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### ABSTRACT

These second and third volumes of a four-volume study of manpower in state highway safety programs over the next decade estimate manpower resources by state and in national aggregate and describe present and planned training programs for safety specialists. For each educational level, both total manpower and manpower actually available for government employment are projected. Highway safety courses and curriculums are inventoried, including enrollment projections for each program. Training capacity is estimated. Volume I, which estimates manpower needs, and Volume IV, conclusions and recommendations, are available as VT 013 321 and VT 013 323. (BH)

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Safety Specialist Manpower

Manpower Resources

Volume II

The National Highway Safety Bureau

U. S. DEPARTMENT OF TRANSPORTATION,

Washington, D. C.

Prepared under Contract No. FH-11-6496 with  
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The opinions, findings, and conclusions expressed in  
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October 14, 1968

**BOOZ · ALLEN & HAMILTON Inc**  
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October 14, 1968

**Dr. William Tarrants**  
National Highway Safety Bureau  
Department of Transportation  
Washington, D.C.

Reference: Contract FH-11-6496, "Safety Specialist Manpower"

Dear Dr. Tarrants:

We are pleased to transmit to you this report on state safety manpower resources. This report is the second of four volumes on the subject of staffing state highway safety programs.

The report estimates, for each state and the nation, the size of the manpower resource pool available to staff state highway safety programs. Estimates are provided for 1968 through 1977, by year, for each of three skill level categories: high school, one to three years of college, and college graduates. Additionally, manpower requirements estimates developed in Volume I are matched to resource estimates for high school and college skill levels.

Analysis of resource and requirements estimates indicates that, if current recruitment practices of state governments are continued, a

deficiency could develop in the number of safety specialists employed in state highway safety programs. The deficiency potentially exists at both high school and college skill levels.

The analysis contained in this volume is based on data collected from national sources. The design of study methodology, discussed at length in the body of the report, was refined through interviews with officials of public and private agencies with particular expertise in the field of manpower projections.

Manpower resource estimates are derived from a formula that incorporates considerations of state population size, population mobility, educational attainment, and state government employment levels. At each skill level, two estimates of resources are provided. One estimates the total population with the required skill level; the other estimates the number of persons with the required skill level who are actually available to the state government for employment.

We would like to express our thanks to the National Highway Safety Bureau and to the officials of public and private organizations who gave us their aid and cooperation throughout this assignment.

Very truly yours,

*John W. Glasscock, Jr.*

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## **I. INTRODUCTION**

## I. INTRODUCTION

Volume I of the safety specialist manpower study identifies four general areas of information needed to plan the staffing of state highway safety programs. These areas of information concern:

- .     Types and numbers of personnel needed
- .     The manpower resources pool available to fill the need
- .     Programs available to train personnel for state highway safety jobs
- .     Steps that can be taken to staff state highway safety programs

Volume I deals with the first of these information areas; Volumes III and IV deal with the third and fourth of the information areas respectively. This volume, Volume II, deals with the second of the information areas: manpower resources.

### 1. THIS VOLUME PRESENTS ESTIMATES OF THE NUMBER OF PERSONS AVAILABLE TO STAFF SAFETY SPECIALIST JOBS

This volume presents estimates of the magnitude of the manpower pool which may be drawn upon to fill state highway safety specialist jobs. The pool is divided into three skill levels.

- . High school graduates
- . Persons with 1 to 3 years of college
- . College graduates

Estimates of the numbers of people 21 years of age and older who have or will have attained these skill levels are provided by year for the period 1968 to 1977. Two estimates are provided for each state and for the nation. One gives the total number of people in the state (or nation) with that skill level; the other gives the actual number out of the total which can be expected to be available for employment by state governments. In addition, the state and national manpower requirements that are identified in Volume I have been grouped by high school skill level and college skill level categories and are presented for comparison with the resource estimates.

Analysis of the estimates presented in Chapter III, Findings and Observations, demonstrates a potential deficiency in manpower resources for highway safety programs may develop.

## **II. METHODOLOGY**

## II. METHODOLOGY

Persons in the manpower pool who are available to highway safety programs are also available for employment by other employers. Determination of the amount of manpower available to highway safety programs, therefore, should consider the size of the total pool, the portion of the pool that is likely to be most immediately available to highway safety, and an estimate of the difficulty of enlarging this portion if it is necessary to do so. The methodology used in this report is designed to accomplish these ends.

### 1. THIS STUDY IS BASED ON DATA FROM NATIONALLY AVAILABLE SOURCES

During pilot visits to California, Minnesota, and Massachusetts, Booz, Allen & Hamilton's staff found that: (1) manpower resource data available in the states are no better in quality than manpower resource data available from the Federal Government and other Washington sources; and (2) required manpower resource data are more readily available from Washington sources than from state governments. For these reasons, data on manpower resources were drawn from sources in Washington.

2. STUDY METHODOLOGY WAS DEVELOPED AFTER  
EXTENSIVE LITERATURE REVIEW AND PERSONAL  
INTERVIEWING

To determine the information already available on manpower resource projections, a review of literature in the field was undertaken. Particular attention was devoted to identifying the types of manpower for which projections had been made, the methodologies used, and the problems encountered. The literature that was reviewed included:

- The Long-Range Demand for Scientific and Technical Personnel, National Science Foundation
- Manpower Planning in a Free Society, Richard A. Lester, Princeton: Princeton University Press, 1966
- Manpower Projections: An Appraisal and a Plan of Action, U. S. Department of Labor, Manpower Administration
- Manpower Report to the President, U. S. Department of Labor
- Manpower in State and Local Government, 1965 and 1975, U. S. Department of Labor, Bureau of Labor Statistics
- Projections of Educational Statistics to 1975-76, U. S. Department of Health, Education, and Welfare, Office of Education
- Scientific and Technical Manpower Resources, National Science Foundation

At the same time, interviews were conducted with officials of organizations specializing in projecting manpower resources. Officials from the following organizations were interviewed.

- . Bureau of the Census, U. S. Department of Commerce
- . Bureau of Labor Statistics, U. S. Department of Labor
- . National Planning Association
- . Office of Manpower Research, U. S. Department of Labor

Information gathered from these sources was used by the Booz, Allen & Hamilton staff in refining the study methodology.

3. THE STUDY EXAMINES THE RATIO OF REQUIREMENTS TO SUPPLY

Interviews on manpower analysis methodology yielded one major conclusion: most of the better work in projecting manpower for operating programs has occurred on the demand or requirements side of the supply/demand equation and has assumed that supply will equal demand. However, underlying this equilibrium assumption are several other assumptions.

- Total supply for all programs equals or exceeds total demand for all programs (or demand in some programs will necessarily go unfilled) or, alternatively, demand in the particular program under study is a relatively small proportion of total supply (so that the limits of total supply are not pressed).
- Satisfaction of the demands of a particular program is a problem of distribution within the total supply.
- Distribution of supply is flexible and can be influenced.

Interviewees indicated that these assumptions appeared applicable to the national highway safety program and specifically believed that safety specialist requirements could be filled by a small proportion of the available supply of manpower.

The overall methodology used in this study draws upon the above approach. It:

- Examines the ratio of safety manpower requirements (demand) to manpower availability (supply)
- Examines the change in that ratio during the period 1968-1977
- Assumes that if the ratio remains constant or declines over 1968-1977, no resource problem exists; and, conversely, to the extent the ratio increases, a resource problem does exist and steps are required to draw resources from the manpower pool into highway safety programs. (The 1968 "requirements" are manpower already employed.)

These are the fundamental elements of the methodology used to attack the supply problem and form the framework into which this volume fits. This volume is concerned with estimating the supply rather than reaching conclusions abo'r the relationship between supply and demand; that relationship is the subject of Volume IV.

4. MANPOWER RESOURCE ESTIMATES INCLUDE PERSONS 21 YEARS OF AGE AND OLDER

Although the job descriptions included in Volume I do not specify entering age requirements, the bulk of state safety specialist manpower requirements fall in job titles almost certainly calling for persons 21 years of age or older. Furthermore, most civil service positions are limited to persons 21 years of age or older. For these reasons, resource estimates are provided for persons 21 years of age and older and omit the age group 17-21.

5. MANPOWER ESTIMATES ARE CATEGORIZED INTO HIGH SCHOOL GRADUATES, PERSONS WITH ONE TO THREE YEARS OF COLLEGE, AND COLLEGE GRADUATE SKILL LEVELS

To provide an estimate of total manpower which might be drawn upon to staff highway safety programs, the total resource pool is categorized broadly into high school graduates and college graduates. This division matches a basic distinction between entering education requirements specified in the safety specialist job

descriptions contained in Volume I. Additionally, persons with one to three years of college constitute a manpower resource to be drawn upon, if needed, with the potential of staffing jobs with either high school graduate or college graduate entrance requirements. Therefore, a third category for persons with one to three years of college is provided. Manpower resource estimates are organized into these three categories. (However, since no job title specifically requires one to three years of college training, there are no manpower requirements to match against this resource category.)

6. THE STUDY SUPPLIES ESTIMATES OF MANPOWER IMMEDIATELY AVAILABLE TO STATE GOVERNMENTS

Two estimates are offered for each of the above three categories. One is labeled "Estimated Total Manpower" and refers to all persons 21 years of age or older within the state (or nation) with the requisite skill level. This represents the total resource pool. However, not everyone in this total pool is actually available for state government employment. Many do not wish to work for state governments. To narrow the pool to those really available for state government employment, a second estimate labeled "Estimated Manpower Available" is given. It is based on the 1966 ratio of state government employees for the state (or nation) to total state (or national) population and assumes that the distribution of skill levels among state government employees corresponds to the distribution

among the total state population. Relying on actual state government employees allows for all factors discouraging employment with state governments and yields an estimate of the net resource pool immediately available for state government employment.

Beyond this, by basing the ratio on 1966 state employment, a conservative estimate is obtained, for the trend has been for state government employment to increase rapidly.

7. THE SAME GENERAL FORMULA IS USED TO ESTIMATE RESOURCES FOR ALL SKILL LEVELS

The same general formula is used to estimate manpower resources for high school graduates, persons with one to three years of college, and college graduate skill levels. This formula for estimating safety specialist manpower resources is as follows:

- .     Estimated total manpower = A x B
- .     Estimated manpower available = estimated total manpower x C, where:
  - A = The state population 21 years of age and older for the year in which the estimated total manpower is being calculated.
  - B = The percentage of A with the required skill level, i. e., that skill level for which manpower resources are being calculated: high school, 1-3 years of college, or college.
  - C = The percentage of A working for the state government.

The state population 21 years of age and older is itself an estimate based upon data contained in U. S. Bureau of the Census publication Current Population Reports, Population Estimates, Revised Projections of the Population of States 1970 to 1985 (Series P-25, No. 375, October 3, 1967). The estimate was developed by:

Estimating the total population for the state for each year 1965 to 1977. (The Bureau of the Census document provides estimates at five-year intervals.) These estimates were developed by:

- Using the Bureau of the Census estimated 1965 state population as the base year.
- Increasing (decreasing for West Virginia) the state population annually from the 1965 base by applying the Bureau of the Census Series I-B average annual rate of state population change for the years 1965-1975. Series I-B assumes that migration rates will continue within the range observed in 1955-1960 and 1960-1965 and that fertility will increase moderately from present levels. In this way, population mobility was accommodated.

Multiplying each year's estimated total state population by the average 1965 to 1950 percentage of the total state population that is 21 years of age and older. The average percentage was derived from the Bureau of the Census Series I-B population estimates.

The percentage of the state population 21 years of age and older (A) with the required skill level is based upon data from the Statistical Abstract of the United States, 1967 and Current Population Reports, Population Characteristics, Educational

Attainment: March 1967 (Series P-20, No. 169, February 9, 1968), both Bureau of the Census publications. The Abstract gives total population of the state 25 years old and older in 1960 and the number of people in the state with four years of high school, one to three years of college, and four or more years of college. From these data, the percentage of the 1960 state population 25 years of age and older with the required skill levels was derived.

It was then assumed that the percentage of state population 21 years of age and older with the required skill level is identical with that percentage for 25 years of age and older.

On the above assumption, the percentage of population 21 years of age and older was obtained for each year by increasing the 1960 derived percentage by an annual amount equal to the average annual national growth from 1947 to 1967. The average annual national growth was calculated from data in the Bureau of the Census publication Educational Attainment.

From the state population 21 years of age and older (A) and the percentage of (A) with the required skill level (B), the estimated total manpower was calculated. To obtain the estimated manpower available, the remaining portion of the formula, percentage of (A) working for the state government, was applied.

The Statistical Abstract gives numbers of state government employees by state in 1966. From this and the estimated 1966 state population 21 years of age and older, the 1966 percentage of the

state population 21 years of age and older working for the state government was obtained. It was then assumed that this derived proportion of the state population immediately available to work for the state government would not change from the 1966 percentage, and the 1966 percentage was used for all years. This approach also assumes that the distribution of skill levels among persons immediately available to work for the state government is the same as among the entire state population.

A modification was made in computing college skill level estimated manpower available. Because a major portion of college graduate manpower requirements are for Driver Education Teachers, the manpower pool, to be comparable, must include teachers. As a practical matter, both elementary and secondary teachers have two fundamental characteristics necessary for many safety specialist positions: a college education and an indicated willingness to work in public agency programs. Therefore, estimated manpower at the college skill level available includes a separate calculation of primary and secondary teachers. Calculation of these totals was accomplished by:

- Calculating, as explained above, estimated manpower available exclusive of teachers
- Estimating primary and secondary teachers available in the state by year by
  - . Deriving the proportion of the total 1966 state population 21 years of age and older who were teachers; these derivations are based upon teacher counts contained in the Digest of Educational Statistics, 1967 (U. S. Office of Education)

Assuming that the proportion of teachers to total state population 21 years of age and older will remain constant over 1966-1977

Multiplying the annual estimate of state population 21 years of age and older by the 1966 proportion that were teachers

- Adding estimated manpower available exclusive of teachers and estimated teachers.

For purposes of clarification, a line entry is included in college skill level manpower resource estimates labeled "Estimated Manpower Available ('Teachers')" to indicate how many of the estimated manpower available are teachers.

Estimates of manpower resources obtained from these calculations are given in Appendix A. Estimates are given for each state and for the nation for each year from 1968 to 1977.

#### **8. MANPOWER REQUIREMENTS ARE MATCHED TO RESOURCE CATEGORY**

To allow comparison of resources to requirements, safety specialist manpower requirement estimates from Volume I are presented along with resource estimates in Appendix A. To do so, requirements have been grouped into high school and college skill levels, depending upon entering education requirements for safety specialist job titles. Since there are no job titles requiring one to three years of college, no requirement estimates exist for this skill level. A list showing which safety specialist job titles are allocated

to the high school and college skill level categories is presented in Appendix B.

Manpower requirements reported in this volume are based on the assumption that all states except Delaware and New Jersey will use the Motor Vehicle Station Inspector rather than the Motor Vehicle Inspector job title.

Alternative 1 and Alternative 2 manpower requirements for Breath Examiner Specialists reported in this volume are one-fifth of those reported in Volume I. Since personnel in this job title devote one-fifth of their time to the alcohol program, man-year equivalents are equal to one-fifth of the manpower requirements. Therefore, the demand generated on the manpower resource pool is one-fifth as great as the manpower requirement. The requirement expressed by state officials is recorded as given.

One-third of the Alternative 1 and Alternative 2 manpower requirement for Accident Site Investigators are allocated to the high school skill level (for Police Traffic Service Officers) and two-thirds to the college skill level (for Highway Engineers--Safety and Traffic Engineers). Requirements expressed by state officials are allocated completely to the college skill level.

9. THE MARGIN OF ERROR OF MANPOWER RESOURCE ESTIMATES SHOULD FALL WITHIN TOLERANCE LEVELS FOR PLANNING PURPOSES

Resource estimates are subject to errors at each step of the calculation process. However, the overall error is considered to be controlled by the initial selection of assumptions for estimating the total state population. The approach was to select the fertility

assumption yielding the maximum population, fertility assumption B, and then generally to select other assumptions on a conservative basis so as to obtain a countering influence.

- . The Series I migration assumption is a conservative estimate for states currently suffering a net population loss from migration and a liberal assumption for states receiving a net gain. Since a resource problem is more likely to occur for states losing than gaining from migration, the choice of the Series I assumption is considered to be appropriate.

The net effect of the assumption selection process is believed to yield a moderately optimistic estimate correct within 10 percent. For analysis, the significant point is the relationship between requirements and resources and a relatively large error in the estimate of resources is tolerable. From this standpoint, an error within 10 percent is acceptable.

### III. FINDINGS AND OBSERVATIONS

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Underlying the entire safety specialist manpower study is an assumption that safety specialist requirements will not be filled "naturally"; that, in some sense, a staffing problem will exist and that conscious steps must be taken to overcome the problem. More specifically, the study assumes that requirements will be sufficiently great that continuation of current recruitment, educational, and training practices will fail to fill requirements. This chapter examines the validity of this assumption. It estimates the number of safety specialists who may be employed by year throughout the nation, assuming that current recruitment practices continue. These estimates are then compared to estimated requirements, and the potential manpower deficiencies are calculated.

#### 1. PERSONS CURRENTLY EMPLOYED IN SAFETY SPECIALIST JOBS FORM THE BASIS FOR ESTIMATING FUTURE EMPLOYMENT

The numbers in Appendix A along the row labeled "State Manpower Needs Estimated" are the State Estimates from Volume I, consolidated by skill level. These estimates represent persons

actually employed in state government safety specialist jobs in 1968.

In national aggregate, these persons constitute:

- 5.6 percent of the 1968 estimated manpower available at the high school skill level
- 1.4 percent of the 1968 estimated manpower available at the college skill level

These employment percentages have been attained without recruitment efforts specifically designed to staff the national highway safety program. If these efforts are assumed to continue and to be as effective in the future as in the past, then the ratio of persons employed in safety specialist jobs to estimated manpower available should remain constant at the 1968 level. Future estimates can be estimated, then, by multiplying the figures for estimated manpower available by the 1968 percentages.

2. ESTIMATES OF EMPLOYMENT AND DEFICIENCIES HAVE BEEN DEVELOPED

Exhibits I, II, III, and IV, following this page, flow from the technique just described. They assume that current recruitment practices will continue at current effectiveness levels.

The exhibits present the alternative manpower requirements developed in Volume I, estimates of persons who would be employed as safety specialists under the assumption of continuing current

## EXHIBIT 1

National Highway Safety Bureau  
 U. S. Department of Transportation  
**MANPOWER DEFICIENCY--**  
**HIGH SCHOOL SKILL LEVEL**

|                              | 1968           | 1970           | 1971           | 1972           | 1973           | 1974           | 1975           | 1976           | 1977           |
|------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| State Estimate               |                |                |                |                |                |                |                |                |                |
| Estimated Employed Resources | 36,345         | 43,089         | 47,973         | 49,865         | 51,618         | 53,499         | 56,260         | 56,865         | 57,118         |
| Deficiency                   | <u>36,345</u>  | <u>37,438</u>  | <u>38,676</u>  | <u>39,840</u>  | <u>41,110</u>  | <u>42,367</u>  | <u>43,665</u>  | <u>44,962</u>  | <u>46,302</u>  |
|                              | <u>0</u>       | <u>5,591</u>   | <u>9,237</u>   | <u>9,965</u>   | <u>10,508</u>  | <u>11,042</u>  | <u>11,610</u>  | <u>11,903</u>  | <u>10,816</u>  |
| Alternative 1 Estimate       |                |                |                |                |                |                |                |                |                |
| Estimated Employed Resources | 158,229        | 160,809        | 163,361        | 165,884        | 169,050        | 171,222        | 173,507        | 175,953        | 178,124        |
| Deficiency                   | <u>36,345</u>  | <u>37,438</u>  | <u>38,676</u>  | <u>39,840</u>  | <u>41,110</u>  | <u>42,367</u>  | <u>43,650</u>  | <u>44,962</u>  | <u>46,302</u>  |
|                              | <u>121,224</u> | <u>123,311</u> | <u>124,085</u> | <u>125,504</u> | <u>127,250</u> | <u>128,855</u> | <u>129,857</u> | <u>130,951</u> | <u>131,822</u> |
| Alternative 2 Estimate       |                |                |                |                |                |                |                |                |                |
| Estimated Employed Resources | 51,941         | 52,496         | 53,380         | 54,290         | 55,169         | 55,856         | 56,537         | 57,209         | 57,936         |
| Deficiency                   | <u>36,345</u>  | <u>37,439</u>  | <u>38,676</u>  | <u>39,840</u>  | <u>41,110</u>  | <u>42,367</u>  | <u>43,650</u>  | <u>44,962</u>  | <u>46,302</u>  |
|                              | <u>15,296</u>  | <u>14,998</u>  | <u>14,794</u>  | <u>14,599</u>  | <u>14,399</u>  | <u>14,059</u>  | <u>13,489</u>  | <u>12,887</u>  | <u>11,247</u>  |
|                              |                |                |                |                |                |                |                |                |                |

## EXHIBIT II

National Highway Safety Bureau  
U. S. Department of TransportationMANPOWER DEFICIENCY --  
COLLEGE SKILL LEVEL

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|                                   | <u>1969</u>   | <u>1970</u>   | <u>1971</u>    | <u>1972</u>   | <u>1973</u>   | <u>1974</u>   | <u>1975</u>   | <u>1976</u>   | <u>1977</u>   |
|-----------------------------------|---------------|---------------|----------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>State Estimate</b>             |               |               |                |               |               |               |               |               |               |
| Estimated Employed Resources      | 28,886        | 31,501        | 34,738         | 35,300        | 35,398        | 36,572        | 37,234        | 37,865        | 37,889        |
| Deficiency                        | <u>28,886</u> | <u>29,417</u> | <u>29,358</u>  | <u>30,509</u> | <u>31,069</u> | <u>31,639</u> | <u>32,218</u> | <u>32,808</u> | <u>33,468</u> |
|                                   | <u>0</u>      | <u>2,084</u>  | <u>4,780</u>   | <u>4,791</u>  | <u>4,869</u>  | <u>4,933</u>  | <u>5,016</u>  | <u>5,052</u>  | <u>5,481</u>  |
| <br><b>Alternative 1 Estimate</b> |               |               |                |               |               |               |               |               |               |
| Estimated Employed Resources      | 38,827        | 40,254        | 41,732         | 43,584        | 44,340        | 46,661        | 48,522        | 50,412        | 51,871        |
| Deficiency                        | <u>38,827</u> | <u>39,417</u> | <u>39,358</u>  | <u>30,509</u> | <u>31,069</u> | <u>31,639</u> | <u>32,218</u> | <u>32,808</u> | <u>33,468</u> |
|                                   | <u>0</u>      | <u>10,837</u> | <u>11,774</u>  | <u>13,075</u> | <u>13,271</u> | <u>15,022</u> | <u>16,304</u> | <u>17,604</u> | <u>18,463</u> |
| <br><b>Alternative 2 Estimate</b> |               |               |                |               |               |               |               |               |               |
| Estimated Employed Resources      | 19,628        | 20,201        | 20,312         | 21,650        | 22,419        | 23,278        | 24,136        | 25,046        | 26,036        |
| Deficiency                        | <u>19,628</u> | <u>29,417</u> | <u>29,958</u>  | <u>30,509</u> | <u>31,069</u> | <u>31,639</u> | <u>32,218</u> | <u>32,808</u> | <u>33,468</u> |
|                                   | <u>-9,216</u> | <u>-2,046</u> | <u>-28,859</u> | <u>-8,650</u> | <u>-8,561</u> | <u>-8,082</u> | <u>-7,762</u> | <u>-7,372</u> | <u>-6,936</u> |

## EXHIBIT III

National Highway Safety Bureau  
U.S. Department of Transportation

**MANPOWER DEFICIENCY--**  
**HIGH SCHOOL SKILL LEVEL**  
**(LESS POLICE TRAFFIC SERVICES)**

|                              | 1968          | 1969          | 1970          | 1971          | 1972          | 1973          | 1974          | 1975          | 1976          | 1977          |
|------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| State Estimate               |               |               |               |               |               |               |               |               |               |               |
| Estimated Employed Resources | 9,292         | 10,555        | 11,367        | 11,738        | 12,094        | 12,409        | 12,691        | 13,296        | 12,992        | 13,007        |
| Deficiency                   | <u>9,202</u>  | <u>9,494</u>  | <u>9,792</u>  | <u>10,097</u> | <u>10,418</u> | <u>10,726</u> | <u>11,351</u> | <u>11,384</u> | <u>11,723</u> | <u>12,069</u> |
|                              | <u>0</u>      | <u>1,061</u>  | <u>1,575</u>  | <u>1,641</u>  | <u>1,686</u>  | <u>1,682</u>  | <u>1,640</u>  | <u>1,912</u>  | <u>1,269</u>  | <u>938</u>    |
| Alternative 1 Estimate       |               |               |               |               |               |               |               |               |               |               |
| Estimated Employed Resources | 43,053        | 44,173        | 46,447        | 48,150        | 50,491        | 51,840        | 53,310        | 54,925        | 56,280        | 55,661        |
| Deficiency                   | <u>9,302</u>  | <u>1,414</u>  | <u>9,732</u>  | <u>10,097</u> | <u>10,408</u> | <u>10,726</u> | <u>11,051</u> | <u>11,384</u> | <u>11,723</u> | <u>12,069</u> |
|                              | <u>33,557</u> | <u>32,224</u> | <u>36,655</u> | <u>38,053</u> | <u>40,083</u> | <u>41,114</u> | <u>42,259</u> | <u>43,541</u> | <u>44,557</u> | <u>43,592</u> |
| Alternative 2 Estimate       |               |               |               |               |               |               |               |               |               |               |
| Estimated Employed Resources | 12,737        | 13,143        | 13,629        | 14,212        | 14,865        | 15,271        | 15,685        | 16,052        | 16,484        | 16,939        |
| Deficiency                   | <u>2,202</u>  | <u>3,424</u>  | <u>3,792</u>  | <u>4,097</u>  | <u>4,408</u>  | <u>4,726</u>  | <u>5,051</u>  | <u>5,384</u>  | <u>5,723</u>  | <u>6,060</u>  |
|                              | <u>3,535</u>  | <u>3,649</u>  | <u>3,837</u>  | <u>4,115</u>  | <u>4,457</u>  | <u>4,846</u>  | <u>4,614</u>  | <u>4,568</u>  | <u>4,761</u>  | <u>4,870</u>  |

## EXHIBIT IV

National Highway Safety Bureau  
U. S. Department of Transportation

**MANPOWER DEFICIENCY --**  
**COLLEGE SKILL LEVEL**  
**(LESS DRIVER EDUCATION)**

|                               | <u>1968</u>  | <u>1970</u>  | <u>1971</u>  | <u>1972</u>  | <u>1973</u>  | <u>1974</u>  | <u>1975</u>  | <u>1976</u>  | <u>1977</u>  |
|-------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>State Estimate</b>         |              |              |              |              |              |              |              |              |              |
| Estimated Employed Resources  | 2,536        | 2,365        | 3,371        | 3,441        | 3,505        | 3,578        | 3,654        | 3,657        | 3,659        |
| Deficiency                    | <u>2,536</u> | <u>2,365</u> | <u>3,371</u> | <u>3,441</u> | <u>3,505</u> | <u>3,578</u> | <u>3,654</u> | <u>3,666</u> | <u>3,823</u> |
| <b>Alternative 1 Estimate</b> |              |              |              |              |              |              |              |              |              |
| Estimated Employed Resources  | 12,782       | 12,889       | 13,006       | 13,221       | 13,356       | 13,383       | 13,523       | 13,621       | 13,770       |
| Deficiency                    | <u>2,536</u> | <u>2,636</u> | <u>2,729</u> | <u>2,935</u> | <u>3,074</u> | <u>3,217</u> | <u>3,304</u> | <u>3,512</u> | <u>3,666</u> |
| <b>Alternative 2 Estimate</b> |              |              |              |              |              |              |              |              |              |
| Estimated Employed Resources  | 15,521       | 5,636        | 5,690        | 5,759        | 5,800        | 5,893        | 5,929        | 5,978        | 6,057        |
| Deficiency                    | <u>2,536</u> | <u>2,666</u> | <u>2,790</u> | <u>2,935</u> | <u>3,074</u> | <u>3,217</u> | <u>3,364</u> | <u>3,512</u> | <u>3,666</u> |

recruitment practices, and the difference between requirements and safety specialists employed. The estimates of persons employed were developed for each year by multiplying the estimated manpower available for that year by the 1968 percentages given above. The deficiency is the difference between estimated requirements and estimated employees.

Exhibit I offers estimated employment and deficiencies for the high school skill level; Exhibit II, for the college skill level.

As pointed out in Volume I, two programs, Police Traffic Services and Driver Education, account for the majority of safety specialist manpower requirements. Police Traffic Services requirements are included in the high school skill level category, and Driver Education requirements are included in the college skill level category. Exhibits III and IV provide an estimate of employment and deficiencies with these two programs excluded.

3. A POTENTIAL DEFICIENCY EXISTS FOR HIGH SCHOOL SKILL LEVEL SAFETY SPECIALISTS

Exhibits I and III reveal a deficiency for all years for all estimates (except the 1968 State Estimate). As shown in Exhibit I, the deficiency under the State Estimate increases from 5,600 in 1969 to 11,900 in 1975 with Police Traffic Services included and from 1,100 in 1969 to 1,900 in 1975 with Police Traffic Services excluded.

The 1976 and 1977 deficiency for the State Estimate is understated on both Exhibits II and III because of the reluctance of state officials to estimate requirements for those future years. The 1976 and 1977 deficiencies for Exhibit I are more realistically about 12,000 to 12,500 rather than the 10,800 and 9,600 shown and for Exhibit III about 1,700 to 2,200 rather than the 1,300 and 900 shown.

The deficiency for the Alternative 1 Estimate increases at a lesser rate than that of the State Estimate for the 10-year period. With the inclusion of Police Traffic Services, the increase is 8 percent from 122,000 in 1968 to 132,000 in 1977; with the exclusion of this program, the increase is 30 percent from 34,000 in 1968 to 44,000 in 1977. The absolute increase is 10,000 people in both cases.

The deficiency for the Alternative 2 Estimate decreases when Police Traffic Services is included. It declines by 30 percent over the decade, from 15,600 in 1968 to 11,000 in 1967. When Police Traffic Services is omitted, the deficiency increases by 38 percent from 3,500 in 1968 to 4,900 in 1977.

Thus, a potential deficiency in employed resources clearly exists for high school skill level jobs.

4. A POTENTIAL DEFICIENCY EXISTS FOR COLLEGE SKILL LEVEL SAFETY SPECIALISTS

Exhibits II and IV show a deficiency in all cases during the 10 years except for the Alternative 2 Estimate with Driver Education included.

The deficiency for the State Estimate with Driver Education included increases by 140 percent from 2,100 in 1969 to 5,100 in 1975. The deficiency, with Driver Education excluded, increases from 300 in 1969 to 600 in 1970 and then declines to no deficiency after 1975.

Again, the 1976 and 1977 deficiencies for the State Estimate are understated because of the reluctance of state officials to estimate requirements for those years. The 1976 and 1977 deficiencies for Exhibit II are more realistically about 5,000 in both years rather than the 4,500 and 3,900 shown. For Exhibit IV, the understatement is of minor consequence with the -9 and -164 shown in 1976 and 1977 accurately reflecting the fundamental point that deficiencies essentially disappear after 1975.

The deficiency for Alternative 1 doubles for the 10 years with Driver Education included. It increases from 9,900 in 1968 to 19,800 in 1977. With Driver Education excluded, the deficiency remains relatively stable, decreasing from 10,300 in 1968 to 9,900 in 1977.

The Alternative 2 Estimate with Driver Education included shows an excess of personnel in every year. (The excess is an expression of the many part-time Driver Education teachers in the program.) The excess declines, however, from 9,300 in 1968 to 6,900 in 1977. With Driver Education excluded, a deficiency exists for every year, but decreases from 3,100 in 1968 to 2,300 in 1977.

Thus, although potential deficiencies are evident for college skill level jobs, they are not so consistently evident as for high school skill level jobs.

5. POTENTIAL DEFICIENCIES ARE GREATER FOR HIGH SCHOOL SKILL LEVEL JOBS THAN FOR COLLEGE SKILL LEVEL JOBS

By comparing Exhibits I and II, it is evident that potential deficiencies for high school skill level jobs are greater than for college skill level jobs.

At the high school skill level, deficiencies derived from the State Estimate range from 5,600 to 12,000; at the college skill level, from 2,100 to 5,000.

At the high school skill level, deficiencies derived from the Alternative 1 Estimate range from 122,000 to 132,000; at the college skill level, from 10,000 to 20,000.

At the high school skill level, deficiencies derived from the Alternative 2 Estimate range from 15,600 to 11,000; at the college skill level, an excess exists in every year.

The same general conclusion emerges when Exhibits III and IV are compared.

- At the high school skill level, deficiencies derived from the State Estimate range from 1,100 to 1,900; at the college skill level, from 600 to 0.
- At the high school skill level, deficiencies derived from the Alternative 1 Estimate range from 33,600 to 43,600; at the college skill level, deficiencies are relatively stable at 10,000.
- At the high school skill level, deficiencies derived from the Alternative 2 Estimate range from 3,500 to 4,800; at the college skill level, from 3,100 to 2,300.

The relative differences in deficiency levels can affect plans for staffing state highway safety programs. These staffing plans will be discussed in Volume IV.

6. ESTIMATED DEFICIENCIES DO NOT APPLY TO INDIVIDUAL STATES

Exhibits I, II, III, and IV are based on the national summary of Appendix A. They do not account for deficiencies in individual states. Therefore, one can neither infer from the estimates that a deficiency will occur in any particular state nor that deficiencies will occur in every state if current recruitment efforts are continued.

#### **IV. CONCLUSION**

#### IV. CONCLUSION

The contribution of this volume to the overall safety specialist manpower study is summarized in this chapter.

##### 1. A POTENTIAL DEFICIENCY IN EMPLOYED SAFETY SPECIALISTS DOES EXIST

As pointed out in Chapter III, underlying the entire safety specialist manpower study is an assumption that past recruitment practices will fail to satisfy safety specialist manpower requirements.

This study has examined the validity of that assumption. It has:

- .     Estimated for each state and the nation the size of the manpower resource pool available to fill safety specialist jobs
- .     Estimated for the nation the number of persons from that pool who may actually be employed in safety specialist jobs
- .     Estimated the potential national deficiency in employed safety specialists

The results of this examination generally suggest a deficiency in the number of safety specialists employed in both high school and college skill level jobs, if future recruitment efforts are limited to current recruitment practices. Between the two skill levels, the potential deficiency is greater and more consistent for jobs

requiring a high school education. Thus, the evidence of this volume lends support to the validity of the foregoing assumption.

2. THE SIGNIFICANCE OF THE ESTIMATED DEFICIENCY IS EXAMINED IN VOLUME IV

Given that a deficiency in employed safety specialists may develop, the impact of the deficiency on plans to staff state highway safety programs must be examined. This examination is presented in Volume IV.

## **APPENDIXES**

**APPENDIX A**  
**MANPOWER NEEDS AND AVAILABILITY**

**MANPOWER NEEDS AND AVAILABILITY**

State: National

|  | 1968      | 1969      | 1970      | 1971      | 1972      | 1973      | 1974      | 1975      | 1976      | 1977      |
|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| <b>High School Skill Level</b>               |           |           |           |           |           |           |           |           |           |           |
| State Manpower Needs Estimated               | 36,345    | 42,089    | 47,933    | 49,863    | 51,618    | 53,409    | 55,260    | 56,865    | 57,118    | 57,225    |
| Alternative 1 Needs Estimated                | 158,299   | 160,809   | 162,361   | 165,884   | 169,060   | 171,222   | 173,507   | 175,953   | 178,124   | 179,358   |
| Alternative 2 Needs Estimated                | 51,041    | 52,406    | 53,380    | 54,239    | 55,169    | 55,856    | 56,337    | 57,209    | 57,926    | 58,677    |
| Estimated Manpower Availability              | 647,646   | 668,171   | 689,189   | 710,640   | 732,564   | 754,961   | 777,830   | 801,209   | 825,080   | 849,461   |
| Estimated Total Availability (000's)         | 34,267    | 35,354    | 36,465    | 37,600    | 38,760    | 39,845    | 41,155    | 42,392    | 43,655    | 44,345    |
| <b>One-to Three-Year College Skill Level</b> |           |           |           |           |           |           |           |           |           |           |
| State Manpower Availability                  | 243,394   | 251,465   | 259,705   | 268,124   | 276,734   | 285,541   | 294,519   | 303,704   | 313,097   | 316,566   |
| Estimated Total Availability (000's)         | 12,421    | 12,878    | 13,305    | 13,741    | 14,187    | 14,622    | 15,108    | 15,583    | 16,069    |           |
| <b>Four-Year College Skill Level</b>         |           |           |           |           |           |           |           |           |           |           |
| State Manpower Needs Estimated               | 28,886    | 31,501    | 34,728    | 35,300    | 35,938    | 36,572    | 37,234    | 37,865    | 37,889    | 37,911    |
| Alternative 1 Needs Estimated                | 38,827    | 40,254    | 41,722    | 43,584    | 44,340    | 46,661    | 48,522    | 50,412    | 51,871    | 53,773    |
| Alternative 2 Needs Estimated                | 19,658    | 20,201    | 20,912    | 21,650    | 22,419    | 23,278    | 24,136    | 25,046    | 26,036    | 27,082    |
| Estimated Manpower Availability              | 2,080,004 | 2,118,321 | 2,157,276 | 2,196,910 | 2,237,249 | 2,278,286 | 2,320,027 | 2,362,472 | 2,405,674 | 2,449,633 |
| Estimated Manpower Availability (Teachers)   | 1,833,179 | 1,858,843 | 1,884,853 | 1,977,245 | 1,938,005 | 1,965,132 | 1,992,641 | 2,050,533 | 2,048,823 | 2,077,511 |
| Estimated Total Availability (000's)         | 13,060    | 13,729    | 14,414    | 15,115    | 15,833    | 16,569    | 17,322    | 18,092    | 18,881    | 19,689    |

Note: In this appendix, Estimated Total Availability should be read as Estimated Total Manpower and Estimated Manpower Availability should be read as Estimated Manpower Available.

State: Alabama

MANPOWER NEEDS AND AVAILABILITY

|   | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
|---|------|------|------|------|------|------|------|------|------|------|
| <b>High School Skill Level</b>                |      |      |      |      |      |      |      |      |      |      |
| State Manpower Needs Estimated                |      |      |      |      |      |      |      |      |      |      |
| Alternative 1 Needs Estimated                 |      |      |      |      |      |      |      |      |      |      |
| Alternative 2 Needs Estimated                 |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability               |      |      |      |      |      |      |      |      |      |      |
| Estimated Total Availability (000's)          |      |      |      |      |      |      |      |      |      |      |
| <b>One- to Three-Year College Skill Level</b> |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability               |      |      |      |      |      |      |      |      |      |      |
| Estimated Total Availability (000's)          |      |      |      |      |      |      |      |      |      |      |
| <b>Four-Year College Skill Level</b>          |      |      |      |      |      |      |      |      |      |      |
| State Manpower Needs Estimated                |      |      |      |      |      |      |      |      |      |      |
| Alternative 1 Needs Estimated                 |      |      |      |      |      |      |      |      |      |      |
| Alternative 2 Needs Estimated                 |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability               |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability (Teachers)    |      |      |      |      |      |      |      |      |      |      |
| Estimated Total Availability (000's)          |      |      |      |      |      |      |      |      |      |      |

**MANPOWER NEEDS AND AVAILABILITY**

State: Alaska

|   | 1968  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>High School Skill Level</b>                |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 111   | 100   | 208   | 220   | 225   | 233   | 238   | 243   | 251   | 256   |
| Alternative 1 Needs Estimated                 | 114   | 116   | 120   | 121   | 125   | 127   | 129   | 131   | 131   | 133   |
| Alternative 2 Needs Estimated                 | 45    | 45    | 46    | 47    | 48    | 50    | 50    | 51    | 51    | 51    |
| Estimated Manpower Availability               | 2,632 | 2,742 | 2,800 | 2,912 | 3,024 | 3,136 | 3,248 | 3,304 | 3,472 | 3,640 |
| Estimated Total Availability (000's)          | 47    | 48    | 51    | 52    | 53    | 56    | 58    | 59    | 62    | 64    |
| <b>One- to Three Year College Skill Level</b> |       |       |       |       |       |       |       |       |       |       |
| Estimated Manpower Availability               | 1,008 | 1,064 | 1,064 | 1,120 | 1,176 | 1,176 | 1,232 | 1,288 | 1,344 | 1,344 |
| Estimated Total Availability (000's)          | 18    | 19    | 19    | 20    | 21    | 21    | 22    | 23    | 24    | 24    |
| <b>Four-Year College Skill Level</b>          |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 100   | 102   | 104   | 105   | 107   | 108   | 109   | 109   | 102   | 109   |
| Alternative 1 Needs Estimated                 | 83    | 84    | 85    | 86    | 87    | 89    | 92    | 94    | 97    | 99    |
| Alternative 2 Needs Estimated                 | 49    | 50    | 51    | 52    | 53    | 54    | 55    | 56    | 59    | 60    |
| Estimated Manpower Availability               | 3,824 | 3,948 | 4,073 | 4,174 | 4,298 | 4,422 | 4,546 | 4,670 | 4,817 | 4,941 |
| Estimated Manpower Availability(Teachers)     | 2,928 | 2,996 | 3,065 | 3,110 | 3,178 | 3,246 | 3,314 | 3,382 | 3,473 | 3,541 |
| Estimated Total Availability (000's)          | 16    | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 24    | 25    |

## State: Arizona

MANPOWER NEEDS AND AVAILABILITY

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 787    | 794    | 795    | 802    | 808    | 814    | 821    | 828    | 828    | 828    |
| Alternative 1 Needs Estimated                 | 706    | 723    | 744    | 765    | 792    | 809    | 827    | 846    | 863    | 882    |
| Alternative 2 Needs Estimated                 | 231    | 235    | 241    | 246    | 254    | 257    | 264    | 268    | 273    | 276    |
| Estimated Manpower Availability               | 7,280  | 7,618  | 8,164  | 8,372  | 8,762  | 9,152  | 9,568  | 10,010 | 10,478 | 10,972 |
| Estimated Total Availability (000's)          | 280    | 293    | 314    | 322    | 337    | 352    | 368    | 385    | 403    | 422    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| State Manpower Availability                   | 3,198  | 3,354  | 3,510  | 3,666  | 3,822  | 4,004  | 4,186  | 4,368  | 4,576  | 4,758  |
| Estimated Total Availability (000's)          | 123    | 129    | 135    | 141    | 147    | 154    | 161    | 168    | 176    | 183    |
| <u>Four- Year College Skill Level</u>         |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 74     | 82     | 88     | 92     | 97     | 101    | 109    | 113    | 114    | 114    |
| Alternative 1 Needs Estimated                 | 339    | 353    | 367    | 381    | 395    | 412    | 427    | 445    | 462    | 480    |
| Alternative 2 Needs Estimated                 | 172    | 177    | 184    | 189    | 196    | 202    | 211    | 219    | 227    | 236    |
| Estimated Manpower Availability               | 20,423 | 21,132 | 21,887 | 22,659 | 23,431 | 24,248 | 25,198 | 25,961 | 26,876 | 27,895 |
| Estimated Manpower Availability(Teachers)     | 17,381 | 17,900 | 18,455 | 19,019 | 19,583 | 20,116 | 20,766 | 21,385 | 22,040 | 22,695 |
| Estimated Total Availability (000's)          | 117    | 124    | 132    | 140    | 148    | 157    | 167    | 176    | 186    | 200    |

## State: Arkansas

MANPOWER NEEDS AND AVAILABILITY

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| High School Skill Level                   |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated            | 4,08   | 1,266  | 1,272  | 1,278  | 1,284  | 1,286  | 1,286  | 1,286  | 1,286  | 1,286  |
| Alternative 1 Needs Estimated             | 3,866  | 3,901  | 3,943  | 3,973  | 4,024  | 4,065  | 4,101  | 4,138  | 4,179  | 4,216  |
| Alternative 2 Needs Estimated             | 1,268  | 1,273  | 1,288  | 1,302  | 1,316  | 1,329  | 1,341  | 1,353  | 1,367  | 1,380  |
| Estimated Manpower Availability           | 5,344  | 5,353  | 5,922  | 6,132  | 6,342  | 6,552  | 6,762  | 6,972  | 7,203  | 7,435  |
| Estimated Total Availability (000's)      | 2,55   | 2,64   | 2,73   | 2,82   | 2,92   | 3,12   | 3,22   | 3,32   | 3,45   |        |
| One- to Three-Year College Skill Level    |        |        |        |        |        |        |        |        |        |        |
| State Manpower Availability               | 1,911  | 1,935  | 2,058  | 2,142  | 2,226  | 2,289  | 2,373  | 2,457  | 2,541  | 2,625  |
| Estimated Total Availability (000's)      | 91     | 95     | 98     | 102    | 106    | 109    | 113    | 117    | 121    | 125    |
| Four-Year College Skill Level             |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated            | 5,057  | 5,057  | 5,029  | 5,031  | 5,033  | 5,034  | 5,034  | 5,034  | 5,034  | 5,034  |
| Alternative 1 Needs Estimated             | 5,557  | 5,770  | 5,829  | 6,04   | 6,24   | 643    | 653    | 653    | 708    | 729    |
| Alternative 2 Needs Estimated             | 2,32   | 2,90   | 3,06   | 315    | 323    | 333    | 342    | 351    | 362    | 374    |
| Estimated Manpower Availability           | 21,822 | 22,126 | 22,550 | 22,914 | 23,316 | 23,697 | 24,099 | 24,480 | 24,882 | 25,301 |
| Estimated Manpower Availability(Teachers) | 10,830 | 20,128 | 20,366 | 20,604 | 20,889 | 21,114 | 21,369 | 21,624 | 21,879 | 22,151 |
| Estimated Total Availability (000's)      | 32     | 38     | 104    | 110    | 117    | 123    | 130    | 136    | 143    | 150    |

MANPOWER NEEDS AND AVAILABILITY

State: California

|   | 1968    | 1969    | 1970    | 1971    | 1972               | 1973    | 1974    | 1975    | 1976    | 1977    |
|---|---------|---------|---------|---------|--------------------|---------|---------|---------|---------|---------|
| <u>High School Skill Level</u>                |         |         |         |         |                    |         |         |         |         |         |
| State Manpower Needs Estimated                | 5,728   | 5,757   | 6,567   | 6,567   | 6,567              | 6,567   | 6,567   | 6,567   | 6,567   | 6,567   |
| Alternative 1 Needs Estimated                 | 10,684  | 10,899  | 11,144  | 11,344  | 11,689             | 11,965  | 12,045  | 12,230  | 12,398  | 12,593  |
| Alternative 2 Needs Estimated                 | 5,422   | 5,484   | 5,560   | 5,646   | 5,749              | 5,797   | 5,849   | 5,906   | 3,960   | 4,021   |
| Estimated Manpower Availability               | 72,922  | 76,028  | 79,287  | 80,631  | 80, <sup>140</sup> | 89,756  | 90,499  | 97,375  | 101,422 | 105,503 |
| Estimated Total Availability (000's)          | 72,898  | 4,092   | 4,173   | 4,349   | 4,534              | 4,724   | 4,921   | 5,125   | 5,338   | 5,557   |
| <u>One- to Three-Year College Skill Level</u> |         |         |         |         |                    |         |         |         |         |         |
| Estimated Manpower Availability               | 32,636  | 34,998  | 36,422  | 37,205  | 39,425             | 41,002  | 42,636  | 44,346  | 46,094  | 47,918  |
| Estimated Total Availability (000's)          | 1,770   | 1,842   | 1,917   | 1,995   | 2,075              | 2,158   | 2,244   | 2,334   | 2,426   | 2,522   |
| <u>Four-Year College Skill Level</u>          |         |         |         |         |                    |         |         |         |         |         |
| State Manpower Needs Estimated                | 6,325   | 6,337   | 6,337   | 6,337   | 6,337              | 6,337   | 6,337   | 6,337   | 6,337   | 6,337   |
| Alternative 1 Needs Estimated                 | 3,031   | 3,172   | 3,315   | 3,465   | 3,629              | 3,798   | 3,977   | 4,166   | 3,729   | 3,900   |
| Alternative 2 Needs Estimated                 | 1,464   | 1,531   | 1,604   | 1,678   | 1,756              | 1,837   | 1,924   | 2,017   | 2,112   | 2,214   |
| Estimated Manpower Availability               | 202,818 | 209,200 | 215,804 | 222,600 | 229,638            | 236,364 | 244,317 | 252,044 | 259,386 | 268,108 |
| Estimated Manpower Availability(Teachers)     | 178,462 | 178,135 | 182,053 | 187,887 | 192,968            | 198,180 | 203,524 | 209,028 | 214,678 | 220,475 |
| Estimated Total Availability (000's)          | 1,545   | 1,625   | 1,729   | 1,827   | 1,930              | 2,036   | 2,147   | 2,264   | 2,382   | 2,507   |

