverage study prior to conducting the Synar inspections in 2003, 2004, and 2005. Tobacco prevention partners inspected each location on the list and excluded retailers that were permanently out of business as well as bars/pubs/saloons, liquor stores, fraternal organizations, or private businesses because they are designated as inaccessible to minors. Additionally, partners also updated business names and addresses and added new businesses to the list.

#### Results

In 2005, the final list contained 562 sites; in 2004, the list contained 564 sites, and in 2003, the list contained 592 sites. These numbers are low when compared to the 2002 list, which contained 760 businesses. Nonetheless, because of the conscientious efforts of the Substance Abuse Division, confidence in the 2005 list is quite high. In keeping with the protocol used in prior years, sites were over-sampled in 2005 by 14% to 17% (as opposed to 20% over-sampling in 2004).

## **Uninspected Outlets**

Of the 279 outlets selected for the sample, 31 (11%) were not inspected. In the large municipality stratum, of the 139 possible businesses, 14 (10%) were not inspected. Of those, 9 (6.5%) were ineligible for inspection. In the small municipality stratum, of the 140 possible businesses, 17 (12%) were not inspected. Of those, 15 (10.7%) were ineligible for inspection. Combining both strata, a total of seven eligible businesses were not inspected, primarily because the minor buyers knew someone in the outlet at the time of inspection.

## **Weighted Statewide Noncompliance**

The unweighted non-compliance rate was  $(17/248) = .069$ , or 6.9%.

Thus, the weighted non-compliance rate for the current inspection was  $(382/562) (9/125) + (180/562) (8/123) = .070$ .

The estimated variance of the estimator was .000178 (see Form 2 for details). Estimated standard error of the non-compliance rate is the square root of this value, .0133.

These estimates demonstrate that SAMHSA's precision requirement of .03 or less ( $.0133 * 1.645 = .0219$ ) was met.

The upper limit of a one tailed 95% CI:  $.06977 + 1.645(.0133) = .0916$ , or  $\approx 9.2\%$ . Thus, we are 95% confident that the upper limit for the Wyoming non-compliance rate is at most 9.2%.

### *Descriptive Statistics: Variables of Interest*

Following the report format from previous years, this section will include a discussion of the variables that could potentially affect whether an inspected business complies with the law. Variables of primary interest include the size of the municipality in which the business is located (small vs. large), as the percentage of sales has varied with community size in the past: businesses in large municipalities are more apt to sell to youth than are those in small municipalities. Other variables that were analyzed to see if they influenced sale rates were whether the clerk asked to see an ID or asked for the minors' age, location of the tobacco products in the outlet, the gender of the minor buyer, the gender of the clerk, and the presence of a 'No Sale to Minors' sign in the business. These variables were analyzed to determine which were the most likely to affect non-compliance.

One additional consideration is that of geographic region. A county comparison in 2004 revealed that retailers in eight counties did not attempt sales: Albany, Crook, Goshen, Natrona, Platte, Teton, Washakie, and Weston. Nearly a third of all sales (8 of 26, or 31%) were completed in Sweetwater County in the 2004 survey. However, in 2005, no sales were completed in Sweetwater County, a positive sign in terms of compliance inspection efforts in that area of the state. In 2005, the two counties with the highest

noncompliance rates were Teton county (4 of 17 sales, or 23.5%) and Park county (3 of 17 sales, or 17.6%). To decrease these noncompliance rates, greater merchant education efforts should be considered for these particular areas of the state. Although the sample size was 248, in Tables 2-4, the sample size drops to 247 because of one case of missing data.

*1. Community Size and Noncompliance*

Table 1 depicts the number of sales according to community size. Eight of the possible 123 inspections in small municipalities resulted in sales (6.5%), and 9 of the possible 125 inspections in large municipalities resulted in sales (7.2%). In past years, there have been more sales in small municipalities, in 2005, the data could be interpreted to suggest a reversal in this trend. However, the difference between municipalities was not statistically significant, and thus cannot be interpreted as such. Note also that the table indicates the overall noncompliance rate to be 6.9% instead of the actual 7.0%; this is due to the table being weighted differently than our earlier calculations.

**Table 1: SYNAR 2005 Community Size and Sale Attempts**

|                      |                                       |                                       | Was buy attempt successful? |      | Total  |
|----------------------|---------------------------------------|---------------------------------------|-----------------------------|------|--------|
|                      |                                       |                                       | No                          | Yes  |        |
| Size of Municipality | Small<br>n=123                        | Count                                 | 115                         | 8    | 123    |
|                      |                                       | % within Large or Small Municipality? | 93.5%                       | 6.5% | 100.0% |
|                      | Large<br>n= 125                       | Count                                 | 116                         | 9    | 125    |
|                      |                                       | % within Large or Small Municipality? | 92.8%                       | 7.2% | 100.0% |
| Total                | Count                                 |                                       | 231                         | 17   | 248    |
|                      | % within Large or Small Municipality? |                                       | 93.1%                       | 6.9% | 100.0% |

## 2. Age and ID Check and Noncompliance

Table 2 depicts the frequency of sale attempts based on whether the clerk asked the minor buyer for age identification (age or ID check). Reading the table in a horizontal fashion, one can see that most clerks asked for ID only ( $N = 211$ ). Most sales were attempted when neither age nor ID was checked ( $N = 15$ ). Two sales were completed even after the clerk asked for ID.