MANPOWER NEEDS AND AVAILABILITY

State: Colorado

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 527    | 553    | 643    | 673    | 704    | 735    | 766    | 795    | 795    | 795    |
| Alternative 1 Needs Estimated                 | 1,245  | 1,249  | 1,263  | 1,285  | 1,301  | 1,321  | 1,338  | 1,354  | 1,370  | 1,389  |
| Alternative 2 Needs Estimated                 | 394    | 397    | 404    | 408    | 413    | 419    | 425    | 428    | 434    | 440    |
| Estimated Manpower Availability               | 11,720 | 12,150 | 12,540 | 12,900 | 13,410 | 13,830 | 14,280 | 14,730 | 15,210 | 15,690 |
| Estimated Total Availability (000's)          | 301    | 405    | 418    | 433    | 447    | 461    | 476    | 491    | 507    | 523    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| State Manpower Availability                   | 4,280  | 5,170  | 5,310  | 5,460  | 5,640  | 5,820  | 6,000  | 6,210  | 6,390  | 6,600  |
| Estimated Total Availability (000's)          | 166    | 171    | 177    | 182    | 188    | 194    | 200    | 207    | 213    | 220    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 441    | 752    | 1,018  | 1,019  | 1,020  | 1,021  | 1,022  | 1,022  | 1,022  | 1,022  |
| Alternative 1 Needs Estimated                 | 564    | 570    | 589    | 595    | 634    | 654    | 675    | 697    | 720    | 744    |
| Alternative 2 Needs Estimated                 | 266    | 293    | 301    | 310    | 318    | 328    | 338    | 343    | 359    | 372    |
| Estimated Manpower Availability               | 27,728 | 28,258 | 29,049 | 29,700 | 30,388 | 31,007 | 31,807 | 32,535 | 33,293 | 34,071 |
| Estimated Manpower Availability (Teachers)    | 22,748 | 25,168 | 23,589 | 24,060 | 24,448 | 24,887 | 25,327 | 25,785 | 26,248 | 26,721 |
| Estimated Total Availability (000's)          | 166    | 173    | 182    | 190    | 198    | 207    | 216    | 225    | 235    | 245    |

MANPOWER NEEDS AND AVAILABILITY

State: Connecticut

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 564    | 569    | 658    | 658    | 679    | 679    | 680    | 681    | 681    | 681    |
| Alternative 1 Needs Estimated                 | 1,288  | 1,331  | 1,381  | 1,441  | 1,518  | 1,553  | 1,580  | 1,613  | 1,651  | 1,692  |
| Alternative 2 Needs Estimated                 | 411    | 423    | 438    | 455    | 477    | 491    | 497    | 507    | 519    | 530    |
| Estimated Manpower Availability               | 10,200 | 10,564 | 10,926 | 11,324 | 11,704 | 12,103 | 12,521 | 12,939 | 13,376 | 13,889 |
| Estimated Total Availability (000's)          | 537    | 556    | 575    | 596    | 616    | 637    | 659    | 681    | 704    | 731    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 3,591  | 3,724  | 3,876  | 4,000  | 4,161  | 4,313  | 4,465  | 4,617  | 4,788  | 4,883  |
| Estimated Total Availability (000's)          | 189    | 196    | 204    | 211    | 219    | 227    | 235    | 243    | 252    | 257    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 23     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     | 31     |
| Alternative 1 Needs Estimated                 | 437    | 457    | 477    | 497    | 524    | 548    | 573    | 600    | 628    |        |
| Alternative 2 Needs Estimated                 | 210    | 219    | 229    | 239    | 250    | 261    | 271    | 285    | 298    | 312    |
| Estimated Manpower Availability               | 31,142 | 31,856 | 32,569 | 33,312 | 34,050 | 34,835 | 35,611 | 36,406 | 37,216 | 38,041 |
| Estimated Manpower Availability(Teachers)     | 26,754 | 27,229 | 27,724 | 28,299 | 28,739 | 29,268 | 29,797 | 30,326 | 30,870 | 31,429 |
| Estimated Total Availability (000's)          | 221    | 243    | 255    | 267    | 280    | 293    | 306    | 320    | 334    | 348    |

MANPOWER NEEDS AND AVAILABILITY

State: Delaware

|   | 1968  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <u>High School Skill Level</u>                |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 222   | 232   | 252   | 262   | 272   | 282   | 292   | 302   | 312   | 322   |
| Alternative 1 Needs Estimated                 | 366   | 374   | 382   | 392   | 401   | 411   | 419   | 427   | 440   | 451   |
| Alternative 2 Needs Estimated                 | 124   | 125   | 130   | 132   | 137   | 139   | 142   | 145   | 148   | 152   |
| Estimated Manpower Availability               | 3,026 | 3,129 | 3,264 | 3,366 | 3,502 | 3,658 | 3,774 | 3,910 | 4,046 | 4,182 |
| Estimated Total Availability (000's)          | 89    | 92    | 96    | 99    | 103   | 107   | 111   | 115   | 119   | 123   |
| <u>One- to Three-Year College Skill Level</u> |       |       |       |       |       |       |       |       |       |       |
| State Manpower Availability                   | 1,020 | 1,054 | 1,088 | 1,156 | 1,190 | 1,224 | 1,292 | 1,326 | 1,394 | 1,462 |
| Estimated Total Availability (000's)          | 30    | 31    | 32    | 34    | 35    | 36    | 38    | 39    | 41    | 43    |
| <u>Four-Year College Skill Level</u>          |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 146   | 149   | 153   | 156   | 159   | 162   | 172   | 172   | 173   | 173   |
| Alternative 1 Needs Estimated                 | 106   | 112   | 114   | 117   | 122   | 127   | 132   | 136   | 144   | 150   |
| Alternative 2 Needs Estimated                 | 60    | 61    | 63    | 65    | 67    | 69    | 72    | 74    | 76    | 79    |
| Estimated Manpower Availability               | 6,568 | 6,737 | 6,906 | 7,092 | 7,311 | 7,497 | 7,716 | 7,902 | 8,138 | 8,358 |
| Estimated Manpower Availability(Teachers)     | 5,174 | 5,275 | 5,376 | 5,494 | 5,611 | 5,729 | 5,846 | 5,964 | 6,098 | 6,216 |
| Estimated Total Availability (000's)          | 41    | 42    | 45    | 47    | 50    | 52    | 55    | 57    | 60    | 63    |

State: Florida

MANPOWER NEEDS AND AVAILABILITY

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>               |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 1,039  | 1,125  | 1,203  | 1,247  | 1,291  | 1,344  | 1,377  | 1,418  | 1,457  | 1,506  |
| Alternative 1 Needs Estimated                | 4,539  | 4,618  | 4,704  | 4,797  | 4,896  | 4,984  | 5,071  | 5,166  | 5,262  | 5,365  |
| Alternative 2 Needs Estimated                | 1,463  | 1,488  | 1,516  | 1,545  | 1,578  | 1,604  | 1,631  | 1,659  | 1,687  | 1,717  |
| Estimated Manpower Availability              | 17,004 | 18,736 | 19,600 | 20,512 | 21,472 | 22,448 | 23,440 | 24,496 | 25,600 | 26,736 |
| Estimated Total Availability (000's)         | 1,119  | 1,171  | 1,225  | 1,282  | 1,342  | 1,403  | 1,465  | 1,531  | 1,600  | 1,671  |
| <u>One-to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability              | 6,976  | 7,312  | 7,648  | 8,000  | 8,368  | 8,752  | 9,168  | 9,584  | 10,016 | 10,464 |
| Estimated Total Availability (000's)         | 436    | 457    | 478    | 500    | 523    | 547    | 573    | 599    | 626    | 654    |
| <u>Four-Year College Skill Level</u>         |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 509    | 563    | 615    | 626    | 627    | 648    | 659    | 670    | 680    | 690    |
| Alternative 1 Needs Estimated                | 1,003  | 1,042  | 1,080  | 1,133  | 1,186  | 1,235  | 1,288  | 1,347  | 1,406  | 1,470  |
| Alternative 2 Needs Estimated                | 502    | 521    | 541    | 562    | 585    | 613    | 638    | 665    | 693    | 725    |
| Estimated Manpower Availability              | 60,730 | 60,828 | 64,002 | 67,064 | 69,284 | 71,578 | 73,344 | 76,382 | 72,924 | 81,524 |
| Estimated Manpower Availability(Teachers)    | 54,012 | 55,580 | 57,190 | 58,856 | 60,564 | 62,314 | 64,120 | 65,982 | 67,350 | 69,860 |
| Estimated Total Availability (000's)         | 424    | 453    | 482    | 513    | 545    | 579    | 614    | 650    | 689    | 729    |

MANPOWER NEEDS AND AVAILABILITY

State: Georgia

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs: Estimated               | 636    | 749    | 805    | 871    | 903    | 935    | 957    | 979    | 1,001  |        |
| Alternative 1 Needs: Estimated                | 5,190  | 5,160  | 5,242  | 5,223  | 5,386  | 5,461  | 5,520  | 5,592  | 5,668  |        |
| Alternative 2 Needs: Estimated                | 1,625  | 1,646  | 1,668  | 1,690  | 1,709  | 1,729  | 1,749  | 1,768  | 1,789  |        |
| Estimated Manpower Availability               | 9,392  | 9,744  | 10,112 | 10,496 | 10,580 | 11,280 | 11,776 | 12,128 | 12,544 | 12,982 |
| Estimated Total Availability (000's)          | 557    | 600    | 632    | 656    | 680    | 705    | 726    | 758    | 812    |        |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 5,167  | 5,868  | 5,938  | 4,112  | 4,272  | 4,422  | 4,624  | 4,752  | 4,928  | 5,104  |
| Estimated Total Availability (000's)          | 229    | 258    | 248    | 257    | 267    | 277    | 289    | 297    | 308    | 319    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs: Estimated               | 629    | 706    | 771    | 734    | 756    | 778    | 800    | 812    | 824    | 836    |
| Alternative 1 Needs: Estimated                | 1,020  | 1,062  | 1,059  | 1,139  | 1,189  | 1,223  | 1,267  | 1,317  | 1,367  |        |
| Alternative 2 Needs: Estimated                | 542    | 547    | 562    | 579    | 597    | 618    | 640    | 662    | 682    | 708    |
| Estimated Manpower Availability               | 46,117 | 47,058 | 47,974 | 48,307 | 49,883 | 50,868 | 52,225 | 52,871 | 53,920 | 55,009 |
| Estimated Manpower Availability(Teachers)     | 42,217 | 42,818 | 42,594 | 44,291 | 44,987 | 45,716 | 46,769 | 47,191 | 47,952 | 48,713 |
| Estimated Total Availability (000's)          | 245    | 260    | 274    | 290    | 306    | 322    | 341    | 355    | 373    | 391    |

MANPOWER NEEDS AND AVAILABILITY

State: Hawaii

|   | 1965* | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |       |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 61    | 61     | 61     | 61     | 61     | 61     | 61     | 61     | 61     | 61     |
| Alternative 1 Needs Estimated                 | 270   | 278    | 288    | 300    | 307    | 312    | 318    | 326    | 332    | 332    |
| Alternative 2 Needs Estimated                 | 101   | 102    | 107    | 108    | 112    | 115    | 118    | 119    | 120    | 123    |
| Estimated Manpower Availability               | 8,748 | 9,216  | 9,516  | 9,792  | 10,048 | 10,304 | 10,624 | 10,880 | 11,264 |        |
| Estimated Total Availability (000's)          | 1,177 | 1,444  | 1,480  | 1,531  | 1,577  | 1,611  | 1,666  | 1,700  | 1,766  |        |
| <u>One- to Three-Year College Skill Level</u> |       |        |        |        |        |        |        |        |        |        |
| State Manpower Availability                   | 2,442 | 2,436  | 2,560  | 2,688  | 2,752  | 2,880  | 2,944  | 3,072  | 3,136  |        |
| Estimated Total Availability (000's)          | 1,36  | 1,38   | 1,49   | 1,40   | 1,42   | 1,43   | 1,45   | 1,46   | 1,48   | 1,49   |
| <u>Four-Year College Skill Level</u>          |       |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 178   | 194    | 212    | 226    | 240    | 254    | 270    | 286    | 286    |        |
| Alternative 1 Needs Estimated                 | 149   | 144    | 150    | 155    | 163    | 170    | 177    | 184    | 190    | 200    |
| Alternative 2 Needs Estimated                 | 74    | 76     | 79     | 81     | 83     | 88     | 91     | 95     | 98     | 101    |
| Estimated Manpower Availability               | 9,763 | 10,052 | 10,262 | 10,488 | 10,770 | 11,005 | 11,296 | 11,586 | 11,812 | 12,119 |
| Estimated Manpower Availability (Teachers)    | 6,626 | 6,524  | 6,896  | 6,994  | 7,008  | 7,101  | 7,200  | 7,298  | 7,396  | 7,511  |
| Estimated Total Availability (000's)          | 49    | 52     | 54     | 56     | 59     | 61     | 64     | 67     | 69     | 72     |

MANPOWER NEEDS AND AVAILABILITY

State: Idaho

|   | 1962  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977   |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| <u>High School Skill Level</u>                |       |       |       |       |       |       |       |       |       |        |
| State Manpower Needs Estimated                | 157   | 217   | 277   | 278   | 279   | 280   | 280   | 280   | 280   | 280    |
| Alternative 1 Needs Estimated                 | 749   | 751   | 764   | 785   | 803   | 816   | 823   | 830   | 842   | 852    |
| Alternative 2 Needs Estimated                 | 227   | 259   | 233   | 238   | 243   | 247   | 252   | 253   | 256   | 257    |
| Estimated Manpower Availability               | 3,724 | 3,908 | 3,920 | 4,064 | 4,088 | 4,200 | 4,264 | 4,396 | 4,480 | 4,592  |
| Estimated Total Availability (000's)          | 123   | 136   | 140   | 143   | 146   | 150   | 153   | 157   | 160   | 164    |
| <u>One- to Three-Year College Skill Level</u> |       |       |       |       |       |       |       |       |       |        |
| Estimated Manpower Availability               | 1,562 | 1,634 | 1,652 | 1,680 | 1,736 | 1,764 | 1,820 | 1,848 | 1,904 | 1,932  |
| Estimated Total Availability (000's)          | 56    | 58    | 60    | 60    | 62    | 63    | 65    | 66    | 68    | 69     |
| <u>Four-Year College Skill Level</u>          |       |       |       |       |       |       |       |       |       |        |
| State Manpower Needs Estimated                | 11    | 12    | 13    | 14    | 14    | 15    | 15    | 15    | 15    | 15     |
| Alternative 1 Needs Estimated                 | 310   | 315   | 324   | 330   | 337   | 346   | 355   | 364   | 373   | 384    |
| Alternative 2 Needs Estimated                 | 150   | 162   | 164   | 168   | 170   | 174   | 178   | 182   | 190   | 194    |
| Estimated Manpower Availability               | 8,842 | 8,918 | 9,107 | 9,220 | 9,380 | 9,512 | 9,644 | 9,776 | 9,908 | 10,068 |
| Estimated Manpower Availability(Teachers)     | 7,035 | 7,714 | 7,847 | 7,964 | 7,980 | 8,056 | 8,132 | 8,208 | 8,284 | 8,360  |
| Estimated Total Availability (000's)          | 41    | 42    | 45    | 47    | 50    | 52    | 54    | 56    | 58    | 61     |

**MANPOWER NEEDS AND AVAILABILITY**

**State: Illinois**

|   | 1968    | 1969    | 1970    | 1971    | 1972    | 1973    | 1974    | 1975    | 1976    | 1977    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <u>High School Skill Level</u>                |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated                | 1,878   | 2,190   | 2,433   | 2,514   | 2,587   | 2,650   | 2,720   | 2,800   | 2,800   | 2,800   |
| Alternative I Needs Estimated                 | 6,694   | 6,807   | 6,928   | 7,068   | 7,220   | 7,336   | 7,452   | 7,580   | 7,708   | 7,842   |
| Alternative II Needs Estimated                | 2,113   | 2,144   | 2,179   | 2,219   | 2,264   | 2,296   | 2,328   | 2,364   | 2,400   | 2,426   |
| Estimated Manpower Availability               | 30,144  | 31,152  | 31,872  | 32,784  | 33,680  | 34,624  | 35,552  | 36,528  | 37,504  | 38,496  |
| Estimated Total Availability (000's)          | 1,884   | 1,947   | 1,992   | 2,049   | 2,105   | 2,164   | 2,222   | 2,285   | 2,344   | 2,406   |
| <u>One- to Three-Year College Skill Level</u> |         |         |         |         |         |         |         |         |         |         |
| Estimated Manpower Availability               | 10,752  | 11,288  | 11,424  | 11,760  | 12,112  | 12,464  | 12,832  | 13,200  | 13,568  | 13,952  |
| Estimated Total Availability (000's)          | 672     | 697     | 714     | 735     | 757     | 779     | 802     | 825     | 848     | 872     |
| <u>Four-Year College Skill Level</u>          |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated                | 5,225   | 5,264   | 5,260   | 5,270   | 5,278   | 5,285   | 5,290   | 5,297   | 5,297   | 5,297   |
| Alternative I Needs Estimated                 | 17,716  | 17,755  | 17,861  | 17,917  | 18,010  | 18,100  | 18,199  | 18,299  | 18,403  | 18,511  |
| Alternative II Needs Estimated                | 853     | 856     | 860     | 958     | 998     | 1,070   | 1,081   | 1,129   | 1,179   | 1,231   |
| Estimated Manpower Availability               | 197,242 | 198,877 | 199,463 | 200,104 | 201,791 | 203,492 | 205,117 | 207,719 | 212,513 | 217,513 |
| Estimated Manpower Availability(Teachers)     | 96,170  | 97,221  | 98,287  | 99,568  | 100,463 | 101,572 | 102,682 | 103,821 | 104,959 | 106,113 |
| Estimated Total Availability (000's)          | 692     | 736     | 761     | 796     | 823     | 870     | 907     | 946     | 985     | 1,025   |

**MANPOWER NEEDS AND AVAILABILITY**

State: Indiana

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>High School Skill Level</b>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 261    | 278    | 282    | 293    | 304    | 315    | 326    | 337    | 337    | 337    |
| Alternative 1 Needs Estimated                 | 4,929  | 4,903  | 4,984  | 5,076  | 5,182  | 5,249  | 5,317  | 5,391  | 5,435  | 5,539  |
| Alternative 2 Needs Estimated                 | 1,566  | 1,587  | 1,609  | 1,637  | 1,666  | 1,687  | 1,707  | 1,727  | 1,753  | 1,779  |
| Estimated Manpower Availability               | 20,034 | 20,559 | 21,084 | 21,609 | 22,155 | 22,701 | 23,247 | 23,835 | 24,402 | 24,906 |
| Estimated Total Availability (000's)          | 1,954  | 1,979  | 1,994  | 1,020  | 1,035  | 1,081  | 1,107  | 1,135  | 1,162  | 1,186  |
| <b>One- to Three-Year College Skill Level</b> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 5,607  | 5,706  | 5,955  | 6,174  | 6,363  | 6,552  | 6,762  | 6,951  | 7,161  | 7,371  |
| Estimated Total Availability (000's)          | 267    | 276    | 285    | 294    | 303    | 312    | 322    | 331    | 341    | 351    |
| <b>Four-Year College Skill Level</b>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 163    | 164    | 164    | 164    | 164    | 164    | 164    | 165    | 165    | 165    |
| Alternative 1 Needs Estimated                 | 1,028  | 1,060  | 1,108  | 1,151  | 1,194  | 1,245  | 1,293  | 1,347  | 1,401  | 1,462  |
| Alternative 2 Needs Estimated                 | 524    | 541    | 560    | 580    | 600    | 644    | 659    | 684    | 708    | 739    |
| Estimated Manpower Availability               | 54,905 | 54,806 | 55,607 | 56,429 | 57,347 | 58,669 | 58,907 | 59,782 | 60,637 | 61,533 |
| Estimated Manpower Availability (Teachers)    | 48,146 | 48,632 | 49,118 | 49,604 | 50,107 | 50,503 | 51,095 | 51,613 | 52,132 | 52,650 |
| Estimated Total Availability (000's)          |        |        |        |        |        |        |        |        |        |        |

MANPOWER NEEDS AND AVAILABILITY

State: Iowa

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>               |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 465    | 561    | 572    | 612    | 652    | 692    | 732    | 772    | 772    | 772    |
| Alternative 1 Needs Estimated                | 5,343  | 5,446  | 5,561  | 5,582  | 5,631  | 5,673  | 5,714  | 5,767  | 5,810  | 5,876  |
| Alternative 2 Needs Estimated                | 1,760  | 1,776  | 1,792  | 1,811  | 1,815  | 1,849  | 1,864  | 1,879  | 1,893  | 1,912  |
| Estimated Manpower Availability              | 11,529 | 12,189 | 12,390 | 12,600 | 12,789 | 12,999 | 13,266 | 13,390 | 13,608 | 13,818 |
| Estimated Total Availability (000's)         | 577    | 580    | 590    | 600    | 600    | 619    | 629    | 638    | 648    | 658    |
| <u>One-to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability              | 3,706  | 3,799  | 4,074  | 4,138  | 4,221  | 4,305  | 4,389  | 4,473  | 4,557  | 4,630  |
| Estimated Total Availability (000's)         | 186    | 199    | 194    | 198    | 201    | 205    | 209    | 213    | 217    | 220    |
| <u>Four-Year College Skill Level</u>         |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 902    | 920    | 932    | 965    | 982    | 1,001  | 1,019  | 1,039  | 1,039  | 1,039  |
| Alternative 1 Needs Estimated                | 842    | 864    | 882    | 918    | 944    | 974    | 1,006  | 1,038  | 1,038  | 1,038  |
| Alternative 2 Needs Estimated                | 415    | 445    | 458    | 471    | 484    | 498    | 514    | 528    | 547    | 567    |
| Estimated Manpower Availability              | 34,144 | 34,365 | 34,568 | 34,760 | 35,010 | 35,212 | 35,415 | 35,626 | 35,830 | 36,279 |
| Estimated Manpower Availability(Teachers)    | 30,784 | 30,858 | 30,914 | 30,988 | 31,062 | 31,117 | 31,173 | 31,247 | 31,302 | 31,575 |
| Estimated Total Availability (000's)         | 169    | 167    | 174    | 181    | 188    | 195    | 202    | 209    | 217    | 224    |

MANPOWER NEEDS AND AVAILABILITY

State: Kansas

|  | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| High School Skill Level                    |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated             | 285    | 327    | 359    | 384    | 399    | 424    | 449    | 484    | 509    |
| Alternative 1 Needs Estimated              | 1,317  | 1,341  | 1,368  | 1,395  | 2,035  | 2,056  | 2,077  | 2,101  | 2,092  |
| Alternative 2 Needs Estimated              | 699    | 695    | 694    | 622    | 631    | 639    | 644    | 651    | 658    |
| Estimated Manpower Availability            | 12,235 | 12,591 | 12,771 | 13,941 | 13,311 | 13,501 | 13,851 | 14,121 | 14,391 |
| Estimated Total Availability (000's)       | 454    | 461    | 473    | 483    | 493    | 503    | 513    | 523    | 533    |
| One- to Three-Year College Skill Level     |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability            | 4,536  | 4,644  | 4,752  | 4,860  | 4,941  | 5,049  | 5,157  | 5,265  | 5,373  |
| Estimated Total Availability (000's)       | 168    | 172    | 176    | 180    | 185    | 187    | 191    | 195    | 199    |
| Four-Year College Skill Level              |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated             | 1,007  | 1,004  | 1,101  | 1,101  | 1,101  | 1,101  | 1,101  | 1,101  | 1,101  |
| Alternative 1 Needs Estimated              | 773    | 736    | 815    | 816    | 836    | 877    | 902    | 926    | 951    |
| Alternative 2 Needs Estimated              | 407    | 406    | 421    | 426    | 441    | 453    | 463    | 476    | 491    |
| Estimated Manpower Availability            | 30,158 | 30,472 | 36,786 | 31,146 | 31,487 | 31,801 | 32,161 | 32,502 | 33,841 |
| Estimated Manpower Availability (Teachers) | 35,977 | 36,125 | 36,277 | 36,448 | 36,609 | 36,752 | 36,923 | 37,075 | 37,227 |
| Estimated Total Availability (000's)       |        |        |        |        |        |        |        |        |        |

MANPOWER NEEDS AND AVAILABILITY

State: Kentucky

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 594    | 597    | 604    | 605    | 608    | 610    | 612    | 615    | 615    | 615    |
| Alternative 1 Needs Estimated                 | 3,659  | 3,701  | 3,747  | 3,794  | 3,847  | 3,887  | 3,935  | 3,979  | 4,022  | 4,069  |
| Alternative 2 Needs Estimated                 | 1,173  | 1,184  | 1,197  | 1,211  | 1,221  | 1,243  | 1,255  | 1,266  | 1,282  | 1,294  |
| Estimated Manpower Availability               | 8,253  | 8,505  | 8,778  | 9,030  | 9,303  | 9,576  | 9,840  | 10,143 | 10,416 | 10,710 |
| Estimated Total Availability (000's)          | 393    | 405    | 418    | 430    | 443    | 456    | 469    | 483    | 496    | 510    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 3,087  | 3,192  | 3,297  | 3,402  | 3,507  | 3,633  | 3,738  | 3,843  | 3,948  | 4,074  |
| Alternative 1 Needs Estimated                 | 147    | 152    | 157    | 162    | 167    | 173    | 178    | 183    | 188    | 194    |
| Estimated Total Availability (000's)          |        |        |        |        |        |        |        |        |        |        |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      | 4      |
| Alternative 1 Needs Estimated                 | 706    | 726    | 749    | 773    | 798    | 822    | 851    | 882    | 912    | 946    |
| Alternative 2 Needs Estimated                 | 386    | 401    | 405    | 416    | 427    | 442    | 455    | 468    | 484    | 500    |
| Estimated Manpower Availability               | 30,065 | 30,436 | 30,821 | 31,248 | 31,577 | 31,962 | 32,354 | 32,753 | 33,156 | 33,565 |
| Estimated Manpower Availability(Teachers)     | 26,810 | 26,992 | 27,188 | 27,384 | 27,566 | 27,762 | 27,944 | 28,154 | 28,350 | 28,546 |
| Estimated Total Availability (000's)          | 155    | 164    | 173    | 184    | 191    | 200    | 210    | 219    | 229    | 235    |

MANPOWER NEEDS AND AVAILABILITY

State: Louisiana

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                 |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                 | 1,264  | 1,265  | 1,266  | 1,267  | 1,268  | 1,269  | 1,270  | 1,271  | 1,271  | 1,271  |
| Alternative 1 Needs Estimated                  | 2,812  | 2,859  | 2,910  | 2,968  | 3,001  | 3,081  | 3,136  | 3,193  | 3,254  | 3,321  |
| Alternative 2 Needs Estimated                  | 904    | 916    | 930    | 946    | 965    | 980    | 994    | 1,010  | 1,030  | 1,046  |
| Estimated Manpower Availability                | 14,100 | 14,340 | 15,180 | 15,750 | 16,350 | 16,920 | 17,550 | 18,180 | 18,810 | 19,470 |
| Estimated Total Availability (000's)           | 470    | 488    | 506    | 525    | 545    | 564    | 585    | 606    | 627    | 649    |
| <u>One - to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| State Manpower Availability                    | 5,100  | 5,310  | 5,520  | 5,760  | 5,970  | 6,210  | 6,450  | 6,690  | 6,930  | 7,170  |
| Estimated Total Availability (000's)           | 170    | 177    | 184    | 192    | 199    | 207    | 215    | 223    | 231    | 236    |
| <u>Four-Year College Skill Level</u>           |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                 | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     | 17     |
| Alternative 1 Needs Estimated                  | 654    | 679    | 713    | 728    | 768    | 803    | 837    | 872    | 911    | 954    |
| Alternative 2 Needs Estimated                  | 275    | 346    | 360    | 373    | 380    | 403    | 419    | 436    | 458    | 476    |
| Estimated Manpower Availability                | 40,153 | 41,061 | 41,969 | 42,893 | 43,864 | 44,955 | 45,923 | 46,810 | 47,845 | 48,909 |
| Estimated Manpower Availability(Teachers)      | 34,632 | 34,611 | 35,159 | 35,723 | 36,304 | 36,885 | 37,483 | 38,080 | 38,695 | 39,309 |
| Estimated Total Availability (000's)           | 203    | 215    | 227    | 239    | 252    | 269    | 278    | 291    | 305    | 320    |

MANPOWER NEEDS AND AVAILABILITY

State: Maine

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High school Skill Level</u>               |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 57     | 61     | 107    | 113    | 117    | 121    | 125    | 130    | 130    | 130    |
| Alternative 1 Needs Estimated                | 1,086  | 1,105  | 1,117  | 1,129  | 1,141  | 1,150  | 1,161  | 1,160  | 1,176  | 1,176  |
| Alternative 2 Needs Estimated                | 358    | 360    | 364    | 366    | 369    | 372    | 374    | 376    | 380    | 384    |
| Estimated Manpower Availability              | 4,728  | 4,824  | 4,816  | 4,392  | 5,088  | 5,184  | 5,356  | 5,376  | 5,448  | 5,544  |
| Estimated Total Availability (000's)         | 197    | 201    | 204    | 208    | 212    | 216    | 219    | 224    | 227    | 231    |
| <u>One-to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability              | 1,440  | 1,488  | 1,512  | 1,560  | 1,584  | 1,632  | 1,656  | 1,704  | 1,728  | 1,776  |
| Estimated Total Availability (000's)         | 60     | 62     | 63     | 65     | 66     | 68     | 69     | 71     | 72     | 74     |
| <u>Four-Year College Skill Level</u>         |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 218    | 244    | 309    | 325    | 347    | 368    | 389    | 402    | 402    | 402    |
| Alternative 1 Needs Estimated                | 220    | 226    | 235    | 246    | 247    | 258    | 266    | 275    | 287    | 296    |
| Alternative 2 Needs Estimated                | 117    | 120    | 123    | 127    | 130    | 134    | 138    | 142    | 150    | 155    |
| Estimated Manpower Availability              | 12,117 | 12,244 | 12,229 | 12,438 | 12,541 | 12,650 | 12,758 | 12,862 | 12,970 | 13,079 |
| Estimated Manpower Availability(Teachers)    | 10,893 | 10,948 | 10,935 | 11,022 | 11,077 | 11,114 | 11,150 | 11,206 | 11,242 | 11,279 |
| Estimated Total Availability (000's)         | 51     | 54     | 56     | 59     | 61     | 64     | 67     | 69     | 72     | 75     |

MANPOWER NEEDS AND AVAILABILITY

State: Maryland

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1,318  | 1,469  | 1,556  | 1,652  | 1,754  | 1,847  | 1,944  | 2,049  | 2,049  | 2,049  |
| Alternative 1 Needs Estimated                 | 1,642  | 1,668  | 1,700  | 1,732  | 1,760  | 1,789  | 1,818  | 1,846  | 1,879  | 1,907  |
| Alternative 2 Needs Estimated                 | 531    | 538    | 547    | 557    | 565    | 573    | 581    | 587    | 606    | 606    |
| Estimated Manpower Availability               | 10,494 | 10,308 | 11,340 | 11,720 | 12,258 | 12,726 | 13,250 | 13,734 | 14,238 | 14,778 |
| Estimated Total Availability (000's)          | 583    | 606    | 630    | 655    | 681    | 707    | 735    | 763    | 791    | 821    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 3,726  | 3,888  | 4,050  | 4,230  | 4,392  | 4,572  | 4,770  | 4,950  | 5,148  | 5,346  |
| Estimated Total Availability (000's)          | 207    | 216    | 225    | 235    | 244    | 254    | 265    | 275    | 286    | 297    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1,208  | 1,430  | 1,731  | 1,781  | 1,830  | 1,878  | 1,926  | 1,979  | 1,979  | 1,979  |
| Alternative 1 Needs Estimated                 | 535    | 578    | 602    | 618    | 643    | 687    | 716    | 729    | 763    | 820    |
| Alternative 2 Needs Estimated                 | 278    | 286    | 301    | 313    | 326    | 336    | 356    | 371    | 386    | 465    |
| Estimated Manpower Availability               | 39,806 | 40,794 | 41,816 | 42,372 | 43,944 | 45,034 | 46,172 | 47,312 | 48,484 | 49,630 |
| Estimated Manpower Availability(Teachers)     | 34,928 | 35,664 | 36,416 | 37,184 | 37,938 | 38,752 | 39,584 | 40,400 | 41,248 | 42,112 |
| Estimated Total Availability (000's)          | 271    | 285    | 300    | 316    | 332    | 349    | 366    | 384    | 402    | 421    |

**MANPOWER NEEDS AND AVAILABILITY**

**State: Massachusetts**

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>High School Skill Level</b>                   |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                   | 529    | 532    | 532    | 532    | 532    | 532    | 532    | 532    | 532    | 532    |
| Alternative 1 Needs Estimated                    | 1,940  | 1,372  | 1,097  | 2,046  | 2,092  | 2,122  | 2,152  | 2,171  | 2,210  | 2,234  |
| Alternative 2 Needs Estimated                    | 619    | 628    | 639    | 645    | 664    | 673    | 681    | 693    | 702    | 712    |
| Estimated Manpower Availability                  | 16,345 | 16,350 | 17,355 | 17,775 | 18,195 | 18,615 | 19,050 | 19,500 | 20,400 | 20,400 |
| Estimated Total Availability (000's)             | 1,103  | 1,130  | 1,157  | 1,185  | 1,213  | 1,241  | 1,270  | 1,300  | 1,329  | 1,360  |
| <b>One - to Three - Year College Skill Level</b> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability                  | 5,430  | 5,655  | 5,805  | 5,955  | 6,120  | 6,270  | 6,425  | 6,600  | 6,780  | 6,945  |
| Estimated Total Availability (000's)             | 366    | 377    | 387    | 397    | 408    | 418    | 429    | 440    | 452    | 463    |
| <b>Four - Year College Skill Level</b>           |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                   | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      | 5      |
| Alternative 1 Needs Estimated                    | 762    | 804    | 830    | 868    | 908    | 950    | 1,000  | 1,087  | 1,088  | 1,139  |
| Alternative 2 Needs Estimate 1                   | 377    | 392    | 411    | 426    | 448    | 467    | 491    | 514    | 536    | 561    |
| Estimated Manpower Availability                  | 53,113 | 53,817 | 54,432 | 55,196 | 55,900 | 56,604 | 57,337 | 58,070 | 58,803 | 59,565 |
| Estimated Manpower Availability(Teachers)        | 47,068 | 47,502 | 47,322 | 48,356 | 48,790 | 49,224 | 49,672 | 50,120 | 50,568 | 51,930 |
| Estimated Total Availability (000's)             | 463    | 481    | 486    | 496    | 474    | 492    | 511    | 530    | 549    | 569    |

MANPOWER NEEDS AND AVAILABILITY

State: Michigan

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977    |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| <b>High School Skill Level</b>                 |        |        |        |        |        |        |        |        |        |         |
| State Manpower Needs Estimated                 | 1,700  | 1,900  | 2,100  | 2,225  | 2,340  | 2,455  | 2,570  | 2,572  | 2,572  | 2,572   |
| Alternative 1 Needs Estimated                  | 6,533  | 6,572  | 6,652  | 6,739  | 6,845  | 6,893  | 6,963  | 7,022  | 7,084  | 7,146   |
| Alternative 2 Needs Estimated                  | 2,012  | 2,023  | 2,057  | 2,085  | 2,114  | 2,121  | 2,154  | 2,171  | 2,190  | 2,211   |
| Estimated Manpower Availability                | 29,960 | 30,890 | 31,640 | 32,500 | 33,380 | 34,280 | 35,200 | 36,120 | 37,060 | 38,020  |
| Estimated Total Availability (000's)           | 1,498  | 1,540  | 1,582  | 1,625  | 1,669  | 1,714  | 1,760  | 1,806  | 1,858  | 1,901   |
| <b>One - to Three-Year College Skill Level</b> |        |        |        |        |        |        |        |        |        |         |
| Estimated Manpower Availability                | 9,580  | 9,900  | 10,200 | 10,520 | 10,860 | 11,180 | 11,520 | 11,860 | 12,220 | 12,560  |
| Estimated Total Availability (000's)           | 475    | 495    | 510    | 526    | 543    | 559    | 576    | 593    | 611    | 628     |
| <b>Four-Year College Skill Level</b>           |        |        |        |        |        |        |        |        |        |         |
| State Manpower Needs Estimated                 | 76     | 76     | 76     | 76     | 76     | 76     | 76     | 76     | 76     | 76      |
| Alternative 1 Needs Estimated                  | 1,483  | 1,591  | 1,650  | 1,716  | 1,779  | 1,853  | 1,930  | 2,010  | 2,093  | 2,182   |
| Alternative 2 Needs Estimated                  | 763    | 790    | 812    | 838    | 868    | 904    | 939    | 974    | 1,015  | 1,050   |
| Estimated Manpower Availability                | 87,771 | 89,145 | 90,542 | 91,256 | 93,305 | 94,850 | 96,315 | 97,815 | 99,316 | 100,852 |
| Estimated Manpower Availability(Teachers)      | 77,891 | 78,749 | 79,622 | 80,496 | 81,385 | 82,290 | 83,195 | 84,115 | 85,036 | 85,972  |
| Estimated Total Availability (000's)           | 494    | 520    | 546    | 573    | 600    | 628    | 656    | 685    | 714    | 744     |

MANPOWER NEEDS AND AVAILABILITY

State: Minnesota

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 643    | 693    | 763    | 817    | 872    | 927    | 982    | 1,032  | 1,032  | 1,032  |
| Alternative 1 Needs Estimated                 | 5,326  | 6,170  | 6,236  | 6,312  | 6,396  | 6,455  | 6,512  | 6,573  | 6,630  | 6,691  |
| Alternative 2 Needs Estimated                 | 2,003  | 2,023  | 2,042  | 2,069  | 2,093  | 2,112  | 2,130  | 2,149  | 2,151  | 2,187  |
| Estimated Manpower Availability               | 12,680 | 13,090 | 13,340 | 13,680 | 14,020 | 14,360 | 14,720 | 15,080 | 15,440 | 15,800 |
| Estimated Total Availability (000's)          | 634    | 650    | 667    | 684    | 701    | 718    | 736    | 754    | 772    | 790    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 5,080  | 5,296  | 5,349  | 5,480  | 5,600  | 5,740  | 5,880  | 6,040  | 6,188  | 6,320  |
| Estimated Total Availability (000's)          | 254    | 260    | 267    | 274    | 289    | 287    | 294    | 302    | 309    | 316    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1,308  | 1,311  | 1,320  | 1,321  | 1,322  | 1,323  | 1,324  | 1,329  | 1,329  | 1,329  |
| Alternative 1 Needs Estimated                 | 1,055  | 1,089  | 1,124  | 1,160  | 1,202  | 1,243  | 1,288  | 1,354  | 1,384  | 1,435  |
| Alternative 2 Needs Estimated                 | 498    | 512    | 527    | 545    | 565    | 581    | 602    | 624    | 646    | 668    |
| Estimated Manpower Availability               | 41,880 | 42,416 | 42,773 | 42,547 | 44,103 | 44,077 | 45,271 | 45,865 | 46,439 | 47,052 |
| Estimated Manpower Availability (Teachers)    | 37,400 | 37,736 | 38,072 | 38,427 | 38,763 | 39,117 | 39,471 | 39,825 | 40,179 | 40,532 |
| Estimated Total Availability (000's)          | 224    | 235    | 245    | 256    | 267    | 278    | 290    | 302    | 313    | 325    |

MANPOWER NEEDS AND AVAILABILITY

State: Mississippi

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | -      | -      | -      | -      | -      | -      | -      | -      | -      | -      |
| Alternative 1 Needs Estimated                 | 3,393  | 3,420  | 3,458  | 3,492  | 3,526  | 3,559  | 3,592  | 3,625  | 3,656  | 3,691  |
| Alternative 2 Needs Estimated                 | 1,049  | 1,058  | 1,067  | 1,076  | 1,086  | 1,097  | 1,106  | 1,115  | 1,126  | 1,135  |
| Estimated Manpower Availability               | 6,028  | 6,226  | 6,440  | 6,644  | 6,864  | 7,084  | 7,304  | 7,524  | 7,766  | 7,986  |
| Estimated Total Availability (000's)          | 274    | 283    | 293    | 302    | 312    | 322    | 332    | 342    | 353    | 363    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 2,338  | 2,464  | 2,552  | 2,640  | 2,728  | 2,816  | 2,904  | 2,992  | 3,080  | 3,168  |
| Estimated Total Availability (000's)          | 100    | 112    | 116    | 120    | 124    | 128    | 132    | 136    | 140    | 144    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      | 1      |
| Alternative 1 Needs Estimated                 | 562    | 581    | 599    | 618    | 636    | 655    | 675    | 700    | 721    | 750    |
| Alternative 2 Needs Estimated                 | 225    | 302    | 390    | 512    | 527    | 537    | 548    | 559    | 571    | 582    |
| Estimated Manpower Availability               | 23,682 | 24,020 | 24,365 | 24,732 | 25,078 | 25,461 | 25,485 | 26,212 | 26,596 | 27,001 |
| Estimated Manpower Availability(Teachers)     | 21,189 | 21,402 | 21,615 | 21,828 | 22,042 | 22,271 | 22,501 | 22,714 | 22,944 | 23,173 |
| Estimated Total Availability (000's)          | 112    | 119    | 125    | 132    | 138    | 145    | 152    | 159    | 166    | 174    |

MANPOWER NEEDS AND AVAILABILITY

State: Missouri

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                 |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                 | 737    | 776    | 776    | 776    | 776    | 776    | 776    | 776    | 776    | 776    |
| Alternative 1 Needs Estimated                  | 5,776  | 5,849  | 5,929  | 6,014  | 6,109  | 6,186  | 6,263  | 6,344  | 6,427  | 6,508  |
| Alternative 2 Needs Estimated                  | 1,871  | 1,891  | 1,915  | 1,942  | 1,969  | 1,995  | 2,018  | 2,040  | 2,065  | 2,079  |
| Estimated Manpower Availability                | 13,320 | 13,680 | 14,040 | 14,415 | 14,796 | 15,174 | 15,552 | 15,948 | 16,344 | 16,740 |
| Estimated Total Availability (000's)           | 740    | 760    | 780    | 801    | 822    | 843    | 864    | 886    | 908    | 930    |
| <u>One - to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability                | 4,680  | 4,806  | 4,950  | 5,004  | 5,238  | 5,382  | 5,544  | 5,688  | 5,832  | 5,994  |
| Estimated Total Availability (000's)           | 260    | 267    | 275    | 283    | 291    | 299    | 308    | 316    | 324    | 333    |
| <u>Four-Year College Skill Level</u>           |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                 | 88     | 99     | 92     | 93     | 94     | 95     | 96     | 96     | 96     | 96     |
| Alternative 1 Needs Estimated                  | 984    | 1,006  | 1,055  | 1,091  | 1,128  | 1,168  | 1,213  | 1,258  | 1,296  | 1,337  |
| Alternative 2 Needs Estimated                  | 510    | 526    | 543    | 563    | 581    | 599    | 621    | 640    | 659    | 692    |
| Estimated Manpower Availability                | 49,557 | 44,697 | 44,650 | 45,208 | 45,780 | 46,351 | 46,941 | 47,527 | 48,130 | 48,720 |
| Estimated Manpower Availability(Teachers)      | 32,823 | 30,159 | 29,448 | 29,754 | 30,074 | 30,393 | 30,713 | 31,047 | 31,380 | 31,700 |
| Estimated Total Availability (000's)           | 263    | 276    | 289    | 303    | 317    | 321    | 346    | 360    | 375    | 390    |

MANPOWER NEEDS AND AVAILABILITY

State: Montana

|   | 1968  | 1969  | 1970  | 1971  | 1972  | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |       |       |       |       |       |        |        |        |        |        |
| State Manpower Needs Estimated                | 226   | 262   | 262   | 262   | 262   | 262    | 262    | 262    | 262    | 262    |
| Alternative 1 Needs Estimated                 | 966   | 974   | 987   | 1,000 | 1,037 | 1,047  | 1,055  | 1,066  | 1,073  | 1,081  |
| Alternative 2 Needs Estimated                 | 314   | 316   | 320   | 321   | 326   | 328    | 334    | 335    | 339    | 342    |
| Estimated Manpower Availability               | 4,224 | 4,320 | 4,416 | 4,512 | 4,640 | 4,726  | 4,832  | 4,938  | 5,056  | 5,152  |
| Estimated Total Availability (000's)          | 132   | 135   | 138   | 141   | 145   | 148    | 151    | 154    | 158    | 161    |
| <u>One- to Three-Year College Skill Level</u> |       |       |       |       |       |        |        |        |        |        |
| Estimated Manpower Availability               | 1,792 | 1,824 | 1,884 | 1,920 | 1,952 | 1,984  | 2,048  | 2,080  | 2,144  | 2,176  |
| Estimated Total Availability (000's)          | 56    | 57    | 59    | 60    | 61    | 62     | 64     | 65     | 67     | 68     |
| <u>Four-Year College Skill Level</u>          |       |       |       |       |       |        |        |        |        |        |
| State Manpower Needs Estimated                | 218   | 224   | 224   | 224   | 224   | 224    | 224    | 224    | 224    | 224    |
| Alternative 1 Needs Estimated                 | 360   | 365   | 374   | 381   | 391   | 398    | 406    | 414    | 424    | 433    |
| Alternative 2 Needs Estimated                 | 192   | 195   | 197   | 200   | 204   | 208    | 211    | 214    | 217    | 221    |
| Estimated Manpower Availability               | 9,423 | 9,545 | 9,687 | 9,810 | 9,952 | 10,074 | 10,197 | 10,371 | 10,493 | 10,635 |
| Estimated Total Availability (Teachers)       | 8,015 | 8,073 | 8,151 | 8,210 | 8,238 | 8,346  | 8,405  | 8,483  | 8,541  | 8,619  |
| Estimated Total Availability (000's)          | 44    | 46    | 47    | 50    | 52    | 54     | 56     | 59     | 61     | 63     |

MANPOWER NEEDS AND AVAILABILITY

State: Nebraska

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>               |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 337    | 423    | 456    | 479    | 522    | 554    | 581    | 582    | 582    | 582    |
| Alternative 1 Needs Estimated                | 1,350  | 1,413  | 1,434  | 1,458  | 1,475  | 1,499  | 1,504  | 1,520  | 1,534  | 1,549  |
| Alternative 2 Needs Estimated                | 449    | 453    | 459    | 464    | 472    | 474    | 483    | 486    | 491    | 496    |
| Estimated Manpower Availability              | 6,877  | 7,015  | 7,133  | 7,292  | 7,429  | 7,567  | 7,725  | 7,866  | 8,004  | 8,105  |
| Estimated Total Availability (000's)         | 299    | 305    | 311    | 315    | 323    | 329    | 336    | 342    | 348    | 355    |
| <u>One-to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability              | 2,461  | 2,507  | 2,553  | 2,599  | 2,668  | 2,714  | 2,783  | 2,829  | 2,875  | 2,944  |
| Estimated Total Availability (000's)         | 197    | 197    | 197    | 197    | 197    | 197    | 197    | 197    | 197    | 197    |
| <u>Four-Year College Skill Level</u>         |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 14     | 24     | 49     | 51     | 52     | 55     | 56     | 57     | 57     | 57     |
| Alternative 1 Needs Estimated                | 601    | 613    | 628    | 641    | 655    | 671    | 687    | 704    | 725    | 744    |
| Alternative 2 Needs Estimated                | 328    | 333    | 339    | 345    | 352    | 358    | 367    | 373    | 381    | 389    |
| Estimated Manpower Availability              | 17,977 | 18,142 | 18,307 | 18,491 | 18,656 | 18,840 | 19,046 | 19,241 | 19,435 | 19,578 |
| Estimated Manpower Availability(Teachers)    | 15,976 | 16,049 | 16,122 | 16,214 | 16,287 | 16,379 | 16,470 | 16,543 | 16,626 | 16,726 |
| Estimated Total Availability (000's)         | 87     | 91     | 95     | 99     | 103    | 107    | 112    | 116    | 120    | 124    |

MANPOWER NEEDS AND AVAILABILITY

State: Nevada

|  | 1968  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <u>High School Skill Level</u>               |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated               | 96    | 115   | 140   | 162   | 184   | 206   | 218   | 225   | 225   | 225   |
| Alternative 1 Needs Estimated                | 552   | 600   | 613   | 623   | 642   | 653   | 665   | 666   | 677   | 688   |
| Alternative 2 Needs Estimated                | 212   | 214   | 217   | 220   | 225   | 228   | 233   | 236   | 236   | 245   |
| Estimated Manpower Availability              | 2,323 | 2,438 | 2,576 | 2,691 | 2,852 | 2,990 | 3,151 | 3,312 | 3,473 | 3,657 |
| Estimated Total Availability (000's)         | 101   | 106   | 112   | 117   | 124   | 130   | 137   | 144   | 151   | 159   |
| <u>One-to Three-Year College Skill Level</u> |       |       |       |       |       |       |       |       |       |       |
| Estimated Manpower Availability              | 266   | 1,912 | 1,058 | 1,104 | 1,173 | 1,219 | 1,283 | 1,357 | 1,426 | 1,495 |
| Estimated Total Availability (000's)         | 42    | 44    | 46    | 48    | 51    | 52    | 56    | 59    | 62    | 65    |
| <u>Four-Year College Skill Level</u>         |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated               | 24    | 39    | 54    | 68    | 84    | 94    | 104   | 109   | 109   | 109   |
| Alternative 1 Needs Estimated                | 204   | 266   | 215   | 220   | 224   | 228   | 235   | 239   | 247   | 253   |
| Alternative 2 Needs Estimated                | 97    | 98    | 99    | 102   | 104   | 106   | 109   | 111   | 116   | 120   |
| Estimated Manpower Availability              | 5,558 | 5,792 | 6,049 | 6,284 | 6,575 | 6,849 | 7,140 | 7,506 | 7,763 | 8,112 |
| Estimated Total Availability (000's)         | 4,822 | 5,110 | 5,198 | 5,387 | 5,609 | 5,814 | 6,036 | 6,310 | 6,498 | 6,755 |
|  | 32    | 34    | 37    | 39    | 42    | 45    | 48    | 52    | 55    | 59    |

MANPOWER NEEDS AND AVAILABILITY

State: New Hampshire

|  | 1968  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <u>High School Skill Level</u>               |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated               | 127   | 128   | 252   | 289   | 320   | 371   | 402   | 455   | 488   | 488   |
| Alternative 1 Needs Estimated                | 744   | 751   | 737   | 766   | 776   | 781   | 787   | 794   | 800   | 806   |
| Alternative 2 Needs Estimated                | 246   | 247   | 251   | 352   | 255   | 256   | 256   | 257   | 260   | 261   |
| Estimated Manpower Availability              | 3,168 | 3,288 | 3,384 | 3,504 | 3,624 | 3,744 | 3,840 | 3,984 | 4,104 | 4,224 |
| Estimated Total Availability (000's)         | 132   | 137   | 141   | 146   | 151   | 156   | 160   | 166   | 171   | 176   |
| <u>One-to Three-Year College Skill Level</u> |       |       |       |       |       |       |       |       |       |       |
| Estimated Manpower Availability              | 1,032 | 1,080 | 1,128 | 1,132 | 1,200 | 1,248 | 1,272 | 1,320 | 1,368 | 1,416 |
| Estimated Total Availability (000's)         | 43    | 45    | 47    | 48    | 50    | 52    | 53    | 55    | 57    | 59    |
| <u>Four-Year College Skill Level</u>         |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated               | 12    | 17    | 17    | 17    | 17    | 17    | 17    | 18    | 18    | 18    |
| Alternative 1 Needs Estimated                | 151   | 155   | 158   | 162   | 167   | 172   | 178   | 185   | 191   | 197   |
| Alternative 2 Needs Estimated                | 83    | 85    | 86    | 88    | 90    | 93    | 96    | 98    | 101   | 104   |
| Estimated Manpower Availability              | 7,119 | 7,306 | 7,451 | 7,626 | 7,788 | 7,935 | 8,147 | 8,333 | 8,534 | 8,720 |
| Estimated Total Availability (000's)         | 6,063 | 6,178 | 6,278 | 6,378 | 6,492 | 6,607 | 6,737 | 6,821 | 6,950 | 7,064 |

MANPOWER NEEDS AND AVAILABILITY

State: New Jersey

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1,948  | 1,948  | 1,948  | 1,948  | 1,948  | 1,948  | 1,948  | 1,948  | 1,948  | 1,948  |
| Alternative 1 Needs Estimated                 | 3,293  | 3,464  | 3,572  | 3,686  | 3,811  | 3,923  | 4,014  | 4,143  | 4,263  | 4,388  |
| Alternative 2 Needs Estimated                 | 1,058  | 1,086  | 1,118  | 1,152  | 1,188  | 1,229  | 1,254  | 1,287  | 1,325  | 1,360  |
| Estimated Manpower Availability               | 13,850 | 14,322 | 14,839 | 15,378 | 15,939 | 16,500 | 17,094 | 17,688 | 18,315 | 18,942 |
| Estimated Total Availability (000's)          | 1,255  | 1,302  | 1,343  | 1,398  | 1,449  | 1,500  | 1,554  | 1,608  | 1,665  | 1,722  |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 4,455  | 4,642  | 4,820  | 5,027  | 5,225  | 5,424  | 5,643  | 5,863  | 6,083  | 6,314  |
| Estimated Total Availability (000's)          | 405    | 422    | 439    | 457    | 475    | 494    | 513    | 533    | 553    | 574    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 511    | 511    | 511    | 511    | 511    | 511    | 511    | 511    | 511    | 511    |
| Alternative 1 Needs Estimated                 | 954    | 997    | 1,042  | 1,093  | 1,145  | 1,199  | 1,256  | 1,317  | 1,379  | 1,452  |
| Alternative 2 Needs Estimated                 | 475    | 495    | 518    | 541    | 567    | 593    | 621    | 650    | 681    | 713    |
| Estimated Manpower Availability               | 65,970 | 67,426 | 68,901 | 70,423 | 71,972 | 73,546 | 75,158 | 76,820 | 78,432 | 80,223 |
| Estimated Manpower Availability(Teachers)     | 60,349 | 61,499 | 62,644 | 63,856 | 65,075 | 66,308 | 67,568 | 68,856 | 70,171 | 71,500 |
| Estimated Total Availability (000's)          | 511    | 539    | 567    | 597    | 627    | 658    | 690    | 724    | 751    | 793    |

MANPOWER NEEDS AND AVAILABILITY

State: New Mexico

|   | 1958   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 280    | 328    | 348    | 371    | 383    | 404    | 426    | 457    | 457    | 457    |
| Alternative 1 Needs Estimated                 | 504    | 915    | 929    | 945    | 962    | 975    | 994    | 1,001  | 1,012  | 1,026  |
| Alternative 2 Needs Estimated                 | 299    | 302    | 306    | 311    | 313    | 319    | 325    | 329    | 331    | 336    |
| Estimated Manpower Availability               | 6,194  | 6,232  | 6,460  | 6,650  | 6,878  | 7,144  | 7,372  | 7,638  | 7,904  | 8,132  |
| Estimated Total Availability (000's)          | 158    | 164    | 170    | 175    | 181    | 188    | 194    | 201    | 208    | 214    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 2,584  | 2,660  | 2,774  | 2,850  | 2,926  | 3,046  | 3,154  | 3,230  | 3,344  | 3,458  |
| Estimated Total Availability (000's)          | 68     | 70     | 73     | 75     | 77     | 80     | 83     | 85     | 88     | 91     |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1*     | 18     | 19     | 19     | 19     | 19     | 19     | 21     | 21     | 21     |
| Alternative 1 Needs Estimated                 | 250    | 367    | 377    | 386    | 396    | 407    | 418    | 433    | 444    | 457    |
| Alternative 2 Needs Estimate <sup>2</sup>     | 174    | 177    | 183    | 187    | 192    | 197    | 203    | 209    | 212    | 218    |
| Estimated Manpower Availability               | 14,710 | 15,020 | 15,412 | 15,744 | 16,114 | 16,506 | 16,897 | 17,289 | 17,719 | 18,111 |
| Estimated Manpower Availability(Teachers)     | 12,012 | 12,208 | 12,448 | 12,666 | 12,884 | 13,124 | 13,368 | 13,603 | 13,843 | 14,083 |
| Estimated Total Availability (000's)          | 71     | 74     | 78     | 81     | 85     | 89     | 93     | 97     | 102    | 106    |

MANPOWER NEEDS AND AVAILABILITY

State: New York

|  | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
|--|------|------|------|------|------|------|------|------|------|------|
| <u>High School Skill Level</u>                 |      |      |      |      |      |      |      |      |      |      |
| State Manpower Needs Estimated                 |      |      |      |      |      |      |      |      |      |      |
| Alternative 1 Needs Estimated                  |      |      |      |      |      |      |      |      |      |      |
| Alternative 2 Needs Estimated                  |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability                |      |      |      |      |      |      |      |      |      |      |
| Estimated Total Availability (000's)           |      |      |      |      |      |      |      |      |      |      |
| <u>One - to Three-Year College Skill Level</u> |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability                |      |      |      |      |      |      |      |      |      |      |
| Estimated Total Availability (000's)           |      |      |      |      |      |      |      |      |      |      |
| <u>Four-Year College Skill Level</u>           |      |      |      |      |      |      |      |      |      |      |
| State Manpower Needs Estimated                 |      |      |      |      |      |      |      |      |      |      |
| Alternative 1 Needs Estimated                  |      |      |      |      |      |      |      |      |      |      |
| Alternative 2 Needs Estimated                  |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability                |      |      |      |      |      |      |      |      |      |      |
| Estimated Manpower Availability(Teachers)      |      |      |      |      |      |      |      |      |      |      |
| Estimated Total Availability (000's)           |      |      |      |      |      |      |      |      |      |      |

State: North Carolina

MANPOWER NEEDS AND AVAILABILITY

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1,292  | 1,478  | 1,611  | 1,742  | 1,865  | 1,992  | 2,118  | 2,246  | 2,246  | 2,246  |
| Alternative 1 Needs Estimated                 | 4,628  | 4,695  | 4,771  | 4,849  | 4,933  | 5,010  | 5,088  | 5,167  | 5,251  | 5,338  |
| Alternative 2 Needs Estimated                 | 1,403  | 1,513  | 1,532  | 1,559  | 1,582  | 1,605  | 1,623  | 1,649  | 1,670  | 1,695  |
| Estimated Manpower Availability               | 13,480 | 13,940 | 14,440 | 14,920 | 15,440 | 15,940 | 16,480 | 17,020 | 17,560 | 18,120 |
| Estimated Total Availability (000's)          | 634    | 697    | 722    | 746    | 772    | 797    | 824    | 851    | 878    | 906    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 5,080  | 5,260  | 5,460  | 5,660  | 5,860  | 6,060  | 6,260  | 6,460  | 6,680  | 6,900  |
| Estimated Total Availability (000's)          | 254    | 263    | 273    | 283    | 293    | 303    | 313    | 323    | 334    | 345    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 3,125  | 3,393  | 3,429  | 3,453  | 3,470  | 3,489  | 3,508  | 3,521  | 3,521  | 3,521  |
| Alternative 1 Needs Estimated                 | 1,032  | 1,071  | 1,114  | 1,158  | 1,205  | 1,237  | 1,310  | 1,367  | 1,396  | 1,489  |
| Alternative 2 Needs Estimated                 | 515    | 534    | 553    | 575    | 597    | 621    | 646    | 673    | 701    | 731    |
| Estimated Manpower Availability               | 54,022 | 54,345 | 55,921 | 56,901 | 57,877 | 58,873 | 59,905 | 60,938 | 61,986 | 63,052 |
| Estimated Manpower Availability/Teachers,     | 48,462 | 49,741 | 50,381 | 51,637 | 51,693 | 52,365 | 53,038 | 53,726 | 54,432 | 54,432 |
| Estimated Total Availability (000's)          | 278    | 293    | 309    | 326    | 342    | 350    | 377    | 395    | 413    | 431    |

MANPOWER NEEDS AND AVAILABILITY

State: North Dakota

|   | 1968  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <u>High School Skill Level</u>                |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 99    | 121   | 142   | 142   | 142   | 142   | 142   | 142   | 142   | 142   |
| Alternative 1 Needs Estimated                 | 1,267 | 1,276 | 1,290 | 1,304 | 1,321 | 1,330 | 1,341 | 1,352 | 1,365 | 1,377 |
| Alternative 2 Needs Estimated                 | 421   | 423   | 428   | 431   | 435   | 431   | 443   | 444   | 449   | 454   |
| Estimated Manpower Availability (000's)       | 3,200 | 3,264 | 3,360 | 3,424 | 3,488 | 3,584 | 3,648 | 3,744 | 3,808 | 3,904 |
| Estimated Total Availability (000's)          | 100   | 102   | 105   | 107   | 109   | 112   | 114   | 117   | 119   | 122   |
| <u>One- to Three-Year College Skill Level</u> |       |       |       |       |       |       |       |       |       |       |
| Estimated Manpower Availability               | 1,600 | 1,632 | 1,664 | 1,696 | 1,728 | 1,760 | 1,792 | 1,824 | 1,856 | 1,888 |
| Estimated Total Availability (000's)          | 50    | 51    | 52    | 53    | 54    | 55    | 56    | 57    | 58    | 59    |
| <u>Four-Year College Skill Level</u>          |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 95    | 101   | 110   | 115   | 120   | 125   | 130   | 136   | 136   | 136   |
| Alternative 1 Needs Estimated                 | 348   | 436   | 441   | 451   | 457   | 466   | 475   | 482   | 494   | 503   |
| Alternative 2 Needs Estimated                 | 210   | 212   | 215   | 222   | 225   | 227   | 230   | 235   | 240   | 244   |
| Estimated Manpower Availability               | 8,756 | 8,860 | 8,964 | 9,068 | 9,120 | 9,224 | 9,328 | 9,412 | 9,484 | 9,588 |
| Estimated Manpower Availability(Teachers)     | 7,700 | 7,740 | 7,750 | 7,800 | 7,840 | 7,880 | 7,920 | 7,940 | 7,980 | 8,020 |
| Estimated Total Availability (000's)          | 36    | 35    | 37    | 37    | 40    | 42    | 44    | 46    | 47    | 49    |

MANPOWER NEEDS AND AVAILABILITY

State: Ohio

|  | 1968    | 1969    | 1970    | 1971    | 1972    | 1973    | 1974    | 1975    | 1976    | 1977    |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <u>High School Skill Level</u>                 |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated                 | 1,150   | 1,216   | 1,300   | 1,329   | 1,359   | 1,389   | 1,419   | 1,549   | 1,549   | 1,549   |
| Alternative 1 Needs Estimated                  | 6,441   | 6,561   | 6,700   | 6,850   | 7,023   | 7,145   | 7,281   | 7,419   | 7,562   | 7,710   |
| Alternative 2 Needs Estimated                  | 2,054   | 2,087   | 2,122   | 2,171   | 2,218   | 2,252   | 2,290   | 2,325   | 2,364   | 2,401   |
| Estimated Manpower Availability                | 25,620  | 26,393  | 27,104  | 27,818  | 28,560  | 29,302  | 30,072  | 30,828  | 31,626  | 32,424* |
| Estimated Total Availability (000's)           | 1,835   | 1,936   | 1,987   | 2,040   | 2,093   | 2,148   | 2,202   | 2,259   | 2,316   |         |
| <u>One - to Three-Year College Skill Level</u> |         |         |         |         |         |         |         |         |         |         |
| Estimated Manpower Availability                | 7,714   | 7,566   | 8,218   | 8,484   | 8,750   | 9,016   | 9,296   | 9,646   | 9,856   | 10,150  |
| Estimated Total Availability (000's)           | 551     | 560     | 587     | 606     | 625     | 644     | 664     | 689     | 704     | 725     |
| <u>Four-Year College Skill Level</u>           |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated                 | 106     | 147     | 179     | 179     | 180     | 180     | 180     | 181     | 181     | 181     |
| Alternative 1 Needs Estimated                  | 1,803   | 1,884   | 1,967   | 2,055   | 2,146   | 2,247   | 2,355   | 2,464   | 2,581   | 2,705   |
| Alternative 2 Needs Estimated                  | 897     | 923     | 965     | 1,007   | 1,052   | 1,099   | 1,147   | 1,200   | 1,257   | 1,315   |
| Estimated Manpower Availability                | 102,956 | 103,540 | 105,030 | 105,534 | 108,054 | 103,574 | 111,138 | 112,638 | 114,742 |         |
| Estimated Total Availability (Teachers)        | 93,808  | 94,832  | 105,888 | 106,944 | 108,016 | 109,088 | 110,176 | 101,264 | 102,384 | 103,520 |
| Estimated Total Availability (000's)           | 592     | 622     | 653     | 685     | 717     | 749     | 783     | 816     | 838     | 873     |

MANPOWER NEEDS AND AVAILABILITY

State: Oklahoma

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>High School Skill Level</b>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 54     | 179    | 179    | 179    | 179    | 179    | 179    | 179    | 179    | 179    |
| Alternative 1 Needs Estimated                 | 4,388  | 5,065  | 5,030  | 5,149  | 5,213  | 5,252  | 5,310  | 5,361  | 5,412  | 5,445  |
| Alternative 2 Needs Estimated                 | 1,613  | 1,628  | 1,643  | 1,662  | 1,680  | 1,697  | 1,712  | 1,728  | 1,742  | 1,758  |
| Estimated Manpower Availability               | 11,043 | 11,313 | 11,610 | 11,934 | 12,231 | 12,555 | 12,852 | 13,176 | 13,500 | 13,824 |
| Estimated Total Availability (000's)          | 409    | 419    | 430    | 442    | 453    | 465    | 476    | 486    | 500    | 512    |
| <b>One- to Three-Year College Skill Level</b> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 3,510  | 3,618  | 3,753  | 3,861  | 3,969  | 4,077  | 4,212  | 4,320  | 4,455  |        |
| Estimated Total Availability (000's)          | 125    | 130    | 134    | 139    | 143    | 147    | 151    | 156    | 160    | 165    |
| <b>Four-Year College Skill Level</b>          |        |        |        |        |        |        |        |        |        |        |
| State Manpow. Needs Estimated                 | 8      | 11     | 11     | 11     | 11     | 11     | 11     | 11     | 12     | 12     |
| Alternative 1 Needs Estimated                 | 720    | 741    | 760    | 785    | 807    | 833    | 861    | 887    | 919    | 949    |
| Alternative 2 Needs Estimated                 | 349    | 358    | 367    | 380    | 391    | 404    | 416    | 428    | 444    | 457    |
| Estimated Manpower Availability               | 30,332 | 30,752 | 31,145 | 31,582 | 32,002 | 32,395 | 32,832 | 33,296 | 33,753 | 34,157 |
| Estimated Manpower Availability (Teachers)    | 25,323 | 26,027 | 26,231 | 26,452 | 26,656 | 26,860 | 27,081 | 27,302 | 27,523 | 27,727 |
| Estimated Total Availability (000's)          | 152    | 160    | 168    | 176    | 184    | 192    | 200    | 208    | 216    | 224    |

MANPOWER NEEDS AND AVAILABILITY

State: Oregon

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 481    | 516    | 524    | 558    | 601    | 643    | 686    | 696    | 696    | 696    |
| Alternative 1 Needs Estimated                 | 1,282  | 1,308  | 1,341  | 1,376  | 1,416  | 1,443  | 1,465  | 1,488  | 1,515  | 1,541  |
| Alternative 2 Needs Estimated                 | 415    | 423    | 431    | 442    | 456    | 457    | 472    | 480    | 487    | 496    |
| Estimated Manpower Availability               | 12,180 | 12,540 | 12,330 | 13,320 | 13,710 | 14,100 | 15,330 | 15,780 | 16,230 | 16,680 |
| Estimated Total Availability (000's)          | 406    | 418    | 431    | 444    | 457    | 470    | 511    | 526    | 541    | 556    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability (000's)       | 4,770  | 4,320  | 5,070  | 5,220  | 5,370  | 5,520  | 5,700  | 5,850  | 6,030  | 6,210  |
| Estimated Total Availability (000's)          | 159    | 164    | 169    | 174    | 179    | 184    | 190    | 195    | 201    | 207    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 15     | 18     | 19     | 20     | 20     | 20     | 21     | 21     | 21     | 21     |
| Alternative 1 Needs Estimated                 | 565    | 582    | 604    | 623    | 644    | 668    | 692    | 715    | 743    | 769    |
| Alternative 2 Needs Estimated                 | 270    | 275    | 286    | 297    | 307    | 317    | 327    | 337    | 349    | 361    |
| Estimated Manpower Availability               | 26,658 | 27,192 | 27,714 | 28,326 | 28,908 | 29,508 | 30,138 | 30,708 | 31,356 | 32,004 |
| Estimated Manpower Availability(Teachers)     | 22,338 | 22,662 | 23,004 | 23,346 | 23,688 | 24,048 | 24,408 | 24,768 | 25,146 | 25,524 |
| Estimated Total Availability (000's)          | 144    | 151    | 158    | 166    | 174    | 182    | 190    | 198    | 207    | 216    |

MANPOWER NEEDS AND AVAILABILITY

State: Pennsylvania

|   | 1968    | 1969    | 1970    | 1971    | 1972    | 1973    | 1974    | 1975    | 1976    | 1977    |
|---|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <u>High School Skill Level</u>                |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated                | 3,426   | 4,297   | 4,713   | 5,065   | 5,409   | 5,750   | 6,185   | 6,312   | 6,512   |         |
| Alternative 1 Needs Estimated                 | 4,368   | 4,455   | 4,554   | 4,664   | 4,794   | 4,875   | 4,960   | 5,002   | 5,138   | 5,231   |
| Alternative 2 Needs Estimated                 | 2,158   | 2,186   | 2,218   | 2,255   | 2,286   | 2,315   | 2,343   | 2,372   | 2,402   | 2,432   |
| Estimated Manpower Availability               | 32,355  | 33,075  | 35,795  | 34,515  | 35,250  | 35,985  | 36,735  | 37,485  | 38,250  | 38,915  |
| Estimated Total Availability (000's)          | 2,157   | 2,205   | 2,253   | 2,301   | 2,350   | 2,399   | 2,454   | 2,499   | 2,550   | 2,601   |
| <u>One- to Three-Year College Skill Level</u> |         |         |         |         |         |         |         |         |         |         |
| Estimated Manpower Availability               | 8,550   | 8,829   | 9,000   | 9,360   | 9,630   | 9,900   | 10,170  | 10,455  | 10,725  | 11,010  |
| Estimated Total Availability (000's)          | 570     | 588     | 606     | 624     | 642     | 660     | 678     | 697     | 715     | 734     |
| <u>Four-Year College Skill Level</u>          |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated                | 1,340   | 1,761   | 2,076   | 2,088   | 2,105   | 2,116   | 2,127   | 2,138   | 2,152   |         |
| Alternative 1 Needs Estimated                 | 1,870   | 1,942   | 2,028   | 2,115   | 2,207   | 2,302   | 2,405   | 2,512   | 2,625   | 2,747   |
| Alternative 2 Needs Estimated                 | 911     | 947     | 985     | 1,025   | 1,067   | 1,113   | 1,164   | 1,216   | 1,265   | 1,322   |
| Estimated Manpower Availability               | 105,399 | 106,573 | 107,538 | 108,529 | 109,520 | 110,524 | 112,534 | 114,538 | 116,543 |         |
| Estimated Manpower Availability(Teachers)     | 95,069  | 95,560  | 96,018  | 96,499  | 96,999  | 97,494  | 98,994  | 100,494 | 102,497 | 104,497 |
| Estimated Total Availability (000's)          | 702     | 735     | 768     | 802     | 836     | 870     | 904     | 934     | 974     | 1,010   |

MANPOWER NEEDS AND AVAILABILITY

State: Rhode Island

|   | 1966   | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|---|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>High School Skill Level</b>                |        |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 95     | 124   | 169   | 202   | 261   | 321   | 355   | 389   | 453   | 433   |
| Alternative 1 Needs Estimated                 | 343    | 347   | 356   | 361   | 373   | 378   | 385   | 390   | 396   | 433   |
| Alternative 2 Needs Estimated                 | 132    | 134   | 137   | 129   | 144   | 146   | 148   | 150   | 153   | 154   |
| Estimated Manpower Availability               | 3,888  | 3,996 | 4,104 | 4,212 | 4,293 | 4,428 | 4,536 | 4,644 | 4,752 | 4,860 |
| Estimated Total Availability (000's)          | 144    | 148   | 152   | 156   | 159   | 164   | 168   | 172   | 176   | .80   |
| <b>One- to Three-Year College Skill Level</b> |        |       |       |       |       |       |       |       |       |       |
| Estimated Manpower Availability               | 1,242  | 1,269 | 1,223 | 1,350 | 1,377 | 1,431 | 1,485 | 1,512 | 1,566 | 1,583 |
| Estimated Total Availability (000's)          | 46     | 47    | 49    | 50    | 51    | 53    | 55    | 56    | 58    | 59    |
| <b>Four-Year College Skill Level</b>          |        |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 98     | 106   | 198   | 198   | 198   | 198   | 198   | 198   | 198   | 198   |
| Alternative 1 Needs Estimated                 | 139    | 144   | 150   | 150   | 162   | 165   | 176   | 183   | 191   | 200   |
| Alternative 2 Needs Estimated                 | 104    | 106   | 109   | 112   | 114   | 118   | 121   | 126   | 129   | 133   |
| Estimated Manpower Availability               | \$,726 | 8,819 | 8,952 | 9,058 | 9,178 | 9,324 | 9,457 | 9,590 | 9,736 | 9,842 |
| Estimated Manpower Availability (Teachers)    | 7,241  | 7,280 | 7,332 | 7,384 | 7,423 | 7,488 | 7,540 | 7,592 | 7,657 | 7,709 |
| Estimated Total Availability (000's)          | 55     | 57    | 60    | 62    | 65    | 68    | 71    | 74    | 77    | 79    |

MANPOWER NEEDS AND AVAILABILITY

State: South Carolina

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 574    | 659    | 800    | 868    | 923    | 979    | 1,032  | 1,084  | 1,084  | 1,084  |
| Alternative 1 Needs Estimated                 | 2,562  | 2,591  | 2,627  | 2,662  | 2,699  | 2,730  | 2,763  | 2,798  | 2,830  | 2,864  |
| Alternative 2 Needs Estimated                 | 1,002  | 1,012  | 1,032  | 1,035  | 1,049  | 1,061  | 1,072  | 1,084  | 1,095  | 1,108  |
| Estimated Manpower Availability               | 5,314  | 6,023  | 6,232  | 6,460  | 6,688  | 6,916  | 7,144  | 7,372  | 7,619  | 7,866  |
| Estimated Total Availability (000's)          | 306    | 317    | 328    | 340    | 352    | 364    | 376    | 388    | 414    | 414    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 2,242  | 2,318  | 2,413  | 2,489  | 2,584  | 2,679  | 2,774  | 2,850  | 2,945  | 3,059  |
| Estimated Total Availability (OCC's)          | 118    | 122    | 127    | 131    | 136    | 141    | 146    | 150    | 155    | 161    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 172    | 276    | 367    | 402    | 438    | 473    | 509    | 549    | 549    | 549    |
| Alternative 1 Needs Estimated                 | 563    | 583    | 606    | 627    | 648    | 674    | 699    | 724    | 753    | 784    |
| Alternative 2 Needs Estimated                 | 279    | 288    | 297    | 307    | 317    | 328    | 339    | 353    | 365    | 379    |
| Estimated Manpower Availability               | 27,570 | 28,020 | 28,478 | 28,936 | 29,394 | 29,852 | 30,346 | 30,804 | 31,298 | 31,809 |
| Estimated Manpower Availability(Teachers)     | 24,786 | 25,075 | 25,381 | 25,687 | 25,993 | 26,299 | 26,622 | 26,928 | 27,251 | 27,591 |
| Estimated Total Availability (000's)          | 147    | 155    | 163    | 171    | 179    | 187    | 196    | 204    | 213    | 222    |

MANPOWER NEEDS AND AVAILABILITY

State: South Dakota

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 209    | 227    | 239    | 241    | 244    | 247    | 250    | 253    | 252    | 253    |
| Alternative 1 Needs Estimated                 | 1,029  | 1,035  | 1,048  | 1,059  | 1,073  | 1,084  | 1,091  | 1,099  | 1,109  | 1,118  |
| Alternative 2 Needs Estimated                 | 327    | 329    | 332    | 334    | 335    | 341    | 344    | 346    | 350    | 353    |
| Estimated Manpower Availability               | 3,503  | 3,565  | 3,638  | 3,720  | 3,782  | 3,844  | 3,906  | 3,953  | 4,050  | 4,123  |
| Estimated Total Availability (000's)          | 113    | 115    | 118    | 120    | 122    | 124    | 126    | 128    | 130    | 133    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 1,612  | 1,612  | 1,643  | 1,674  | 1,705  | 1,736  | 1,767  | 1,798  | 1,798  | 1,829  |
| Estimated Total Availability (000's)          | 52     | 52     | 53     | 54     | 55     | 56     | 57     | 58     | 58     | 59     |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 258    | 280    | 308    | 316    | 320    | 326    | 330    | 335    | 335    | 335    |
| Alternative 1 Needs Estimated                 | 4,81   | 486    | 495    | 504    | 511    | 520    | 530    | 539    | 548    | 416    |
| Alternative 2 Needs Estimated                 | 232    | 234    | 237    | 239    | 244    | 248    | 251    | 254    | 259    | 264    |
| Estimated Manpower Availability               | 10,156 | 10,218 | 10,272 | 10,334 | 10,420 | 12,451 | 16,536 | 19,621 | 19,652 | 10,752 |
| Estimated Manpower Availability(Teachers)     | 9,071  | 9,371  | 9,054  | 9,094  | 9,118  | 9,118  | 9,141  | 9,164  | 9,164  | 9,187  |
| Estimated Total Availability (000's)          | 35     | 37     | 38     | 40     | 42     | 43     | 45     | 47     | 48     | 50     |

**State: Tennessee**

**MANPOWER NEEDS AND AVAILABILITY**

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>High School Skill Level</b>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 674    | 795    | 915    | 1,035  | 1,155  | 1,275  | 1,395  | 1,515  | 1,515  | 1,515  |
| Alternative 1 Needs Estimated                 | 3,286  | 4,045  | 4,102  | 4,162  | 4,227  | 4,283  | 4,334  | 4,399  | 4,461  | 4,522  |
| Alternative 2 Needs Estimated                 | 1,235  | 1,299  | 1,315  | 1,333  | 1,354  | 1,369  | 1,385  | 1,403  | 1,420  | 1,437  |
| Estimated Manpower Availability               | 9,504  | 9,828  | 10,170 | 10,512 | 10,872 | 11,232 | 11,592 | 11,952 | 12,330 | 12,736 |
| Estimated Total Availability (000's)          | 523    | 546    | 565    | 584    | 604    | 624    | 644    | 664    | 685    | 707    |
| <b>One- to Three-Year College Skill Level</b> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 3,546  | 3,690  | 3,816  | 3,942  | 4,086  | 4,230  | 4,374  | 4,518  | 4,662  | 4,806  |
| Estimated Total Availability (000's)          | 107    | 205    | 212    | 219    | 227    | 235    | 243    | 251    | 259    | 267    |
| <b>Four-Year College Skill Level</b>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 241    | 304    | 358    | 423    | 487    | 552    | 617    | 681    | 691    | 691    |
| Alternative 1 Needs Estimated                 | 796    | 824    | 856    | 886    | 947    | 955    | 995    | 1,036  | 1,078  | 1,121  |
| Alternative 2 Needs Estimated                 | 414    | 427    | 441    | 457    | 464    | 491    | 506    | 527    | 546    | 567    |
| Estimated Manpower Availability               | 37,018 | 37,646 | 38,248 | 38,888 | 39,542 | 40,196 | 40,850 | 41,536 | 42,222 | 42,926 |
| Estimated Manpower Availability (Teachers)    | 33,252 | 33,698 | 34,090 | 34,496 | 34,916 | 35,326 | 35,756 | 36,190 | 36,624 | 37,058 |
| Estimated Total Availability (000's)          | 207    | 210    | 221    | 244    | 257    | 270    | 283    | 297    | 311    | 326    |

MANPOWER NEEDS AND AVAILABILITY

State: Texas

|  | 1968    | 1969    | 1970    | 1971    | 1972    | 1973    | 1974    | 1975    | 1976    | 1977    |
|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| <u>High School Skill Level</u>               |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated               | 1,447   | 2,288   | 2,944   | 2,781   | 3,018   | 3,055   | 3,092   | 3,112   | 3,112   | 3,112   |
| Alternative 1 Needs Estimated                | 12,164  | 12,367  | 12,486  | 12,635  | 12,790  | 13,005  | 13,021  | 13,139  | 13,257  | 13,378  |
| Alternative 2 Needs Estimated                | 3,926   | 3,995   | 4,035   | 4,084   | 4,132   | 4,168   | 4,206   | 4,245   | 4,281   | 4,321   |
| Estimated Manpower Availability              | 26,256  | 27,216  | 28,208  | 29,232  | 30,272  | 31,344  | 32,432  | 33,552  | 34,704  | 35,868  |
| Estimated Total Availability (000's)         | 1,641   | 1,701   | 1,763   | 1,827   | 1,892   | 1,959   | 2,027   | 2,097   | 2,169   | 2,243   |
| <u>One-to Three-Year College Skill Level</u> |         |         |         |         |         |         |         |         |         |         |
| Estimated Manpower Availability              | 1,600   | 12,000  | 12,416  | 12,948  | 13,280  | 13,728  | 14,192  | 14,656  | 15,136  | 15,532  |
| Estimated Total Availability (000's)         | 725     | 750     | 776     | 803     | 830     | 858     | 887     | 916     | 946     | 977     |
| <u>Four-Year College Skill Level</u>         |         |         |         |         |         |         |         |         |         |         |
| State Manpower Needs Estimated               | 1,795   | 2,362   | 3,668   | 3,923   | 4,173   | 4,423   | 4,673   | 4,882   | 4,883   | 4,883   |
| Alternative 1 Needs Estimated                | 2,264   | 2,275   | 2,348   | 2,425   | 2,509   | 2,598   | 2,743   | 2,788   | 2,884   | 2,990   |
| Alternative 2 Needs Estimated                | 1,134   | 1,165   | 1,199   | 1,238   | 1,276   | 1,319   | 1,363   | 1,407   | 1,455   | 1,506   |
| Estimated Manpower Availability              | 119,529 | 121,573 | 124,467 | 127,027 | 129,621 | 132,551 | 134,958 | 137,718 | 140,528 | 143,404 |
| Estimated Total Availability (000's)         | 108,137 | 109,972 | 111,843 | 113,747 | 115,685 | 117,657 | 119,646 | 123,760 | 125,868 | 128,096 |

MANPOWER NEEDS AND AVAILABILITY

State: Utah

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 248    | 255    | 261    | 265    | 270    | 274    | 279    | 286    | 286    | 286    |
| Alternative 1 Needs Estimated                 | 605    | 611    | 627    | 640    | 658    | 667    | 676    | 689    | 700    | 711    |
| Alternative 2 Needs Estimated                 | 194    | 197    | 201    | 207    | 213    | 215    | 220    | 228    | 234    | 237    |
| Estimated Manpower Availability               | 7,215  | 7,474  | 7,733  | 7,992  | 8,251  | 8,547  | 8,843  | 9,139  | 9,435  | 9,731  |
| Estimated Total Availability (000's)          | 195    | 202    | 209    | 216    | 223    | 231    | 239    | 247    | 255    | 263    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 3,515  | 3,626  | 3,737  | 3,848  | 3,966  | 4,107  | 4,218  | 4,366  | 4,514  | 4,662  |
| Estimated Total Availability (000's)          | 95     | 98     | 101    | 104    | 108    | 111    | 114    | 118    | 122    | 126    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 13     | 13     | 13     | 13     | 13     | 13     | 13     | 14     | 14     | 14     |
| Alternative 1 Needs Estimated                 | 310    | 320    | 329    | 343    | 352    | 360    | 374    | 389    | 405    | 410    |
| Alternative 2 Needs Estimated                 | 157    | 161    | 166    | 170    | 176    | 181    | 187    | 191    | 198    | 206    |
| Estimated Manpower Availability               | 14,123 | 14,480 | 14,868 | 15,256 | 15,644 | 16,069 | 16,457 | 16,902 | 17,347 | 17,755 |
| Estimated Manpower Availability(Teachers)     | 11,300 | 11,520 | 11,760 | 12,000 | 12,240 | 12,480 | 12,720 | 12,980 | 13,240 | 13,500 |
| Estimated Total Availability (000's)          | 76     | 80     | 84     | 88     | 92     | 97     | 101    | 106    | 111    | 115    |

MANPOWER NEEDS AND AVAILABILITY

State: Vermont

|   | 1968  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <u>High School Skill Level</u>                |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 210   | 424   | 431   | 455   | 479   | 505   | 529   | 544   | 544   | 544   |
| Alternative 1 Needs Estimated                 | 677   | 684   | 688   | 698   | 706   | 713   | 719   | 727   | 733   | 741   |
| Alternative 2 Needs Estimated                 | 228   | 229   | 231   | 233   | 236   | 237   | 238   | 240   | 241   | 242   |
| Estimated Manpower Availability               | 2,117 | 2,175 | 2,233 | 2,291 | 2,349 | 2,407 | 2,465 | 2,523 | 2,610 | 2,668 |
| Estimated Total Availability (000's)          | 73    | 75    | 77    | 79    | 81    | 83    | 85    | 87    | 90    | 92    |
| <u>One- to Three-Year College Skill Level</u> |       |       |       |       |       |       |       |       |       |       |
| State Manpower Availability                   | 783   | 812   | 841   | 870   | 870   | 899   | 928   | 928   | 957   | 986   |
| Estimated Total Availability (000's)          | 27    | 28    | 29    | 30    | 30    | 31    | 32    | 32    | 33    | 34    |
| <u>Four-Year College Skill Level</u>          |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 180   | 248   | 278   | 283   | 290   | 295   | 302   | 310   | 310   | 310   |
| Alternative 1 Needs Estimated                 | 124   | 126   | 128   | 132   | 134   | 138   | 142   | 145   | 151   | 157   |
| Alternative 2 Needs Estimated                 | 69    | 70    | 71    | 72    | 74    | 75    | 78    | 79    | 81    | 83    |
| Estimated Manpower Availability               | 4,936 | 5,028 | 5,291 | 5,171 | 5,234 | 5,326 | 5,400 | 5,469 | 5,578 | 5,641 |
| Estimated Manpower Availability(Teachers)     | 4,182 | 4,216 | 4,250 | 4,301 | 4,335 | 4,369 | 4,420 | 4,454 | 4,505 | 4,539 |
| Estimated Total Availability (000's)          | 26    | 28    | 29    | 30    | 31    | 33    | 34    | 35    | 37    | 38    |

## State: Virginia

## MANPOWER NEEDS AND AVAILABILITY

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 1,042  | 1,129  | 1,215  | 1,300  | 1,386  | 1,472  | 1,547  | 1,567  | 1,567  | 1,567  |
| Alternative 1 Needs Estimated                 | 3,342  | 3,416  | 3,461  | 3,516  | 3,566  | 3,611  | 3,658  | 3,702  | 3,750  | 3,761  |
| Alternative 2 Needs Estimated                 | 1,082  | 1,093  | 1,105  | 1,121  | 1,136  | 1,150  | 1,164  | 1,177  | 1,191  | 1,206  |
| Estimated Manpower Availability               | 14,652 | 15,222 | 15,774 | 16,346 | 16,940 | 17,556 | 18,194 | 19,492 | 20,152 |        |
| Estimated Total Availability (000's)          | 666    | 691    | 717    | 743    | 770    | 798    | 827    | 855    | 886    | 916    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 5,160  | 6,462  | 6,622  | 6,864  | 7,106  | 7,348  | 7,612  | 7,876  | 8,140  | 8,426  |
| Estimated Total Availability (000's)          | 280    | 291    | 301    | 312    | 323    | 334    | 346    | 358    | 370    | 383    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 992    | 1,124  | 1,261  | 1,261  | 1,261  | 1,261  | 1,261  | 1,261  | 1,261  | 1,261  |
| Alternative 1 Needs Estimated                 | 707    | 797    | 839    | 862    | 896    | 934    | 973    | 1,017  | 1,060  | 1,107  |
| Alternative 2 Needs Estimated                 | 418    | 462    | 497    | 513    | 531    | 552    | 572    | 592    | 612    | 634    |
| Estimated Manpower Availability               | 50,922 | 51,110 | 52,236 | 53,410 | 54,526 | 55,722 | 56,940 | 58,158 | 59,431 | 60,702 |
| Estimated Manpower Availability(Teachers)     | 42,136 | 43,872 | 44,624 | 45,424 | 46,144 | 49,944 | 47,744 | 48,544 | 49,371 | 50,208 |
| Estimated Total Availability (000's)          | 313    | 329    | 346    | 363    | 381    | 399    | 418    | 437    | 457    | 477    |

MANPOWER NEEDS AND AVAILABILITY

State: Washington

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>                |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 822    | 927    | 1,014  | 1,050  | 1,053  | 1,054  | 1,056  | 1,056  | 1,056  | 1,056  |
| Alternative 1 Needs Estimated                 | 3,732  | 3,736  | 3,853  | 3,924  | 4,066  | 4,034  | 4,117  | 4,179  | 4,228  | 4,301  |
| Alternative 2 Needs Estimated                 | 1,217  | 1,223  | 1,251  | 1,274  | 1,297  | 1,315  | 1,328  | 1,346  | 1,363  | 1,382  |
| Estimated Manpower Availability               | 14,560 | 14,976 | 15,366 | 15,782 | 16,224 | 16,640 | 17,082 | 17,524 | 17,966 | 18,434 |
| Estimated Total Availability (000's)          | 560    | 576    | 591    | 607    | 624    | 640    | 657    | 674    | 691    | 705    |
| <u>One- to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability               | 6,344  | 6,500  | 6,656  | 6,838  | 7,020  | 7,202  | 7,358  | 7,566  | 7,748  | 7,930  |
| Estimated Total Availability (000's)          | 244    | 250    | 256    | 263    | 270    | 277    | 283    | 291    | 298    | 305    |
| <u>Four-Year College Skill Level</u>          |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                | 50     | 89     | 95     | 100    | 92     | 92     | 94     | 94     | 94     | 94     |
| Alternative 1 Needs Estimated                 | 719    | 745    | 773    | 804    | 836    | 870    | 905    | 945    | 986    | 1,029  |
| Alternative 2 Needs Estimated                 | 335    | 347    | 360    | 376    | 391    | 407    | 423    | 441    | 462    | 493    |
| Estimated Manpower Availability               | 35,250 | 35,830 | 36,410 | 37,006 | 37,623 | 38,224 | 38,846 | 39,484 | 40,132 | 40,770 |
| Estimated Manpower Availability(Teachers)     | 20,296 | 20,616 | 20,936 | 20,944 | 20,608 | 20,944 | 21,632 | 21,968 | 23,329 | 23,325 |
| Estimated Total Availability (000's)          | 229    | 239    | 240    | 250    | 270    | 286    | 291    | 302    | 314    | 325    |

MANPOWER NEEDS AND AVAILABILITY

State: West Virginia

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <u>High School Skill Level</u>               |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 426    | 579    | 814    | 913    | 1,013  | 1,112  | 1,211  | 1,317  | 1,317  | 1,317  |
| Alternative 1 Needs Estimated                | 1,891  | 1,935  | 1,932  | 1,956  | 1,971  | 2,003  | 2,024  | 2,043  | 2,065  | 2,086  |
| Alternative 2 Needs Estimated                | 618    | 626    | 630    | 638    | 644    | 653    | 659    | 663    | 663    | 670    |
| Estimated Manpower Availability              | 7,084  | 7,196  | 7,336  | 7,476  | 7,588  | 7,728  | 7,868  | 7,980  | 8,120  | 8,232  |
| Estimated Total Availability (000's)         | 253    | 257    | 262    | 267    | 271    | 276    | 281    | 285    | 290    | 294    |
| <u>One-to Three-Year College Skill Level</u> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability              | 2,380  | 2,436  | 2,492  | 2,548  | 2,604  | 2,660  | 2,716  | 2,772  | 2,800  | 2,856  |
| Estimated Total Availability (000's)         | 85     | 87     | 89     | 91     | 93     | 95     | 97     | 99     | 100    | 102    |
| <u>Four-Year College Skill Level</u>         |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated               | 237    | 381    | 470    | 503    | 539    | 575    | 610    | 651    | 651    | 651    |
| Alternative 1 Needs Estimated                | 440    | 444    | 459    | 476    | 490    | 509    | 528    | 548    | 595    | 597    |
| Alternative 2 Needs Estimated                | 228    | 235    | 241    | 249    | 257    | 267    | 275    | 284    | 295    | 305    |
| Estimated Manpower Availability              | 18,386 | 19,038 | 19,105 | 19,172 | 19,239 | 19,306 | 19,373 | 19,440 | 19,507 | 19,574 |
| Estimated Manpower Availability/Teachers     | 16,410 | 16,350 | 16,305 | 16,260 | 16,215 | 16,170 | 16,125 | 16,080 | 16,035 | 15,990 |
| Estimated Total Availability (000's)         | 92     | 96     | 100    | 104    | 108    | 112    | 116    | 120    | 124    | 128    |

MANPOWER NEEDS AND AVAILABILITY

State: Wisconsin

|  | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|--|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| <b>High School Skill Level</b>                 |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                 | 6,04   | 1,082  | 2,277  | 2,380  | 2,453  | 2,586  | 2,689  | 2,792  | 2,792  | 2,792  |
| Alternative 1 Needs Estimated                  | 5,025  | 5,079  | 5,137  | 5,197  | 5,270  | 5,317  | 5,366  | 5,418  | 5,467  | 5,521  |
| Alternative 2 Needs Estimated                  | 1,643  | 1,658  | 1,675  | 1,695  | 1,716  | 1,724  | 1,764  | 1,766  | 1,783  | 1,800  |
| Estimated Manpower Availability                | 15,720 | 16,149 | 16,569 | 17,010 | 17,451 | 17,892 | 18,354 | 18,316 | 19,299 | 19,761 |
| Estimated Total Availability (000's)           | 749    | 769    | 789    | 810    | 831    | 852    | 874    | 896    | 919    | 941    |
| <b>One - to Three-Year College Skill Level</b> |        |        |        |        |        |        |        |        |        |        |
| Estimated Manpower Availability                | 5,313  | 5,481  | 5,628  | 5,796  | 5,964  | 6,132  | 6,300  | 6,468  | 6,657  | 6,846  |
| Estimated Total Availability (000's)           | 233    | 261    | 268    | 276    | 284    | 292    | 300    | 308    | 317    | 326    |
| <b>Four - Year College Skill Level</b>         |        |        |        |        |        |        |        |        |        |        |
| State Manpower Needs Estimated                 | 106    | 140    | 142    | 148    | 154    | 160    | 166    | 170    | 170    | 170    |
| Alternative 1 Needs Estimated                  | 962    | 998    | 1,031  | 1,066  | 1,103  | 1,144  | 1,190  | 1,232  | 1,280  | 1,329  |
| Alternative 2 Needs Estimated                  | 477    | 493    | 516    | 539    | 547    | 566    | 586    | 606    | 630    | 653    |
| Estimated Manpower Availability                | 46,086 | 46,751 | 47,436 | 48,138 | 48,824 | 49,526 | 50,240 | 50,972 | 51,711 | 52,451 |
| Estimated Manpower Availability(Teachers)      | 40,930 | 41,333 | 41,745 | 42,174 | 42,587 | 43,016 | 43,445 | 43,874 | 44,319 | 44,765 |
| Estimated Total Availability (000's)           | 246    | 258    | 271    | 284    | 297    | 310    | 324    | 338    | 352    | 366    |

## MANPOWER NEEDS AND AVAILABILITY

## State: Wyoming

|   | 1968  | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <u>High School Skill Level</u>                |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 131   | 143   | 154   | 161   | 168   | 175   | 182   | 192   | 196   | 200   |
| Alternative 1 Needs Estimated                 | 884   | 890   | 900   | 907   | 915   | 923   | 931   | 936   | 945   | 950   |
| Alternative 2 Needs Estimated                 | 301   | 302   | 304   | 305   | 308   | 310   | 311   | 313   | 316   | 317   |
| Estimated Manpower Availability               | 2,856 | 2,858 | 2,940 | 3,024 | 3,066 | 3,150 | 3,192 | 3,234 | 3,318 | 3,360 |
| Estimated Total Availability (000's)          | 68    | 69    | 70    | 72    | 73    | 75    | 76    | 77    | 79    | 80    |
| <u>One- to Three-Year College Skill Level</u> |       |       |       |       |       |       |       |       |       |       |
| Estimated Manpower Availability (000's)       | 1,902 | 1,924 | 1,134 | 1,176 | 1,218 | 1,218 | 1,260 | 1,260 | 1,302 | 1,302 |
| Estimated Total Availability (000's)          | 26    | 27    | 27    | 28    | 29    | 29    | 30    | 30    | 31    | 31    |
| <u>Four-Year College Skill Level</u>          |       |       |       |       |       |       |       |       |       |       |
| State Manpower Needs Estimated                | 25    | 100   | 111   | 126   | 142   | 158   | 174   | 185   | 185   | 185   |
| Alternative 1 Needs Estimated                 | 272   | 274   | 279   | 282   | 287   | 289   | 297   | 300   | 305   | 310   |
| Alternative 2 Needs Estimated                 | 126   | 127   | 128   | 129   | 131   | 133   | 134   | 136   | 138   | 140   |
| Estimated Manpower Availability               | 5,405 | 5,470 | 5,535 | 5,556 | 5,638 | 5,711 | 5,776 | 5,841 | 5,906 | 5,971 |
| Estimated Manpower Availability(Teachers)     | 4,420 | 4,482 | 4,485 | 4,506 | 4,554 | 4,577 | 4,600 | 4,623 | 4,646 | 4,669 |
| Estimated Total Availability (000's)          | 23    | 24    | 25    | 25    | 25    | 27    | 28    | 29    | 30    | 31    |

## **APPENDIX B**

### **ALLOCATION OF GENERALIZED JOB TITLES TO MANPOWER RESOURCE SKILL LEVELS**

## APPENDIX B

### HIGH SCHOOL SKILL LEVEL

- . Motor Vehicle Inspector
- . Motor Vehicle Station Inspector
- . Driver License Examiner
- . Driver License Hearing Officer
- . Breath Examiner Specialist
- . Accident Site Investigator (Police Traffic Services Officer)
- . Accident Site Investigator Aide
- . Engineering Aide - Safety
- . Highway Safety Site Officer
- . Engineering Aide - Traffic
- . Traffic Control Device Technician
- . Police Traffic Services Program Specialist
- . Police Traffic Services Officer
- . Police Traffic Services Patrolmen
- . Wrecker Operator

### COLLEGE SKILL LEVEL

- . Governor's Highway Safety Program Director
- . Highway Safety Program Analyst
- . Highway Safety Public Information Officer
- . Driver Training Program Specialist
- . Driver Education Supervisor
- . Driver Education Teacher
- . Driver Retraining Instructor
- . Codes and Laws Program Specialist
- . Traffic Court Judges
- . Traffic Court Program Specialist
- . Alcohol Technical Specialist
- . Accident Site Investigator (Traffic Engineer and Highway Engineer)
- . Traffic Record Program Analyst
- . Traffic Record System Analyst
- . Emergency Medical Services Program Specialist
- . Emergency Medical Services Field Representative
- . Highway Engineer - Safety
- . Traffic Engineer
- . Pedestrian Safety Program Specialist
- . State Wrecker Field Representative
- . School Bus Program Specialist
- . School Bus Driver Training Officer

Safety Specialist Manpower

Manpower Training

Volume III

The National Highway Safety Bureau  
U. S. DEPARTMENT OF TRANSPORTATION

Washington, D. C.