**Table 2: SYNAR 2005 Age/ID Check and Sale Attempts**

| Did clerk ask for age? |                       |     |                                      | Was buy attempt successful? |        | Total  |
|------------------------|-----------------------|-----|--------------------------------------|-----------------------------|--------|--------|
|                        |                       |     |                                      | No                          | Yes    |        |
| No                     | Did clerk ask for ID? | No  | Count                                | 5                           | 15     | 20     |
|                        |                       |     | % within Was buy attempt successful? | 2.3%                        | 88.2%  | 8.7%   |
|                        |                       | Yes | Count                                | 209                         | 2      | 211    |
|                        |                       |     | % within Was buy attempt successful? | 97.7%                       | 11.8%  | 91.3%  |
|                        | Total                 |     | Count                                | 214                         | 17     | 231    |
|                        |                       |     | % within Was buy attempt successful? | 100.0%                      | 100.0% | 100.0% |
| Yes                    | Did clerk ask for ID? | No  | Count                                | 11                          |        | 11     |
|                        |                       |     | % within Was buy attempt successful? | 68.8%                       |        | 68.8%  |
|                        |                       | Yes | Count                                | 5                           |        | 5      |
|                        |                       |     | % within Was buy attempt successful? | 31.3%                       |        | 31.3%  |
|                        | Total                 |     | Count                                | 16                          |        | 16     |
|                        |                       |     | % within Was buy attempt successful? | 100.0%                      |        | 100.0% |

## 3. Tobacco Placement and Noncompliance

Table 3 depicts the relationship between the location of tobacco products in the business and whether a sale was attempted. Adult escorts were instructed to identify all places in which tobacco was placed for each retail store. For analytic purposes, the four specific categories were collapsed into two broad categories: accessible to the customer (at check stand, in a display case, in an aisle) and inaccessible to the customer (behind counter). Since some stores had tobacco products in both accessible and inaccessible locations, two tables are presented. The first table shows whether *all* tobacco products were accessible to the customer, and the second table shows whether *any* tobacco products were accessible. The majority of sales occurred when all tobacco products were accessible to the buyer. Specifically, sales were attempted at only 12 (5.8%) of the 208 sites where tobacco products were inaccessible, whereas sales were attempted at 5 (12.8%) of the 39 sites in which all tobacco products were accessible. Where some tobacco products were accessible (regardless of whether other tobacco products were inaccessible), sales were

attempted in 6 of 87 (6.9%) outlets. Similarly, in stores where there were some inaccessible products (regardless of whether there were also accessible products), sales were attempted in 11 of 160 (6.9%) outlets. Thus the results are only partly consistent with what we might expect, based upon notions of the retail clerks as ‘gatekeepers’ with regard to minors’ tobacco accessibility.

**Table 3: SYNAR 2005 All Tobacco Products Accessible and Sale Attempts**

|                |     |                         | Was buy attempt successful? |       | Total  |
|----------------|-----|-------------------------|-----------------------------|-------|--------|
|                |     |                         | No                          | Yes   |        |
| All Accessible | YES | Count                   | 34                          | 5     | 39     |
|                |     | % within All Accessible | 87.2%                       | 12.8% | 100.0% |
|                | NO  | Count                   | 196                         | 12    | 208    |
|                |     | % within All Accessible | 94.2%                       | 5.8%  | 100.0% |
| Total          |     | Count                   | 230                         | 17    | 247    |
|                |     | % within All Accessible | 93.1%                       | 6.9%  | 100.0% |

**Table 4: SYNAR 2005 Any Tobacco Products Accessible and Sale Attempts**

|                |     |                         | Was buy attempt successful? |      | Total  |
|----------------|-----|-------------------------|-----------------------------|------|--------|
|                |     |                         | No                          | Yes  |        |
| Any Accessible | NO  | Count                   | 149                         | 11   | 160    |
|                |     | % within Any Accessible | 93.1%                       | 6.9% | 100.0% |
|                | YES | Count                   | 81                          | 6    | 87     |
|                |     | % within Any Accessible | 93.1%                       | 6.9% | 100.0% |
| Total          |     | Count                   | 230                         | 17   | 247    |
|                |     | % within Any Accessible | 93.1%                       | 6.9% | 100.0% |

*4. Minor/Clerk Gender and Noncompliance*

As can be seen in Table 5, the likelihood of a sale attempt was highest when the buyer was female and the clerk was male (4 sale attempts out of 20 such combinations, or 20%). The next highest combination was male buyers with female clerks (8 attempts out of 94, or 8.5%). Sales were least likely to occur when both the clerk and the buyer were female (3.6%), although male clerks did not often attempt a sale to a male buyer (4.2%). Overall, male clerks were more likely to attempt a sale (11.4%) than were female clerks (5.9%). This finding suggests that a focused effort to improve compliance among male clerks could have an impact on the state’s overall compliance rate, particularly when a potential buyer is female.