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those of the National Highway Safety Bureau.

October 14, 1968

**BOOZ · ALLEN & HAMILTON Inc.**  
*Management Consultants*

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October 14, 1968

Dr. William Tarrants  
National Highway Safety Bureau  
Department of Transportation  
Washington, D. C.

Reference: Contract FH-11-6496, "Safety Specialist Manpower"

Dear Dr. Tarrants:

We take pleasure in submitting to you the enclosed report on state safety manpower training. This report is the third of four volumes on the subject of staffing state highway safety programs.

The report presents data on current and planned safety education and training program activities at major institutions and state agencies. Training curricula and courses are related to safety specialist job titles, and their corresponding enrollment estimates are portrayed year by year for the 1968-1977 period. As in the first volume, the information contained herein results from Booz, Allen & Hamilton staff visits to all 50 states.

Among the primary findings of this training study are the following:

- Safety training resources currently exist for 13 of 18 highway safety program areas and for 25 of the 36 safety specialist job titles developed in Volume I (Manpower Requirements).
- Total state enrollment in safety training programs is estimated by state and institutional officials to rise 30%, from approximately 36,000 in 1968 to 47,000 in 1977.
- Over 40% of the state enrollment expansion over the decade is expected to be realized by 1970.
- More than four-fifths of the projected enrollment increase occurs in two program areas: Driver Education and Police Traffic Services.

To determine the extent to which they fulfill the entering education and/or special training requirements specified in the job descriptions, safety curricula and courses were assigned a status of "complete," "partial," "refresher," or "additional."

The major limiting factor to obtaining state safety training program data stemmed from the fact that our state visits frequently occurred before many state and institutional officials had sufficient opportunity to become well acquainted with the newly issued National Highway Safety Standards or to determine how these standards would affect training programs to meet future safety manpower requirements. In spite of this problem, we believe that the material contained in this report is

sufficiently comprehensive to serve as a guideline for safety training program planning on both a state and a nationwide scale, that is:

- . The data indicate the magnitude of safety specialist training activities on a program-by-program basis.
- . The data reveal those program standard areas which will require additional training resources.

We have enjoyed the opportunity to participate in this study and wish to extend our appreciation both to the National Highway Safety Bureau and to the many state and institutional officials who provided the data upon which the report is based.

Very truly yours,

*Bog, Allen & Hamilton Inc.*

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## I. INTRODUCTION

## I. INTRODUCTION

This volume presents information and conclusions concerning programs for training highway safety specialists.

### 1. TRAINING IS ONE OF FOUR MAJOR ASPECTS OF SAFETY MANPOWER

Four major aspects of the safety manpower problem are:

- . Manpower requirements
- . Manpower resources
- . Manpower training
- . Manpower action plans

In Volume I, on Manpower Requirements, data are presented that demonstrate that state highway safety programs require more safety specialists than are currently employed. A gap also exists between the present numbers of trained personnel and future needs. This gap creates an additional training need in terms of both supplementary training for current staff and full training for new staff. Volume II, on Manpower Resources, identifies the pool of people who could be drawn upon to fill the manpower needs. This volume deals with training programs for the people who are to work for state government highway safety programs.

2. THIS REPORT PRESENTS DATA ON EXISTING FACILITIES  
AND ESTIMATES OF FUTURE FACILITIES FOR TRAINING  
NEEDED STATE SAFETY MANPOWER

The objectives of this volume are to:

- Provide an inventory of existing and planned highway safety courses and curricula in state government agencies and in selected colleges and universities.
- Provide an estimate of existing and planned capacity to train highway safety specialists identified in Volume I.

The empirical data to achieve these objectives are presented in two appendixes.

Appendix A identifies, by state and training institution, the curricula and courses currently offered or planned which provide training for safety specialists. Estimates of enrollments for each curriculum and course are provided by year for the period 1968 to 1977. Also provided are the safety specialist job titles for which training is given and the extent of training offered. (The extent of training is related to training requirements presented in the generalized job description of Volume I.) Data cover all 50 states and the District of Columbia.

Appendix B presents data by state to indicate capacity to train personnel in particular safety specialist job titles. Enrollment estimates

for each year 1968 through 1977 are presented by safety specialist job titles and by extent of training. Job titles are organized under their respective highway safety program areas.

## II. METHODOLOGY

## II. METHODOLOGY

This chapter describes the methodology used to assemble the information on existing and planned safety manpower training which forms the basis of this report.

### 1. THIS FUNDAMENTAL RATIONALE AND PARAMETERS OF THIS STUDY CLOSELY PARALLEL THE GUIDELINES OF THE MANPOWER REQUIREMENTS REPORT

As explained in Volume I:

- This study applied to employees of state governments even though the highway safety program pertains to Federal, state, and local government employees and to employees of private safety associations. It relates only to job titles that are likely to be found in state government employment.
- This study applies only to safety specialists, i.e., state employees functioning in areas which require technical knowledge about highway safety principles and practices.
- The study is structured mainly within the context of the National Highway Safety Bureau Program Standards, which are listed in the Introduction to Volume I, and which serve as guidelines for both state and Federal highway safety programs.

2. THE STUDY APPROACH WAS DESIGNED TO ASSURE  
COMPREHENSIVE COVERAGE OF PROGRAMS PROVIDING  
TRAINING FOR SAFETY SPECIALISTS

A review was made of publications describing safety education offerings. This review included Safety Education Courses in Colleges and Universities, a listing of highway traffic and safety centers at colleges and universities, published by the National Safety Council, and Courses in Highway Safety and Highway Traffic, A Directory of College and University Offerings, published by the National Education Association. From this review, a list of colleges and universities was drawn up which would cover the major portion of the current offerings in highway safety education. This list was developed to assure that in our field visits:

- At least one college or university in every state was called upon.
- All Highway Traffic and Safety Centers listed by the National Safety Council were visited.
- Courses that provide training unique to highway safety programs were sought in preference to programs in general education applicable to a variety of areas, e.g., administrative or management courses, unless such general training was specifically oriented towards the management of highway safety programs.

Emphasis was given to colleges and universities having:

- Many courses in highway safety rather than one or a few courses.
- Courses in a variety of relevant fields, e.g., driver education, traffic engineering, accident medicine.
- Relatively large enrollments in highway safety courses.

- Interview questionnaires were designed to assure uniform collection of data. Separate questionnaires\* were constructed for safety curricula and safety courses. A curriculum was defined as a formal training program or a "package" of courses developed by an institution to produce a specified educational product, e.g., a traffic engineer. A course was generally defined as a single purpose offering listed in an institutional catalog.
  - The suitability of the questionnaires was tested during pilot visits to the states of California, Massachusetts, and Minnesota. During these interviews, it became clear that not all safety manpower training is provided by colleges and universities, and that state agencies also are a major training ground. As a result of this finding, an in-service questionnaire was constructed, and the scope of the study was broadened to encompass courses formally given by state agencies. In-service training was defined as:
    - Training provided to personnel after initial recruitment by a state government
    - Training requiring an individual to leave his job during the training period, i.e., not on-the-job training
    - Comprehensive training courses for particular job titles rather than components of that comprehensive training. All in-service training took the form of courses rather than curricula. Courses offering technical training rather than supervisory or orientation training were selected.
3. THIS STUDY IS BASED UPON INFORMATION GATHERED THROUGH PERSONAL INTERVIEWS WITH INSTITUTIONAL AND STATE OFFICIALS

The selected institutions and state agencies were visited during Booz, Allen & Hamilton field trips to 50 states, as described in Volume I.

\* Copies of the three types of questionnaires are contained in Appendix D.

Institutions in the District of Columbia were also visited. Booz, Allen & Hamilton staff met with the Governor's Highway Safety Program Representative and with institutional and state agency officials. Deans of relevant departments or schools within universities and the directors of safety training programs and curricula were the usual contacts. This report is primarily a presentation of the findings accumulated during those interviews.

During the field visits, we:

- Identified existing and planned highway safety training programs. Institutional and state agency catalogs, announcements, and brochures served as an initial guide to appropriate people and programs. At institutions, Booz, Allen & Hamilton staff members described the kinds of training for which we were looking, and the contacted personnel confirmed the list of programs identified. At state agencies, officials were asked, at the time they were interviewed concerning their safety manpower requirements, to identify relevant in-service training programs.
- Obtained from responsible officials, a synopsis of each curriculum or course including name, content description, prerequisites, length, frequency, and degrees or credits obtained.
- Identified safety specialist job titles for which the curriculum or course provides training.

- Obtained for each curriculum or course, the number of enrollees at the time of the visit (Fiscal Year 1968). Enrollment estimates for 1969 and succeeding years are based on the assumption that institutions and state agencies would be using existing facilities or those for which there were already firm plans. For example, at the time of the visit to Delaware, their State Police were in the process of acquiring a new state training academy; future Delaware training facility capability includes this academy. Officials were asked to consider in their estimates the effect that full scale implementation of the national highway safety program would have on student enrollment in safety courses.
- Obtained and recorded for each curriculum or course, the number of enrollees projected for 1969, 1970, and 1975.
- Obtained an estimate of costs to augment enrollment by expanding the teaching staff or the physical plant.

4. TRAINING OFFERED BY STATES IS MATCHED WITH TRAINING REQUIRED BY THE GENERALIZED SAFETY SPECIALIST JOB DESCRIPTIONS

One purpose of this report is to provide a basis for planning training programs for the safety specialists identified in Volume I. Therefore, the training data are related to the job titles presented in Volume I. The matching of state curricula and courses with safety specialist job titles has been accomplished by comparing the title, content, level, and length of training for each curriculum or course with the scope, duties, education, experience, and special training requirements specified in the generalized job descriptions. (This matching process was aided by

identifying, during our state visits, the job titles for which the curriculum or course was intended to provide training.) A curriculum or course was not considered to provide training for a particular job title unless the former included specific training related to the latter.

5. EDUCATIONAL AND TRAINING DATA ARE PRESENTED IN DETAIL IN APPENDIXES A AND B

Detailed data resulting from this study are presented in Appendixes A and B. Appendix A presents for training in each state:

- . Name of institution or agency
- . Title of curriculum or course
- . Status of training
- . Length of training
- . Generalized job title for which training provides preparation
- . Estimated enrollment by year for the period 1968-1977

Within each state, institutional training is grouped together in alphabetical order and shown first, followed by state agency in-service training. Curricula are set off completely in capital letters while courses are shown with initial letters capitalized but others in lower case. Courses which are part of a curriculum are indented under that curriculum.

The "status" of training describes whether the curricula and courses provide complete, partial, additional or refresher training for the specified job title. Courses providing complete training are indicated under the "status" column by a blank space; those that provide partial training by a "P"; those that provide additional training by an "A"; and those that provide refresher training by an "R". Categorization is based upon the extent to which a curriculum or course provides the entering education and/or special training requirements outlined in the job descriptions presented in Volume I. "Complete" and "partial" refer to the major safety training that is required by a job title; i. e., generally, the entering safety education requirement for job titles requiring a college or graduate degree and the post-recruitment safety training requirement for job titles calling for high school completion. Courses were labeled as "partial," "additional," or "refresher" only where complete satisfaction of a given training requirement was not provided. Courses which are listed as "additional" are defined as those which offer only training beyond the minimum level required to fulfill the specifications of a safety specialist job title but do not offer both minimum and additional training. For example, well developed supervisory or orientation in-service training is usually categorized as additional.

Refresher training varies considerably among states. Review courses which are offered at least once a year and courses which upgrade

a person's training or prepare him for promotion are listed as "refresher." However, in a number of states, in-service training for a particular job title is identified as refresher, even though there is not any preceding basic training indicated for that job title. This categorization issue arises for the following reasons:

- For job titles requiring college preparation, the "basic" training is often acquired at a university or college, often in a different state.
- In most states, Police Traffic Services Officers typically complete a basic recruit course as patrolmen and are promoted to the officer level from the ranks without further "basic" training.
- Some states may regard their in-service training as basic training, but on a national basis, the courses involved realistically compare to (a) refresher-type courses in other states where training programs are better developed, or (b) the refresher specifications on the generalized job descriptions.

The length of training offered for both curricula and courses is shown. The length of all in-service training is shown in hours. When the length of training is an estimate, it is indicated by an "E" in parentheses.

Safety specialist job titles for which curricula and courses provide preparation are indicated. If a curriculum or course provides basic training for a progression of job titles within a career ladder, it is identified with the entering job title requiring the least training. For

example, a curriculum or course which trains both a Police Traffic Services Officer and a Police Traffic Services Patrolman will be shown as training the latter.

In those cases where a curriculum providing complete training for a basic job title in a career ladder includes a course providing partial training for an advanced job title, entries are made for both job titles. For example, if a curriculum trains a Driver Education Teacher, but contains a course which offers training for a Driver Education Supervisor, the estimated enrollment of the curriculum is included in the total for Driver Education Teacher complete training and the estimated enrollment of the course is included in the total for Driver Education Supervisor partial training. Where a curriculum providing training for an advanced job title in a career ladder includes a course providing partial training for a more basic job title, only a curriculum entry for the advanced job title is made.

Enrollment estimates of institutional and state agency curricula and courses for the year 1968-1977 are shown by year. Enrollment estimates are for total enrollments each year. Therefore, if an individual is enrolled in a two-year curriculum, he is included in curriculum enrollment estimates for both years.

Appendix B presents enrollment summaries by program, job title, and extent of training (complete, partial, additional, refresher) for each state and the District of Columbia. State enrollment totals for each job title were computed by adding the enrollments for that job title at each institution and state agency for each level of training. Where the enrollment was estimated to be in a range, the midpoint of the range was used. In those instances where enrollment for both a curriculum and its corresponding courses are recorded, the curriculum enrollment estimates were included in the state totals and the course enrollment estimates are omitted. (To include both would constitute double counting.) Where no curriculum enrollment was recorded but several courses were listed with various enrollment levels, the highest enrollment level was taken as the best indication of training capacity.

In both appendixes, enrollment figures may include some individuals who will eventually enter other vocations and not fill positions as highway safety specialists. However, total enrollments indicate capacity to train highway safety specialists, and have, therefore, been included without adjustments for this factor.

6. STATE ENROLLMENT ESTIMATES REPRESENT THE BEST PRACTICAL WAY OF MEASURING INSTITUTIONAL TRAINING CAPACITY

Institutional training capacity is very flexible. . . . vary by the number of times per year a course is offered, the number of sections per course, and the enrollment per section. Off-campus as well as on-campus courses can be given. There is, therefore, considerable flexibility in the number of students an institution can train, which makes the line between realistic and overly optimistic estimates of capacity a difficult one to draw. However, enrollment estimates collected from state officials during the study were based on the assumption of adequate capacity to train enrollees. These enrollment estimates, therefore, represent a practical and conservative way of measuring institutional training capacity.

7. SEVERAL JOB TITLES REQUIRING SAFETY TRAINING BUT NOT INCLUDED IN THE MANPOWER REQUIREMENTS REPORT ARE INCORPORATED IN THIS STUDY

In the course of the Booz, Allen & Hamilton visits to the state educational facilities, training for ambulance drivers, ambulance attendants, and school bus drivers was occasionally identified. While these job titles do not fall within the scope of this study because such personnel are not normally employed by state governments, they are

of considerable importance to the Emergency Medical Services and School Bus Safety programs. Because of their importance, information on relevant training programs was gathered when identified and has been included in Appendix C.

8. COURSES OFFERED THROUGHOUT THE COUNTRY BY ORGANIZATIONS SUCH AS THE AMERICAN RED CROSS AND THE NATIONAL SAFETY COUNCIL HAVE BEEN OMITTED FROM THIS REPORT

First Aid and related courses sponsored by the American Red Cross in all 50 states and the District of Columbia are typically open to a broad spectrum of people including safety specialists. Since these courses are not designed primarily for safety specialists and are available on a nationwide basis to the entire population, they have not been included in the state training program summaries except when they form an integral part of basic recruit training for Police Traffic Services Patrolmen. Similarly, the National Safety Council courses, including defensive driver training, which are also available to everyone on a nationwide basis, have not been included.

8. ENROLLMENT PROJECTIONS WERE OBTAINED FOR SELECTED YEARS AND INTERPOLATED FOR REMAINING YEARS

Enrollment estimates were gathered in staff field visits for the years 1968, 1969, and 1975. Enrollment forecasts for the years 1971, 1972, 1973, and 1974 have been interpolated from the information obtained.

States' estimates for 1976 and 1977 are generally restatements of the estimates for 1975 and so are equal to the latter unless actual estimates for 1976 and 1977 were supplied by the states. As in the manpower requirements report, the procedure in this study was to project state enrollment for those years beyond the last year for which data were obtained. In some cases, it was necessary to project enrollments for all years beyond 1968, 1969, or 1970 because the projections were not made by officials in the states. Where the states did not furnish any indication as to current or future enrollment levels, they were estimated to be zero.

### III. LIMITATIONS OF DATA

### **III. LIMITATIONS OF DATA**

In a study of this scope and magnitude, the collection, analysis, and presentation of data are influenced by a variety of factors. Some of these factors can affect the meaning and usefulness of data. This chapter points out a number of factors affecting the data of this study and suggests some considerations to be kept in mind in interpreting and utilizing the data.

#### **1. ENROLLMENT ESTIMATES ARE AFFECTED BY THE AVAILABILITY OF PROGRAM GUIDANCE**

As pointed out in Volume I, National Highway Safety Bureau program guidance arrived in the states only a short time before Booz, Allen & Hamilton field visits occurred. State officials had not had sufficient time to refine existing highway safety programs, formulate new programs, or define carefully their manpower requirements. Quite understandably, therefore, existing safety manpower training programs had usually not been inventoried nor had future needs been carefully estimated. Moreover, many training officials have not conventionally "planned" more than one or two years into the future and, consequently, were ill prepared to forecast enrollments beyond 1970.

The problem was compounded at many colleges and universities, (e..cept at highway traffic and safety centers) for officials there were not yet fully aware of the manpower implications of the national highway safety program. Accordingly, they usually were unprepared to discuss safety manpower training plans with authority and, as with state officials, quite uncertain about enrollments after 1970.

Consequently, data are not always complete and zero enrollment may imply either that institutional or state officials expected no enrollment or that they declined to make any estimate.

2. COLLEGE AND UNIVERSITY TRAINING PROGRAMS OFTEN DO NOT PARALLEL HIGHWAY SAFETY PROGRAMS

College and university curricula and courses are normally organized along lines of established academic disciplines. Except for the highway traffic and safety centers, few institutions have programs devoted specifically to highway safety. Few courses, outside of driver education and traffic engineering, provide specific training to meet the requirements of the safety specialist job titles identified in Volume I. In identifying available courses, both university officials and Booz, Allen & Hamilton staff have often found it necessary to select courses only indirectly or partially related to highway safety. The choices involved in selecting courses and distributing them to safety specialist job titles

were largely judgmental and based on the apparent relevance of courses to required training. (On the other hand, state agency in-service training is normally established to prepare personnel for specific jobs. Where in-service training existed, identification of proper courses and their association with appropriate job titles was usually straightforward.)

3. SOME COURSES ARE OFFERED BOTH BY INSTITUTIONS AND BY STATE AGENCIES

While courses leading toward a degree or certificate customarily are located at colleges and universities, and in-service training usually is to be found at state agency facilities, there are exceptions. A number of universities conduct in-service training courses for state employees, and, conversely, several in-service facilities offer university-level programs (although not degrees). This occasional overlapping of training facilities does not affect the estimated national enrollment totals, however, since the totals are based on the combined sum of institutional and in-service training enrollments by state.

4. DATA CONCERNING INSTITUTIONAL CAPABILITIES TO EXPAND TRAINING PROGRAM ENROLLMENTS IS TOO SKELETAL TO PERMIT RELIABLE CONCLUSIONS

Information collected which attempted to identify the ability of an institution to expand curriculum or course enrollment by increasing

operating or investment costs is too incomplete to use as a base upon which to construct meaningful conclusions. Officials were unable to make satisfactory estimates of their expansion plans or expansion costs. Therefore, these data have not been included in this report.

#### **IV. FINDINGS AND OBSERVATIONS**

#### IV. FINDINGS AND OBSERVATIONS

Exhibits I, II, and III, following this page, summarize total state safety training activities by type of training and by program area.

Exhibit IV, following Exhibit III, shows the relative contribution of complete, partial, and refresher training to the total per annum enrollment estimates. The data presented on these exhibits serve as the basis for several general observations about the status, anticipated growth, and distribution of state safety training activities.

##### 1. CONSIDERABLE RESOURCES ARE AVAILABLE TO TRAIN CURRENT AND PROJECTED SAFETY MANPOWER REQUIREMENTS

The enrollment estimates presented in the four exhibits were obtained from state officials during the course of Booz, Allen & Hamilton staff visits to all 50 states and the District of Columbia. They reveal the existence of sizeable safety training resources:

- . In 45 states, curricula which provide complete training, as defined in Chapter II, for safety specialist job titles are identified.
- . In 46 states and the District of Columbia, curricula and courses which offer partial training are recorded.

## EXHIBIT 1

National Highway Safety Bureau  
U. S. Department of Transportation

**ESTIMATED ENROLLMENT**  
**NATIONAL SUMMARY BY PROGRAM**  
**COMPLETE TRAINING**

|   | 1968   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Planning and administration                           | 35     | 46     | 60     | 60     | 60     | 60     | 60     | 60     | 60     | 60     |
| Periodic motor vehicle inspection                     | 61     | 56     | 67     | 55     | 66     | 55     | 66     | 55     | 66     | 55     |
| Motorcycle safety                                     | *      | *      | *      | *      | *      | *      | *      | *      | *      | *      |
| Traffic education                                     | 4,663  | 5,364  | 5,270  | 4,100  | 6,362  | 6,587  | 6,826  | 7,055  | 7,065  | 7,065  |
| Driver licensing                                      | 621    | 1,332  | 713    | 733    | 752    | 766    | 780    | 792    | 802    | 802    |
| Codes and laws  | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Traffic control                                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Air-bag in relation to highway safety                 | 325    | 435    | 465    | 465    | 465    | 465    | 465    | 465    | 465    | 465    |
| Identification and surveillance of accident locations | 9      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Traffic records                                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Emergency medical services                            | 21     | 31     | 36     | 30     | 30     | 30     | 30     | 30     | 30     | 30     |
| HIGHWAY DESIGN, CONSTRUCTION, AND MAINTENANCE         | 1,428  | 1,517  | 1,739  | 1,749  | 1,758  | 1,768  | 1,777  | 1,787  | 1,787  | 1,787  |
| Traffic control devices                               | 218    | 286    | 344    | 354    | 375    | 392    | 412    | 429    | 436    | 436    |
| REDUCTION SAFETY                                      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Police traffic services**                             | 5,679  | 5,741  | 5,613  | 5,744  | 5,710  | 5,910  | 6,051  | 6,120  | 6,135  | 6,185  |
| Accident research                                     | 40     | 710    | 2,040  | 2,040  | 2,040  | 2,040  | 2,040  | 2,040  | 2,040  | 2,040  |
| School bus safety                                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Total (excluding DC, LA)                              | 12,361 | 15,046 | 16,946 | 17,330 | 17,795 | 18,073 | 18,506 | 18,843 | 18,886 | 18,921 |
| District of Columbia                                  | 3,400  | 3,000  | 3,000  | 3,000  | 3,000  | 3,000  | 3,000  | 3,000  | 3,000  | 3,000  |
| Total (including DC, LA)                              | 16,361 | 18,046 | 19,946 | 20,330 | 20,795 | 21,073 | 21,506 | 21,843 | 22,885 | 23,921 |

\* Includes periodic motor vehicle inspection and driver licensing.  
\*\* Excludes District of Columbia.

## EXHIBIT II

National Highway Safety Bureau  
U. S. Department of Transportation

ESTIMATED ENROLLMENT  
NATIONAL SUMMARY BY PROGRAM  
PARTIAL TRAINING

|   | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   | 1977   |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Planning and administration                           | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Periodic motor vehicle inspection                     | 184    | 133    | 169    | 162    | 164    | 166    | 168    | 170    | 170    |
| Motorcycle safety                                     | *      | *      | *      | *      | *      | *      | *      | *      | *      |
| Driver education**                                    | 2,395  | 2,942  | 3,208  | 3,245  | 3,393  | 3,341  | 3,389  | 3,441  | 3,446  |
| Driver licensing                                      | 140    | 230    | 215    | 217    | 219    | 221    | 223    | 225    | 225    |
| Codes and law   | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Traffic counts  | 74     | 74     | 74     | 76     | 76     | 76     | 76     | 76     | 76     |
| Alcohol in relation to highway safety                 | 2,565  | 3,65   | 445    | 445    | 445    | 445    | 445    | 445    | 445    |
| Identification and surveillance of accident locations | 126    | 129    | 126    | 129    | 120    | 120    | 120    | 120    | 126    |
| Traffic records                                       | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Emergency medical services                            | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Highway design, construction, and maintenance         | 1,175  | 1,360  | 1,389  | 1,616  | 1,640  | 1,638  | 1,631  | 1,722  | 1,722  |
| Traffic control devices                               | 347    | 371    | 377    | 382    | 395    | 390    | 392    | 398    | 398    |
| Pedestrian safety                                     | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
| Police traffic services                               | 2,705  | 3,095  | 3,675  | 3,725  | 3,977  | 3,740  | 3,675  | 3,755  | 3,755  |
| Accident training                                     | 100    | 109    | 100    | 109    | 106    | 100    | 100    | 100    | 100    |
| School bus safety                                     | —      | —      | —      | —      | —      | —      | —      | —      | —      |
| Total (see Index, Part I, *)                          | 10,389 | 10,387 | 10,393 | 10,217 | 10,267 | 10,393 | 10,492 | 10,586 | 10,521 |
| Driver of Columbia                                    | 0      | 0      | 20     | —      | 26     | —      | 20     | 50     | 50     |
| Total (see Index, Part I, *)                          | 10,389 | 10,387 | 10,377 | 10,217 | 10,267 | 10,393 | 10,492 | 10,536 | 10,541 |

\* Included in periodic motor vehicle inspection and driver licens.

\*\* Excludes District of Columbia.

## EXHIBIT III

National Highway Safety Bureau  
U. S. Department of Transportation

ESTIMATED ENROLLMENT  
NATIONAL SUMMARY BY PROGRAM  
REFRESHER TRAINING

|   | <u>1968</u> | <u>1969</u> | <u>1970</u> | <u>1971</u> | <u>1972</u> | <u>1973</u> | <u>1974</u> | <u>1975</u> | <u>1976</u> | <u>1977</u> |
|---|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Planning and administration                           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Periodic motor vehicle inspection                     | 1,453       | 1,295       | 1,295       | 1,447       | 1,394       | 1,526       | 1,492       | 1,628       | 1,529       | 1,628       |
| Motorcycle safety                                     | *           | *           | *           | *           | *           | *           | *           | *           | *           | *           |
| Driver education                                      | 1,546       | 1,413       | 2,226       | 2,240       | 2,256       | 2,272       | 2,288       | 2,304       | 2,304       | 2,304       |
| Private licensing                                     | 845         | 708         | 950         | 973         | 935         | 1,012       | 1,034       | 1,058       | 1,058       | 1,058       |
| Codes and laws  | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Traffic courts  | 400         | 407         | 370         | 370         | 370         | 370         | 370         | 370         | 370         | 370         |
| Alcohol in relation to highway safety                 | 4,700       | 6,410       | 6,300       | 6,300       | 6,300       | 6,300       | 6,300       | 6,300       | 6,300       | 6,300       |
| Identification and surveillance of accident locations | 573         | 927         | 975         | 1,025       | 1,150       | 1,075       | 1,125       | 1,150       | 1,150       | 1,150       |
| Traffic records                                       | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Emergency medical services                            | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Highway design, construction, and maintenance         | 0           | 70          | 40          | 40          | 40          | 40          | 40          | 40          | 40          | 40          |
| Traffic control devices                               | 725         | 725         | 725         | 725         | 725         | 725         | 725         | 725         | 725         | 725         |
| Pedestrian safety                                     | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Police traffic services                               | 7,354       | 7,230       | 6,742       | 7,558       | 7,638       | 8,575       | 8,725       | 9,022       | 9,287       | 9,694       |
| Accident cleanup                                      | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| School bus safety                                     | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           | 0           |
| Total   | 11,726      | 13,528      | 14,018      | 15,728      | 15,855      | 16,030      | 17,167      | 17,693      | 17,199      |             |

\* includes in-service motor vehicle inspection and driver licensing.

## EXHIBIT IV

National Highway Safety Bureau  
 U.S. Department of Transportation  
**ESTIMATED ENROLLMENT  
 NATIONAL SUMMARY BY TYPE  
 AND DISTRIBUTION OF TRAINING\***

| Type of Training | 1974                 |                  | 1975                 |                  | 1976                 |                  |
|------------------|----------------------|------------------|----------------------|------------------|----------------------|------------------|
|                  | Estimated Enrollment | Percent of Total | Estimated Enrollment | Percent of Total | Estimated Enrollment | Percent of Total |
| Completer        | 12,209               | 64.9             | 18,416               | 59.2             | 17,473               | 41.4%            |
| Total            | 18,409               | 100.0            | 30,737               | 100.0            | 41,443               | 100.0%           |
| Non-completer    | 7,199                | 35.1             | 12,299               | 40.8             | 20,970               | 48.6%            |
| Total            | 18,409               | 100.0            | 30,737               | 100.0            | 41,443               | 100.0%           |
| Driver           | 12,209               | 64.9             | 18,416               | 59.2             | 17,473               | 41.4%            |
| Total            | 18,409               | 100.0            | 30,737               | 100.0            | 41,443               | 100.0%           |
| Driver-trainer   | 12,209               | 64.9             | 18,416               | 59.2             | 17,473               | 41.4%            |
| Total            | 18,409               | 100.0            | 30,737               | 100.0            | 41,443               | 100.0%           |
| Trainer          | 1,044                | 5.7              | 1,714                | 5.6              | 2,527                | 5.9              |
| Total            | 18,409               | 100.0            | 30,737               | 100.0            | 41,443               | 100.0%           |

\* Totals do not add due to rounding of columns.

- . In 19 states, additional courses are noted.
- . In 28 states, refresher courses are available.

For job titles requiring high school completion, complete training exists in most states. "Complete" in this case refers to the type of training which a Police Traffic Services Patrolman receives at the Police Academy. However, a college graduate receives two types of training: one before and the other after employment. Currently, almost no training is available (following recruitment) for job titles requiring a bachelor's degree. An example is the Highway Engineer who has a college degree when he is hired, but still needs specialized safety training after employment if he is to be "fully qualified" for assignment to safety related functions. This latter training, which would produce a "finished product," is still largely unavailable in the states. "Complete" in this case is meant only in the sense of entering safety education, which is the most difficult training requirement.

The exhibits indicate that, at the time of the field interviews, the states expected to enroll 35,945 people during 1968 and to expand their enrollment by 10,766 to a total of 46,711 in 1977, equivalent to a 30% gain over the decade.

2. STATE ENROLLMENT EXPANSION IS PROJECTED AT AN UNEVEN ANNUAL GROWTH RATE WITHIN THE 1968 TO 1977 PERIOD

Institutional and state agency officials indicated that they expect enrollments to increase at a faster pace in the initial years of the decade than in the later years. Forty percent of the expansion is projected to take place in the first two years. By 1970, the state estimated enrollment rises to 40,586 persons which represents an absolute gain of 12.9% over 1968. Between 1970 and 1975, enrollment is expected to increase at a more moderate rate. A small decrease in the state-estimated enrollment is forecast for 1976 and the anticipated gain for 1977 is below the average for the decade, in part because institutional and state agency officials made few estimates for those years.

If enrollment growth in 1976 and 1977 is projected on the basis of the average annual rate between 1968 and 1975, total training capacity available in 1977 would be nearly 50,000, rather than 46,711, for a total 10-year enrollment increase of approximately 14,000 or a 38% expansion.

3. OVER ONE-THIRD OF THE CURRICULA AND COURSES IDENTIFIED CURRENTLY PROVIDE "COMPLETE" TRAINING FOR SAFETY SPECIALISTS

With the qualifications noted earlier, an estimated 12,560 persons will be enrolled in courses offering complete training in 1968, equivalent

to 34.9% of the total state-estimated enrollment for that year. By 1977, it is estimated that 18,921 persons will be enrolled in programs offering complete training, equivalent to 40.5% of the state-estimated enrollment for that year. This percentage increase will result from an anticipated 50.6% rise in complete training program enrollment coupled with a more moderate 34.4% gain in refresher course enrollment and a constant partial course enrollment. Two additional points are evident from these figures.

4. TRAINING FACILITIES ARE UNEVENLY DISTRIBUTED ACROSS STATES AND THE DISTRICT OF COLUMBIA

The institutional and state agency totals incorporated in this volume are based on visits to all 50 states and the District of Columbia. However, as revealed by the data in Appendixes A and B, the relative contribution of each state to the national totals varies markedly. Training programs for high school graduates tend to be fairly uniform for individual program areas and job titles from state to state. However, training programs for college degree candidates are subject to a much greater state-by-state variance. Nevertheless, the potential problem of a lack of expected training resources in a particular program area or job title in one state tends to be at least partially reduced by the pattern of greater mobility of college students from state to state in both college enrollment and subsequent employment.

5. TRAINING FACILITIES ARE UNEVENLY DISTRIBUTED AMONG PROGRAM AREAS

While a significant amount of safety specialist training exists, this training is not evenly allocated among program areas. The highway safety program standards have been grouped below into four general categories according to the amount of safety specialist training available.

Program areas for which considerable training exists.

- Driver Education
- Alcohol in Relation to Highway Safety
- Highway Design, Construction and Maintenance
- Police Traffic Services

Program areas for which a moderate amount of training exists.

- Periodic Motor Vehicle Inspection
- Driver Licensing
- Traffic Courts
- Identification and Surveillance of Accident Locations
- Traffic Control Devices

Program areas for which little training exists.

- Planning and Administration
- Emergency Medical Services
- Accident Cleanup
- School Bus Safety

. Program areas for which no training exists.

- Motor Vehicle Registration
- Motorcycle Safety
- Codes and Laws
- Traffic Records
- Pedestrian Safety

Highway safety programs for which a substantial amount of training is available are generally those which were well established prior to the initiation of the national highway safety program or which represent well-defined disciplines. As pointed out in Chapter III, at the time of the field visits institutional and state officials had not yet developed training for programs newly created by the national highway safety program standards. A program-by-program analysis of the state safety training program characteristics follows in the order that they are listed above, i. e., starting with those programs for which considerable training exists and concluding with those for which there is no training. The discussion deals with total training activities of all types.

(1) Driver Education

A significant portion of state safety training is Driver Education, and a substantial expansion in total training program enrollment is projected: from 9,164 in 1968 to 12,815 in 1977, equal to approximately a 40% gain. Driver Education training is characterized by numerous courses for Driver Education Teachers

and their Supervisors. Driver Education Teacher courses were identified in 38 states and the District of Columbia, reflecting the fact that driver education programs are well developed in most states which, in turn, has created a training need. There are relatively few courses specifically for Driver Training Program Specialists and Driver Retraining Instructors, because the driver retraining program either does not exist or is just beginning in most states. (However, educational programs for Driver Education Supervisors are directly and completely applicable to Driver Training Program Specialists, and educational programs preparing Driver Education Teachers for the entering educational requirements also prepare Driver Retraining Instructors for the entering educational requirements.)

(2) Alcohol in Relation to Highway Safety

While considerable training is available for this program standard in 1968, the states' enrollment estimate drops sharply in 1969 and in succeeding years with the result that only a moderate amount of training will be available subsequently. This downward trend is atypical and demonstrates that to staff this program states may expect to train existing Police Traffic Services Patrolmen rather than recruit new specialized personnel. Training is thus

paced by program characteristics and emphasis rather than recruitment or student interest. A downward trend in enrollments occurs only in this program standard. Almost all the training activities which stem from this program are directed toward Breath Examiner Specialists rather than Alcohol Technical Specialists.

(3) Highway Design, Construction, and Maintenance

Safety training enrollment estimates are divided about equally between those for Highway Engineers and those for Engineering Aides-Safety. Twenty-eight states indicated a large number of curricula and courses which offer training for Highway Engineers. In contrast, there is no training available for Highway Safety Site Officers.

(4) Police Traffic Services

This program accounts for the largest state enrollment estimate of any single program standard. A major expansion in enrollment from 14,529 in 1968 to 19,634 in 1977 is envisioned. Training is heavily oriented to the needs of Police Traffic Services Patrolmen rather than to Police Traffic Services Program Specialists.

(5) Periodic Motor Vehicle Inspection

Courses which relate to this program are designed to train Motor Vehicle Station Inspectors rather than Motor Vehicle Inspectors. This reflects the general intention of states to utilize private, rather than state-operated, garages for motor vehicle inspections.

(6) Driver Licensing

Driver License Examiners account for the bulk of the training available in connection with this program standard. Training for Driver License Examiners is offered in 24 states whereas training for Driver License Hearing Officers is indicated in only one state.

(7) Traffic Courts

The states' enrollment estimates for the Traffic Court Judge training program is moderate in 1968. Enrollment is expected to decline slightly in 1970 and to be level thereafter. The small number of enrollees reflects the fact that in many states there is no traffic court system per se, and thus, no perceived need for training Traffic Court Judges or Traffic Court Program Specialists.

(8) Identification and Surveillance of Accident Locations

Safety courses which relate to Identification and Surveillance primarily offer training to Accident Site Investigator Aides. Accident Site Investigator training is available in only one state.

(9) Traffic Control Devices

Twenty-four states identified many safety related curricula and courses which provide training for Traffic Engineers. In contrast, only one state indicated that it offers formal training to Traffic Engineering Aides (as opposed to engineering aides). No state mentioned training programs for Traffic Control Device Technicians.

(10) Planning and Administration

In this program, limited training is available in most states for Highway Safety Program Analysts.

(11) Emergency Medical Services

There is a small amount of training available for both Emergency Medical Services Program Specialists and Emergency Medical Services Field Representatives.

(12) Accident Cleanup

A major expansion in the number of State Wrecker Operators enrolled in training programs from an estimated 40 in 1968 to an estimated 2,040 in 1977 is projected. However, the bulk of the increase is anticipated to occur in one state.

(13) School Bus Safety

Two states identified training for School Bus Program Specialist and one state indicated training for School Bus Driver Training Officer. However, educational programs preparing Driver Education Teachers for the entering educational requirement also prepare School Bus Driver Training Officers for the entering educational requirement.

(14) Motor Vehicle Registration

Volume I identifies no safety specialists for the vehicle registration program, and no training programs for such personnel were identified.

(15) Motorcycle Safety

Because states generally do not approach Motorcycle Safety as a separate program, but instead regard it as an integral part of

the Periodic Motor Vehicle Inspection and Driver Licensing programs, all training germane to Motorcycle Safety has been included in these two other program areas.

(16) Codes and Laws

The states did not identify any training which is uniquely related to safety specialists within this program standard, primarily because the specific job title and safety duties are new in state government.

(17) Traffic Records

No safety training comparable to that required by the generalized job descriptions was identified for this program during the field visits. Past training for records analysts has been restricted to general systems and procedures subjects.

(18) Pedestrian Safety

Since the majority of states does not view Pedestrian Safety as a separate program, institutional and state officials did not identify any training courses which pertain specifically to this program area.

6. TRAINING ACTIVITIES ARE UNEVENLY DISTRIBUTED  
AMONG JOB TITLES

Even though a considerable amount of safety training may be available for safety specialists in a given program area, such training is not necessarily available for all job titles within that program. Exhibit V, following this page, lists those job titles for which no safety specialist training of any type is available in the states.

EXHIBIT V

National Highway Safety Bureau  
U. S. Department of Transportation

JOB TITLES FOR WHICH  
SAFETY SPECIALIST TRAINING IS NOT PROVIDED

Governor's Highway Safety Program Director

Highway Safety Public Information Officer

Motor Vehicle Inspector

Codes and Laws Program Specialist

Traffic Court Program Specialist

Traffic Records Program Analyst

Traffic Records Systems Analyst

Highway Safety Site Officer

Traffic Control Device Technician

Pedestrian Safety Program Specialist\*

State Wrecker Field Representative

\* Pedestrian Safety Program Specialists may draw upon training programs designed for Driver Education Supervisors and Driver Education Program Specialists.

## V. CONCLUSIONS

## V. CONCLUSIONS

On the basis of the information contained in the preceding chapters of this volume, a number of concluding comments can be made.

1. THIS VOLUME PROVIDES A CATALOG OF CURRENT AND PLANNED SAFETY TRAINING ACTIVITIES AT THOSE INSTITUTIONS AND STATE AGENCIES VISITED DURING FIELD INTERVIEWS

The data contained in this report can function as a guide to the overall safety training resources available at those major institutions and state agencies interviewed by Booz, Allen & Hamilton staff. These institutions were selected according to the criteria described in Chapter II and are listed by state in Appendix A.

2. THE FINDINGS IN THIS VOLUME DO NOT ENCOMPASS ALL AVAILABLE EDUCATIONAL TRAINING FACILITIES FOR SAFETY SPECIALISTS

Omitted from the data are those state highway safety training programs at colleges and universities not included within Booz, Allen & Hamilton's field visits. Excluded from visits were many institutions, including many larger universities as well as junior, teachers', and community colleges. These institutions offer numerous courses in

safety fields, especially in the areas of driver education and police traffic services. Moreover, for visited institutions, information is presented for established or firmly planned safety and safety-related training. Capacity which could be drawn upon if new courses or expanded enrollments were necessary is not presented. Such capacity might include, for example, medical school faculty who could participate in new training programs for Emergency Medical Services manpower. (It will be recalled that the attempt to gather data on costs to expand existing capability produced unusable results.) Therefore, this volume should not be construed as a complete inventory of all available safety training programs on a nationwide basis, but should be utilized in conjunction with supplementary information.

3. THE FINDINGS IN THIS VOLUME ARE A CONSERVATIVE ESTIMATE OF TRAINING CAPACITY

Findings in this volume are conservative estimates of training capacity.

- They report existing or firmly planned courses and curricula that contribute to training safety specialist manpower rather than on courses and curricula which could be developed.
- They report estimated enrollments as approximations of realistic capacity rather than enrollment estimates themselves. Enrollment numbers are, for this study, not indicators of future graduates, i. e., trained manpower resources, but are indicators of ability to train manpower resources identified in Volume II.

4. THE FINDINGS IN THIS VOLUME WILL BE MATCHED IN THE FINAL VOLUME WITH THE MANPOWER REQUIREMENTS AND RESOURCES DATA DISCUSSED IN PREVIOUS VOLUMES

In Volume IV, the information obtained from states on safety training programs will be matched with the data concerning manpower requirements and resources. The objective will be to determine whether educational capacity is sufficient to train needed safety specialists. Thus, the findings of this volume are designed to be used in conjunction with other volumes comprising the overall report of this study of safety specialist manpower.

## **APPENDIXES**

## APPENDIX A

## TRAINING PROGRAMS

| State: ALABAMA<br>Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training       | Job Title        | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------------|------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                          |                  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| University of Alabama<br>Civil Engineering<br>Theory of Vehicular Traffic Flow<br>Design of Urban Highway Systems | P      | 1 Year (F)<br>1 Semester | Traffic Engineer | 2                    | 2    | 2    | 3    | 5    | 7    | 8    | 9    | 10   |
|   |        |                          | Traffic Engineer | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | P      | 1 Semester               | Traffic Engineer | 3*                   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

- This course is being terminated in favor of the sequence of courses contained in the Civil Engineer curriculum above.

## TRAINING PROGRAMS

## State: ARIZONA

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training | Job Title                | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|--------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                          | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Arizona State University                            |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| Safety Education                                    | P*     | 14 Weeks           | Driver Education Teacher | 100                  | 100  | 125  | 130  | 135  | 140  | 145  | 150  | 150  |
| Driver Education I                                  | P*     | 14 Weeks           | Driver Education Teacher | 75                   | 85   | 90   | 90   | 95   | 95   | 100  | 100  | 100  |
| Driver Education II                                 | P*     | 14 Weeks           | Driver Education Teacher | 30                   | 35   | 35   | 36   | 37   | 38   | 39   | 40   | 40   |
| Organization and Administration of Safety Education | P*     | 14 Weeks           | Driver Education Teacher | 40                   | 45   | 45   | 46   | 47   | 48   | 49   | 50   | 50   |
| Pro-Seminar in Driver and Safety Education          | P*     | 14 Weeks           | Driver Education Teacher | 20                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Workshop in Motorcycle Education                    | P*     | 8 Weeks            | Driver Education Teacher | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Transportation Engineering                          | P      | 14 Weeks           | Highway Engineer         | 33                   | 35   | 35   | 36   | 37   | 38   | 39   | 40   | 40   |
| Traffic Engineering**                               | P      | 14 weeks           | Traffic Engineer         | 12                   | 14   | 14   | 16   | 16   | 18   | 18   | 20   | 20   |
| Highway Geometric Design                            | P      | 14 Weeks           | Traffic Engineer         | 9                    | 9    | 9    | 10   | 10   | 11   | 11   | 12   | 12   |
| Motor Vehicle Division-Driver's License Branch      |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| Orientation for New Examiners                       | P      | 16 Hours           | Driver License Examiner  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| In-Service Training for Examiners                   | R      | 24 Hours           | Driver License Examiner  | 76                   | 80   | 80   | 85   | 90   | 90   | 95   | 100  | 100  |
| Arizona Highway Patrol                              |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| In-Service Training for Patrolmen                   | P      | 40 Hours           | Police Traffic Services  | 250                  | 250  | 290  | 310  | 310  | 330  | 330  | 350  | 350  |
| In-Service Training for New Sergeants               | A      | 40 Hours           | Patrolman                | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Recruit School                                      |        | 640 Hours          | Police Traffic Services  | 72                   | 73   | 75   | 80   | 90   | 100  | 115  | 125  | 135  |
| Supervisors In-Service Training                     | R      | 40 Hours           | Patrolman                | 80                   | 95   | 100  | 110  | 115  | 120  | 125  | 125  | 125  |

\* While these courses do not constitute a full curriculum, they appear to produce a fully trained driver education teacher.  
 \*\* This course probably will be divided into two courses, 41A and 41B, in 1969 and offered in succeeding semesters.

## TRAINING PROGRAMS

State: ARKANSAS

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Arkansas Law Enforcement Academy                   | P      | 120 Hours          | Motor Vehicle Station Inspector   | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Motor Vehicle Inspection                           |        | 60 Hours           | Driver License Examiner           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Specialized Driver Training                        |        | 100 Hours          | Police Traffic Services Patrolman | 90                   | 90   | 90   | 90   | 90   | 90   | 90   | 90   | 90   |
| Traffic Safety-State Trooper Recruit Training      | P      |                    |                                   |                      |      |      |      |      |      |      |      |      |

## State: CALIFORNIA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                                  | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|--|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| <u>California State College at Los Angeles</u>     | P*     | 11 Weeks           | Driver Education Teacher                   | 240                  | 240  | 240  | 240  | 240  | 240  | 240  | 240  | 240  |
| Driver Training Program                            | P*     | 11 Weeks           | Driver Education Teacher                   | 230                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |
| Traffic Simulator Instruction                      | P*     | 11 Weeks           | Driver Education Teacher                   | 240                  | 240  | 240  | 240  | 240  | 240  | 240  | 240  | 240  |
| Driver Education Curriculum                        | P*     | 11 Weeks           | Driver Education Teacher                   | 280                  | 280  | 280  | 280  | 280  | 280  | 280  | 280  | 280  |
| Accident and Safety Studies                        | P*     | 11 Weeks           | Driver Education Teacher                   | 160                  | 160  | 160  | 160  | 160  | 160  | 160  | 160  | 160  |
| Organization and Supervision of Safety and         | P*     | 11 Weeks           | Driver Education Teacher                   | 160                  | 160  | 160  | 160  | 160  | 160  | 160  | 160  | 160  |
| Driver Education Programs                          | P*     | 11 Weeks           | Driver Education Teacher                   | 160                  | 160  | 160  | 160  | 160  | 160  | 160  | 160  | 160  |
| Advanced Studies in Traffic and Safety Education   | P*     | 11 Weeks           | Driver Education Teacher                   | 160                  | 160  | 160  | 160  | 160  | 160  | 160  | 160  | 160  |
| <u>Sacramento State College</u>                    | P      | 14 Weeks           | Driver Education Teacher                   | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Foundations of Safety and Accident Prevention      | P      | 14 Weeks           | Driver Education Teacher                   | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Essentials of Traffic Control                      | P      | 14 Weeks           | Driver Education Teacher                   | 55                   | 55   | 55   | 55   | 55   | 55   | 55   | 55   | 55   |
| Driver Instruction                                 | P      | 14 Weeks           | Driver Education Teacher                   | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Highway and Airport Engineering                    | P      | 14 Weeks           | Highway Engineer                           |                      |      |      |      |      |      |      |      |      |
| Traffic Administration and Control                 | P      | 14 Weeks           | Police Traffic Services Program Specialist | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| <u>Stanford University</u>                         | P      | 11 Weeks           | Driver Education Teacher                   | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Safety   | P      | 11 Weeks           | Highway Engineer                           | 40                   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Transportation Engineering                         | P      | 11 Weeks           | Highway Engineer                           | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Highway Engineering                                | P      | 11 Weeks           | Traffic Engineer                           | 9                    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    |
| Transportation Problems                            | P      | 11 Weeks           | Traffic Engineer                           | 9                    | 9    | 9    | 9    | 9    | 9    | 9    | 9    | 9    |
| Transportation Planning                            | P      | 11 Weeks           | Traffic Engineer                           |                      |      |      |      |      |      |      |      |      |
| <u>University of California-Berkeley</u>           | P      | 1-3 Years(E)       | Traffic Engineer                           | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Transportation Engineering                         | P      | 10 Weeks           | Traffic Engineer                           | 40                   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Transportation Policy and Planning                 | P      | 10 Weeks           | Traffic Engineer                           | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Traffic Engineering                                | P      | 11 Weeks           | Highway Engineer                           | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| <u>UCLA</u>  | P      | 11 Weeks           | Highway Engineer                           | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Urban Transportation Systems                       | P      | 11 Weeks           | Highway Engineer                           | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Street and Highway Design                          | P      | 11 Weeks           |  |                      |      |      |      |      |      |      |      |      |
| Traffic Engineering                                | P      |                    |  |                      |      |      |      |      |      |      |      |      |

\* While these courses do not constitute a formal curriculum, they appear to produce, upon completion, a fully trained driver education teacher.

## TRAINING PROGRAMS

## State: CALIFORNIA (continued)

| Institution/Agency Name<br>Curriculum/Course Title              | Status | Length of Training | Job Title                                   | Estimated Enrollment |       |       |       |       |       |       |
|---|--------|--------------------|---|----------------------|-------|-------|-------|-------|-------|-------|
|   |        |                    |   | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  |
| University of Southern California<br>Transportation Engineering | P      | 14 weeks           | Traffic Engineer                            | 10                   | 10    | 10    | 10    | 10    | 10    | 10    |
| Department of Motor Vehicles                                    |        |                    |   |                      |       |       |       |       |       |       |
| In-Service for Driver Improvement Analysts                      | R      | 32 Hours           | Driver Retraining Instructor                | 150                  | 150   | 150   | 150   | 150   | 150   | 150   |
| Examiner Training School  |        | 160 Hours          | Driver License Examiner                     | 5 <sup>1</sup>       | 5     | 5     | 5     | 5     | 5     | 5     |
| In-Service for Driver License Examiners                         | R      | 32 Hours           | Driver License Examiner                     | 0 <sup>1</sup>       | 0     | 0     | 0     | 0     | 0     | 0     |
| Highway Patrol  |        |                    |   |                      |       |       |       |       |       |       |
| Commanders Conference   | R      | 40 Hours           | Police Traffic Services Officer             | 175 <sup>3</sup>     | 175   | 175   | 175   | 175   | 175   | 175   |
| Recruit Training  |        | 640 Hours          | Police Traffic Services Patrolman           | 500                  | 500   | 500   | 500   | 500   | 500   | 500   |
| In-Service for Traffic Officers                                 | R      | 80 Hours           | Police Traffic Services Patrolman           | 2,000 <sup>2</sup>   | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |
| Pre-Supervisory Training  | A      | 80 Hours           | Police Traffic Services Patrolman<br>(Sgt.) | 40                   | 40    | 40    | 40    | 40    | 40    | 40    |

1 No course offered due to lack of funds.

2 In the future half the trooper force will attend each year so that every 2 years a trooper will have attended one class.  
3 All officers with the rank of lieutenant or above must attend each year.

## TRAINING PROGRAMS

State: COLORADO

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                                | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|--|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Colorado State College                             | P      | 1 Quarter          | Driver Education Teacher                 | 170                  | 170* | 170  | 170  | 170  | 170  | 170  | 170  | 170  |
| Basic Driver Education                             | P      |                    | Driver Education Teacher                 | 60                   | 160* | 160  | 160  | 160  | 160  | 160  | 160  | 160  |
| Advanced Driver Education                          |        |                    |  |                      |      |      |      |      |      |      |      |      |
| Department of Revenue-Division of Motor Vehicles   |        |                    |  |                      |      |      |      |      |      |      |      |      |
| In-Service and OJT Training for Examiners**        |        | 1,000 Hours        | Driver License Examiner                  | 93                   | 110  | 115  | 113  | 121  | 124  | 127  | 129  | 129  |
| State Patrol                                       | R      | 40 Hours           | Police Traffic Services Officer          | 23                   | 23   | 24   | 24   | 24   | 24   | 25   | 25   | 25   |
| In-Service Training for Lieutenants                |        | 320 Hours          | Police Traffic Services Patrolman        | 30                   | 130  | 31   | 34   | 38   | 42   | 46   | 50   | 50   |
| Recruit Training                                   |        |                    | Police Traffic Services Patrolman        | 349                  | 349  | 430  | 454  | 478  | 502  | 526  | 550  | 550  |
| In-Service Training for Sergeants                  | R      | 40 Hours           | Police Traffic Services Patrolman (Sgt.) | 34                   | 36   | 36   | 38   | 38   | 38   | 40   | 40   | 40   |
| Highway Department                                 |        | 80 Hours           | State Wrecker Operator                   | 0                    | 360  | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Training for Debris Removal Units                  |        |                    |  |                      |      |      |      |      |      |      |      |      |

\* If Colorado moves to 100% of the students taking driver education, these figures should double.  
 \*\* Will be taken by all new examiners.

## TRAINING PROGRAMS

State: CONNECTICUT

| Institution/Agency Name<br>Curriculum/Course Title                  | Status | Length of Training | Job Title                          | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|--------|--------------------|------------------------------------|----------------------|------|------|------|------|------|------|------|------|------|
|   |        |                    |                                    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| Southern Connecticut State College<br>Traffic and Safety Education* | P      | 1 Year (E)         | Driver Training Program Specialist | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Driver Education and Traffic Safety II                              | P      | 1 Semester         | Driver Training Program Specialist | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Driver Education  | P      | 1 Semester         | Driver Education Teacher           | 75                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |
| State Police<br>State Police Training                               |        | 640 Hours          | Police Traffic Services Patrolman  | 50                   | 50   | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |

\* Southern Connecticut State College actually offers two curricula for graduate students entitled Traffic and Safety Education. The major difference between them is that one requires a thesis and the other does not.

## TRAINING PROGRAMS

State: DELAWARE

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|------|
|  |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| University of Delaware                             |        |                       |                                   |                      |      |      |      |      |      |      |      |      |      |
| Human Relations and Safety in Industry             | A      | 10 Weeks              | Driver Education Supervisor       | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Problems in Safety Education                       | P      | 16 Weeks              | Driver Education Teacher          | 10                   | 0    | 10   | 0    | 0    | 10   | 0    | 10   | 0    | 0    |
| Transportation Engineering                         | P      | 1 Semester            | Highway Engineer                  | 12                   | 13   | 14   | 14   | 14   | 14   | 14   | 15   | 15   | 15   |
| Traffic Engineering                                | P      | 1 Semester            | Traffic Engineer                  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Advanced Highway Design                            | P      | 1 Semester            | Traffic Engineer                  | 5                    | 5    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Department of Highways                             |        |                       |                                   |                      |      |      |      |      |      |      |      |      |      |
| State Police Recruit Training                      | R      | 286 Hours             | Police Traffic Services Patrolman | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Traffic  | R      | 8 Hours               | Police Traffic Services Patrolman | 260                  | 275  | 290  | 305  | 320  | 335  | 350  | 365  | 365  | 365  |
| Department of Public Instruction                   |        |                       |                                   |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                           | R      | 25 Hours              | Driver Education Teacher          | 71                   | 74   | 78   | 80   | 84   | 88   | 92   | 96   | 96   | 96   |

## TRAINING PROGRAMS

## State: DISTRICT OF COLUMBIA

| Institution/Agency Name<br>Curriculum/Course Title                         | Status | Length of Training        | Job Title  | Estimated Enrollment |                |                |                |                |                |                |                |                |
|--|--------|---------------------------|--|----------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|  |        |                           |  | 1968                 | 1969           | 1970           | 1971           | 1972           | 1973           | 1974           | 1975           | 1976           |
| The American University<br>Institute on River and Traffic Safety Education | P      | 1 Semester                | Driver Education Teacher   | 0                    | 30             | 0              | 30             | 0              | 30             | 0              | 30             | 0              |
| Behavioral Aspects of Accident Prevention                                  | P      | 1 Semester                | Driver Education Teacher   | 0                    | 30             | 0              | 30             | 0              | 30             | 0              | 30             | 0              |
| Law Enforcement • Traffic Planning, Regulation and Control                 | P      | 1-4 Years (E)<br>15 Weeks | Police Traffic Services Officer<br>Police Traffic Services Officer | 3,890<br>3,890       | 4,000<br>4,000 | 5,000<br>5,000 |
| George Washington University<br>Driver and Safety Education (P.E. 261)     | P      | 15 Weeks                  | Driver Education Teacher   | 17                   | 15             | 15             | 15             | 15             | 15             | 15             | 15             | 15             |
| Driver and Safety Education (P.E. 262)                                     | P      | 15 Weeks                  | Driver Education Teacher   | 0                    | 15             | 15             | 15             | 15             | 15             | 15             | 15             | 15             |
| Safety Education   | P      | 15 Weeks                  | Driver Education Teacher   | 0                    | 20             | 20             | 20             | 20             | 20             | 20             | 20             | 20             |

\* These estimated enrollment totals were obtained from the records of the university. However, in B&I's judgment they are 2-3 times too high, since if a student takes two courses, he is counted twice, and if he enrolls in three courses, he is counted three times.

## TRAINING PROGRAMS

## State: FLORIDA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|------|
|  |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Florida State University</u>                    | P      | 1 Quarter             | Driver Education Teacher          | 90                   | 100  | 150  | 155  | 160  | 165  | 170  | 175  | 175  | 175  |
| Driver and Traffic Safety Education                | P      | 1 Quarter             | Driver Education Teacher          | 70                   | 115  | 165  | 177  | 189  | 201  | 213  | 225  | 225  | 225  |
| Teaching of Driver and Traffic Safety Education    | P      | 1 Quarter             | Driver Education Teacher          | 70                   | 70   | 105  | 114  | 123  | 132  | 141  | 150  | 150  | 150  |
| Principles of Safety Education                     | P      | 1 Quarter             | Driver Education Teacher          | 12                   | 15   | 20   | 21   | 22   | 23   | 24   | 25   | 25   | 25   |
| Human Factors and the Highway Safety Problem       | P      | 1 Quarter             | Driver Education Teacher          | 35                   | 30   | 35   | 35   | 37   | 38   | 40   | 45   | 50   | 50   |
| <u>University of Florida</u>                       | P      | 12 Weeks              | Driver Education Teacher          | 20                   | 15   | 20   | 23   | 25   | 28   | 30   | 33   | 35   | 35   |
| General Safety Education                           | P      | 12 Weeks              | Driver Education Teacher          | 19                   | 14   | 20   | 23   | 25   | 28   | 30   | 33   | 35   | 35   |
| Driver and Traffic Safety Education                | P      | 12 Weeks              | Driver Education Teacher          | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Teaching of Driver and Safety Education            | P      | 12 Weeks              | Driver Education Teacher          | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| <u>University of Miami</u>                         | P      | 18 Weeks              | Driver Education Teacher          | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Driver and Traffic Safety Education I              | P      | 18 Weeks              | Driver Education Teacher          | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Driver and Traffic Safety Education II             | P      | 18 Weeks              | Driver Education Teacher          | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| General Safety                                     | P      | 18 Weeks              | Driver Education Teacher          | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Problems of Driver and Safety Education            | P      | 18 Weeks              | Driver Education Teacher          | 25*                  | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Education  | A      | 18 Weeks              | Driver Education Teacher          | 30*                  | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Psychology of Accident Prevention                  | P      | 18 Weeks              | Driver Education Teacher          | 30*                  | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| <u>Department of Public Safety-State Patrol</u>    | P      | 40 Hours              | Driver License Examiner           | 60                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |
| Licence Examiner Training                          | P      | 480 Hours             | Police Traffic Services Patrolman | 120                  | 130  | 145  | 146  | 148  | 149  | 150  | 155  | 160  | 160  |
| Recruit Training                                   | A      | 40 Hours              | Police Traffic Services Patrolman | 20                   | 40   | 42   | 44   | 46   | 46   | 48   | 50   | 50   | 50   |
| Vehicle Homicide Training                          | A      | 40 Hours              |                                   |                      |      |      |      |      |      |      |      |      |      |

\* If the course is taught again.

## TRAINING PROGRAMS

State: GEORGIA

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| <u>Georgia Institute of Technology</u>  |        |                    | Highway Engineer                  | 40                   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Transportation Engineering  | P      | 4 Years (E)        | Highway Engineer                  | 650                  | 700  | 750  | 700  | 770  | 780  | 790  | 800  | 800  |
| Transportation Engineering I  | P      | 1 Semester(E)      | Highway Engineer                  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Transportation Engineering II   | P      | 12 Weeks           | Highway Engineer                  |                      |      |      |      |      |      |      |      |      |
| Transportation Engineering  | F      | 2 Years            | Traffic Engineer                  | 20                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Pavement Design   | F      | 12 Weeks           | Traffic Engineer                  | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Highway Administration  | P      | 12 Weeks           | Traffic Engineer                  | 7                    | 8    | 10   | 11   | 12   | 13   | 14   | 15   | 15   |
| Highway Design  | P      | 12 Weeks           | Traffic Engineer                  | 8                    | 10   | 10   | 11   | 12   | 13   | 14   | 15   | 15   |
| Traffic Engineering   | P      | 12 Weeks           | Traffic Engineer                  | 8                    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 15   |
| Urban Transportation Planning   | P      | 12 Weeks           | Traffic Engineer                  | 8                    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 15   |
| <u>University of Georgia</u>  |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Safety Education  | P      | 1 Year             | Driver Education Supervisor       | 50                   | 60   | 70   | 72   | 74   | 76   | 78   | 80   | 80   |
| Safety Education  | P      | 12 Weeks           | Driver Education Supervisor       | 70                   | 75   | 80   | 84   | 88   | 92   | 96   | 100  | 100  |
| Principles of Traffic Safety  | P      | 12 Weeks           | Driver Education Supervisor       | 70                   | 75   | 80   | 84   | 88   | 92   | 96   | 100  | 100  |
| Practices in Driver Education   | P      | 12 Weeks           | Driver Education Supervisor       | 45                   | 50   | 55   | 59   | 63   | 67   | 71   | 75   | 75   |
| Multiple Car Off-Street Driving Ranges and Simulation in Traffic Education                  | P      |                    | Driver Education Supervisor       | 50                   | 50   | 55   | 60   | 65   | 70   | 75   | 75   | 75   |
| Administration of School Transportation and Safety Programs                                 | P      | 12 Weeks           | Driver Education Supervisor       | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Behavioral Factors in Traffic Safety Seminar for College Instructors and Safety Supervisors | P      | 12 Weeks           | Driver Education Supervisor       | 17                   | 17   | 20   | 20   | 23   | 23   | 23   | 25   | 25   |
| Department of Public Safety   | F      | 2 Weeks            | Driver Education Supervisor       | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Cadet Trooper School  |        | 320 Hours          | Police Traffic Services Patrolman | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |

## TRAINING PROGRAMS

State: HAWAII

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                | Estimated Enrollment |      |      |      |      |      |      |      |
|--|--------|--------------------|--------------------------|----------------------|------|------|------|------|------|------|------|
|  |        |                    |                          | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| <u>University of Hawaii</u>                        | P      | 2 Weeks            | Driver Education Teacher | 45                   | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Driver Traffic Safety Education                    | P      | 40 Hours           | Driver Education Teacher | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Course for Driver Training Instructors             | P*     |                    | Highway Engineer         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Transportation Engineering                         | P*     |                    | Highway Engineer         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Advanced Transportation Engineering                |        |                    |                          |                      |      |      |      |      |      |      |      |
| <u>Department of Transportation</u>                | P      | 12 Hours           | State Wrecker Operator   | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| First Aid-Basic and Refresher Course               |        |                    |                          |                      |      |      |      |      |      |      |      |

• Course is part of the basic civil engineering curriculum offered by the College of Civil Engineering.

**TRAINING PROGRAMS**

**State: ILLINOIS**

| Institution/Agency Name<br>Curriculum/Course Title            | Status | Length of<br>Training | Job Title                                  | Estimated Enrollment |      |      |      |      |      |      |       |       |       |
|---|--------|-----------------------|--|----------------------|------|------|------|------|------|------|-------|-------|-------|
|   |        |                       |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975  | 1976  | 1977  |
| <u>Illinois State University</u>                              |        |                       |  |                      |      |      |      |      |      |      |       |       |       |
| Safety and Driver Education                                   |        | 4-7 Years(E)          | Driver Education Teacher                   | 750                  | 800  | 850  | 880  | 910  | 940  | 970  | 1,000 | 1,000 | 1,000 |
| Northern Illinois University                                  |        | 4 Years (E)           | Driver Education Teacher                   | 300                  | 380  | 425  | 425  | 425  | 425  | 425  | 425   | 425   | 425   |
| Safety and Driver Education                                   |        |                       |  |                      |      |      |      |      |      |      |       |       |       |
| Traffic Institute (Northwestern)                              |        |                       |  |                      |      |      |      |      |      |      |       |       |       |
| Course for Motor Vehicle Administrators                       | P      | 2-35 Weeks            | Motor Vehicle Station Inspector            | 30                   | 35   | 35   | 35   | 35   | 35   | 35   | 35    | 35    | 35    |
| Driver License Administration. Chief Driver Examiner Training | P      | 2 Weeks               | Driver Training Program Specialist         | 30                   | 35   | 35   | 35   | 35   | 35   | 35   | 35    | 35    | 35    |
| Accident Investigation  | P      | 3 Weeks               | Accident Site Investigator                 | 80                   | 80   | 80   | 80   | 80   | 80   | 80   | 80    | 80    | 80    |
| Highway Capacity Workshop                                     | P      | 1 Week                | Highway Engineer                           | 300                  | 300  | 300  | 300  | 300  | 300  | 300  | 300   | 300   | 300   |
| Comprehensive Urban Planning Seminar                          | P      | 2 Weeks               | Highway Engineer                           | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25    | 25    | 25    |
| Course for Traffic Engineers                                  | P      | 2-35 Weeks            | Traffic Engineer                           | 150                  | 185  | 185  | 185  | 185  | 185  | 185  | 185   | 185   | 185   |
| Transportation Engineering                                    | P      | 1-3 Years(E)          | Traffic Engineer                           | 28                   | 30   | 30   | 30   | 30   | 30   | 30   | 30    | 30    | 30    |
| Traffic Engineering Seminar                                   | P      | 3 Weeks               | Traffic Engineer                           | 30                   | 80   | 80   | 80   | 80   | 80   | 80   | 80    | 80    | 80    |
| Administration of Police Training                             | P      | 2 Weeks               | Police Traffic Services Program Specialist | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25    | 25    | 25    |
| Police Instructor Training                                    | P      | 3 Weeks               | Police Traffic Services Program Specialist | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25    | 25    | 25    |
| The Law for Police  | P      | 3 Weeks               | Police Traffic Services Program Specialist | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25    | 25    | 25    |
| Analysis and Administrative Use of Police Traffic Data        | P      | 3 Weeks               | Police Traffic Services Program Specialist | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25    | 25    | 25    |
| Personnel Management for Police                               | P      | 3 Weeks               | Police Traffic Services Program Specialist | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25    | 25    | 25    |
| Principles of Police Management                               | P      | 5 Weeks               | Police Traffic Services Program Specialist | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20    | 20    | 20    |
| Supervision of Police Personnel                               | P      | 3 Weeks               | Police Traffic Services Program Specialist | 120                  | 120  | 120  | 120  | 120  | 120  | 120  | 120   | 120   | 120   |
| Traffic Law Enforcement                                       | P      | 3 Weeks               | Police Traffic Services Program Specialist | 78                   | 78   | 78   | 78   | 78   | 78   | 78   | 78    | 78    | 78    |
| Traffic Police Administration Training Program                | P      | 9 Months              | Police Traffic Services Program Specialist | 80                   | 80   | 80   | 80   | 80   | 80   | 80   | 80    | 80    | 80    |
| Course for Police   | P      | 2-35 Weeks            | Police Traffic Services Program Specialist | 55                   | 55   | 55   | 55   | 55   | 55   | 55   | 55    | 55    | 55    |
|   |        |                       |  | 400                  | 400  | 400  | 400  | 400  | 400  | 400  | 400   | 400   | 400   |

## TRAINING PROGRAMS

## State: ILLINIS (continued)

| Institution/Agency Name<br>Curriculum/Course Title                                      | Status | Length of<br>Training        | Job Title  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|--------|------------------------------|--|----------------------|------|------|------|------|------|------|------|------|------|
|   |        |                              |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| Southern Illinois University<br><u>Driver and Safety Education</u>                      | P      | 4-5 Years<br>12 Weeks        | Driver Education Teacher<br>Traffic Engineer                       | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Transportation and Highway Engineering  |        |                              |  | 3                    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| University of Illinois<br><u>Safety Education</u>                                       |        | 4-5 Years(E)<br>1-3 Years(E) | Driver Education Teacher<br>Traffic Engineer                       | 65                   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   |
| Traffic Engineering   |        |                              |  | 7                    | 15   | 25   | 27   | 29   | 31   | 33   | 35   | 35   | 35   |
| State Police<br><u>Recruit Training</u>   |        | 640 Hours                    | Police Traffic Services Patrolman                                  | 125                  | 125  | 125  | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Highway Department<br><u>In-Service Training in Transportation</u>                      |        |                              | Highway Engineer   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Engineering<br><u>Training Seminar for Maintenance Field</u>                            | P      | 24 Hours<br>33 Hours(E)      | Highway Engineer<br>Engineering Aide-Safety                        | 25                   | 28   | 30   | 32   | 34   | 36   | 38   | 40   | 40   | 40   |
| Engineers   |        |                              |  | 165                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |
| Engineering Technician Training Program   | P      | 8-24 Hours                   | Engineering Aide-Safety  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Specific Task Training  | P      |                              |  |                      |      |      |      |      |      |      |      |      |      |
| University of Illinois-Police Training Institute<br><u>Traffic Problems and Control</u> | A      | 48 Hours(E)<br>32 Hours(E)   | Police Traffic Services Officer<br>Police Traffic Services Officer | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Traffic Law Enforcement   | A      | 160 Hours                    | Police Traffic Services Patrolman                                  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Basic Course  |        |                              |  |                      |      |      |      |      |      |      |      |      |      |

TRAINING PROGRAMS

State: INDIANA

| Institution/Agency Name<br>Curriculum/Course Title          | Status | Length of<br>Training | Job Title                          | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|-----------------------|------------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                       |                                    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Indiana State University                                    |        |                       |                                    |                      |      |      |      |      |      |      |      |      |
| Drive Education   | P      | 4 Years               | Driver Education Teacher           | 137                  | 140  | 140  | 140  | 140  | 140  | 140  | 140  | 140  |
| Introduction to General Safety                              | P      | 16 Weeks              | Driver Education Teacher           | 290                  | 290  | 290  | 290  | 290  | 290  | 290  | 290  | 290  |
| Driver Education  | P*     | 16 Weeks              | Driver Education Teacher           | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Driver Education  | P*     | 16 Weeks              | Driver Education Teacher           | 80                   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   |
| General Safety and Safety Education                         | P*     | 16 Weeks              | Driver Education Teacher           | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Traffic Safety  | P*     | 16 Weeks              | Driver Education Teacher           | 75                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |
| Indiana University  |        |                       |                                    |                      |      |      |      |      |      |      |      |      |
| Safety Education, Content and Materials in Safety Education |        | 4-5 Years (F)         | Driver Education Teacher           | 200                  | 250  | 300  | 310  | 320  | 330  | 340  | 350  | 350  |
| Techniques of Driver Training and Testing                   | P      | 16 Weeks              | Driver Education Teacher           | 132                  | 150  | 180  | 180  | 180  | 180  | 180  | 180  | 180  |
| Organization of Safety Education                            | P      | 16 Weeks              | Driver Education Teacher           | 105                  | 130  | 150  | 150  | 150  | 150  | 150  | 150  | 150  |
| Driver Education  | P      | 16 Weeks              | Driver Training Program Specialist | 115                  | 140  | 160  | 160  | 160  | 160  | 160  | 160  | 160  |
| Problems in Driver Education and Highway Safety             | P      | 16 Weeks              | Driver Training Program Specialist | 70                   | 90   | 105  | 106  | 106  | 107  | 108  | 109  | 110  |
| Police Administration                                       | P      | 2-4 Years (F)         | Driver Training Program Specialist | 90                   | 100  | 110  | 112  | 114  | 116  | 118  | 120  | 120  |
| Traffic Regulation and Control                              | P      | 32 Weeks              | Police Traffic Services Officer    | 25                   | 50   | 60   | 70   | 80   | 90   | 100  | 100  | 100  |
| Traffic Surveying and Engineering Techniques                | P      | 16 Weeks              | Police Traffic Service Officer     | 25                   | 0    | 25   | 0    | 25   | 0    | 25   | 0    | 0    |

\* Graduate-level course open to undergraduates.

## TRAINING PROGRAMS

## State: INDIANA (continued)

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training | Job Title                    | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                              | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Purdue University<br>Driver Education   | P      | 4 Years            | Driver Education Teacher     | 50                   | 75   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Driver Education  | P      | 16 Weeks           | Driver Education Teacher     | 50                   | 75   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Safety Education  | P      | 16 Weeks           | Driver Education Teacher     | 50                   | 75   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Traffic Education Seminar   | P      | 16 Weeks           | Driver Education Teacher     | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Transportation Engineering I  | P      | 16 Weeks           | Highway Engineer             | 45                   | 50   | 52   | 54   | 56   | 58   | 60   | 60   | 60   |
| Transportation Engineering I-3 Year(E)  | P      | 1-3 Year(E)        | Traffic Engineer             | 15                   | 17   | 19   | 20   | 21   | 23   | 24   | 25   | 25   |
| Traffic Engineering-Characteristics and Measurements  | P      | 16 Weeks           | Traffic Engineer             | 15                   | 17   | 19   | 20   | 21   | 23   | 24   | 25   | 25   |
| Traffic Engineering-Operations and Controls   | P      | 16 Weeks           | Traffic Engineer             | 10                   | 11   | 12   | 13   | 13   | 14   | 14   | 15   | 15   |
| Highway Planning and Economics  | P      | 16 Weeks           | Traffic Engineer             | 3                    | 4    | 5    | 6    | 7    | 8    | 9    | 10   | 10   |
| Theory of Traffic Flow  | P      | 16 Weeks           | Traffic Engineer             | 15                   | 17   | 19   | 20   | 21   | 23   | 24   | 25   | 25   |
| Urban Transportation Planning   | P      | 16 Weeks           | Traffic Engineer             | 15                   | 17   | 19   | 20   | 21   | 23   | 24   | 25   | 25   |
| Geometric Design of Highways  | P      | 16 Weeks           | Traffic Engineer             |                      |      |      |      |      |      |      |      |      |
| Indiana University-Medical School<br>Alcohol Testing *  |        | 40 Hours           | Breath Examiner Specialist   | 60                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Indiana University-Department of Police Administration<br>Supervision of Chemical Test Programs | P      | 40 Hours           | Alcohol Technical Specialist | 30                   | 30   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Breathalyzer Technician Training  | P      | 40 Hours           | Breath Examiner Specialist   | 120                  | 150  | 180  | 180  | 180  | 180  | 180  | 180  | 180  |
| Purdue University-School of Civil Engineering<br>Traffic Engineering Conference                 | R      | 40 Hour            | Traffic Engineer             | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |

\* This course is the predecessor of the Breathalyzer Technician Training course being given by the Center for Police Training at Indiana University.

## TRAINING PROGRAMS

State: IOWA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Iowa State University                              |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Safety Education                                   | P      | 4 Years (E)        | Driver Education Teacher          | 630                  | 630  | 630  | 630  | 630  | 630  | 630  | 630  | 630  |
| Collaborative Transportation Planning              | P      | 1 Quarter          | Highway Engineer                  | 45                   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Planning of Transportation Facilities              | P      | 1 Quarter          | Highway Engineer                  | 65                   | 75   | 80   | 84   | 88   | 92   | 96   | 100  | 100  |
| Traffic Engineering                                | P      | 1 Quarter          | Highway Engineer                  | 10                   | 12   | 14   | 16   | 16   | 18   | 18   | 20   | 20   |
| Traffic Planning                                   | P      | 1 Quarter          | Highway Engineer                  | 13                   | 15   | 18   | 18   | 19   | 19   | 19   | 20   | 20   |
| Designing Transportation Facilities                | P      | 1 Quarter          | Highway Engineer                  | 51                   | 60   | 70   | 74   | 78   | 82   | 86   | 90   | 90   |
| Traffic Engineering Planning and Analysis          | P      | 1 Quarter          | Traffic Engineer                  | 4                    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |
| Traffic Engineering Design and Control             | P      | 1 Quarter          | Traffic Engineer                  | 4                    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |
| Street and Urban Highway Design                    | P      | 1 Quarter          | Traffic Engineer                  | 3                    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| Highway Location and Design                        | P      | 1 Quarter          | Traffic Engineer                  | 3                    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| University of Northern Iowa                        |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Safety Education                                   | P      | 4 Years (E)        | Driver Education Teacher          | 125                  | 175  | 185  | 198  | 211  | 224  | 237  | 250  | 250  |
| Highway Patrol                                     |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Patrol Recruit Course (Licensing Section)          |        |                    | Driver License Examiner           | 10                   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Highway Patrol Recruit Training                    | P      | 25 Hours           | Police Traffic Services Patrolman | 10                   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   |

## TRAINING PROGRAMS

## State: KANSAS

| Institution/ Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                            | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|--------------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                                      | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Kansas State University                             |        |                    | Highway Engineer<br>Traffic Engineer | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| Transportation Engineering                          |        | 4 Years (4)        |                                      | 3                    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |
| Transportation Engineering                          |        | 1 Year (E)         |                                      |                      |      |      |      |      |      |      |      |      |
| Kansas University                                   |        |                    | Highway Engineer                     | 50                   | 50   | 50   | 55   | 55   | 60   | 60   | 65   | 65   |
| Transportation Engineering                          | P      | 17 Weeks           | Traffic Engineer                     | 21                   | 23   | 23   | 30   | 31   | 32   | 33   | 35   | 35   |
| Transportation Engineering                          | P      | 17 Weeks           | Highway Engineer                     | 21                   | 23   | 28   | 30   | 31   | 32   | 33   | 35   | 35   |
| Traffic Engineering                                 | P      | 17 Weeks           | Highway Engineer                     |                      |      |      |      |      |      |      |      |      |
| Highway Engineering                                 | P      | 17 Weeks           |                                      |                      |      |      |      |      |      |      |      |      |
| Highway Patrol                                      |        |                    | Police Traffic Services Patrolman    | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Recruit Training School                             |        |                    | Police Traffic Services Patrolman    | 0                    | 277  | 0    | 277  | 0    | 277  | 0    | 277  | 0    |
| In-Service for Troopers                             | R      | 360 Hours          |                                      |                      |      |      |      |      |      |      |      |      |
|   |        | 40 Hours           |                                      |                      |      |      |      |      |      |      |      |      |

TRAINING PROGRAMS

**State: KENTUCKY**

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Eastern Kentucky University                        | P      | 16 Weeks           | Driver Education Teacher          | 55                   | 100  | 150  | 156  | 162  | 168  | 174  | 180  | 180  |
| Teacher Preparation in Driver Education            | P      | 16 Weeks           | Driver Education Teacher          | 41                   | 50   | 100  | 116  | 132  | 148  | 164  | 180  | 180  |
| Administration and Supervision of Driver Education | P      | 16 Weeks           | Police Traffic Services Officer   | 150                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |
| Motor Vehicle Codes and Traffic Records            | P      | 16 Weeks           | Driver Education Teacher          | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| University of Kentucky                             | P      | 16 Weeks           | Driver Education Teacher          | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Driver and Traffic Safety Education I              | P      | 4 Years (E)        | Highway Engineer                  | 45                   | 45   | 46   | 47   | 48   | 49   | 50   | 50   | 50   |
| Modern Education                                   | P      | 1 Semester         | Highway Engineer                  | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Transportation                                     | P      | 1 Semester         | Highway Engineer                  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Transportation Engineering I                       | P      | 1 Semester         | Highway Engineer                  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Transportation Engineering II                      | P      | 1 Semester         | Highway Engineer                  | 30                   | 40   | 40   | 42   | 44   | 46   | 48   | 50   | 50   |
| Pavement Analysis and Design                       | P      | 1 Semester         | Highway Engineer                  | 5                    | 5    | 18   | 20   | 20   | 22   | 25   | 24   | 24   |
| Development of Transportation Facilities           | P      | 1 Semester         | Traffic Engineer                  | 12                   | 18   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Transportation                                     | P      | 1-2 Years(E)       | Traffic Engineer                  | 6                    | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| Highway Traffic Characteristics                    | P      | 1 Semester         | Traffic Engineer                  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Highway Location Analysis                          | P      | 1 Semester         | Traffic Engineer                  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Urban Transportation Planning                      | P      | 1 Semester         | Traffic Engineer                  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Operational Effects of Geometrics                  | P      | 1 Semester         | Traffic Engineer                  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Highway Design Construction and Maintenance        | P      | 1 Semester         | Traffic Engineer                  | 5                    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Eastern Kentucky University                        | P      | 40 Hours           | Driver Education Supervisor       | 36                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Motor Fleet Supervisor Training Course             | P      | 40 Hours           | Police Traffic Services Patrolman | 275                  | 275  | 275  | 275  | 275  | 275  | 275  | 275  | 275  |
| Police Recruit School                              | R      | 24 Hours           | Driver License Examiner           | 67                   | 69   | 70   | 72   | 74   | 76   | 78   | 80   | 80   |
| Department of Public Safety                        |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Annual In-Service Training for License Examiners   |        |                    |                                   |                      |      |      |      |      |      |      |      |      |

\* To be expanded to 120-260 hours.  
Course was offered only in 1964.

TRAINING PROGRAMS

**State: MAINE**

| Institution/Agency Name<br>Curriculum/Content Title | Status | Length of Training | Job Title                           | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|-------------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                                     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| <u>University of Maine</u>                          |        |                    |                                     |                      |      |      |      |      |      |      |      |      |
| Basic Driver Education                              |        | 120 Hours          | Driver Education Program Specialist | 30                   | 20   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Traffic and Highway Safety Education                | A      | 120 Hours          | Driver Education Teacher            | 14                   | 14   | 16   | 18   | 18   | 20   | 20   | 20   | 20   |
| Introduction to Highway Engineering                 | P      | 15-16 Weeks        | Highway Engineer                    | 45                   | 46   | 46   | 48   | 49   | 49   | 50   | 50   | 50   |
| Highway Engineering Problems                        | P      | 15-16 Weeks        | Highway Engineer                    | 8                    | 9    | 9    | 10   | 10   | 11   | 11   | 12   | 12   |
| Highway Engineering Problems                        | P      | 15-16 Weeks        | Highway Engineer                    | 8                    | 9    | 9    | 10   | 10   | 11   | 11   | 12   | 12   |
| <u>State Police</u>                                 |        |                    |                                     |                      |      |      |      |      |      |      |      |      |
| State Police Training                               |        | 480 Hours          | Police Traffic Services Patrolman   | 34                   | 25   | 35   | 36   | 36   | 37   | 37   | 37   | 37   |

TRAINING PROGRAMS

State: MARYLAND

| Institution/Agency Name<br>Curriculum/Course Title                      | Status | Length of Training | Job Title                | Estimated Enrollment |      |       |       |       |       |       |       |       |
|---|--------|--------------------|--------------------------|----------------------|------|-------|-------|-------|-------|-------|-------|-------|
|   |        |                    |                          | 1968                 | 1969 | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  |
| University of Maryland  |        |                    |                          |                      |      |       |       |       |       |       |       |       |
| Health Education in Safety  | P      | 4 Years (E)        | Driver Education Teacher | 150                  | 170  | 200   | 210   | 220   | 230   | 240   | 250   | 250   |
| First Aid and Safety  | P      | 16 Weeks           | Driver Education Teacher | 110                  | 115  | 125   | 140   | 155   | 170   | 185   | 200   | 200   |
| Advanced First Aid  | P      | 16 Weeks           | Driver Education Teacher | 65                   | 75   | 80    | 88    | 96    | 104   | 112   | 120   | 120   |
| Safety Education  | P      | 16 Weeks           | Driver Education Teacher | 95                   | 110  | 115   | 128   | 141   | 154   | 167   | 180   | 180   |
| The Driver, His Characteristics and Improvement                         | P      | 16 Weeks           | Driver Education Teacher | 90                   | 100  | 110   | 121   | 132   | 143   | 154   | 165   | 165   |
| Essentials of Fire Protection   | P      | 16 Weeks           | Driver Education Teacher | 9                    | 10   | 11    | 12    | 13    | 14    | 15    | 16    | 16    |
| Fire Protection Organization  | P      | 16 Weeks           | Driver Education Teacher | 10                   | 11   | 12    | 14    | 15    | 16    | 17    | 18    | 18    |
| Driver Education I  | P      | 16 Weeks           | Driver Education Teacher | 60                   | 70   | 80    | 86    | 92    | 98    | 105   | 112   | 112   |
| Driver Education II   | P      | 16 Weeks           | Driver Education Teacher | 50                   | 55   | 60    | 66    | 71    | 77    | 82    | 88    | 88    |
| Organization, Administration and Supervision of School Safety Education | P      | 16 Weeks           | Driver Education Teacher | 135                  | 150  | 165   | 180   | 195   | 210   | 225   | 240   | 240   |
| Problems in Driver and Traffic Safety Education                         | P      | 16 Weeks           | Driver Education Teacher | 135                  | 150  | 165   | 180   | 195   | 210   | 225   | 240   | 240   |
| Field Laboratory Practices and Workshop                                 | P      | 16 Weeks           | Driver Education Teacher | 135                  | 150  | 165   | 180   | 195   | 210   | 225   | 240   | 240   |
| Civil Engineering (Transportation-Highways)                             | P      | 1 Year (E)         | Traffic Engineer         | 4                    | 7    | 9     | 10    | 11    | 12    | 14    | 15    | 15    |
| Fundamentals of Transportation Engineering                              | P      | 1 Semester         | Highway Engineer         | 76                   | 75   | 80    | 82    | 84    | 86    | 88    | 90    | 90    |
| Highway Engineering   | P      | 1 Semester         | Highway Engineer         | 35                   | 40   | 40    | 42    | 44    | 46    | 48    | 50    | 50    |
| Engineering Analysis of Transportation Systems I                        | P      | 1 Semester         | Traffic Engineer         | 0                    | 15   | 15    | 13    | 21    | 24    | 27    | 30    | 30    |
| Highway Traffic Characteristics and Measurements                        | P      | 1 Semester         | Traffic Engineer         | 4                    | 4    | 4     | 6     | 8     | 10    | 12    | 15    | 15    |
| Highway Traffic Operations  | P      | 1 Semester         | Traffic Engineer         | 3                    | 3    | 3     | 5     | 8     | 10    | 13    | 15    | 15    |
| Transportation Planning I   | P      | 1 Semester         | Traffic Engineer         | 3                    | 3    | 5     | 7     | 9     | 11    | 13    | 15    | 15    |
| Transportation Planning II  | P      | 1 Semester         | Traffic Engineer         | 3                    | 3    | 3     | 5     | 8     | 10    | 13    | 15    | 15    |
| Highway Traffic Flow Theory   | P      | 1 Semester         | Traffic Engineer         | 0                    | 0    | 4     | 4     | 5     | 6     | 7     | 8     | 8     |
| Vocational Education Program-Rescue                                     | P      | 2 Years (E)        | State Wrecker Operator   | 40                   | 350  | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| Rescue I - Basic Skills   | P      | 20 Hours           | State Wrecker Operator   | 0                    | 40   | 40    | 100   | 500   | 1,000 | 1,500 | 2,000 | 2,000 |
| Rescue II - Skills  | P      | 20 Hours           | State Wrecker Operator   | 40                   | 350  | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| Rescue III - Rescue Techniques  | P      | 20 Hours           | State Wrecker Operator   | 40                   | 350  | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |
| Rescue IV - Rescue Operations   | P      | 20 Hours           | State Wrecker Operator   | 40                   | 350  | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 |

## TRAINING PROGRAMS

## State: MARYLAND (continued)

| Institution / Agency Name<br>Curriculum Course Title | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |       |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|-------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975  |
| <u>State Police</u>                                  |        |                    |                                   |                      |      |      |      |      |      |      |       |
| Inspection Station Supervisor                        | P      | 24 Hours           | Motor Vehicle Station Inspector   | 45                   | 47   | 49   | 51   | 53   | 55   | 57   | 59    |
| Breathalyzer Operation                               |        | 40 Hours           | Breath Examiner Specialist        | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50    |
| Basic Recruit Course                                 | R      | 340 Hours          | Police Traffic Services Patrolman | 85                   | 150  | 85   | 85   | 85   | 85   | 85   | 85    |
| In-Service *   | R      | 40 Hours           | Police Traffic Services Patrolman | 110                  | 800  | 110  | 200  | 400  | 600  | 800  | 1,000 |
| Radar  | A      | 24 Hours           | Police Traffic Services Patrolman | 165                  | 20   | 20   | 20   | 20   | 20   | 20   | 20    |
| <u>Department of Motor Vehicles</u>                  |        |                    |                                   |                      |      |      |      |      |      |      |       |
| Basic Examiner Training Course                       |        | 120 Hours          | Driver License Examiner           | 45                   | 60   | 60   | 60   | 60   | 60   | 60   | 60    |
| <u>Administrative Office of Courts</u>               |        |                    |                                   |                      |      |      |      |      |      |      |       |
| Orientation Seminar                                  | P      | 8 Hours            | Traffic Court Judge               | 76                   | 76   | 76   | 76   | 76   | 76   | 76   | 76    |
| Annual Conference for Judges                         | R      | 16 Hours           | Traffic Court Judge               | 100                  | 100  | 70   | 70   | 70   | 70   | 70   | 70    |
| Judges Seminar                                       | P      | 8 Hours            | Traffic Court Judge               | 100                  | 100  | 0**  | 0    | 0    | 0    | 0    | 0     |
| <u>Department of Education</u>                       |        |                    |                                   |                      |      |      |      |      |      |      |       |
| In-Services for Local Driver Education Supervisors   | R      | 8-240 Hours        | Driver Education Supervisor       | 15                   | 15   | 15   | 16   | 17   | 18   | 19   | 20    |
| <u>State Roads Commission</u>                        |        |                    |                                   |                      |      |      |      |      |      |      |       |
| In-Service Highway Engineers Training Course         |        | 480 Hours(E)       | Engineering Aide-Safety           | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50    |

- \* There are 2 courses: 1 for Sergeants, which has more on supervision, and 1 for Corporals and Troopers.
- \*\* Under new district court system, this seminar would be replaced by 1-2 day seminars 3 times/year.