**Table 5: SYNAR 2005 Clerk/Minor Gender and Sale Attempts**

| Gender of Clerk |                 |        | Was buy attempt successful? |       | Total |        |
|-----------------|-----------------|--------|-----------------------------|-------|-------|--------|
|                 |                 |        | No                          | Yes   |       |        |
| Male            | Gender of youth | Male   | Count                       | 23    | 1     | 24     |
|                 |                 |        | % within Gender of youth    | 95.8% | 4.2%  | 100.0% |
|                 |                 | Female | Count                       | 16    | 4     | 20     |
|                 |                 |        | % within Gender of youth    | 80.0% | 20.0% | 100.0% |
|                 | Total           |        | Count                       | 39    | 5     | 44     |
|                 |                 |        | % within Gender of youth    | 88.6% | 11.4% | 100.0% |
| Female          | Gender of youth | Male   | Count                       | 86    | 8     | 94     |
|                 |                 |        | % within Gender of youth    | 91.5% | 8.5%  | 100.0% |
|                 |                 | Female | Count                       | 106   | 4     | 110    |
|                 |                 |        | % within Gender of youth    | 96.4% | 3.6%  | 100.0% |
|                 | Total           |        | Count                       | 192   | 12    | 204    |
|                 |                 |        | % within Gender of youth    | 94.1% | 5.9%  | 100.0% |

*5. “No Sale to Minors” Signage and Noncompliance*

Tables 6 and 7 examine the frequency of “no sale to minors” signage (and other similar State of Wyoming signage) in the inspected businesses and its relationship to sale attempts. Of the 204 retail sites that had “No Sale to Minors” signs present, 12 attempted sales (5.9%). Of the 44 sites without such signs, 11.4% attempted sales. Of the 75 retail sites that had similar messages displayed on posters/signs from the State of Wyoming, 5 attempted sales (6.7%). Among the sites without other signage, 6.5% attempted sales. In short, display of appropriate signage was associated with better compliance for those sites displaying the more common “no sale to minors” signs. However, Wyoming state-specific signs did not seem to impact compliance differentially. The reader will note that complete data were available for only 244 sites with regard to the state of Wyoming-specific signage (see Table 7).

**Table 6: SYNAR 2005 “No Sale to Minors” Signs and Sale Attempts**

|   |  |  | Was buy attempt successful? |       | Total  |
|---|--|--|-----------------------------|-------|--------|
|   |  |  | No                          | Yes   |        |
| Were there any "No Sale to Minors" signs present? | No   | Count  | 39                          | 5     | 44     |
|   |  | % within Were there any "No Sale to Minors" signs present? | 88.6%                       | 11.4% | 100.0% |
|   | Yes  | Count  | 192                         | 12    | 204    |
|   |  | % within Were there any "No Sale to Minors" signs present? | 94.1%                       | 5.9%  | 100.0% |
| Total   | Count  |  | 231                         | 17    | 248    |
|   | % within Were there any "No Sale to Minors" signs present? |  | 93.1%                       | 6.9%  | 100.0% |

**Table 7: SYNAR 2005 Other posters/signs from the State of Wyoming and Sale Attempts**

|  |   |   | Was buy attempt successful? |      | Total  |
|--|---|---|-----------------------------|------|--------|
|  |   |   | No                          | Yes  |        |
| Any other posters/signs from state of Wyoming present? | No  | Count   | 158                         | 11   | 169    |
|  |   | % within Any other posters/signs from state of Wyoming present? | 93.5%                       | 6.5% | 100.0% |
|  | Yes   | Count   | 70                          | 5    | 75     |
|  |   | % within Any other posters/signs from state of Wyoming present? | 93.3%                       | 6.7% | 100.0% |
| Total  | Count   |   | 228                         | 16   | 244    |
|  | % within Any other posters/signs from state of Wyoming present? |   | 93.4%                       | 6.6% | 100.0% |

## Conclusion

The statewide noncompliance rate for the 2005 Synar inspections was comparable to the rates from the previous five years (Nunez, 2000; Nunez, 2001; Nunez, 2002; Dahl, 2003; Dahl, 2004). The State of Wyoming has put forth considerable effort in the area of tobacco use prevention and education, and its efforts are seen in the reduction in the noncompliance rate since 1999. Additionally, this change appears to be stable. Although the buyers encountered more female clerks than male clerks in the outlets, male clerks were more likely to sell, and this was especially true if the buyer was female. These results suggest that further improvement could be obtained by increasing efforts to improve compliance among male clerks. Findings also indicate that the display of appropriate signage is associated with compliance.