## TRAINING PROGRAMS

## State: MASSACHUSETTS

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of<br>Training | Job Title                            | Estimated Enrollment |          |          |          |          |          |          |          |          |
|---|--------|-----------------------|--------------------------------------|----------------------|----------|----------|----------|----------|----------|----------|----------|----------|
|   |        |                       |                                      | 1968                 | 1969     | 1970     | 1971     | 1972     | 1973     | 1974     | 1975     | 1976     |
| Northeastern University<br><u>Law Enforcement</u>   | P      | 4 Years (E)           | Police Traffic Services Officer      | 500                  | 700      | 700      | 700      | 700      | 700      | 700      | 700      | 700      |
| Tufts University<br><u>Transportation</u><br><u>Highway and Airport Design</u>                  | P<br>P | 17 Weeks<br>17 Weeks  | Highway Engineer<br>Highway Engineer | 27<br>23             | 29<br>25 | 31<br>25 | 34<br>26 | 37<br>27 | 41<br>28 | 45<br>29 | 50<br>30 | 50<br>30 |
| University of Massachusetts<br><u>Transportation Engineer</u><br><u>Advanced Transportation</u> | P<br>P | 17 Weeks<br>17 Weeks  | Highway Engineer<br>Highway Engineer | 60<br>10             | 60<br>10 | 60<br>10 | 60<br>10 | 60<br>10 | 60<br>10 | 60<br>10 | 60<br>10 | 60<br>10 |

## TRAINING PROGRAMS

## State: MICHIGAN

| Institution/Agency Name<br>Curriculum/Course Title                   | Status | Length of<br>Training      | Job Title                          | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--------|----------------------------|------------------------------------|----------------------|------|------|------|------|------|------|------|------|------|
|  |        |                            |                                    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Michigan State University</u>                                     |        |                            |                                    |                      |      |      |      |      |      |      |      |      |      |
| Driver Education   | P      | 4 Years (E)                | Driver Education Teacher           | 85                   | 100  | 110  | 118  | 126  | 134  | 142  | 150  | 150  | 150  |
| Driver and Traffic Safety Education I                                | P      | 12 Weeks                   | Driver Education Teacher           | 120                  | 145  | 170  | 176  | 182  | 188  | 194  | 200  | 200  | 200  |
| Driver Education and Traffic Safety II                               | P      | 12 Weeks                   | Driver Education Teacher           | 170                  | 180  | 190  | 192  | 192  | 194  | 198  | 200  | 200  | 200  |
| Implications of Perceptual Psychology                                | P      |                            | Driver Education Teacher           | 192                  | 192  | 192  | 192  | 192  | 192  | 192  | 192  | 192  | 192  |
| Highway Traffic Administration                                       | P      | 4 Years (E)                | Highway Safety Program Analyst     | 35                   | 45   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Highway Traffic Administration                                       | P      | 1 Year (F)                 | Driver Training Program Specialist | 110                  | 110  | 110  | 110  | 110  | 110  | 110  | 110  | 110  | 110  |
| Traffic Engineering  | P      | 4 Years (E)                | Highway Engineer                   | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| <u>University of Michigan</u>  |        |                            |                                    |                      |      |      |      |      |      |      |      |      |      |
| Transportation and Traffic Engineering                               | P      | 1-3 Years (E)<br>P 1 Term* | Traffic Engineer                   | 18                   | 25   | 25   | 26   | 27   | 28   | 29   | 30   | 30   | 30   |
| Traffic Flow I   | P      | 1 Term*                    | Traffic Engineer                   | 8                    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
| Transportation Planning  | P      | 1 Term*                    | Traffic Engineer                   | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Traffic Control  | P      | 1 Term*                    | Traffic Engineer                   | 8                    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
| Highway Engineering  | P      | 1 Year (E)                 | Traffic Engineer                   | 18                   | 25   | 25   | 26   | 27   | 28   | 29   | 30   | 30   | 30   |
| Principles of Pavement Design  | P      | 1 Term*                    | Traffic Engineer                   | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| Highway Materials  | P      | 1 Term*                    | Traffic Engineer                   | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Geometric Design of Highways and<br>Interchanges                     | P      | 1 Term*                    | Traffic Engineer                   | 7                    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
| <u>Department of State—Michigan State University</u>                 |        |                            |                                    |                      |      |      |      |      |      |      |      |      |      |
| Supervisory Development  | P      | 24 Hours                   | Driver Education Supervisor        | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Driver Improvement   | P      | 40 Hours                   | Driver Retraining Instructor       | 60                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Driver License Examining   | P      | <10 Hours                  | Driver License Examiner            | 222                  | 222  | 222  | 222  | 222  | 222  | 222  | 222  | 222  | 222  |
| <u>Michigan State University</u>                                     |        |                            |                                    |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineering Operations                                       | R      | >2 Hours                   | Traffic Engineer                   | 80                   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   |
| <u>Michigan State University—School of Police<br/>Administration</u> | A      | 50 Hours                   | Police Traffic Services Officer    | 200                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |

\* The University of Michigan operates on a trimester system.

TRAINING PROGRAMS

State: MINNESOTA

## TRAINING PROGRAMS

State: MISSISSIPPI

| Institution/ Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Highway Safety Patrol<br>Recruit School             |        | 160 Hours             | Police Traffic Services Patrolman | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## TRAINING PROGRAMS

State: MISSOURI

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training     | Job Title                            | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|------------------------|--------------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                        |                                      | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Central Missouri State College                     |        |                        |                                      |                      |      |      |      |      |      |      |      |      |
| Safety Education                                   |        | 1-3 Years (E)          | Driver Education Supervisor          | 40                   | 40   | 190  | 110  | 120  | 130  | 140  | 150  | 150  |
| Safety Education                                   |        | 4 Years (E)            | Driver Education Teacher             | 200                  | 180  | 200  | 220  | 240  | 260  | 280  | 300  | 300  |
| Law Enforcement:                                   |        | 4 Years (E)            | Police Traffic Services Officer      | 300                  | 350  | 400  | 420  | 440  | 460  | 480  | 500  | 500  |
| University of Missouri                             | R      | 1 Year (E)<br>16 weeks | Traffic Engineer<br>Traffic Engineer | 6                    | 8    | 16   | 11   | 12   | 13   | 14   | 15   | 15   |
| Transportation Engineering                         |        |                        |                                      | 12                   | 12   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Transportation Planning and Models                 |        |                        |                                      |                      |      |      |      |      |      |      |      |      |
| Missouri State Highway Patrol                      | A      | 80 hours               | Death Examiner Specialist            | 40                   | 120  | 120  | 120  | 120  | 120  | 120  | 120  | 120  |
| Alcohol Test Testers                               |        |                        | Police Traffic Services Patrolman    | 120                  | 120  | 120  | 120  | 120  | 120  | 120  | 120  | 120  |
| Basic Recruit Training                             |        |                        | Police Traffic Services Patrolman    | 300                  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  |
| Peace Officers School                              |        |                        |                                      |                      |      |      |      |      |      |      |      |      |
| Auto Club of Missouri                              | R      | 24 hours               | Traffic Examiner                     | 200                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |
| Missouri Traffic Forum                             |        |                        |                                      |                      |      |      |      |      |      |      |      |      |

\* Course also is given as part of Basic Recruit Training.

TRAINING PROGRAMS

State: MONTANA

| Institution/Agency Name<br>Curriculum/Course Title          | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Montana State University<br><u>Safety Education</u>         | P      | 2 weeks               | Driver Education Teacher          | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| <u>Safety Education and Driver Training</u>                 |        |                       | Driver Education Teacher          | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| <u>Advanced Safety Education and<br/>Driver Training</u>    | P      |                       | Driver Education Teacher          | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| State Police<br><u>Driver Licensing In-Service Training</u> | P      | 60 Hours              | Driver License Examiner           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>In-Service Training for Patrolman</u>                    | R      | 40 Hour               | Police Traffic Services Patrolman | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## TRAINING PROGRAMS

## STATE: NEBRASKA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| University of Nebraska                             |        |                       |                                   |                      |      |      |      |      |      |      |      |      |
| Driver Education I                                 | P      | 1 Semester            | Driver Education Teacher          | 60                   | 70   | 80   | 84   | 88   | 92   | 96   | 100  | 100  |
| Driver Education II                                | P      | 1 Semester            | Driver Education Teacher          | 50                   | 60   | 70   | 74   | 78   | 82   | 86   | 90   | 90   |
| Education for Safety                               | P      | 1 Semester            | Driver Education Teacher          | 110                  | 110  | 110  | 112  | 114  | 116  | 118  | 120  | 120  |
| Transportation Engineering I                       | P      | 1 Semester            | Highway Engineer                  | 40                   | 45   | 45   | 46   | 47   | 48   | 49   | 50   | 50   |
| Transportation Engineering II                      | P      | 1 Semester            | Highway Engineer                  | 5                    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Motor Vehicle Division                             |        |                       |                                   |                      |      |      |      |      |      |      |      |      |
| Driver License Examiners Training School*          |        | 120 Hours             | Driver License Examiner           | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Highway Patrol                                     |        |                       |                                   |                      |      |      |      |      |      |      |      |      |
| Basic Recruit Course                               | R      | 280 Hours             | Police Traffic Services Patrolman | 40                   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Refresher: In-Service Course                       |        |                       | Police Traffic Services Patrolman | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

\* Course has been O.J.T. in past and may return to O.J.T. in the future as normal increases and replacements are required.

## TRAINING PROGRAMS

State: NEVADA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                | Estimated Enrollment |      |      |      |      |      |      |      |
|--|--------|-----------------------|--------------------------|----------------------|------|------|------|------|------|------|------|
|  |        |                       |                          | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| University of Nevada                               | P      | 6 Weeks               | Driver Education Teacher | 35                   | 38   | 40   | 41   | 42   | 43   | 44   | 45   |
|  | P      | 14 Weeks              | Highway Engineer         | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Driver Education and Training                      | P      | 14 Weeks              | Highway Engineer         | 1                    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Transportation Engineering                         | P      | 14 Weeks              | Highway Engineer         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Highway Engineering                                | P      | 14 Weeks              | Highway Engineer         |                      |      |      |      |      |      |      |      |
| Introduction to Traffic Engineering                |        |                       |                          |                      |      |      |      |      |      |      |      |

## TRAINING PROGRAMS

## State: NEW HAMPSHIRE

| Institution/Agency Name<br>Curriculum/Course Title   | Status | Length of<br>Training                 | Job Title   | Estimated Enrollment |                 |                 |                 |                 |                 |                 |                 |                 |
|--|--------|---------------------------------------|---|----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|  |        |                                       |   | 1968                 | 1969            | 1970            | 1971            | 1972            | 1973            | 1974            | 1975            | 1976            |
| Keene Teachers' College<br>Driver Education*   | P      | 12-15 weeks                           | Driver Education Teacher  | 40                   | 40              | 40              | 40              | 40              | 40              | 40              | 40              | 40              |
| Department of Safety<br>Trooper Retraining<br>Trooper Recruit School<br>Trooper Retraining | R      | 160 Hours<br>240 Hours<br>R 200 Hours | Police Traffic Services Officer**<br>Police Traffic Services Patrolman<br>Police Traffic Services Patrolman | 15<br>20<br>150      | 15<br>25<br>177 | 15<br>30<br>204 | 15<br>33<br>231 | 15<br>36<br>258 | 15<br>39<br>285 | 15<br>42<br>332 | 15<br>45<br>383 | 15<br>45<br>415 |

\* The implementation of an advanced driver education course which would have an estimated enrollment of 15-17 students is being considered.  
 \*\* Course is for all personnel from captain through corporal.

## TRAINING PROGRAMS

State: NEW JERSEY

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| Trenton State Teachers<br>Basic Driver Education   | P      | 3 weeks            | Driver Education Teacher          | 50                   | 50*  | 50   | 50   | 50   | 50   | 50   | 50   |
| State Police                                       |        |                    |                                   |                      |      |      |      |      |      |      |      |
| Chemical Breath Testing                            |        | 40 Hours           | Breath Examiner Specialist        | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| State Police Training                              |        | 640 Hours          | Police Traffic Services Patrolman | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| In-Service Training for Troopers                   | R      |                    | Police Traffic Services Patrolman | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Motor Vehicle Division                             |        |                    |                                   |                      |      |      |      |      |      |      |      |
| Motor Vehicle Officers Training                    |        | 480 Hours          | Police Traffic Services Patrolman | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

\* This number could increase sharply if the state program goes into effect. Only 3 institutions in New Jersey teach driver education. In addition to Trenton: Monclair with 75-80 graduates a year and Glassboro with 20-25 graduates a year.

## TRAINING PROGRAMS

## State: NEW MEXICO

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training | Job Title  | Estimated Enrollment |      |      |      |      |      |      |      |
|---|--------|--------------------|--|----------------------|------|------|------|------|------|------|------|
|   |        |                    |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| <u>University of New Mexico</u><br><br><u>Traffic Safety Education in Secondary Schools</u> | P      | 8 Weeks            | Driver Education Teacher                         | 40                   | 40   | 45   | 46   | 47   | 48   | 49   | 50   |
|   | P      | 14 Weeks           | Highway Engineer                                 | 27                   | 30   | 31   | 32   | 33   | 34   | 35   | 35   |
|   | P      | 14 Weeks           | Highway Engineer                                 | 10                   | 12   | 12   | 13   | 13   | 14   | 15   | 15   |
| <u>State Police</u><br><br><u>Police Management School</u>                                  | A      | 40 Hours           | Police Traffic Services Officer                  | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
|   | R      | 30 Hours           | Police Traffic Services Patrolman (Sgt.)         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | A      | 30 Hours           | Police Traffic Services Patrolman                | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>In-Service School for Officers</u><br><br><u>Recruit School</u>                          | A      | 320 Hours          | Police Traffic Services Patrolman                | 50                   | 50   | 60   | 64   | 68   | 72   | 76   | 80   |
|   | R      | 24 Hours           | Driver Retraining Instructor                     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | R      | 24 Hours           | Annual Workshop for Driver Improvement Personnel | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

\*Course is offered to lieutenants and captains also.

TRAINING PROGRAMS

| State: NEW YORK                             | Institution/Agency Name  | Curriculum/Course Title   | Status        | Length of Training | Job Title   | Estimated Enrollment |      |      |      |      |      |      |
|---|--|---|---------------|--------------------|---|----------------------|------|------|------|------|------|------|
|   |  |   |               |                    |   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 |
| Columbia Teachers College                   | Health Education   | 3 Years (E)   |               |                    | Driver Education Program Specialist   | 30                   | 30   | 30   | 30   | 30   | 30   | 30   |
|   | Driver and Traffic Safety Education  | P 75 Hours  |               |                    | Driver Education Program Specialist   | 30                   | 30   | 30   | 30   | 30   | 30   | 30   |
| Cornell University-Cornell Aeronautical Lab | Transportation Research  |   |               |                    | Traffic Records Program Analyst   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |
| New York University-The Center for Safety   | Safety Education and Accident Prevention Garage Inspection Training  | P 40 Hours  | 1-3 Years (E) |                    | Driver Education Supervisor Motor Vehicle Station Inspector   | 450                  | 550  | 650  | 710  | 770  | 830  | 890  |
| State Police                                | Indoctrination Course for New Lieutenants Basic Recruit Training Intermediate Course Non-Commissioned Officers Indoctrination Course Supervisory Training Course | S0 Hours<br>240 Hours<br>A 80 Hours<br>P 80 Hours<br>A 70 Hours |               |                    | Police Traffic Services Officer Police Traffic Services Patrolman Police Traffic Services Patrolman2 Police Traffic Services Patrolman Police Traffic Services Patrolman Police Traffic Services Patrolman2 | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |

**TRAINING PROGRAMS**

**State: NORTH CAROLINA**

| Institution/Agency Name<br>Curriculum/Course Title                      | Status | Length of Training | Job Title  | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|--|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| North Carolina State University   | P      | 15 Weeks           | Highway Engineer                                 | 60                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Transportation Engineering I  | P      | 15 Weeks           | Highway Engineer                                 | 60                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Transportation Engineering II   | P      | 15 Weeks           | Traffic Engineer                                 | 8                    | 8    | 9    | 9    | 9    | 9    | 10   | 10   | 10   |
| MS/Prof. Degree in Civil Engineering,<br>Transportation Operations*     | P      | 1 Year (E)         | Traffic Engineer                                 | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| Transportation Design*  | P      | 15 Weeks           | Traffic Engineer                                 | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Transportation Planning*  | P      | 15 Weeks           | Traffic Engineer                                 | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| MS-Transportation Engineering   | P      | 1 Year (E)         | Traffic Engineer                                 | 13                   | 13   | 13   | 13   | 13   | 13   | 13   | 13   | 13   |
| Advanced Transportation Design  | P      | 15 Weeks           | Traffic Engineer                                 | 9                    | 10   | 15   | 16   | 17   | 18   | 19   | 20   | 20   |
| PhD-Transportation Engineering  | P      | 3 Years (E)        | Traffic Engineer                                 | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| University of North Carolina  | P      | 36 Hours           | Driver Education Teacher                         | 50                   | 55   | 60   | 63   | 66   | 69   | 72   | 75   | 75   |
| Driver Education  |        |                    |  |                      |      |      |      |      |      |      |      |      |
| University of North Carolina, Public Health<br>School                   |        |                    |  |                      |      |      |      |      |      |      |      |      |
| MPH/NSP/I/DPH-Public Health Accident<br>Research                        | P      | 1 Year (E)         | Emergency Medical Services<br>Program Specialist | 3                    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| MPH-Accident Control Program  | P      | 1 Year (E)         | Emergency Medical Services<br>Program Specialist | 5                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Accident Control Methods I  | P      | 15 Weeks           | Emergency Medical Services<br>Program Specialist | 8                    | 8    | 10   | 11   | 13   | 14   | 16   | 16   | 16   |
| Accident Control Methods II   | P      | 15 Weeks           | Emergency Medical Services<br>Program Specialist | 9                    | 15   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Department of Motor Vehicles-License and<br>Safety Enforcement Division | R      | 40 Hours           | Motor Vehicle Station Inspector                  | 0                    | 85   | 0    | 90   | 0    | 95   | 0    | 99   | 0    |
| In-Service Refresher-PMVI   |        |                    |  |                      |      |      |      |      |      |      |      |      |

\* Course also is part of MS-Transportation Engineering and PhD-Transportation Engineering curricula.

## TRAINING PROGRAMS

## State: NORTH CAROLINA (continued)

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training | Job Title                         | Estimated Enrollment |       |       |       |       |       |       |       |       |
|---|--------|--------------------|-----------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|   |        |                    |                                   | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  |
| Department of Motor Vehicles: Drive, License Division   | R      | 32 Hours           | Driver License Examiner           | 190                  | 223   | 230   | 235   | 240   | 244   | 250   | 256   | 256   |
| In-Service-Driver License Examiners   | R      | 8 Hours            | Driver License Examiner           | 20*                  | 242   | 250   | 257   | 263   | 269   | 275   | 282   | 282   |
| Refresher-Driver License Examiners**  | R      | 24 Hours           | Driver License Hearing Officer    | 18                   | 19    | 20    | 21    | 22    | 23    | 24    | 26    | 26    |
| ...-Service-Hearing Officers  |        |                    |                                   |                      |       |       |       |       |       |       |       |       |
| Department of Motor Vehicles-Highway Patrol   |        |                    |                                   |                      |       |       |       |       |       |       |       |       |
| Basic Recruit Training-Highway Patrol   | R      | 520 Hours          | Police Traffic Services Patrolman | 60                   | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    |
| In-Service Training for Highway Patrolman   | R      | 40 Hours           | Police Traffic Services Patrolman | 900                  | 1,010 | 1,120 | 1,230 | 1,340 | 1,450 | 1,500 | 1,670 | 1,670 |
| Highway Patrol  |        |                    |                                   |                      |       |       |       |       |       |       |       |       |
| Breath Examiner Specialist  | R      | 68 Hours           | Breath Examiner Specialist        | 25                   | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    |
| Training in Chemical Test for Alcohol-Basic Refresher Training for Breath Examiner Specialist | R      | 28 Hours           | Breath Examiner Specialist        | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| University of North Carolina; Institute of Government   | P      | 40 Hours           | School Bus Program Specialist     | 60                   | 61    | 63    | 64    | 65    | 67    | 68    | 69    | 69    |
| In-Service University of North Carolina Highway Department                                    |        |                    |                                   |                      |       |       |       |       |       |       |       |       |
| Highway Engineer in Training  |        | 100 Hours          | Highway Engineer                  | 30                   | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    |
| Civ. Co-Operative   |        | 120 Hours          | Engineering Aide-Safety           | 33                   | 55    | 75    | 80    | 85    | 90    | 95    | 100   | 100   |
| Civil Technicians in Training   |        | 40 Hours           | Engineering Aide-Safety           | 30                   | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    |

\* This course also is open to Driver License Hearing Officers.

TRAINING PROGRAMS

State: NORTH DAKOTA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>North Dakota State University</u>               | P      | 1 Quarter          | Driver Education Teacher          | 1                    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
|  | P      | 1 Quarter          | Driver Education Teacher          | 7                    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
|  | P      | 1 Quarter          | Driver Education Teacher          | 64                   | 64   | 64   | 64   | 64   | 64   | 64   | 64   | 64   | 64   |
|  | P      | 1 Semester         | Highway Engineer*                 | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>University of North Carolina</u>                | P      | 1 Semester         | Highway Engineer                  | 80                   | 85   | 90   | 92   | 94   | 96   | 98   | 100  | 100  | 100  |
|  | P      | 1 Semester         | Highway Engineer                  | 0                    | 0    | 6    | 6    | 8    | 8    | 10   | 10   | 10   | 10   |
|  | P      | 1 Semester         | Highway Engineer                  | 0                    | 0    | 6    | 6    | 8    | 8    | 10   | 10   | 10   | 10   |
|  | P      | 1 Semester         | Traffic Engineer                  | 80                   | 85   | 90   | 92   | 94   | 96   | 98   | 100  | 100  | 100  |
| <u>State Toxicology Laboratory</u>                 | R      | 40 Hours           | Breath Examiner Specialist        | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
|  | R      | 8 Hours            | Breath Examiner Specialist        | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
|  | R      | 520 Hours          | Police Traffic Services Patrolman | 17                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
|  | R      | 40 Hours           | Police Traffic Services Patrolman | 66                   | 86   | 90   | 94   | 98   | 102  | 106  | 106  | 106  | 106  |
| <u>Highway Patrol</u>                              |        |                    |                                   |                      |      |      |      |      |      |      |      |      |      |
| <u>Basic Training</u>                              |        |                    |                                   |                      |      |      |      |      |      |      |      |      |      |
| <u>Field Personnel Annual Review</u>               |        |                    |                                   |                      |      |      |      |      |      |      |      |      |      |

\*Course has not been offered to date.

TRAINING PROGRAMS

State: OHIO

| Institution/Agency Name<br>Curriculum/Course Title                        | Status | Length of Training | Job Title                       | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|---------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                                 | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Bowling Green University<br><u>Drivers Education for Teachers</u>         | P      | 12 weeks           | Driver Education Teacher        | 150                  | 150  | 150  | 150  | 150  | 150  | 150  | 150  | 150  |
| Kent State University<br><u>Driver Education for Teachers</u>             | P      | 12 weeks           | Driver Education Teacher        | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| LAW Enforcement<br><u>Intro. to Highway Traffic Administration</u>        | P      | 4 Years            | Police Traffic Services Officer | 60                   | 80   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Records in Law Enforcement and Public Safety                              | P      | 12 Weeks           | Police Traffic Services Officer | 60                   | 80   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Ohio Northern<br><u>Driver Education</u>                                  | P      | 2 weeks            | Driver Education Teacher        | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Ohio State University<br><u>Driver Education</u>                          | P      | 12 Weeks           | Driver Education Teacher        | 48                   | 48   | 48   | 48   | 48   | 48   | 48   | 48   | 48   |
| Civil Engineering<br><u>Transportation and Traffic Engineering</u>        | P      | 4 Years (E)        | Highway Engineer                | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Fundamentals in Traffic Engineering<br><u>Highway Location and Design</u> | P      | 1-3 Years(E)       | Traffic Engineer                | 18                   | 20   | 25   | 26   | 27   | 28   | 29   | 30   | 30   |
| Highway Administration<br><u>Traffic Engineering I</u>                    | P      | 1 Semester(E)      | Traffic Engineer                | 12                   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 20   |
| Traffic Engineering II<br><u>Traffic Engineering III</u>                  | P      | 1 Semester(E)      | Traffic Engineer                | 17                   | 19   | 19   | 21   | 22   | 23   | 23   | 24   | 25   |
| Transportation Accident Research<br><u>Graduate Education Training</u>    | P      | 1 Semester(E)      | Traffic Engineer                | 17                   | 19   | 21   | 22   | 23   | 23   | 23   | 24   | 25   |
| Ohio University<br><u>Driver Education</u>                                | P      | 4 years            | Driver Education Teacher        | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Driver Safety Education<br><u>Teaching Traffic Safety</u>                 | P      | 1 Quarter          | Driver Education Teacher        | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Transportation<br><u>Advanced Traffic Engineering</u>                     | P      | 1 Year (E)         | Traffic Engineer                | 6                    | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
|   | P      | 12 Weeks           | Traffic Engineer                | 8                    | 9    | 10   | 11   | 12   | 13   | 14   | 15   | 15   |
|   |        |                    |                                 | 0                    | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |

## TRAINING PROGRAMS

State: OHIO (continued)

| Institution/Agency Name<br>Curriculum/Course Title                      | Status | Length of Training | Job Title                  | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|----------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                            | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| <u>University of Cincinnati</u>   |        |                    |                            |                      |      |      |      |      |      |      |      |      |
| Driver Education  | P      | 26 Weeks           | Driver Education Teacher   | 35                   | 40   | 80   | 80   | 80   | 80   | 80   | 80   | 80   |
| Highway Engineering I and II  | P      | 24 Weeks           | Highway Engineer           | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Civil Engineering   |        | 1 Year (E)         | Traffic Engineer           | 8                    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
| Transportation Engineering Studies                                      | P      | 1 Quarter          | Traffic Engineer           | 0                    | 8    | 0    | 8    | 0    | 8    | 0    | 8    | 0    |
| Traffic Engineering Design  | P      | 1 Quarter (E)      | Traffic Engineer           | 0                    | 5    | 0    | 5    | 0    | 5    | 0    | 5    | 0    |
| Geometric Design of Highways  | P      | 1 Quarter (E)      | Traffic Engineer           | 7                    | 0    | 8    | 0    | 8    | 0    | 8    | 0    | 8    |
| Transportation Planning   | P      | 1 Quarter (E)      | Traffic Engineer           | 0                    | 7    | 0    | 7    | 0    | 7    | 0    | 7    | 0    |
| <u>University of Toledo</u>   |        |                    |                            |                      |      |      |      |      |      |      |      |      |
| Transportation I and II   | P      | 24 Weeks           | Highway Engineer           | 28                   | 30   | 33   | 36   | 40   | 40   | 47   | 50   | 50   |
| Highway Economics   | P      | 12 Weeks           | Highway Engineer           | 0                    | 14   | 0    | 14   | 0    | 14   | 0    | 14   | 0    |
| Pavement Design   | P      | 12 weeks           | Highway Engineer           | 0                    | 14   | 0    | 14   | 0    | 14   | 0    | 14   | 0    |
| Traffic Control   | P      | 12 Weeks           | Highway Engineer           | 6                    | 0    | 6    | 0    | 6    | 0    | 6    | 0    | 6    |
| <u>Department of Education--Trade and Industrial Education Services</u> |        |                    |                            |                      |      |      |      |      |      |      |      |      |
| Instructor Training   |        | 90 hours           | Emergency Medical Services | 24                   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   |
|   |        |                    | Field Representative       |                      |      |      |      |      |      |      |      |      |

In addition, Ohio has a Highway Patrol Academy. Although it was established primarily to provide training to highway patrol recruits, the academy has ample capacity to provide in-service training to many specialties in highway safety including: Traffic, Driver Examination, and School Bus Inspection. However, none of these is given on a repetitive annual schedule.

## TRAINING PROGRAMS

State: OKLAHOMA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |
|--|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|
|  |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| Oklahoma State University<br>Safety Education      | P      | 17 Weeks              | Driver Education Teacher          | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Basic Driver Education                             | P      | 17 Weeks              | Driver Education Teacher          | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Advanced Driver Education*                         | P      | 12 Weeks              | Driver Education Teacher          | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| University of Oklahoma<br>Law Enforcement          |        | 124 Hours             | Police Traffic Services Officer   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Highway Patrol<br>Recruit Training                 |        | 320 Hours             | Police Traffic Services Patrolman | 47                   | 47   | 47   | 47   | 47   | 47   | 47   | 47   |

\* In addition, a course dealing with simulation and driver instruction techniques is planned.

## TRAINING PROGRAMS

## State: OREGON

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Oregon State University                            |        |                       |                                   |                      |      |      |      |      |      |      |      |      |
| Safety Education                                   | P      | 11 Weeks              | Driver Education Teacher          | 26                   | 26   | 26   | 26   | 26   | 26   | 26   | 26   | 26   |
| Driver Education and Training                      | P      | 11 Weeks              | Driver Education Teacher          | 16                   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   |
| Highway Engineering                                | P      | 11 Weeks              | Highway Engineer                  | 47                   | 47   | 47   | 47   | 47   | 47   | 47   | 47   | 47   |
| Transportation Engineering                         | P      | 11 Weeks              | Traffic Engineer                  | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Department of Motor Vehicles                       |        |                       |                                   |                      |      |      |      |      |      |      |      |      |
| In-Service for Driver Improvement Analysis         | R      | 16 Hours              | Driver Retraining Instructor      | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| In-Service for Driver License Examiners            | R      | 40 Hours              | Driver License Examiner           | 75                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |
| State Police                                       |        |                       |                                   |                      |      |      |      |      |      |      |      |      |
| Recruit School                                     |        |                       | Police Traffic Services Patrolman | 27                   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   |
| In-Service Training for Patrolmen and<br>Sergeants | A      | 48 Hours              | Police Traffic Services Patrolman | 480                  | 520  | 520  | 520  | 520  | 520  | 520  | 520  | 520  |

TRAINING PROGRAMS

**State: PENNSYLVANIA**

| Institution/Agency Name<br>Curriculum/Course Title                   | Status | Length of Training | Job Title                                | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|--|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| <u>Pennsylvania State University</u>                                 |        |                    |  |                      |      |      |      |      |      |      |      |      |
| Driver and Traffic Safety Education                                  | P      | 4-5 Years (F)      | Driver Education Teacher                 | 15                   | 15   | 15   | 15   | 15   | 15   | 18   | 19   | 20   |
| General Safety Education   | P      | 10 Weeks           | Driver Education Teacher                 | 14                   | 14   | 15   | 15   | 15   | 15   | 15   | 15   | 20   |
| Visual and Other Aids in Safety Education                            | P      | 10 Weeks           | Driver Education Teacher                 | 12                   | 12   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Teachers' Traffic Safety and Auto Operations                         | P      | 10 Weeks           | Driver Education Teacher                 | 6                    | 6    | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Organization and Supervision in Safety Education                     | P      | 10 Weeks           | Driver Education Teacher                 | 12                   | 12   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Drivers License Conference   | P      | 40 Hours           | Driver License Examiner                  | 65                   | 65   | 65   | 65   | 65   | 65   | 65   | 65   | 65   |
| Introduction to Env. Psychology                                      | P      | 10 Weeks           | Highway Engineer                         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Traffic Engineering Safety*  | P      | 1-3 Years (E)      | Traffic Engineer                         | 0                    | 6    | 10   | 11   | 12   | 13   | 14   | 15   | 15   |
| Transportation Engineering   | P      | 10 Weeks           | Traffic Engineer                         | 0                    | 6    | 10   | 11   | 12   | 13   | 14   | 15   | 15   |
| Highway Safety and Traffic Control/Traffic Characteristics of Safety | P      | 10 Weeks           | Traffic Engineer                         | 8                    | 15   | 20   | 21   | 22   | 23   | 24   | 25   | 25   |
| Transportation Operation   | P      | 10 Weeks           | Traffic Engineer                         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Highway Geometric Design   | P      | 10 Weeks           | Highway Engineer                         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Traffic Officers Training School                                     | P      | 70 Hours           | Police Traffic Services Officer          | 45                   | 45   | 90   | 90   | 90   | 90   | 90   | 90   | 90   |
| Traffic Command School   | P      | 35 Hours           | Police Traffic Services Patrolman (Sgt.) | 25                   | 25   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Pupil Transportation Supervision                                     | P      | 40 Hours           | School Bus Driver Training Officer       | 35                   | 35   | 35   | 35   | 35   | 35   | 35   | 35   | 35   |
| <u>Temple University</u>   |        |                    |  |                      |      |      |      |      |      |      |      |      |
| M.S. Education--Safety Psychology of Safety and Accident Prevention  | P      | 1 Year (E)         | Driver Education Supervisor              | 12                   | 12   | 13   | 13   | 14   | 14   | 14   | 15   | 15   |
| Curriculum in Safety Education                                       | P      | 1 Semester         | Driver Education Supervisor              | 36                   | 0    | 30   | 0    | 32   | 0    | 34   | 35   | 35   |
| Modern Advances in Health Science                                    | P      | 1 Semester         | Driver Education Supervisor              | 0                    | 30   | 0    | 32   | 0    | 33   | 0    | 35   | 0    |
| Curriculum in Health Education                                       | P      | 1 Semester         | Driver Education Supervisor              | 25                   | 30   | 30   | 31   | 32   | 33   | 34   | 35   | 35   |
| History and Phil. of Health and Physical Education                   | P      | 1 Semester         | Driver Education Supervisor              | 25                   | 30   | 30   | 31   | 32   | 33   | 34   | 35   | 35   |
| Research Methods   | P      | 1 Semester         | Driver Education Supervisor              | 26                   | 30   | 31   | 32   | 33   | 34   | 35   | 35   | 35   |
|  |        |                    | Driver Education Supervisor              | 15                   | 20   | 20   | 21   | 22   | 23   | 24   | 25   | 25   |

\* The Bureau of Highway Traffic at Yale University was scheduled to move to Penn State in July 1968. The difference will be that the curriculum at Penn State will offer an M. S. at Yale only a certificate was awarded.

## TRAINING PROGRAMS

## State: PENNSYLVANIA (continued)

| Institution/Agency Name<br>Curriculum/Course Title   | Status                | Length of Training  | Job Title   | Estimated Enrollment                      |   |   |   |   |   |   |   |   |    |
|--|-----------------------|---|---|---|---|---|---|---|---|---|---|---|----|
|  |                       |   |   | 1968                                      | 1969                                    | 1970                                    | 1971                                    | 1.2                                     | 1973                                    | 1974                                    | 1975                                    | 1976                                    |    |
| Temple University (Continued)<br>Driver Education Workshop<br>Safety and First Aid   | P<br>P                | 1 Semester<br>1 Semester  | Driver Education Teacher<br>Driver Education Teacher  | 15<br>45                                  | 15<br>45                                | 15<br>50                                | 15<br>51                                | 15<br>52                                | 15<br>53                                | 15<br>54                                | 15<br>55                                | 15<br>55                                |    |
| University of Pennsylvania<br>Transportation Engineering<br>Transportation Engineering<br>Analysis of Transportation Systems   | P<br>P<br>P           | 1 Semester<br>1-3 Years(E)<br>1 Semester                            | Highway Engineer<br>Traffic Engineer<br>Traffic Engineer  | 11<br>5<br>5                              | 15<br>10<br>10                          | 20<br>12<br>12                          | 20<br>14<br>14                          | 20<br>15<br>15                          | 20<br>17<br>17                          | 20<br>18<br>18                          | 20<br>20<br>20                          | 20<br>20<br>20                          |    |
| Geometric Design of Transportation Systems<br>and Facilities<br>Urban Public Transportation  | P<br>P                | 1 Semester<br>1 Semester  | Traffic Engineer<br>Traffic Engineer  | 13<br>3                                   | 15<br>10                                | 20<br>15                                | 21<br>17                                | 22<br>19                                | 23<br>21                                | 24<br>23                                | 25<br>25                                | 25<br>25                                |    |
| University of Pittsburgh<br>Masters of Education--Safety<br>Research Readings<br>Research Seminar<br>Education for Safe Living<br>Bachelor's in Educ. --Certification Safety Ed. | P<br>P<br>P<br>P<br>P | 1 Year (E)<br>1 Semester<br>1 Semester<br>1 Semester<br>4 Years (E) | Driver Education Supervisor<br>Driver Education Supervisor<br>Driver Education Supervisor<br>Driver Education Supervisor<br>Driver Education Teacher  | 15<br>12<br>2<br>25<br>0                  | 20<br>12<br>4<br>30<br>12               | 25<br>12<br>5<br>30<br>15               | 25<br>12<br>5<br>30<br>17               | 25<br>12<br>5<br>30<br>18               | 25<br>12<br>5<br>30<br>19               | 25<br>12<br>5<br>30<br>20               | 25<br>12<br>5<br>30<br>20               | 25<br>12<br>5<br>30<br>20               |    |
| Introduction to Safety Education<br>First Aid and Disaster Preparedness<br>Occupational Hygiene<br>Water Safety<br>Driver Education  | P<br>P<br>P<br>P<br>P | 1 Semester<br>1 Semester<br>1 Semester<br>1 Semester<br>1 Semester  | Driver Education Teacher<br>Driver Education Teacher<br>Driver Education Teacher<br>Driver Education Teacher<br>Driver Education Teacher  | 0<br>0<br>0<br>0<br>20                    | 15<br>15<br>15<br>15<br>20              | 0<br>0<br>0<br>0<br>20                  | 17<br>17<br>17<br>17<br>20              | 0<br>0<br>0<br>0<br>20                  | 18<br>18<br>17<br>17<br>20              | 0<br>0<br>0<br>0<br>20                  | 0<br>0<br>0<br>0<br>20                  | 0<br>0<br>0<br>0<br>20                  |    |
| State Police<br>Inspection Station Supervisor In-Service<br>Training   | P                     | 40 Hours  | Motor Vehicle Station Inspector   | 100                                       | 50                                      | 50                                      | 50                                      | 50                                      | 50                                      | 50                                      | 50                                      | 50                                      | 50 |
| Driver License Examiner (Civilian) Training<br>Chemical Testing Training<br>Cader Training<br>In-Service--In Field<br>Leadership I and II: Preparation                           | R<br>P<br>A<br>R      | 8 Hours<br>8 Hours<br>480 Hours<br>120 Hours<br>80 Hours            | Motor Vehicle Station Inspector<br>Driver License Examiner<br>Breath Examiner Specialist<br>Police Traffic Services Patrolman<br>Police Traffic Services Patrolman<br>Police Traffic Services Patrolman | 170<br>100<br>2,500<br>300<br>2,100<br>72 | 170<br>450<br>300<br>300<br>2,400<br>72 | 176<br>50<br>350<br>300<br>2,700<br>108 | 182<br>60<br>350<br>340<br>3,100<br>115 | 188<br>65<br>350<br>380<br>3,500<br>122 | 194<br>70<br>350<br>420<br>4,200<br>130 | 200<br>75<br>350<br>480<br>4,600<br>137 | 200<br>75<br>350<br>500<br>4,600<br>144 | 200<br>75<br>350<br>500<br>4,600<br>144 |    |

## TRAINING PROGRAMS

## State: PENNSYLVANIA (continued)

| Institution/Agency Name<br>Curriculum/Course Title                                | Status | Length of Training | Job Title  | Estimated Enrollment |       |       |       |       |       |       |       |
|---|--------|--------------------|--|----------------------|-------|-------|-------|-------|-------|-------|-------|
|   |        |                    |  | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  |
| Department of Revenue<br>Basic Training Title Examiners                           | P      | 75 Hours           | Driver License Examiner                                  | 30                   | 30    | 30    | 32    | 34    | 36    | 38    | 40    |
| Department of Public Instruction<br>In-Service Training for Dr. Ed. Teachers      | R      | 8-40 Hours         | Driver Education Teacher                                 | 1,284                | 1,656 | 1,965 | 1,975 | 1,986 | 1,996 | 2,007 | 2,017 |
| Highway Department...<br>Principles of Traffic Engineering<br>Technology Training | P      | 40 Hours           | Traffic Engineer<br>Traffic Control Device<br>Technician | 44                   | 44    | 22    | 22    | 22    | 22    | 22    | 22    |

## TRAINING PROGRAMS

## State: RHODE ISLAND

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |
|---|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|
|   |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| Rhode Island College<br><u>Basic Driver Education</u>   | P      | 30 Hours           | Driver Education Teacher          | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| University of Rhode Island<br><u>Transportation Engineering</u><br><u>Traffic Engineering</u><br><u>Highway Engineering</u> | P      | 15 Weeks           | Highway Engineer                  | 30                   | 30   | 31   | 32   | 33   | 34   | 35   | 35   |
|   | P      | 15 Weeks           | Highway Engineer                  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
|   | P      | 15 Weeks           | Highway Engineer                  | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| State Police<br><u>State Police Academy</u>   |        | 639 Hours          | Police Traffic Services Patrolman | 20*                  | 20   | 20   | 20   | 20   | 20   | 20   | 20   |

\* Average enrollment. Could range from 10-30 depending on need.

## TRAINING PROGRAMS

## State: SOUTH CAROLINA

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training      | Job Title                                    | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|-------------------------|--|----------------------|------|------|------|------|------|------|------|------|
|  |        |                         |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| South Carolina State College                       | P      | 18 Weeks<br>4 Years (E) | Driver Education Teacher<br>Highway Engineer | 4                    | 32   | 32   | 34   | 35   | 37   | 38   | 40   | 40   |
| University of South Carolina                       | P      | 1 Semester              | Driver Education Teacher                     | 10                   | 10   | 12   | 14   | 16   | 18   | 20   | 20   | 20   |
| Driver Education I                                 | P      | 1 Semester              | Driver Education Teacher                     | 25                   | 50   | 75   | 80   | 85   | 90   | 95   | 100  | 100  |
| Teacher Training                                   | P      | 1 Semester              | Driver Education Teacher                     | 25                   | 50   | 75   | 85   | 90   | 95   | 100  | 100  | 100  |
| Driver Education                                   | P      | 1 Semester              | Driver Education Teacher                     | 330                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Transportation Engineering I                       | P      | 1 Semester              | Highway Engineer                             | 7                    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
| Transportation Engineering II                      | P      | 1 Semester              | Highway Engineer                             | 0                    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
| Masters in Traffic and Transportation Engineering  | P      | 1 Year (E)              | Traffic Engineer                             | 2                    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Traffic Engineering Characteristics                | P      | 1 Semester              | Traffic Engineer                             | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Traffic Engineering Operations                     | P      | 1 Semester              | Traffic Engineer                             | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Traffic Engineering Geometric Design               | P      | 1 Semester              | Traffic Engineer                             | 5                    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Traffic Flow Theory                                | P      | 1 Semester              | Traffic Engineer                             | 3                    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| Department of Highways                             |        |                         |  |                      |      |      |      |      |      |      |      |      |
| Motor Vehicle Station Inspector                    | R      | 80 Hours                | Motor Vehicle Station Inspector              | 11                   | 0    | 11   | 0    | 11   | 0    | 11   | 0    | 0    |
| In-Service Training Program                        |        |                         |  |                      |      |      |      |      |      |      |      |      |
| In-Service Training for Driver License Examiners   | R      | 24 Hours                | Driver License Examiner                      | 70                   | 92   | 119  | 122  | 125  | 128  | 131  | 134  | 134  |
| Basic Recruit Training                             | R      | 440 Hours               | Police Traffic Services Patrolman            | 70                   | 70   | 72   | 74   | 76   | 78   | 80   | 80   | 80   |
| In-Service - Highway Patrol                        | R      | 40 Hours                | Police Traffic Services Patrolman            | 500                  | 560  | 643  | 746  | 797  | 842  | 900  | 900  | 900  |
| Board of Health                                    |        |                         |  |                      |      |      |      |      |      |      |      |      |
| In-Service Breathalyzer Training                   |        | 40 Hours                | Breath Examiner Specialist                   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## TRAINING PROGRAMS

State: SOUTH DAKOTA

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of Training       | Job Title  | 1968     | 1969     | 1970     | 1971     | 1972     | 1973     | 1974     | 1975     | 1976     | 1977     |
|---|--------|--------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| University of South Dakota<br>Driver Education*Advanced Driver Education*                       | P<br>P | 1 Semester<br>1 Semester | Driver Education Teacher<br>Driver Education Teacher                   | 0<br>0   |
| Highway Patrol/Highway Department<br>Recruit Training Course<br>Highway Patrol Refresher Course | R      | 240 Hours<br>80 Hours    | Police Traffic Services Patrolman<br>Police Traffic Services Patrolman | 12<br>15 |

\* These courses have been approved but not offered. It is envisioned that they will be offered in the near future.

TRAINING PROGRAMS

State: TENNESSEE

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |       |       |       |       |       |       |       |       |
|--|--------|-----------------------|-----------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |        |                       |                                   | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  |
| University of Tennessee                            |        | 4-5 Years(E)          | Driver Education Teacher          | 25                   | 30    | 36    | 42    | 48    | 54    | 60    | 60    | 60    |
| Health Education                                   | P      | 12 Weeks              | Driver Education Teacher          | 240                  | 240   | 240   | 240   | 240   | 240   | 240   | 240   | 240   |
| First Aid and Disaster Education*                  | P      | 12 Weeks              | Driver Education Teacher          | 30                   | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    |
| First Aid for Elementary Teachers*                 | P      | 12 Weeks              | Driver Education Teacher          | 50                   | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    |
| Driver Education and Training                      | P      | 12 Weeks              | Driver Education Teacher          | 20                   | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    |
| Traffic Safety Education                           | P      | 12 Weeks              | Driver Education Teacher          | 50                   | 60    | 60    | 58    | 56    | 54    | 52    | 50    | 50    |
| Accident Prevention and Safety Education           | P      | 12 Weeks              | Driver Education Teacher          | 18                   | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    |
| Problems and Research in Accident<br>Prevention    | P      | 12 Weeks              | Traffic Engineer                  | 6                    | 8     | 10    | 11    | 12    | 13    | 14    | 15    | 15    |
| Transportation                                     | P      | 1 Year (E)            | Highway Engineer                  | 15                   | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    |
| Traffic Engineering                                | P      | 12 Weeks              | Highway Engineer                  | 8                    | 8     | 8     | 8     | 8     | 8     | 8     | 8     | 8     |
| Traffic Problems Analysis                          | P      | 12 Weeks              | Traffic Engineer                  | 15                   | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    |
| Traffic Engineering--Characteristics               | P      | 12 Weeks              | Traffic Engineer                  | 9                    | 15    | 15    | 15    | 15    | 15    | 15    | 15    | 15    |
| Traffic Engineering--Operations                    | P      | 12 Weeks              | Traffic Engineer                  | 3                    | 5     | 5     | 5     | 5     | 5     | 5     | 5     | 5     |
| Urban Transportation Planning                      | P      | 12 Weeks              |                                   |                      |       |       |       |       |       |       |       |       |
| <u>Tennessee Law Enforcement Training Academy</u>  |        |                       |                                   |                      |       |       |       |       |       |       |       |       |
| Law Enforcement Courses                            | P      | 40-120 Hours          | Police Traffic Services Patrolman | 1,440                | 1,920 | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 |
| Basic Police School                                |        | 120-231 hrs.          | Police Traffic Services Patrolman | 240                  | 500   | 550   | 600   | 650   | 700   | 750   | 750   | 750   |
| Accident Investigation                             | P      | 120 Hours             | Accident Site Investigator Aide   | 40                   | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    |
| Command School                                     |        | 120 Hours(E)          | Police Traffic Services Officer   | 80                   | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80    |
| Traffic Law Enforcement                            | A      | 120 Hours             | Police Traffic Services Patrolman | 40                   | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    |
| Police Supervisory School                          |        | 120 Hours             | (Sgt. **)                         | 120                  | 120   | 144   | 168   | 192   | 216   | 240   | 240   | 240   |

- \* Course leads to Red Cross certificates.
- \*\* Also is for lieutenants.

## TRAINING PROGRAMS

State: TEXAS

| Institution/Agency Name<br>Curriculum/Course Title               | Stems       | Length of<br>Training     | Job Title                         | Estimated Enrollment |       |       |       |       |       |       |       |       |
|--|-------------|---------------------------|-----------------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |             |                           |                                   | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  |
| Texas A & M University<br>Driver Education                       | P           | 13 Weeks                  | Driver Education Teacher          | 15                   | 17    | 18    | 18    | 18    | 18    | 18    | 18    | 18    |
| Southern Methodist University<br>Highway Engineering             | P           | 1 Semester                | Highway Engineer                  | 5                    | 6     | 6     | 6     | 6     | 6     | 6     | 6     | 6     |
| Highway Engineering and Administration                           | P           | 13 Weeks                  | Traffic Engineer                  | 8                    | 5     | 5     | 6     | 6     | 7     | 7     | 8     | 8     |
| Highway Design   | P           | 13 Weeks                  | Traffic Engineer                  | 6                    | 5     | 8     | 8     | 8     | 8     | 8     | 8     | 8     |
| Highway Safety and Traffic Control                               | P           | 13 Weeks                  | Traffic Engineer                  | 6                    | 5     | 8     | 8     | 8     | 8     | 8     | 8     | 8     |
| Texas Tech College<br>Methods and Techniques of Driver Education | P           | 6 Weeks                   | Driver Education Teacher          | 16                   | 17    | 18    | 18    | 18    | 18    | 18    | 18    | 18    |
| University of Houston<br>Methods of Teaching Driver Education    | P           | 14 Weeks                  | Driver Education Teacher          | 30                   | 33    | 35    | 36    | 37    | 38    | 39    | 40    | 40    |
| Basic Driver Education   | P           | 14 Weeks                  | Driver Education Teacher          | 35                   | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    |
| Advanced Driver Training, Technique,                             | P           | 14 Weeks                  | Driver Education Teacher          | 25                   | 28    | 30    | 31    | 32    | 33    | 34    | 35    | 35    |
| University of Texas<br>Highway Engineering Option                | 4 Years (E) |                           | Highway Engineer                  | 8                    | 10    | 12    | 14    | 15    | 17    | 18    | 20    | 20    |
| Highway Engineering  | P           | 14 Weeks                  | Highway Engineer                  | 25                   | 25    | 30    | 30    | 30    | 30    | 30    | 30    | 30    |
| Highway Engineering Design                                       | P           | 14 Weeks                  | Highway Engineer                  | 10                   | 10    | 13    | 14    | 16    | 17    | 19    | 20    | 20    |
| Masters Degree in Highway Engineering                            | P           | 1 Year (E)                | Traffic Engineer                  | 5                    | 6     | 7     | 8     | 8     | 9     | 9     | 10    | 10    |
| Department of Public Safety<br>Highway Patrol Training           | A           | 520 Hours<br>120-160 Hrs. | Police Traffic Services Patrolman | 50                   | 75    | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
| In-Service Highway Patrol Training                               |             |                           | Police Traffic Services Patrolman | 867                  | 2,118 | 2,145 | 2,175 | 2,205 | 2,235 | 2,265 | 2,279 | 2,279 |
| Motor Vehicle Inspection In-Service Training                     | A           | 120 Hours                 | Motor Vehicle Station Inspector   | 173                  | 424   | 429   | 435   | 441   | 447   | 453   | 456   | 456   |
| Driver License In-Service Training                               | A           | 120 Hours                 | Drivers License Examiner          | 173                  | 424   | 429   | 435   | 441   | 447   | 453   | 456   | 456   |
| Highway Patrol In-Service Training                               | A           | 160 Hours                 | Police Traffic Services Patrolman | 173                  | 424   | 429   | 435   | 441   | 447   | 453   | 456   | 456   |

Texas Tech is contemplating making this course a year-round one which would triple the enrollment by 1975.

## TRAINING PROGRAMS

State: UTAH

| Institution/Course Title                                 | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| University of Utah                                       |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Health Education   | P      | 4 Years (E)        | Driver Education Teacher          | 20                   | 20   | 22   | 23   | 23   | 24   | 24   | 25   | 25   |
| Driver Education, Introduction                           | P      | 11 Weeks           | Driver Education Teacher          | 20                   | 20   | 22   | 23   | 23   | 24   | 24   | 25   | 25   |
| Driver Education, Advanced                               | P      | 11 Weeks           | Driver Education Teacher          | 20                   | 20   | 22   | 23   | 23   | 24   | 24   | 25   | 25   |
| Special Problems in Driver Education                     | P      | Varies*            | Driver Education Teacher          | 40                   | 40   | 42   | 43   | 43   | 44   | 44   | 45   | 45   |
| Transportation Engineering                               | P      | 11 Weeks           | Highway Engineer                  | 35                   | 35   | 36   | 37   | 38   | 39   | 40   | 40   | 40   |
| Highway and Traffic Engineering                          | P      | 11 Weeks           | Highway Engineer                  | 20                   | 22   | 22   | 23   | 23   | 24   | 24   | 25   | 25   |
| Highway Traffic Characteristics                          | P      | 11 Weeks           | Traffic Engineer                  | 2                    | 2    | 2    | 3    | 3    | 3    | 4    | 4    | 4    |
| Highway Traffic Operations and Control                   | P      | 11 Weeks           | Traffic Engineer                  | 2                    | 2    | 2    | 3    | 3    | 4    | 4    | 4    | 4    |
| Highway Design   | P      | 11 Weeks           | Traffic Engineer                  | 2                    | 2    | 2    | 3    | 3    | 4    | 4    | 5    | 5    |
| Utah State University                                    |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Driver and Safety Education                              | P      | 4 Years (E)        | Driver Education Teacher          | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Driver Education and Traffic Safety                      | P      | 11 Weeks           | Driver Education Teacher          | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Teaching Driving and Safety Education                    | P      | 11 Weeks           | Driver Education Teacher          | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Problems in Driver and Safety Education                  | P      | 11 Weeks           | Driver Education Teacher          | 24                   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   |
| Driver Training Teacher Workshop                         | P      | 5 Weeks            | Driver Education Teacher          | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Safety and First Aid Instruction                         | P      | 11 Weeks           | Driver Education Teacher          | 30                   | 90   | 90   | 91   | 92   | 93   | 94   | 95   | 95   |
| Department of Public Safety                              |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Seminar for License Examiners                            | R      | 16 Hours           | Driver License Examiner           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| In-Service Training Workshop for Driver License Division | R      | 16 Hours           | Driver License Examiner           | 123                  | 123  | 123  | 123  | 123  | 123  | 123  | 123  | 123  |
| Highway Patrol   |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Basic Police Training Course                             | A      | 160 Hours          | Police Traffic Services Patrolman | 29                   | 29   | 29   | 29   | 29   | 29   | 29   | 29   | 29   |
| In-Service Training for Patrolmen                        | A      | 24 Hours           | Police Traffic Services Patrolman | 200                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |

\* Summer workshops (2 weeks) and seminars.

## TRAINING PROGRAMS

## State: VERMONT

| Institution/Agency Name<br>Curriculum/Course Title | Status                        | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|-------------------------------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |                               |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| University of Vermont                              | P                             | 1 Semester*        | Driver Education Teacher          | 30                   | 25   | 0    | 0    | C    | 0    | 0    | 0    | 0    |
| Driver Education, Advanced                         | P                             | 1 Semester*        | Driver Education Teacher          | 30                   | 25   | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Department of Motor Vehicles                       | R                             | 360 Hours          | Driver License Examiner           | 1                    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Recruit Examiner Training                          | R                             | 40 Hours           | Driver License Examiner           | 23                   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   |
| State Police                                       | P                             | 8 Hours            | Breath Examiner Specialist        | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Intoximeter Training                               | R                             | 400 Hours          | Police Traffic Services Patrolman | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Recruit Training                                   | R                             | 40 Hours           | Police Traffic Services Patrolman | 167                  | 182  | 189  | 214  | 240  | 266  | 292  | 318  | 318  |
| In-Service Training                                | R                             | 24 Hours           | Engineering Aide-Safety           | \$0                  | 50   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Highway Department                                 | In-Service Technical Training |                    |                                   |                      |      |      |      |      |      |      |      |      |
|  |                               |                    |                                   |                      |      |      |      |      |      |      |      |      |

\* Course is offered for 3 weeks in the summer only.

## TRAINING PROGRAMS

## State: VIRGINIA

| Institution/Agency Name<br>Curriculum/Course Title                | Status | Length of Training | Job Title                | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|--------|--------------------|--------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |        |                    |                          | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| <u>University of Virginia</u>                                     |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| Principles of Physical Education and Safety Education             | P      | 15-16 Weeks        | Driver Education Teacher | 75                   | 75   | 75   | 78   | 81   | 84   | 87   | 90   | 90   |
| Driver Education and Traffic Safety MS or DS in Civil Engineering | P      | 15-16 Weeks        | Driver Education Teacher | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Traffic Engineer  |        | 1 Year (E)         | Traffic Engineer         | 3                    | 0    | 3    | 0    | 3    | 0    | 3    | 0    | 3    |
| Transportation Engineering  | P      | 1 Semester         | Highway Engineer         | 35                   | 35   | 36   | 37   | 38   | 39   | 39   | 40   | 40   |
| Advanced Transportation   | P      | 1 Semester         | Highway Engineer         | 15                   | 18   | 20   | 21   | 22   | 23   | 24   | 25   | 25   |
| Rigid and Flexible Pavement Design                                | P      | 1 Semester         | Traffic Engineer         | 0                    | 3    | 0    | 3    | 0    | 3    | 0    | 3    | 0    |
| Paving Materials  | P      | 1 Semester         | Traffic Engineer         | 3                    | 0    | 3    | 0    | 3    | 0    | 3    | 0    | 3    |
| Location and Geometric Design of Highways                         | P      | 1 Semester         | Traffic Engineer         | 0                    | 3    | 0    | 3    | 0    | 4    | 0    | 5    | 0    |
| Traffic Engineering Operations                                    | P      | 1 Semester         | Traffic Engineer         | 1                    | 1    | 2    | 2    | 3    | 4    | 5    | 5    | 5    |
| Urban Transportation Planning                                     | P      | 1 Semester         | Traffic Engineer         | 0*                   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Virginia Highway Research Council</u>                          |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| Summer Undergraduate Training Program                             | P      | 3 Months           | Highway Engineer         | 3                    | 3    | 4    | 4    | 5    | 5    | 5    | 6    | 6    |
| Graduate Assistantship  | P      | 2-2 Years          | Traffic Engineer         | 5                    | 6    | 7    | 8    | 8    | 9    | 9    | 10   | 10   |
| <u>Department of Motor Vehicles</u>                               |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| Examiners Training School   |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| Related Subjects  | P      | 140 Hours          | Driver License Examiner  | 135                  | 140  | 200  | 202  | 204  | 206  | 208  | 210  | 210  |
| The Driver  | P      | 8 Hours            | Driver License Examiner  | 135                  | 140  | 200  | 202  | 204  | 206  | 208  | 210  | 210  |
| Examiners Manual  | P      | 8 Hours            | Driver License Examiner  | 135                  | 140  | 200  | 202  | 204  | 206  | 208  | 210  | 210  |
| Public Relations  | P      | 16 Hours           | Driver License Examiner  | 135                  | 140  | 200  | 202  | 204  | 206  | 208  | 210  | 210  |
| Supervising Examiners Meeting                                     | P      | 4 Hours            | Driver License Examiner  | 8                    | 10   | 12   | 13   | 13   | 14   | 14   | 15   | 15   |
| <u>Highway Department</u>   |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| Traffic Engineer Seminar  |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| In-Service Training   |        |                    |                          |                      |      |      |      |      |      |      |      |      |
| 64 Hours  |        |                    | Traffic Engineer         | 10                   | 10   | 10   | 10   | 11   | 11   | 11   | 12   | 12   |
| 120 hours   |        |                    | Engineering Aide-Traffic | 10                   | 10   | 10   | 10   | 11   | 11   | 11   | 12   | 12   |

Never offered on account of no demand.

## TRAINING PROGRAMS

State: VIRGINIA (continued)

| Institution/Agency Name<br>Curriculum/Course Title           | Status | Length of<br>Training | Job Title                            | 1968 | 1969 | 1970 | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
|--|--------|-----------------------|--------------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|-------|
| State Police   | R      | 24 Hours              | Police Traffic Services Officer      | 106  | 112  | 118  | 124   | 130   | 136   | 142   | 148   | 148   | 148   |
| Supervisory Training<br>Supervision of MV Inspection Program | R      | 1-2 Hours             | Motor Vehicle Station Inspector      | 95   | 100  | 110  | 115   | 120   | 125   | 130   | 135   | 135   | 135   |
| Recruit Training-Police Training                             | R      | 760 Hours             | Police Traffic Services<br>Patrolman | 85*  | 85   | 85   | 85    | 85    | 85    | 85    | 85    | 85    | 85    |
| In-Service Training  | R      | 40 Hours              | Police Traffic Services<br>Patrolman | 873  | 925  | 975  | 1,025 | 1,050 | 1,075 | 1,125 | 1,150 | 1,150 | 1,150 |
| Motor Vehicle Inspection Program                             | R      | 1-2 Hours             | Motor Vehicle Station Inspector      | 873  | 925  | 975  | 1,025 | 1,050 | 1,075 | 1,125 | 1,150 | 1,150 | 1,150 |
| Review of Accident Investigation,<br>Procedures and Reports  | R      | 1-2 Hours             | Accident Site Investigator Aide      | 873  | 925  | 975  | 1,025 | 1,050 | 1,075 | 1,125 | 1,150 | 1,150 | 1,150 |
| Motor Vehicle Code-In-Service School                         | R      | 4 Hours               | Police Traffic Services<br>Patrolman | 873  | 925  | 975  | 1,025 | 1,050 | 1,075 | 1,125 | 1,150 | 1,150 | 1,150 |
| Highway Safety   | R      | 1-2 Hours             | Police Traffic Services<br>Patrolman | 873  | 925  | 975  | 1,025 | 1,050 | 1,075 | 1,125 | 1,150 | 1,150 | 1,150 |

\* Average figure; annual enrollment is expected to be in a range of 80-90.

## TRAINING PROGRAMS

## WASHINGTON

| Institution/Agency Name<br>Curriculum/Course Title    | Status: | Length of Training | Job Title                    | Estimated Enrollment |      |      |      |      |      |      |      |      |
|---|---------|--------------------|------------------------------|----------------------|------|------|------|------|------|------|------|------|
|   |         |                    |                              | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| University of Washington                              |         |                    |                              |                      |      |      |      |      |      |      |      |      |
| Principles of Safety Education                        | P       | 11 Weeks           | Driver Education Teacher     | 122                  | 122  | 122  | 122  | 122  | 122  | 122  | 122  | 122  |
| Driver Education, Introductory                        | P       | 40 Hours           | Driver Education Teacher     | 60                   | 60   | 70   | 71   | 72   | 73   | 74   | 75   | 75   |
| Driver Education, Advanced                            | P       | 40 Hours           | Driver Education Teacher     | 60                   | 65   | 70   | 72   | 74   | 76   | 78   | 80   | 80   |
| Transportation Engineering I                          | P       | 11 Weeks           | Highway Engineer             | 75                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |
| Transportation Engineering II                         | P       | 11 Weeks           | Highway Engineer             | 17                   | 17   | 17   | 17   | 17   | 17   | 17   | 17   | 17   |
| Traffic Engineering--Fundamentals                     | P       | 11 Weeks           | Highway Engineer             | 24                   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   |
| Individual Research                                   | P       | 11 Weeks           | Highway Engineer*            | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Traffic Engineering--Analysis                         | P       | 11 Weeks           | Traffic Engineer             | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| Traffic Engineering--Administration                   | P       | 11 Weeks           | Traffic Engineer             | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Traffic Engineering--Planning                         | P       | 11 Weeks           | Traffic Engineer             | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |
| Traffic Engineering--Design                           | P       | 11 Weeks           | Traffic Engineer             | 7                    | 7    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |
| Transportation Safety Seminar                         | P       | 11 Weeks           | Traffic Engineer*            | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Department of Motor Vehicles                          |         |                    |                              |                      |      |      |      |      |      |      |      |      |
| Orientation for New Persons                           | R       | 100 Hours          | Driver Retraining Instructor | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| In-Service for Driver Improvement Analysts            | R       | 16 Hours           | Driver Retraining Instructor | 10                   | 10   | 12   | 13   | 13   | 14   | 14   | 15   | 15   |
| In-Service for Supervisors in Driver License Division | R       | 32 Hours           | Driver License Examiner      | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| In-Service for Driver License Examiner                | R       | 32 Hours           | Driver License Examiner      | 185                  | 185  | 190  | 195  | 200  | 205  | 210  | 215  | 215  |

\* Enrollment varies according to individual student demand.

## TRAINING PROGRAMS

State: WASHINGTON (continued)

| Institution/Agency Name<br>Curriculum/Course Title  | Status | Length of<br>Training | Job Title                                | Estimated Enrollment |      |      |      |      |      |      |      |
|---|--------|-----------------------|--|----------------------|------|------|------|------|------|------|------|
|   |        |                       |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| <u>State Patrol</u>   |        |                       |  |                      |      |      |      |      |      |      |      |
| Trooper Cadet School  | R      | 480 Hours             | Police Traffic Services Patrolman        | 90                   | 90   | 120  | 126  | 132  | 136  | 144  | 150  |
| In-Service for Troopers   | R      | 24 Hours              | Police Traffic Services Patrolman        | 300                  | 300  | 300  | 300  | 300  | 300  | 300  | 150  |
| Sergeants Basic Training  | A      | 40 Hours              | (Sgt.) Police Traffic Services Patrolman | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 300  |
| Sergeants In Service Training   | R      | 24 Hours              | (Sgt.) Police Traffic Services Patrolman | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>University of Washington--Summer Institute<br/>for Traffic Safety--In-Service Training</u> |        |                       |  |                      |      |      |      |      |      |      |      |
| Transportation Safety--Traffic Engineering<br>Fundamentals                                    | A      | 40 Hours              | Driver Education Teacher                 | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Transportation Safety--Traffic Engineering<br>Fundamentals                                    | A      | 40 Hours              | Driver Education Teacher                 | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Transportation Safety--Highway Design and<br>Traffic Control                                  | A      | 40 Hours              | Driver Education Teacher                 | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |

TRAINING PROGRAMS

**State: WEST VIRGINIA**

| Institution/Agency Name<br>Curriculum/Course Title                     | Status    | Length of Training         | Job Title  | Estimated Enrollment |            |            |            |            |            |            |            |            |
|--|-----------|----------------------------|--|----------------------|------------|------------|------------|------------|------------|------------|------------|------------|
|  |           |                            |  | 1968                 | 1969       | 1970       | 1971       | 1972       | 1973       | 1974       | 1975       | 1976       |
| University of West Virginia<br>Safety Education                        | P         | 4-5 Years(F)<br>1 Semester | Driver Education Teacher<br>Driver Education Teacher | 125<br>150           | 125<br>160 | 125<br>175 | 125<br>180 | 125<br>195 | 125<br>190 | 125<br>195 | 125<br>200 | 125<br>200 |
| Principles of Safety Education   | P         | 1 Semester                 | Driver Education Teacher                             | 25                   | 25         | 25         | 25         | 25         | 25         | 25         | 25         | 25         |
| Techniques and Procedures in Driver and Traffic Safety Education       | P         | 1 Semester                 | Driver Education Teacher                             | 35                   | 35         | 40         | 42         | 44         | 46         | 48         | 50         | 50         |
| Problems in Safety Education   | P         | 1 Semester                 | Driver Education Teacher                             | 40                   | 45         | 60         | 64         | 68         | 72         | 76         | 80         | 80         |
| Problems in Driver and Traffic Safety Education                        | P         | 1 Semester                 | Driver Education Supervisor                          | 40                   | 45         | 60         | 64         | 68         | 72         | 76         | 80         | 80         |
| Driver and Traffic Safety Education Programs                           | P         | 1 Semester                 | Driver Training Program Specialist                   | 40                   | 45         | 48         | 51         | 54         | 57         | 60         | 60         | 60         |
| Philosophy of Safety Education   | P         | 1 Semester                 | Driver Training Program Specialist                   | 35                   | 40         | 45         | 46         | 47         | 48         | 49         | 50         | 50         |
| Organization/Administration and Supervision of School Safety Education | P         | 1 Semester                 | Driver Training Program Specialist                   | 3                    | 3          | 3          | 4          | 4          | 4          | 5          | 5          | 5          |
| Individual Research Problems in Safety Education                       | P         | 1 Semester                 | Driver Training Program Specialist                   | 30                   | 30         | 40         | 43         | 46         | 49         | 52         | 55         | 55         |
| Measurement in Health Education, Physical Education, Safety Education  | P         | 1 Semester                 | Driver Training Program Specialist                   | 30                   | 30         | 40         | 43         | 46         | 49         | 52         | 55         | 55         |
| Problems in Health Education, Physical Education, and Safety Education | P         | 1 Semester                 | Driver Training Program Specialist                   | 30                   | 30         | 40         | 43         | 46         | 49         | 52         | 55         | 55         |
| Introduction to Research   | P         | 1 Semester                 | Driver Training Program Specialist                   | 30                   | 30         | 40         | 43         | 46         | 49         | 52         | 55         | 55         |
| Civil Engineering Degrees*   | 4-7 Years | Traffic Engineer           | 17   | 20                   | 25         | 26         | 28         | 29         | 30         | 33         | 35         | 35         |
| Highway Engineering  | P         | 1 Semester                 | Highway Engineer                                     | 30                   | 30         | 32         | 34         | 36         | 38         | 40         | 40         | 40         |
| Introduction to Traffic Engineering                                    | P         | 1 Semester                 | Highway Engineer                                     | 0                    | 5          | 12         | 13         | 13         | 14         | 14         | 15         | 15         |

\* This curriculum is primarily a Masters Program, but also grants B.S. and PhD degrees.

## TRAINING PROGRAMS

## State: WEST VIRGINIA (continued)

| Institution/Agency Name<br>Curriculum/Course Title       | Status | Length of Training | Job Title                                  | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|--|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| Civil Engineering Degrees (continued)                    |        |                    |  |                      |      |      |      |      |      |      |      |      |
| Highway Laws   | P      | 1 Semester         | Traffic Engineer                           | 5                    | 7    | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Geometric Design of Highways                             | P      | 1 Semester         | Traffic Engineer                           | 15                   | 17   | 20   | 21   | 22   | 23   | 24   | 25   | 25   |
| Traffic Engineering Operations                           | P      | 1 Semester         | Traffic Engineer                           | 12                   | 15   | 18   | 18   | 19   | 19   | 19   | 20   | 20   |
| Introduction to Traffic Flow Theory                      | P      | 1 Semester         | Traffic Engineer                           | 7                    | 10   | 14   | 15   | 16   | 18   | 19   | 20   | 20   |
| Traffic Engineering Characteristics                      | P      | 1 Semester         | Traffic Engineer                           | 15                   | 15   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| West Virginia State College                              |        |                    |  |                      |      |      |      |      |      |      |      |      |
| Safety Education   |        | 4 Years (E)        | Driver Education Teacher                   | 64                   | 80   | 120  | 110  | 120  | 130  | 140  | 150  | 150  |
| Driver Education and Traffic Safety Education for Safety | P      | 1 Semester         | Driver Education Teacher                   | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Methods in Teaching Driving                              | P      | 1 Semester         | Driver Education Teacher                   | 27                   | 35   | 40   | 48   | 56   | 64   | 72   | 80   | 80   |
| Problems in Driving-Traffic and Safety Education         | P      | 1 Semester         | Driver Education Teacher                   | 40                   | 55   | 70   | 82   | 94   | 136  | 118  | 130  | 130  |
| Organization and Administration of Safety Education      |        |                    |  |                      |      |      |      |      |      |      |      |      |
| Psychology of Safety                                     | P      | 1 Semester         | Driver Education Teacher                   | 8                    | 10   | 13   | 14   | 16   | 17   | 19   | 20   | 20   |
| Traffic Administration and Enforcement                   | P      | 1 Semester         | Driver Education Teacher                   | 0                    | 0    | 50   | 70   | 90   | 110  | 130  | 150  | 150  |
| Motor Fleet Supervisory Training                         | P      | 1 Semester         | Police Traffic Services Officer            | 0                    | 40   | 0    | 50   | 0    | 65   | 0    | 80   | 0    |
| Department of Public Safety                              |        |                    |  |                      |      |      |      |      |      |      |      |      |
| In-Service PMV   | R      | 24 Hours           | School Bus Program Specialist              | 0                    | 0    | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Supervision of MV Inspection Stations                    | P      | 24 Hours           | Motor Vehicle Station Inspector            | 15                   | 16   | 40   | 41   | 42   | 43   | 43   | 44   | 44   |
| Safety Education   | P      | 80 Hours           | Motor Vehicle Station Inspector            | 11                   | 11   | 36   | 36   | 36   | 36   | 36   | 36   | 36   |
| Driver License Examiner Training                         |        | 120 Hours          | Driver Education Teacher                   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Driver License Examiner Refresher Training               | R      | 40 Hours           | Driver License Examiner                    | 0                    | 24   | 40   | 50   | 60   | 63   | 67   | 70   | 80   |
| Instructor Training                                      |        | 160 Hours          | Police Traffic Services Program Specialist | 6                    | 6    | 24   | 31   | 38   | 46   | 53   | 60   | 60   |
| Basic Training Course                                    |        | 800 Hours          | Police Traffic Services Patrolman          | 35                   | 0    | 0    | 35   | 0    | 0    | 35   | 0    | 35   |
| In-Service Training                                      | R      | 40 Hours           | Police Traffic Services Patrolman          | 41                   | 50   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |

## TRAINING PROGRAMS

State: WEST VIRGINIA (continued)

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title               | Estimated Enrollment |       |       |       |       |       |       |       |
|--|--------|--------------------|-------------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
|  |        |                    |                         | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  |
| State Road Commission                              |        |                    | Engineering Aide-Safety | 0                    | 500   | 500   | 460   | 420   | 380   | 340   | 300   |
|  |        | 80-160 Hours       | Engineering Aide-Safety | 1,200                | 1,300 | 1,400 | 1,400 | 1,400 | 1,400 | 1,400 | 300   |
|  |        | 40-740 Hours       |                         |                      |       |       |       |       |       |       | 1,400 |
| Department of Mental Health                        | A      | 16 Hours           | Police Traffic Services | 100                  | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
| Conference on Orientation in Alcoholism            |        |                    | Patrolman               |                      |       |       |       |       |       |       |       |

TRAINING PROGRAMS

State: WISCONSIN

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                | Estimated Enrollment |      |      |      |       |       |       |       |       |
|--|--------|--------------------|--------------------------|----------------------|------|------|------|-------|-------|-------|-------|-------|
|  |        |                    |                          | 1968                 | 1969 | 1970 | 1971 | 1972  | 1973  | 1974  | 1975  | 1976  |
| Strout State University                            |        |                    |                          |                      |      |      |      |       |       |       |       |       |
| Safety Education                                   | P      | 4 Years (E)        | Driver Education Teacher | 625                  | 860  | 940  | 992  | 1,044 | 1,096 | 1,148 | 1,200 | 1,200 |
| General Safety                                     | P      | 1 Semester         | Driver Education Teacher | 162                  | 162  | 162  | 162  | 162   | 162   | 162   | 162   | 162   |
| Driver Education                                   | P      | 1 Semester         | Driver Education Teacher | 113                  | 113  | 113  | 113  | 113   | 113   | 113   | 113   | 113   |
| Administration of Driver Education                 | P      | 1 Semester         | Driver Education Teacher | 106                  | 106  | 106  | 106  | 106   | 106   | 106   | 106   | 106   |
| Traffic and Highway Safety                         | P      | 1 Semester         | Driver Education Teacher | 120                  | 120  | 120  | 120  | 120   | 120   | 120   | 120   | 120   |
| Driver Improvement Programs                        | P      | 1 Semester         | Driver Education Teacher | 0                    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     |
| University of Wisconsin                            |        |                    |                          |                      |      |      |      |       |       |       |       |       |
| Safety Education                                   | P*     | 4-5 Years (E)      | Driver Education Teacher | 175                  | 200  | 225  | 235  | 240   | 245   | 250   | 250   | 250   |
| City Planning                                      | P*     | 1 Semester         | Highway Engineer         | 55                   | 60   | 65   | 65   | 65    | 65    | 65    | 65    | 65    |
| Advanced City Planning                             | P*     | 1 Semester         | Highway Engineer         | 22                   | 24   | 25   | 25   | 25    | 25    | 25    | 25    | 25    |
| City Planning Design                               | P*     | 1 Semester         | Highway Engineer         | 0                    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     |
| Municipal Engineering Practice                     | P*     | 1 Semester         | Highway Engineer         | 0                    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     |
| Surveying I and II                                 | P*     | 2 Semester         | Highway Engineer         | 0                    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     |
| Traffic Control                                    | P*     | 1 Semester         | Highway Engineer         | 30                   | 35   | 40   | 40   | 40    | 40    | 40    | 40    | 40    |
| Traffic Engineering                                | P*     | 1 Semester         | Highway Engineer         | 0                    | 0    | 15   | 15   | 15    | 15    | 15    | 15    | 15    |
| Urban Transportation Engineering                   | P*     | 1 Semester         | Highway Engineer         | 3                    | 21   | 25   | 25   | 25    | 25    | 25    | 25    | 25    |
| Geometric Highway Design                           | P*     | 1 Semester         | Highway Engineer         | 10                   | 10   | 10   | 10   | 10    | 10    | 10    | 10    | 10    |
| Highway Engineering                                | P*     | 1 Semester         | Highway Engineer         | 0                    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     |
| Advanced Highway Design                            | P*     | 1 Semester         | Highway Engineer         | 0                    | 0    | 0    | 0    | 0     | 0     | 0     | 0     | 0     |
| Motor Vehicle Division-Bureau of Highway           |        |                    |                          |                      |      |      |      |       |       |       |       |       |
| Safety Promotion                                   | R      | 8 Hours            | Traffic Court Judge      | 300                  | 300  | 300  | 300  | 300   | 300   | 300   | 300   | 300   |
| Regional Traffic Court Conferences                 |        |                    |                          |                      |      |      |      |       |       |       |       |       |

- \*Strout plans to offer additional courses in the future in Traffic Safety Management, School Bus Administration and Supervision, General Safety Education, plus a structured curriculum program that will prepare people for a variety of occupational endeavors in accident prevention and traffic safety. These courses will be offered as the need develops.
- \*\*These courses appear to be part of a civil engineering curriculum.

## TRAINING PROGRAMS

## State: WISCONSIN (continued)

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of<br>Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |
|--|--------|-----------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|
|  |        |                       |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 |
| Bureau of Enforcement                              |        |                       |                                   |                      |      |      |      |      |      |      |      |
| Breathalyzer Operator Course                       | P      | 16 Hours              | Breath Examiner Specialist        | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Breathalyzer Operator Refresher                    | R      | 4 Hours               | Breath Examiner Specialist        | 600                  | 600  | 600  | 600  | 600  | 600  | 600  | 600  |
| Basic Training/Patrol                              |        |                       | Police Traffic Services Patrolman | 70                   | 70   | 35   | 35   | 35   | 35   | 35   | 35   |
| Basic Training Refresher/Patrol                    | R      | 40 Hours              | Police Traffic Services Patrolman | 300                  | 300  | 328  | 328  | 328  | 328  | 328  | 328  |
| Wisconsin Motor Vehicle Department                 |        |                       |                                   |                      |      |      |      |      |      |      |      |
| Driver License Examiner                            |        |                       | Driver License Examiner           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| In-Service Training for Examiners                  | R      | 40 Hours              | Driver License Examiner           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## TRAINING PROGRAMS

State: WYOMING

| Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Job Title                         | Estimated Enrollment |      |      |      |      |      |      |      |      |
|--|--------|--------------------|-----------------------------------|----------------------|------|------|------|------|------|------|------|------|
|  |        |                    |                                   | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 |
| University of Wyoming                              |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Safety Education                                   | P      | 1 Semester         | Driver Education Teacher          | 110                  | 130  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |
| Driver Education                                   | P      | 1 Semester         | Driver Education Teacher          | 100                  | 150  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |
| Geometric Design of Highways                       | P      | 1 Semester         | Highway Engineer                  | 0                    | 0    | 6    | 0    | 0    | 0    | 0    | 0    | 0    |
| Traffic Engineering Operations                     | P      | 1 Semester         | Highway Engineer                  | 15                   | 15   | 16   | 16   | 16   | 16   | 16   | 16   | 16   |
| Traffic Engineering: Urban Planning                | P      | 1 Semester         | Highway Engineer                  | 10                   | 10   | 11   | 11   | 11   | 11   | 11   | 11   | 11   |
| Department of Revenue--Motor Vehicle               |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Department   |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Driver License Examiner                            | A      | 80 Hours           | Driver License Examiner           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Highway Department                                 |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Engineering Technician Development Program         |        |                    |                                   |                      |      |      |      |      |      |      |      |      |
| Night School for Employees of the Traffic Division | R      | 48 Hours           | Engineering Aide--Safety          | 20                   | 20   | 40   | 45   | 50   | 55   | 60   | 70   | 80   |
| Basic Training Course                              | R      | 18.4 Hours         | Engineering Aide--Traffic         | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Birannahai Training                                | R      | 40 Hours           | Police Traffic Services Patrolman | 8                    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
|  |        |                    | Police Traffic Services Patrolman | 0                    | 104  | 0    | 109  | 0    | 117  | 0    | 120  | 0    |

## **APPENDIX B**

## State: ALABAMA

| Traffic Control Device: | Estimated Enrollment |      |      |      |      |      |      |
|-------------------------|----------------------|------|------|------|------|------|------|
|                         | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 |
| Traffic Engineer        | 2                    | 2    | 2    | 3    | 5    | 7    | 8    |
| Complete                | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                 | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher               | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: ARIZONA

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   |  | 100                  | 100  | 125  | 130  | 135  | 140  | 145  | 150  | 150  |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Driver Licensing</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 76                   | 80   | 85   | 90   | 90   | 95   | 100  | 100  | 100  |      |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   |  | 33                   | 35   | 35   | 36   | 37   | 38   | 39   | 40   | 40   |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Traffic Control Devices</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   |  | 12                   | 14   | 14   | 16   | 16   | 18   | 18   | 20   | 20   |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  | 72                   | 73   | 75   | 80   | 90   | 100  | 115  | 125  | 135  |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  |  | 250                  | 250  | 290  | 310  | 310  | 330  | 330  | 350  | 350  |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u><b>Motor Vehicle Inspection</b></u> |  |                      |      |      |      |      |      |      |      |      |      |
| Motor Vehicle Station Inspector        |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                               |  | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |      |
| Partial                                |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u><b>Police Traffic Services</b></u>  |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman      |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                               |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                |  | 90                   | 90   | 90   | 90   | 90   | 90   | 90   | 90   | 90   |      |
| Refresher                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: CALIFORNIA

|   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|--|----------------------|------|------|------|------|------|------|------|------|------|
|   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 260                  | 360  | 360  | 360  | 360  | 360  | 360  | 360  | 360  |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Retraining Instructor                  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  | 150                  | 150  | 150  | 150  | 150  | 150  | 150  | 150  | 150  |      |
| Driver Licensing                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                       |  | 5                    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Highway Design, Construction, and Maintenance |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 80                   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Control Devices                       |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                              |  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |      |
| Complete                                      |  | 19                   | 19   | 19   | 19   | 19   | 19   | 19   | 19   | 19   |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |

|   |       | Estimated Enrollment |       |       |       |       |       |       |       |       |      |
|---|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|   |       | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977 |
| <u>Police Traffic Services</u>                    |       |                      |       |       |       |       |       |       |       |       |      |
| <u>Police Traffic Services Program Specialist</u> |       |                      |       |       |       |       |       |       |       |       |      |
| Complete  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial   | 20    | 20                   | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    |      |
| Refresher   | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Police Traffic Services Officer</u>            |       |                      |       |       |       |       |       |       |       |       |      |
| Complete  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial   | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher   | 175   | 175                  | 175   | 175   | 175   | 175   | 175   | 175   | 175   | 175   |      |
| <u>Police Traffic Services Patrolman</u>          |       |                      |       |       |       |       |       |       |       |       |      |
| Complete  | 500   | 500                  | 500   | 500   | 500   | 500   | 500   | 500   | 500   | 500   |      |
| Partial   | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher   | 2,000 | 1,000                | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 |      |

## State: COLORADO

|  |           | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|-----------|----------------------|------|------|------|------|------|------|------|------|------|
|  |           | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                  |           |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                 |           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                 | Partial   | 170                  | 170  | 170  | 170  | 170  | 170  | 170  | 170  | 170  |      |
|  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  |           |                      |      |      |      |      |      |      |      |      |      |
| <u>Driver Licensing</u>                  |           |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                  |           | 93                   | 110  | 115  | 118  | 121  | 124  | 127  | 129  | 129  |      |
| Complete                                 | Partial   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  |           |                      |      |      |      |      |      |      |      |      |      |
| <u>Police Traffic Services</u>           |           |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Officer          |           | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                 | Partial   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | Refresher | 23                   | 23   | 23   | 24   | 24   | 24   | 25   | 25   | 25   |      |
|  |           |                      |      |      |      |      |      |      |      |      |      |
| <u>Police Traffic Services Patrolman</u> |           |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman        |           | 30                   | 130  | 30   | 34   | 38   | 42   | 46   | 50   | 50   |      |
| Complete                                 | Partial   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | Refresher | 349                  | 349  | 430  | 454  | 478  | 502  | 526  | 550  | 550  |      |
|  |           |                      |      |      |      |      |      |      |      |      |      |
| <u>Accident Clean-up</u>                 |           |                      |      |      |      |      |      |      |      |      |      |
| State Worker Operator                    |           |                      |      |      |      |      |      |      |      |      |      |
| Complete                                 | Partial   | 0                    | 360  | 40   | 40   | 40   | 40   | 40   | 40   | 40   |      |
|  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  |           |                      |      |      |      |      |      |      |      |      |      |

## State: CONNECTICUT

|                                    |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|------------------------------------|--|----------------------|------|------|------|------|------|------|------|------|------|
|                                    |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>            |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Training Program Specialist |  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Complete                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                            |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Driver Education Teacher           |  |                      |      |      |      |      |      |      |      |      |      |
| Compete                            |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                            |  | 75                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |
| Refresher                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>     |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman  |  | 50                   | 50   | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Complete                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                            |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

State: DELAWARE

|   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|--|----------------------|------|------|------|------|------|------|------|------|------|
|   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                             |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                            |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete  |  | 10                   | 19   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |
| Partial   |  | 71                   | 74   | 73   | 80   | 84   | 88   | 92   | 96   | 96   | 96   |
| Refresher   |  |                      |      |      |      |      |      |      |      |      |      |
| <u>Highway Design, Construction and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                    |  |                      |      |      |      |      |      |      |      |      |      |
| Complete  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial   |  | 12                   | 13   | 14   | 14   | 14   | 14   | 14   | 15   | 15   | 15   |
| Refresher   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Traffic Control Devices</u>                      |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                    |  |                      |      |      |      |      |      |      |      |      |      |
| Complete  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial   |  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |
| Refresher   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>                      |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services: Patrolman                  |  |                      |      |      |      |      |      |      |      |      |      |
| Complete  |  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Partial   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher   |  | 260                  | 275  | 290  | 320  | 335  | 350  | 365  | 365  | 365  | 365  |

|                                 |  | Estimated Enrollment |       |       |       |       |       |       |       |       |      |
|---------------------------------|--|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|                                 |  | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977 |
| <u>Driver Education</u>         |  |                      |       |       |       |       |       |       |       |       |      |
| Driver Education Teacher        |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Complete                        |  | 0                    | 50    | 20    | 50    | 20    | 50    | 20    | 50    | 0     |      |
| Partial                         |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 50    |      |
| Refresher                       |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Police Traffic Services</u>  |  |                      |       |       |       |       |       |       |       |       |      |
| Police Traffic Services Officer |  |                      |       |       |       |       |       |       |       |       |      |
| Complete                        |  | 3,800                | 4,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 | 5,000 |      |
| Partial                         |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                       |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |

## State: FLORIDA

|                                   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|-----------------------------------|--|----------------------|------|------|------|------|------|------|------|------|------|
|                                   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>           |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                          |  | 155                  | 175  | 230  | 242  | 256  | 269  | 283  | 300  | 305  | 305  |
| Partial                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Driver Licensing</u>           |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                          |  | 35                   | 60   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |
| Partial                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>    |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman |  | 120                  | 130  | 145  | 146  | 148  | 149  | 150  | 155  | 160  | 160  |
| Complete                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: GEORGIA

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Supervisor                          |  | 50                   | 60   | 70   | 72   | 74   | 76   | 78   | 80   | 80   | 80   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |  | 40                   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Traffic Control Devices</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     |  | 20                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: HAWAII

|                          |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--------------------------|--|----------------------|------|------|------|------|------|------|------|------|------|
|                          |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>  |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                 |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                  |  | 45                   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Refresher                |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Accident Clean-up</u> |  |                      |      |      |      |      |      |      |      |      |      |
| State Worker Operator    |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                 |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                  |  | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Refresher                |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

|  |       | Estimated Enrollment |       |       |       |       |       |       |       |       |      |
|--|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |       | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977 |
| <u>Periodic Motor Vehicle Inspection</u>             |       |                      |       |       |       |       |       |       |       |       |      |
| Motor Vehicle Station Inspector                      |       |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 25    | 35                   | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    |      |
| Partial  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Driver Education</u>                              |       |                      |       |       |       |       |       |       |       |       |      |
| Driver Training Program Specialist                   |       |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial  | 30    | 35                   | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    |      |
| Refresher  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Driver Education Teacher                             |       |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 1,115 | 1,245                | 1,340 | 1,370 | 1,400 | 1,430 | 1,460 | 1,490 | 1,490 | 1,490 |      |
| Partial  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Identification and Surveillance</u>               |       |                      |       |       |       |       |       |       |       |       |      |
| Accident Site Investigator                           |       |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial  | 80    | 80                   | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80    |      |
| Refresher  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Highway Design, Construction, and Maintenance</u> |       |                      |       |       |       |       |       |       |       |       |      |
| Highway Engineer                                     |       |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial  | 325   | 328                  | 330   | 332   | 334   | 335   | 338   | 340   | 340   | 340   |      |
| Refresher  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Engineering Aide-Safety                              |       |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial  | 165   | 200                  | 200   | 200   | 200   | 200   | 200   | 200   | 200   | 200   |      |
| Refresher  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |

State: ILLINOIS (continued)

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Traffic Control Devices</u>             |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                           |  | 7                    | 15   | 25   | 27   | 29   | 31   | 33   | 35   | 35   | 35   |
| Complete                                   |  | 153                  | 188  | 188  | 188  | 188  | 188  | 188  | 188  | 188  | 188  |
| Partial                                    |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>             |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Program Specialist |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                                   |  | 400                  | 400  | 400  | 400  | 400  | 400  | 400  | 400  | 400  | 400  |
| Partial                                    |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Police Traffic Services Patrolman          |  | 125                  | 125  | 125  | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Complete                                   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                    |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: INDIANA

|   |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|-----|----------------------|------|------|------|------|------|------|------|------|------|
|   |     | 1958                 | 1960 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                       |     |                      |      |      |      |      |      |      |      |      |      |
| Driver Training Program Specialist            |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 90  | 100                  | 110  | 112  | 114  | 116  | 118  | 120  | 120  | 120  |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Driver Education Teacher                      |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 387 | 405                  | 540  | 550  | 560  | 570  | 580  | 590  | 590  | 590  |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Alcohol                                       |     |                      |      |      |      |      |      |      |      |      |      |
| Alcohol Technical Specialist                  |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 30  | 30                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Breath Examiner Specialist                    |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 180 | 210                  | 240  | 240  | 240  | 240  | 240  | 240  | 240  | 240  |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Highway Design, Construction, and Maintenance |     |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                              |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 45  | 50                   | 50   | 52   | 54   | 56   | 58   | 60   | 60   | 60   |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Traffic Control Devices                       |     |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                              |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 15  | 17                   | 19   | 20   | 21   | 23   | 24   | 25   | 25   | 25   |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 25  | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |      |

## State: INDIANA (continued)

|                                | Estimated Enrollment |      |      |      |      |      |      |
|--------------------------------|----------------------|------|------|------|------|------|------|
|                                | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 |
| <u>Police Traffic Services</u> |                      |      |      |      |      |      |      |
| Complete                       | 25                   | 50   | 50   | 60   | 70   | 80   | 90   |
| Partial                        | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                      | 0                    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: IOWA

|  |    | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|----|----------------------|------|------|------|------|------|------|------|------|------|
|  |    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |    |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |    | 755                  | 805  | 815  | 828  | 841  | 854  | 867  | 880  | 880  | 880  |
| Complete   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Driver Licensing</u>                              |    |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                              |    | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   | 10 | 45                   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Partial  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  | 6  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Highway Design, Construction, and Maintenance</u> |    |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |    | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   | 65 | 75                   | 80   | 84   | 88   | 92   | 96   | 102  | 100  | 100  | 100  |
| Partial  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Traffic Control Devices</u>                       |    |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     |    | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   | 4  | 4                    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    | 4    |
| Partial  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>                       |    |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |    | 10                   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   | 45   |
| Complete   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: KANSAS

|   |    | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|----|----------------------|------|------|------|------|------|------|------|------|------|
|   |    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Highway Design, Construction and Maintenance</u> |    |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                    | 12 | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |      |
| Complete  | 50 | 50                   | 50   | 55   | 55   | 60   | 60   | 65   | 65   | 65   |      |
| Partial   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Traffic Control Devices</u>                      |    |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                    | 3  | 3                    | 3    | 3    | 3    | 3    | 3    | 3    | 3    | 3    |      |
| Complete  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                      |    |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                   | 30 | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |      |
| Complete  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial   | 0  | 277                  | 0    | 277  | 0    | 277  | 0    | 277  | 0    | 277  |      |
| Refresher   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: KENTUCKY

|  |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|------|------|------|------|
|  |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |     |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Supervisor                          |     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   | 30  | 60                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Driver Education Teacher                             |     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   | 85  | 230                  | 180  | 186  | 192  | 198  | 204  | 210  | 210  | 210  |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Driver Licensing</u>                              |     |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                              |     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 67  | 69                   | 70   | 72   | 74   | 76   | 78   | 80   | 80   | 80   |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Highway Design, Construction, and Maintenance</u> |     |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |     | 45                   | 45   | 46   | 47   | 48   | 49   | 50   | 50   | 50   |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Traffic Control Devices</u>                       |     |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     |     | 5                    | 5    | 18   | 20   | 20   | 22   | 22   | 24   | 24   |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                       |     |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Officer                      |     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   | 150 | 200                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

|                                   | 1968 | 1969 | 1970 | 1971 | Estimated Enrollment |      |      |      |      |      |
|-----------------------------------|------|------|------|------|----------------------|------|------|------|------|------|
|                                   |      |      |      |      | 1972                 | 1973 | 1974 | 1975 | 1976 | 1977 |
| Police Traffic Services Patrolman | 0    | 0    | 0    | 0    | 0                    | 0    | 0    | 0    | 0    | 0    |
| Complete                          | 275  | 275  | 275  | 275  | 275                  | 275  | 275  | 275  | 275  | 275  |
| Partial                           | 0    | 0    | 0    | 0    | 0                    | 0    | 0    | 0    | 0    | 0    |
| Refresher                         |      |      |      |      |                      |      |      |      |      |      |

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Program Specialist                  |  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 45                   | 46   | 46   | 47   | 48   | 49   | 49   | 50   | 50   | 50   |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 34                   | 35   | 35   | 36   | 36   | 36   | 37   | 37   | 37   | 37   |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: MARYLAND

|  |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|------|------|------|------|
|  |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Periodic Motor Vehicle Inspection</u> |     |                      |      |      |      |      |      |      |      |      |      |
| <u>Motor Vehicle Station Inspector</u>   |     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                                 | 45  | 47                   | 49   | 51   | 53   | 55   | 57   | 59   | 59   | 59   | 59   |
| Partial                                  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Driver Education</u>                  |     |                      |      |      |      |      |      |      |      |      |      |
| <u>Driver Education Supervisor</u>       |     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 5    | 0    | 0    |
| Complete                                 | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                | 15  | 15                   | 15   | 16   | 17   | 18   | 19   | 20   | 20   | 20   | 20   |
| <u>Driver Education Teacher</u>          |     | 150                  | 170  | 200  | 210  | 220  | 230  | 240  | 250  | 250  | 250  |
| Complete                                 | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Driver Licensing</u>                  |     |                      |      |      |      |      |      |      |      |      |      |
| <u>Driver License Examiner</u>           |     | 45                   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Complete                                 | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Traffic Courts</u>                    |     |                      |      |      |      |      |      |      |      |      |      |
| <u>Traffic Court Judge</u>               |     | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                                 | 76  | 76                   | 76   | 76   | 76   | 76   | 76   | 76   | 76   | 76   | 76   |
| Partial                                  | 100 | 100                  | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   |
| Refresher                                | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Alcohol</u>                           |     |                      |      |      |      |      |      |      |      |      |      |
| <u>Breath Examiner Specialist</u>        |     | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Complete                                 | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

|  |           |      |      |       |       |       |       |       |       |       |       |       |       | Estimated Enrollment |
|--|-----------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------------|
|  |           | 1968 | 1969 | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |       |       |                      |
| <u>Highway Design, Construction, and Maintenance</u> |           |      |      |       |       |       |       |       |       |       |       |       |       |                      |
| Engineering Aid-Safety                               | Complete  | 50   | 50   | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50                   |
|  | Partial   | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |
|  | Refresher | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |
| <u>Traffic Control Devices</u>                       |           |      |      |       |       |       |       |       |       |       |       |       |       |                      |
| Traffic Engineer                                     | Complete  | 4    | 7    | 9     | 11    | 11    | 12    | 14    | 15    | 15    | 15    | 15    | 15    | 15                   |
|  | Partial   | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |
|  | Refresher | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |
| <u>Police Traffic Services</u>                       |           |      |      |       |       |       |       |       |       |       |       |       |       |                      |
| Police Traffic Services Patrolman                    | Complete  | 85   | 85   | 85    | 85    | 85    | 85    | 85    | 85    | 85    | 85    | 85    | 85    | 85                   |
|  | Partial   | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |
|  | Refresher | 110  | 300  | 110   | 200   | 400   | 600   | 800   | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000                |
| <u>Accident Clean-Up</u>                             |           |      |      |       |       |       |       |       |       |       |       |       |       |                      |
| State Wrecker Operator                               | Complete  | 40   | 350  | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000 | 2,000                |
|  | Partial   | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |
|  | Refresher | 0    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0                    |

**MASSACHUSETTS**

|  |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|------|------|------|------|
|  |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Highway Design, Construction, and Maintenance</u> |     |                      |      |      |      |      |      |      |      |      |      |
| <u>Highway Engineer</u>                              |     |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  | 87  | 89                   | 91   | 94   | 97   | 101  | 105  | 110  | 110  | 110  | 110  |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>                       |     |                      |      |      |      |      |      |      |      |      |      |
| <u>Police Traffic Services Officer</u>               |     |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 500 | 700                  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  | 700  |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: MICHIGAN

|   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|--|----------------------|------|------|------|------|------|------|------|------|------|
|   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Planning and Administration</u>            |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Safety Program Analyst                |  | 35                   | 45   | 60   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| <u>Driver Education</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Training Program Specialist            |  | 110                  | 110  | 110  | 110  | 110  | 110  | 110  | 110  | 110  | 110  |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Supervisor                   |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                       |  | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Driver Education Teacher                      |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      |  | 85                   | 100  | 110  | 118  | 126  | 134  | 142  | 150  | 150  | 150  |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Driver Retraining Instructor                  |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                       |  | 60                   | 60   | 63   | 60   | 60   | 60   | 60   | 60   | 60   | 60   |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Driver Licensing</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                       |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      |  | 222                  | 222  | 222  | 222  | 222  | 222  | 222  | 222  | 222  | 222  |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Highway Design, Construction, and Maintenance |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer:                             |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      |  | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

State: MICHIGAN (continued)

|                                | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--------------------------------|----------------------|------|------|------|------|------|------|------|------|------|
|                                | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Traffic Control Devices</u> |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer               | 36                   | 50   | 50   | 52   | 54   | 56   | 58   | 60   | 60   | 60   |
| Complete                       | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                        | 80                   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 80   |
| Refresher                      |                      |      |      |      |      |      |      |      |      |      |

## State: MINNESOTA

|                                   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|-----------------------------------|--|----------------------|------|------|------|------|------|------|------|------|------|
|                                   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>           |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                          |  | 70                   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   | 70   |
| Partial                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police/Traffic Services</u>    |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman |  | 538                  | 550  | 550  | 550  | 550  | 550  | 550  | 550  | 550  | 550  |
| Complete                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: MISSOURI

|                                   |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|-----------------------------------|-----|----------------------|------|------|------|------|------|------|------|------|------|
|                                   |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>           |     |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Supervisor       |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 40  | 40                   | 100  | 110  | 120  | 130  | 140  | 150  | 150  | 150  |      |
| Partial                           | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                         | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | ?    |      |
| Driver Education Teacher          |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 200 | 180                  | 200  | 220  | 240  | 260  | 280  | 300  | 300  | 300  |      |
| Partial                           | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                         | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Alcohol                           |     |                      |      |      |      |      |      |      |      |      |      |
| Breath Examiner Specialist        |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 40  | 120                  | 120  | 120  | 120  | 120  | 120  | 120  | 120  | 120  |      |
| Partial                           | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                         | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Traffic Control Devices           |     |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                  |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 5   | 8                    | 10   | 11   | 12   | 13   | 14   | 15   | 15   | 15   |      |
| Partial                           | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                         | 200 | 200                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |      |
| Police Traffic Service            |     |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Officer   |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 300 | 350                  | 400  | 420  | 440  | 460  | 480  | 500  | 500  | 500  |      |
| Partial                           | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                         | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Police Traffic Services Patrolman |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 120 | 120                  | 120  | 120  | 120  | 120  | 120  | 120  | 120  | 120  |      |
| Partial                           | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                         | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: MONTANA

|                  |           | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|------------------|-----------|----------------------|------|------|------|------|------|------|------|------|------|
|                  |           | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| Driver Education | Teacher   | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
|                  | Complete  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                  | Partial   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: NEBRASKA

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  |  | 110                  | 110  | 110  | 112  | 114  | 116  | 118  | 120  | 120  |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Driver Licensing</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                              |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  |  | 40                   | 45   | 45   | 46   | 47   | 48   | 49   | 50   | 50   |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 40                   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

State: NEVADA

|   |    | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|----|----------------------|------|------|------|------|------|------|------|------|------|
|   |    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                       |    |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                      |    |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 35 | 38                   | 40   | 41   | 42   | 43   | 44   | 45   | 45   | 45   |      |
| Refresher                                     | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Highway Design, Construction, and Maintenance |    |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                              |    |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 25 | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |      |
| Refresher                                     | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: NEW HAMPSHIRE

|                                   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|-----------------------------------|--|----------------------|------|------|------|------|------|------|------|------|------|
|                                   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>           |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                          |  | 40                   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Partial                           |  |                      |      |      |      |      |      |      |      |      |      |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>    |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Officer   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                           |  | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Refresher                         |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman |  | 20                   | 25   | 30   | 33   | 36   | 39   | 42   | 45   | 45   | 45   |
| Complete                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                           |  | 150                  | 177  | 204  | 231  | 258  | 285  | 322  | 383  | 415  | 415  |
| Refresher                         |  |                      |      |      |      |      |      |      |      |      |      |

## State: NEW JERSEY

|                                   |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|-----------------------------------|-----|----------------------|------|------|------|------|------|------|------|------|------|
|                                   |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>           |     |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher:         |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                           | 50  | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Refresher                         | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>    |     |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                          | 100 | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Partial                           | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                         | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: NEW MEXICO

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | .974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   |  | 40                   | 40   | 45   | 46   | 47   | 48   | 49   | 50   | 50   |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   |  | 27                   | 30   | 30   | 31   | 32   | 33   | 34   | 35   | 35   |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  | 50                   | 50   | 60   | 64   | 68   | 72   | 76   | 80   | 80   |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

|  |    | Estimated Enrollment |       |       |       |       |       |       |       |       |       |
|--|----|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |    | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
| <u>Periodic Motor Vehicle Inspection</u> |    |                      |       |       |       |       |       |       |       |       |       |
| Motor Vehicle Station Inspector          |    | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Complete                                 | 25 | 25                   | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    | 25    |
| Partial                                  | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher                                | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <u>Driver Education</u>                  |    |                      |       |       |       |       |       |       |       |       |       |
| Driver Education Program Specialist      |    | 30                   | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    |
| Complete                                 | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial                                  | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher                                | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Driver Education Supervisor              |    | 450                  | 550   | 650   | 710   | 770   | 830   | 890   | 950   | 950   | 950   |
| Complete                                 | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial                                  | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher                                | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <u>Police Traffic Services</u>           |    |                      |       |       |       |       |       |       |       |       |       |
| Police Traffic Services Patrolman        |    | 1,300                | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 | 1,300 |
| Complete                                 | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial                                  | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher                                | 0  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |

## State: NORTH CAROLINA

|   |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|-----|----------------------|------|------|------|------|------|------|------|------|------|
|   |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Periodic Motor Vehicle Inspection</u>      |     |                      |      |      |      |      |      |      |      |      |      |
| Motor Vehicle Station Inspector               |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 0   | 85                   | 0    | 90   | 0    | 95   | 0    | 99   | 0    | 99   |      |
| Driver Education                              |     |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                      |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 50  | 55                   | 60   | 63   | 66   | 69   | 72   | 75   | 75   | 75   |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Driver Licensing                              |     |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                       |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 208 | 242                  | 250  | 257  | 263  | 269  | 275  | 282  | 282  | 282  |      |
| Driver License Hearing Officer                |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 18  | 19                   | 20   | 21   | 22   | 23   | 24   | 26   | 26   | 26   |      |
| Alcohol                                       |     |                      |      |      |      |      |      |      |      |      |      |
| Breath Examiner Specialist                    |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 2.5 | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Emergency Medical Services                    |     |                      |      |      |      |      |      |      |      |      |      |
| Emergency Medical Services Program Specialist |     |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 5   | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |      |
| Partial                                       | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: NORTH CAROLINA (continued)

|  |     | Estimated Enrollment |       |       |       |       |       |       |       |       |      |
|--|-----|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |     | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977 |
| <u>Highway Design, Construction, and Maintenance</u> |     |                      |       |       |       |       |       |       |       |       |      |
| <u>Highway Engineer</u>                              |     |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 30  | 30                   | 30    | 30    | 30    | 30    | 30    | 30    | 30    | 30    |      |
| Partial  | 60  | 60                   | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    |      |
| Refresher  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Engineering Aide-Safety</u>                       |     |                      |       |       |       |       |       |       |       |       |      |
| Complete   | 38  | 55                   | 75    | 80    | 85    | 90    | 95    | 100   | 100   | 100   |      |
| Partial  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Traffic Control Devices</u>                       |     |                      |       |       |       |       |       |       |       |       |      |
| <u>Traffic Engineer</u>                              | 13  | 13                   | 13    | 13    | 13    | 13    | 13    | 13    | 13    | 13    |      |
| Complete   | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Police-Traffic Services</u>                       |     |                      |       |       |       |       |       |       |       |       |      |
| <u>Police Traffic Services Patrolman</u>             | 60  | 60                   | 60    | 60    | 60    | 60    | 60    | 60    | 60    | 60    |      |
| Complete   | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial  | 900 | 1,010                | 1,120 | 1,230 | 1,340 | 1,450 | 1,560 | 1,670 | 1,780 | 1,890 |      |
| Refresher  |     |                      |       |       |       |       |       |       |       |       |      |
| <u>School Bus Safety</u>                             |     |                      |       |       |       |       |       |       |       |       |      |
| <u>School Bus Program Specialist</u>                 | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Complete   | 60  | 61                   | 63    | 64    | 65    | 67    | 68    | 69    | 69    | 69    |      |
| Partial  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher  |     |                      |       |       |       |       |       |       |       |       |      |

## State: NORTH DAKOTA

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   |  | 64                   | 64   | 64   | 64   | 64   | 64   | 64   | 64   | 64   | 64   |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  |                      |      |      |      |      |      |      |      |      |      |
| <u>Alcohol</u>                                       |  |                      |      |      |      |      |      |      |      |      |      |
| Breath Examiner Specialist                           |  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 30                   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |
| Refresher  |  |                      |      |      |      |      |      |      |      |      |      |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   |  | 80                   | 85   | 90   | 92   | 94   | 96   | 98   | 100  | 100  | 100  |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  |                      |      |      |      |      |      |      |      |      |      |
| <u>Traffic Control Devices</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   |  | 89                   | 85   | 90   | 92   | 94   | 96   | 98   | 100  | 100  | 100  |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  |                      |      |      |      |      |      |      |      |      |      |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  | 17                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 66                   | 86   | 86   | 90   | 94   | 98   | 102  | 106  | 106  | 106  |
| Refresher  |  |                      |      |      |      |      |      |      |      |      |      |

## State: OHIO

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                                |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                               |  | 100                  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Complete   |  | 348                  | 353  | 393  | 393  | 393  | 393  | 393  | 393  | 393  | 393  |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Emergency Medical Services Field Representative</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Emergency Medical Services Field Representative        |  | 24                   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   | 24   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Highway Design, Construction, and Maintenance</u>   |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                       |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 50                   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   | 50   |
| Partial  |  | 53                   | 55   | 58   | 61   | 65   | 68   | 72   | 75   | 75   | 75   |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Traffic Control Devices</u>                         |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                       |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 34                   | 37   | 43   | 45   | 47   | 49   | 51   | 53   | 53   | 53   |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>                         |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Officer                        |  |                      |      |      |      |      |      |      |      |      |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 60                   | 80   | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: OKLAHOMA

|                                   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|-----------------------------------|--|----------------------|------|------|------|------|------|------|------|------|------|
|                                   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>           |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher          |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                          |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                           |  | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |      |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>    |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman |  |                      |      |      |      |      |      |      |      |      |      |
| Complete                          |  | 47                   | 47   | 47   | 47   | 47   | 47   | 47   | 47   | 47   |      |
| Partial                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                         |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: OREGON

|  |    | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|----|----------------------|------|------|------|------|------|------|------|------|------|
|  |    | 1966                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |    |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |    |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 26 | 26                   | 26   | 26   | 26   | 26   | 26   | 26   | 26   | 26   |      |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Driver Retraining Instructor                         |    |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 6  | 6                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |      |
| <u>Driver Licensing</u>                              |    |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                              |    |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0  | 6                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 0  | 0                    | 6    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 75 | 75                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |      |
| <u>Highway Design, Construction, and Maintenance</u> |    |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |    |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 47 | 47                   | 47   | 47   | 47   | 47   | 47   | 47   | 47   | 47   |      |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Traffic Control Devices</u>                       |    |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     |    |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 10 | 10                   | 10   | 10   | 10   | 10   | 10   | 10   | 10   | 10   |      |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                       |    |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |    |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 27 | 27                   | 27   | 27   | 27   | 27   | 27   | 27   | 27   | 27   |      |
| Partial  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: PENNSYLVANIA

|  |       | Estimated Enrollment |       |       |       |       |       |       |       |       |      |
|--|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |       | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977 |
| <u>Periodic Motor Vehicle Inspection</u> |       |                      |       |       |       |       |       |       |       |       |      |
| Motor Vehicle Station Inspector          |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                                 | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial                                  | 100   | 50                   | 50    | 50    | 50    | 50    | 50    | 50    | 50    | 50    |      |
| Refresher                                | 170   | 170                  | 170   | 176   | 182   | 186   | 194   | 200   | 200   | 200   |      |
| Driver Education Supervisor              |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                                 | 27    | 32                   | 38    | 36    | 39    | 39    | 39    | 40    | 40    | 40    |      |
| Partial                                  | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                                | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Driver Education Teacher                 |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                                 | 15    | 27                   | 30    | 32    | 34    | 36    | 38    | 40    | 40    | 40    |      |
| Partial                                  | 45    | 45                   | 50    | 51    | 52    | 53    | 54    | 55    | 55    | 55    |      |
| Refresher                                | 1,284 | 1,656                | 1,965 | 1,975 | 1,986 | 1,996 | 2,007 | 2,017 | 2,017 | 2,017 |      |
| Driver Licensing                         |       |                      |       |       |       |       |       |       |       |       |      |
| Driver License Examiner                  |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                                 | 100   | 450                  | 50    | 55    | 60    | 65    | 70    | 75    | 75    | 75    |      |
| Partial                                  | 95    | 95                   | 95    | 97    | 99    | 101   | 103   | 105   | 105   | 105   |      |
| Refresher                                | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Driver License Examiner                  |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                                 | 100   | 450                  | 50    | 55    | 60    | 65    | 70    | 75    | 75    | 75    |      |
| Partial                                  | 95    | 95                   | 95    | 97    | 99    | 101   | 103   | 105   | 105   | 105   |      |
| Refresher                                | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Alcohol                                  |       |                      |       |       |       |       |       |       |       |       |      |
| Breath Examiner Specialist               |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                                 | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial                                  | 2,500 | 300                  | 350   | 350   | 350   | 350   | 350   | 350   | 350   | 350   |      |
| Refresher                                | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |

State: PENNSYLVANIA (continued)

|  |           | Estimated Enrollment |      |      |      |      |      |      |     |
|--|-----------|----------------------|------|------|------|------|------|------|-----|
|  |           | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 |     |
| <u>Highway Design, Construction, and Maintenance</u> |           |                      |      |      |      |      |      |      |     |
| Highway Engineer                                     | Complete  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |
|  | Partial   | 11                   | 15   | 20   | 20   | 20   | 20   | 20   | 20  |
|  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |
| <u>Traffic Control Devices</u>                       |           |                      |      |      |      |      |      |      |     |
| Traffic Engineer                                     | Complete  | 5                    | 16   | 22   | 25   | 27   | 30   | 32   | 35  |
|  | Partial   | 44                   | 44   | 22   | 22   | 22   | 22   | 22   | 22  |
|  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |
| <u>Police Traffic Services</u>                       |           |                      |      |      |      |      |      |      |     |
| Police Traffic Services Officer                      | Complete  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |
|  | Partial   | 45                   | 45   | 90   | 90   | 90   | 90   | 90   | 90  |
|  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |
| <u>Police Traffic Services Patrolman</u>             |           |                      |      |      |      |      |      |      |     |
| Police Traffic Services Patrolman                    | Complete  | 300                  | 300  | 340  | 380  | 420  | 460  | 500  | 500 |
|  | Partial   | 25                   | 25   | 100  | 100  | 100  | 100  | 100  | 100 |
|  | Refresher | 72                   | 72   | 168  | 115  | 122  | 130  | 137  | 144 |
| <u>School Bus Safety</u>                             |           |                      |      |      |      |      |      |      |     |
| School Bus Driver Training Officer                   | Complete  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |
|  | Partial   | 35                   | 35   | 35   | 35   | 35   | 35   | 35   | 35  |
|  | Refresher | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0   |

## State: RHODE ISLAND

|   |    | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|----|----------------------|------|------|------|------|------|------|------|------|------|
|   |    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                       |    |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                      |    |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 20 | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |      |
| Refresher                                     | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Highway Design, Construction, and Maintenance |    |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                              |    |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       | 30 | 30                   | 31   | 32   | 33   | 34   | 35   | 35   | 35   | 35   |      |
| Refresher                                     | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Police Traffic Services                       |    |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman             |    |                      |      |      |      |      |      |      |      |      |      |
| Complete                                      | 20 | 20                   | 20   | 20   | 20   | 20   | 20   | 20   | 20   | 20   |      |
| Partial                                       | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: SOUTH CAROLINA

|  |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|------|------|------|------|
|  |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Periodic Motor Vehicle Inspection</u>             |     |                      |      |      |      |      |      |      |      |      |      |
| Motor Vehicle Station Inspector                      |     |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 11  | 0                    | 11   | 0    | 11   | 0    | 11   | 0    | 11   | 0    |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Driver Education                                     |     |                      |      |      |      |      |      |      |      |      |      |
| Driver Education                                     | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   | 334 | 132                  | 132  | 134  | 135  | 137  | 138  | 140  | 140  | 140  |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Driver Licensing                                     |     |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                              | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 70  | 92                   | 119  | 122  | 125  | 128  | 131  | 134  | 134  | 134  |      |
| <u>Highway Design, Construction, and Maintenance</u> |     |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     | 10  | 10                   | 10   | 12   | 14   | 16   | 18   | 20   | 20   | 20   |      |
| Complete   | 7   | 7                    | 1    | 7    | 7    | 7    | 7    | 7    | 7    | 7    |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Traffic Control Devices</u>                       |     |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     | 2   | 4                    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                       |     |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    | 76  | 70                   | 70   | 72   | 74   | 76   | 78   | 80   | 80   | 80   |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  | 500 | 580                  | 643  | 694  | 746  | 797  | 849  | 900  | 900  | 900  |      |

## State: SOUTH DAKOTA

|   |    | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|----|----------------------|------|------|------|------|------|------|------|------|------|
|   |    | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Police Traffic Services</u>            |    |                      |      |      |      |      |      |      |      |      |      |
| <u>Police Traffic Services Patrolman:</u> |    |                      |      |      |      |      |      |      |      |      |      |
| Complete                                  | 12 | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |      |
| Partial                                   | 0  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                 | 15 | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |      |

## State: TENNESSEE

|  |       | Estimated Enrollment |       |       |       |       |       |       |       |       |      |
|--|-------|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
|  |       | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977 |
| <u>Driver Education</u>                |       |                      |       |       |       |       |       |       |       |       |      |
| Driver Education Teacher               |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                               | 25    | 30                   | 30    | 36    | 42    | 48    | 54    | 60    | 60    | 60    |      |
| Partial                                | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                              | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Identification and Surveillance</u> |       |                      |       |       |       |       |       |       |       |       |      |
| Accident Site Investigator Aide        |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                               | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial                                | 40    | 40                   | 40    | 40    | 40    | 40    | 40    | 40    | 40    | 40    |      |
| Refresher                              | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Traffic Control Devices</u>         |       |                      |       |       |       |       |       |       |       |       |      |
| Traffic Engineer                       |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                               | 6     | 8                    | 10    | 11    | 12    | 13    | 14    | 15    | 15    | 15    |      |
| Partial                                | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                              | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Police Traffic Services</u>         |       |                      |       |       |       |       |       |       |       |       |      |
| Police Traffic Services Officer        |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                               | 80    | 80                   | 80    | 80    | 80    | 80    | 80    | 80    | 80    | 80    |      |
| Partial                                | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                              | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Police Traffic Services Patrolman      |       |                      |       |       |       |       |       |       |       |       |      |
| Complete                               | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial                                | 1,440 | 1,920                | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 | 2,400 |      |
| Refresher                              | 0     | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |

## State: TEXAS

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete   |  | 61                   | 67   | 71   | 72   | 73   | 74   | 75   | 76   | 76   |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |  | 8                    | 10   | 12   | 14   | 15   | 17   | 18   | 20   | 20   |      |
| Complete   |  | 5                    | 6    | 6    | 6    | 6    | 6    | 6    | 6    | 6    |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Traffic Control Devices</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                                     |  | 5                    | 6    | 7    | 8    | 8    | 9    | 9    | 10   | 10   |      |
| Complete   |  | 6                    | 5    | 8    | 8    | 8    | 8    | 8    | 8    | 6    |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  | 50                   | 75   | 100  | 100  | 100  | 100  | 100  | 100  | 100  |      |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## State: UTAH

|   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|--|----------------------|------|------|------|------|------|------|------|------|------|
|   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Teacher                                       |  | 40                   | 40   | 42   | 43   | 43   | 44   | 44   | 45   | 45   | 45   |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Driver Licensing                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 123                  | 123  | 123  | 123  | 123  | 123  | 123  | 123  | 123  | 123  |
| Highway Design, Construction, and Maintenance |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                                      |  | 35                   | 35   | 35   | 36   | 37   | 38   | 39   | 40   | 40   | 40   |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Traffic Control Devices                       |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete                                      |  | 2                    | 2    | 3    | 3    | 4    | 4    | 4    | 5    | 5    | 5    |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Police Traffic Services                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman             |  | 29                   | 29   | 29   | 29   | 29   | 29   | 29   | 29   | 29   | 29   |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher                                     |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: VERMONT

|  |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|--|----------------------|------|------|------|------|------|------|------|------|------|
|  |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                             |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   |  | 30                   | 25   | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Driver Licensing</u>                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                              |  | 1                    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    | 1    |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 23                   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   | 23   |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Alcohol</u>                                       |  |                      |      |      |      |      |      |      |      |      |      |
| Breath Examiner Specialist                           |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   |  | 15                   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   | 15   |
| Partial  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |      |      |      |      |      |      |      |      |      |
| Engineering Aide-Safety                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 80                   | 50   | 40   | 40   | 40   | 40   | 40   | 40   | 40   | 40   |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Police Traffic Services</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |  | 25                   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   | 25   |
| Complete   |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  |  | 167                  | 182  | 189  | 214  | 240  | 265  | 292  | 318  | 318  | 318  |
| Refresher  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## State: VIRGINIA

|  |  | Estimated Enrollment |       |       |       |       |       |       |       |       |       |
|--|--|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |  | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
| <u>Periodic Motor Vehicle Inspection</u>             |  |                      |       |       |       |       |       |       |       |       |       |
| Motor Vehicle Station Inspector                      |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Complete   |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  | 968                  | 1,025 | 1,085 | 1,140 | 1,170 | 1,200 | 1,255 | 1,285 | 1,285 | 1,285 |
| <u>Driver Education</u>                              |  |                      |       |       |       |       |       |       |       |       |       |
| Driver Education Teacher                             |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Complete   |  | 100                  | 100   | 100   | 103   | 106   | 109   | 112   | 115   | 115   | 115   |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Driver License Examiner                              |  |                      |       |       |       |       |       |       |       |       |       |
| Complete   |  | 135                  | 140   | 200   | 202   | 204   | 216   | 208   | 210   | 210   | 210   |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <u>Identification and Surveillance</u>               |  |                      |       |       |       |       |       |       |       |       |       |
| Accident Site Investigator Aide                      |  |                      |       |       |       |       |       |       |       |       |       |
| Complete   |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  | 873                  | 925   | 975   | 1,025 | 1,050 | 1,075 | 1,125 | 1,150 | 1,150 | 1,150 |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |       |       |       |       |       |       |       |       |       |
| Highway Engineer                                     |  |                      |       |       |       |       |       |       |       |       |       |
| Complete   |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  |  | 3                    | 3     | 4     | 4     | 5     | 5     | 5     | 6     | 6     | 6     |
| Refresher  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |

|  |     | Estimated Enrollment |      |       |       |       |       |       |       |       |      |
|--|-----|----------------------|------|-------|-------|-------|-------|-------|-------|-------|------|
|  |     | 1968                 | 1969 | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977 |
| <u>Traffic Control Devices</u>           |     |                      |      |       |       |       |       |       |       |       |      |
| <u>Traffic Engineer</u>                  |     |                      |      |       |       |       |       |       |       |       |      |
| Complete                                 | 13  | 10                   | 13   | 11    | 14    | 11    | 15    | 12    | 15    | 12    |      |
| Partial                                  | 5   | 6                    | 7    | 8     | 8     | 9     | 9     | 10    | 10    | 10    |      |
| Refresher                                | 0   | 0                    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Engineering Aide-Traffic</u>          |     |                      |      |       |       |       |       |       |       |       |      |
| Complete                                 | 10  | 10                   | 10   | 11    | 11    | 11    | 12    | 12    | 12    | 12    |      |
| Partial                                  | 0   | 0                    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                                | 0   | 0                    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| <u>Police Traffic Services</u>           |     |                      |      |       |       |       |       |       |       |       |      |
| <u>Police Traffic Services Officer</u>   |     |                      |      |       |       |       |       |       |       |       |      |
| Complete                                 | 0   | 0                    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Partial                                  | 0   | 0                    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                                | 106 | 112                  | 118  | 124   | 130   | 136   | 142   | 148   | 148   | 148   |      |
| <u>Police Traffic Services Patrolman</u> |     |                      |      |       |       |       |       |       |       |       |      |
| Complete                                 | 85  | 85                   | 85   | 85    | 85    | 85    | 85    | 85    | 85    | 85    |      |
| Partial                                  | 0   | 0                    | 0    | 0     | 0     | 0     | 0     | 0     | 0     | 0     |      |
| Refresher                                | 273 | 925                  | 975  | 1,025 | 1,050 | 1,075 | 1,125 | 1,150 | 1,150 | 1,150 |      |

## State: WASHINGTON

|   |  | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|---|--|----------------------|------|------|------|------|------|------|------|------|------|
|   |  | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education</u>                       |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Education Teacher                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 122                  | 122  | 122  | 122  | 122  | 122  | 122  | 122  | 122  |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Retraining Instructor                  |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       |  | 10                   | 10   | 12   | 13   | 13   | 14   | 14   | 15   | 15   |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Driver Licensing                              |  |                      |      |      |      |      |      |      |      |      |      |
| Driver License Examiner                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       |  | 185                  | 185  | 190  | 195  | 200  | 205  | 210  | 215  | 215  |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Design, Construction, and Maintenance |  |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 75                   | 75   | 75   | 75   | 75   | 75   | 75   | 75   | 75   |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Control Devices                       |  |                      |      |      |      |      |      |      |      |      |      |
| Traffic Engineer                              |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Complete                                      |  | 12                   | 12   | 12   | 12   | 12   | 12   | 12   | 12   | 12   |      |
| Partial                                       |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services                       |  |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman             |  | 90                   | 90   | 120  | 126  | 132  | 138  | 144  | 150  | 150  |      |
| Complete                                      |  | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| Partial                                       |  | 300                  | 300  | 300  | 300  | 300  | 300  | 300  | 300  | 300  |      |
| Refresher                                     |  |                      |      |      |      |      |      |      |      |      |      |

## State: WEST VIRGINIA

|  |  | Estimated Enrollment |       |       |       |       |       |       |       |       |       |
|--|--|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |  | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
| <u>Periodic Motor Vehicle Inspection</u>             |  |                      |       |       |       |       |       |       |       |       |       |
| Motor Vehicle Station Inspector                      |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Complete   |  | 11                   | 11    | 36    | 36    | 36    | 36    | 36    | 36    | 36    | 36    |
| Partial  |  | 15                   | 15    | 40    | 41    | 42    | 43    | 43    | 44    | 44    | 44    |
| Refresher  |  |                      |       |       |       |       |       |       |       |       |       |
| <u>Driver Education</u>                              |  |                      |       |       |       |       |       |       |       |       |       |
| Driver Training Program Specialist                   |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Complete   |  | 40                   | 40    | 45    | 48    | 51    | 54    | 57    | 60    | 60    | 60    |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  |                      |       |       |       |       |       |       |       |       |       |
| Driver Education Supervisor                          |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Complete   |  | 40                   | 45    | 60    | 64    | 68    | 72    | 76    | 80    | 80    | 80    |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  |                      |       |       |       |       |       |       |       |       |       |
| Driver Education Teacher                             |  | 119                  | 205   | 225   | 235   | 245   | 255   | 265   | 275   | 275   | 275   |
| Complete   |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  |                      |       |       |       |       |       |       |       |       |       |
| <u>Driver Licensing</u>                              |  |                      |       |       |       |       |       |       |       |       |       |
| Driver License Examiner                              |  | 0                    | 24    | 40    | 50    | 60    | 63    | 67    | 70    | 80    | 80    |
| Complete   |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  |                      |       |       |       |       |       |       |       |       |       |
| <u>Highway Design, Construction, and Maintenance</u> |  |                      |       |       |       |       |       |       |       |       |       |
| Engineering Aide-Safety                              |  | 1,200                | 1,300 | 1,400 | 1,400 | 1,400 | 1,400 | 1,400 | 1,400 | 1,400 | 1,400 |
| Complete   |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  |  | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  |  |                      |       |       |       |       |       |       |       |       |       |

|  |  |      |      |      |      |      |      |      |      |      |      |      | Estimated Enrollment |
|--|--|------|------|------|------|------|------|------|------|------|------|------|----------------------|
|  |  | 1968 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 19.7                 |
| Traffic Control Devices                    |  |      |      |      |      |      |      |      |      |      |      |      |                      |
| Traffic Engineer                           |  | 17   | 20   | 25   | 26   | 28   | 29   | 30   | 33   | 35   | 35   | 35   |                      |
| Complete                                   |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Partial                                    |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Refresher                                  |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Police Traffic Services                    |  |      |      |      |      |      |      |      |      |      |      |      |                      |
| Police Traffic Services Program Specialist |  | 35   | 0    | 0    | 35   | 0    | 0    | 35   | 0    | 0    | 0    | 0    | 35                   |
| Complete                                   |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Partial                                    |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Refresher                                  |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Police Traffic Services Officer            |  |      |      |      |      |      |      |      |      |      |      |      |                      |
| Complete                                   |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Partial                                    |  | 0    | 40   | 0    | 50   | 0    | 65   | 0    | 80   | 0    | 80   | 0    |                      |
| Refresher                                  |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Police Traffic Services Patrolman          |  |      |      |      |      |      |      |      |      |      |      |      |                      |
| Complete                                   |  | 41   | 50   | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |                      |
| Partial                                    |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Refresher                                  |  | 323  | 323  | 323  | 323  | 323  | 323  | 323  | 323  | 323  | 323  | 323  |                      |
| School Bus Safety                          |  |      |      |      |      |      |      |      |      |      |      |      |                      |
| School Bus Program Specialist              |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Complete                                   |  | 0    | 0    | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   | 30   |                      |
| Partial                                    |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |
| Refresher                                  |  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |                      |

## State: WISCONSIN

|  |     | Estimated Enrollment |       |       |       |       |       |       |       |       |       |
|--|-----|----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  |     | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  | 1976  | 1977  |
| <u>Driver Education Teacher</u>                      |     |                      |       |       |       |       |       |       |       |       |       |
| Complete   | 800 | 1,060                | 1,165 | 1,222 | 1,279 | 1,336 | 1,393 | 1,450 | 1,450 | 1,450 | 1,450 |
| Partial  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| <u>Traffic Courts</u>                                |     |                      |       |       |       |       |       |       |       |       |       |
| Traffic Court Judge                                  |     |                      |       |       |       |       |       |       |       |       |       |
| Complete   | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  | 300 | 300                  | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   | 300   |
| Alcohol  |     |                      |       |       |       |       |       |       |       |       |       |
| Breath Examiner Specialist                           |     |                      |       |       |       |       |       |       |       |       |       |
| Complete   | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  | 20  | 20                   | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    | 20    |
| Refresher  | 600 | 600                  | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   | 600   |
| <u>Highway Design, Construction, and Maintenance</u> |     |                      |       |       |       |       |       |       |       |       |       |
| Highway Engineer                                     |     |                      |       |       |       |       |       |       |       |       |       |
| Complete   | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Partial  | 55  | 60                   | 65    | 65    | 65    | 65    | 65    | 65    | 65    | 65    | 65    |
| Refresher  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Police Traffic Services                              |     |                      |       |       |       |       |       |       |       |       |       |
| Police Traffic Services Patrolman                    |     |                      |       |       |       |       |       |       |       |       |       |
| Complete   | 70  | 70                   | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    | 35    |
| Partial  | 0   | 0                    | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     | 0     |
| Refresher  | 300 | 300                  | 328   | 323   | 328   | 328   | 328   | 328   | 328   | 328   | 328   |

## State: WYOMING

|  |     | Estimated Enrollment |      |      |      |      |      |      |      |      |      |
|--|-----|----------------------|------|------|------|------|------|------|------|------|------|
|  |     | 1968                 | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 |
| <u>Driver Education Teacher</u>                      |     |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  | 100 | 150                  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| <u>Highway Design, Construction, and Maintenance</u> |     |                      |      |      |      |      |      |      |      |      |      |
| Highway Engineer                                     |     |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Partial  | 15  | 15                   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   | 16   |
| Refresher  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Police Traffic Services                              |     |                      |      |      |      |      |      |      |      |      |      |
| Police Traffic Services Patrolman                    |     |                      |      |      |      |      |      |      |      |      |      |
| Complete   | 8   | 8                    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    | 8    |
| Partial  | 0   | 0                    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| Refresher  | 104 | 0                    | 109  | 0    | 114  | 0    | 120  | 0    | 120  | 0    | 120  |

## APPENDIX C

ADDITIONAL TRAINING PROGRAMS  
AMBULANCE DRIVER/AMBULANCE ATTENDANT

| State                 | Institution/Agency Name<br>Curriculum/Course Title  | Status                | Length of<br>Training                                    | Estimated Enrollment       |                                 |   |   |   |   |   |   |      |
|-----------------------|---|-----------------------|--|----------------------------|---------------------------------|---|---|---|---|---|---|------|
|                       |   |                       |  | 1968                       | 1969                            | 1970                                      | 1971                                      | 1972                                      | 1973                                      | 1974                                      | 1975                                      | 1976 |
| <u>Delaware</u>       | <u>State Fire Prevention Commission</u><br><u>Ambulance Service Training</u>  | P                     | 24 Hours   | 40                         | 45                              | 45  | 46  | 47  | 48  | 49  | 50  | 50   |
| <u>Georgia</u>        | <u>Department of Public Health</u><br><u>Trauma*</u>  | P                     | 16 Hours   | 450                        | 450                             | 450                                       | 450                                       | 450                                       | 450                                       | 450                                       | 450                                       | 450  |
| <u>Indiana</u>        | <u>Board of Health</u><br><u>Emergency Aid and</u><br><u>Transportation Institute</u>   |                       | 40 Hours   | 0                          | 0                               | 0   | 0   | 0   | 0   | 0   | 0   | 0    |
| <u>Maryland</u>       | <u>University of Maryland</u><br><u>Vocational Ed. Program-</u><br>Emergency Care<br>Emergency Care I<br>Emergency Care II<br>Emergency Care III<br>Emergency Care IV | P<br>P<br>P<br>P<br>P | 20 Hours<br>20 Hours<br>20 Hours<br>20 Hours<br>20 Hours | 80<br>80<br>80<br>80<br>80 | 240<br>320<br>320<br>320<br>320 | 2,000<br>2,000<br>2,000<br>2,000<br>2,000 | 2,000<br>2,000<br>2,000<br>2,000<br>2,000 | 2,000<br>2,000<br>2,000<br>2,000<br>2,000 | 2,000<br>2,000<br>2,000<br>2,000<br>2,000 | 2,000<br>2,000<br>2,000<br>2,000<br>2,000 | 2,000<br>2,000<br>2,000<br>2,000<br>2,000 |      |
| <u>New York</u>       | <u>First Aid &amp; Handling of</u><br><u>Accident Cases</u>   | P                     | 24 Hours   | 375                        | 375                             | 375                                       | 375                                       | 375                                       | 375                                       | 375                                       | 375                                       | 375  |
| <u>North Carolina</u> | <u>Board of Health</u><br><u>Initial Emergency Care*</u>  | P                     | 24 Hours   | 800                        | 450                             | 250                                       | 250                                       | 250                                       | 250                                       | 250                                       | 250                                       | 250  |

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APPENDIX C (1)

\* Course trains ambulance attendant only.

ADDITIONAL TRAINING PROGRAMS  
AMBULANCE DRIVER/AMBULANCE ATTENDANT

| State                             | Institution/Agency Name<br>Curriculum/Course Title | Status | Length of Training | Estimated Enrollment |       |       |       |       |       |       |       |
|-----------------------------------|--|--------|--------------------|----------------------|-------|-------|-------|-------|-------|-------|-------|
|                                   |  |        |                    | 1968                 | 1969  | 1970  | 1971  | 1972  | 1973  | 1974  | 1975  |
| <u>Ohio</u>                       | <u>Department of Education</u>                     | P      | 30 Hours           | 800                  | 450   | 250   | 250   | 250   | 250   | 250   | 250   |
|                                   | Emergency Victim Care Course                       | P      | 20 Hours           | 100                  | 100   | 100   | 100   | 100   | 100   | 100   | 100   |
|                                   | Victim Rescue Course                               | P      | 12 Hours           | 800                  | 800   | 800   | 800   | 800   | 800   | 800   | 800   |
|                                   | Heart and Resuscitation Course                     | P      |                    |                      |       |       |       |       |       |       |       |
|                                   | Local Hospitals                                    |        |                    |                      |       |       |       |       |       |       |       |
| <u>Pennsylvania</u>               | <u>Emergency Room Training Program</u>             | P      | 271                | 271                  | 271   | 271   | 271   | 271   | 271   | 271   | 271   |
|                                   | <u>Department of Public Health</u>                 |        |                    |                      |       |       |       |       |       |       |       |
|                                   | Emergency Medical Service Training                 | P      | 22 Hours           | 2,500                | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 | 3,500 |
| <u>West Virginia</u>              | <u>University of West Virginia</u>                 | P      | 16 Hours           | 105                  | 110   | 120   | 130   | 140   | 150   | 160   | 160   |
|                                   | Emergency Transportation & Immediate Care          |        |                    |                      |       |       |       |       |       |       |       |
| <b>Total Estimated Enrollment</b> |  |        |                    |                      |       |       |       |       |       |       |       |
| <b>Complete:</b>                  |  |        |                    |                      |       |       |       |       |       |       |       |
| <b>Partial:</b>                   |  |        |                    |                      |       |       |       |       |       |       |       |
| <b>Refresher:</b>                 |  |        |                    |                      |       |       |       |       |       |       |       |

APPENDIX C (2)

ADDITIONAL TRAINING PROGRAMS  
SCHOOL BUS DRIVER

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| State                 | Institution/ Agency Name<br>Curriculum/ Course Title | Status | Length of Training         | Estimated Enrollment |        |        |        |        |        |        |        |        |
|-----------------------|--|--------|----------------------------|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       |  |        |                            | 1968                 | 1969   | 1970   | 1971   | 1972   | 1973   | 1974   | 1975   | 1976   |
| <u>Delaware</u>       | <u>Department of Public Instruction</u>              | P      | 8 Hours                    | 35                   | 35     | 35     | 35     | 35     | 35     | 35     | 35     | 35     |
|                       | School Bus Driver Education                          | R      | 4 Hours                    | 700                  | 735    | 770    | 805    | 840    | 875    | 910    | 945    | 945    |
| <u>Kentucky</u>       | <u>Department of Education</u>                       | P      | 32 Hours                   | 800                  | 800    | 800    | 800    | 800    | 800    | 800    | 800    | 800    |
|                       | School Bus Driver Training Course                    |        |                            |                      |        |        |        |        |        |        |        |        |
| <u>Maryland</u>       | <u>Department of Education</u>                       | P      | 8 Hours                    | 4,200                | 4,200  | 4,200  | 4,200  | 4,200  | 4,200  | 4,200  | 4,200  | 4,200  |
|                       | School Bus Driver Retraining                         |        |                            |                      |        |        |        |        |        |        |        |        |
| <u>Michigan</u>       | <u>Department of Education</u>                       | P      | 12 Hours                   | 7,500                | 7,800  | 8,100  | 8,400  | 8,700  | 9,000  | 9,300  | 9,600  | 9,600  |
|                       | School Bus Driving                                   |        |                            |                      |        |        |        |        |        |        |        |        |
| <u>North Carolina</u> | <u>Department of Motor Vehicles</u>                  | P      | 14 Hours                   | 22,000               | 25,000 | 25,500 | 26,000 | 26,500 | 27,000 | 27,500 | 28,000 | 28,000 |
|                       | School Bus Driver Training                           |        |                            |                      |        |        |        |        |        |        |        |        |
| <u>South Carolina</u> | <u>Department of Education</u>                       | P      | 24 Hours                   | 6,500                | 7,000  | 7,000  | 7,000  | 7,000  | 7,000  | 7,000  | 7,000  | 7,000  |
|                       | School Bus Driver Training                           |        |                            |                      |        |        |        |        |        |        |        |        |
| <u>Vermont</u>        | <u>Department of Motor Vehicles</u>                  | P      | 4 Hours                    | 1,200                | 1,200  | 1,200  | 1,200  | 1,200  | 1,200  | 1,200  | 1,200  | 1,200  |
|                       | School Bus Driver Preparation                        |        |                            |                      |        |        |        |        |        |        |        |        |
|                       |  |        | Total Estimated Enrollment |                      |        |        |        |        |        |        |        |        |
|                       |  |        | Complete:                  |                      |        |        |        |        |        |        |        |        |
|                       |  |        | Partial:                   |                      |        |        |        |        |        |        |        |        |
|                       |  |        | Refresher:                 | 0                    | 0      | 0      | 0      | 0      | 0      | 0      | 0      | 0      |
|                       |  |        |                            | 42,235               | 46,335 | 46,835 | 47,635 | 48,435 | 49,235 | 50,035 | 50,835 | 50,835 |
|                       |  |        |                            | 700                  | 735    | 770    | 805    | 840    | 875    | 910    | 945    | 945    |

APPENDIX C (3)

## APPENDIX D

BOOZ, ALLEN & HAMILTON, INC.

NATIONAL HIGHWAY SAFETY BUREAU  
**SAFETY SPECIALIST MANPOWER STUDY**

FORM APPROVED  
REGISTRATION BUREAU NO. 04-F-7014

## APPENDIX D (1)

NATIONAL HIGHWAY SAFETY BUREAU  
SAFETY SPECIALIST MANPOWER STUDY

FORM APPROVED  
BUREAU NO. 046-F-7016

| STATE                      |          | RESPONDENT   |                     |                            |                          |
|----------------------------|----------|--|---------------------|----------------------------|--------------------------|
| 1. INSTITUTION AL TRAINING | 2. STATE | 3. DATE  | 4. CONSULTANT       | 5. CONTACT'S TITLE         |                          |
| 7. NAME OF INSTITUTION     |          |  | 8. CURRICULUM TITLE | 9. LOCATION OF INSTITUTION | 10. DEPARTMENT OR SCHOOL |
| 11. ENROLLMENT             |          | TOTAL GRADUATES THROUGH 1966 (CUMULATIVE) _____<br>NO. OF EXTENSION GRADUATES THROUGH 1966 (CUMULATIVE) _____<br>PRESENT THE MOST RECENT TOTAL ENROLLMENT FIGURE _____<br>NO. OF TOTAL ENROLLMENT DOING EXTENSION WORK _____ |                     |                            |                          |
|                            |          | 1967   | 1968                | 1969                       | 1970                     |
|                            |          | ESTIMATED TOTAL ANNUAL ENROLLMENT<br>NO. DOING EXTENSION WORK  |                     |                            |                          |
|                            |          | 12. FINANCIAL SUPPORT<br>WHO PROVIDED FINANCIAL SUPPORT<br>TYPE OF SUPPORT PROVIDED (E.G., SCHOLARSHIPS)<br>EARMARKED OR FOR UNSPECIFIED USE?  |                     |                            |                          |

BOOZ, ALLEN & HAMILTON, INC.

NATIONAL HIGHWAY SAFETY BUREAU  
SAFETY SPECIALIST MANPOWER STUDY

FORM APPROVED  
BUREAU BUREAU NO. 04-P-7016

| STATE   |            | RESPONDENT                 |  |
|---|------------|----------------------------|--|
| 1. INSTITUTIONAL TRAINING   | 2. STATE   | 3. DATE                    |  |
| 4. CONSULTANT   | 5. CONTACT | 6. CONTACT'S TITLE         |  |
| 7. NAME OF INSTITUTION  |            | 8. LOCATION OF INSTITUTION |  |
| 9. CURRICULUM *TITLE  |            | 10. DEPARTMENT OR SCHOOL   |  |
| 11. CAPABILITY TO EXPAND ENROLLMENT   |            |                            |  |
| WHAT IS THE MAXIMUM ENROLLMENT PER YEAR WITH CURRENT STAFF AND FACILITIES?  |            |                            |  |
| WHAT IS THE ESTIMATED CURRENT ANNUAL OPERATING COST FOR THE CURRICULUM?   |            |                            |  |
| HOW MANY TOTAL STUDENTS COULD BE TRAINED PER YEAR BY INCREASING OPERATING COSTS (COSTS FOR ITEMS CONSUMED THROUGH USE SUCH AS SALARIES, SUPPLIES, POSTAL CHARGES) BUT NOT INCURRING INVESTMENT COSTS? |            |                            |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 100% - OPERATING + INVESTMENT +   |            |                            |  |
| TOTAL +   |            |                            |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 100% - OPERATING + INVESTMENT +   |            |                            |  |
| TOTAL +   |            |                            |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 100% - OPERATING + INVESTMENT +   |            |                            |  |
| TOTAL +   |            |                            |  |

NATIONAL HIGHWAY SAFETY BUREAU  
SAFETY SPECIALIST MANPOWER STUDY

FORM APPROVED  
BUDGET BUREAU NO. 04-F-7016

| STATE   |                            | RESPONDENT         |  |
|---|----------------------------|--------------------|--|
| 1. INSTITUTIONAL TRAINING   | 2. STATE                   | 3. DATE            |  |
| 4. CONSULTANT   | 5. CONTACT                 | 6. CONTACT'S TITLE |  |
| 7. NAME OF INSTITUTION  | 8. LOCATION OF INSTITUTION |                    |  |
| 9. COURSE TITLE   | 10. DEPARTMENT OR SCHOOL   |                    |  |
| 11. COURSE DESCRIPTION AND OBJECTIVES:  |                            |                    |  |
| 12. COURSE PREREQUISITES  |                            |                    |  |
| 13. COURSE TIMES<br>LENGTH OF COURSE (IN WEEKS)   |                            |                    |  |
| 14. FREQUENCY OF COURSE (ANNUAL, BIANNUAL, OCCASIONAL)  |                            |                    |  |
| 15. HOW LONG HAS COURSE BEEN IN EXISTENCE?  |                            |                    |  |
| 16. COURSE LEVEL<br>2 YEAR COLLEGE <input type="checkbox"/> GRADUATE <input type="checkbox"/><br>4 YEAR COLLEGE <input type="checkbox"/> NONDEGREE <input type="checkbox"/> |                            |                    |  |
| 17. CERTIFICATE _____<br>NO CREDIT _____  |                            |                    |  |
| 18. FINANCIAL SUPPORT<br>WHO PROVIDES FINANCIAL SUPPORT?<br>TYPE OF SUPPORT PROVIDED (E.G., SCHOLARSHIPS)?<br>SPECIFIED OR UNSPECIFIED USES?                                |                            |                    |  |

BOOZ, ALLEN & HAMILTON, INC.

NATIONAL HIGHWAY SAFETY BUREAU  
SAFETY SPECIALIST MANPOWER STUDY

FORM APPROVED  
BUDGET BUREAU NO. DA-F-7018

| STATE _____  |                            | RESPONDENT         |  |
|--|----------------------------|--------------------|--|
| 1. INSTITUTIONAL TRAINING                                  | 2. STATE                   | 3. DATE            |  |
| 4. CONSULTANT  | 5. CONTACT                 | 6. CONTACT'S TITLE |  |
| 7. NAME OF INSTITUTION                                     | 8. LOCATION OF INSTITUTION |                    |  |
| 9. COURSE TITLE  | 10. DEPARTMENT OR SCHOOL   |                    |  |
| 11. ENROLLMENT   |                            |                    |  |
| TOTAL GRADUATES THROUGH 1966 (CUMULATIVE) _____            |                            |                    |  |
| NO. OF EXTENSION GRADUATES THROUGH 1966 (CUMULATIVE) _____ |                            |                    |  |
| PRESENT (OR MOST RECENT) TOTAL ENROLLMENT FIGURE _____     |                            |                    |  |
| NO. OF TOTAL ENROLLMENT DOING EXTENSION WORK _____         |                            |                    |  |
| ESTIMATE OF TOTAL ANNUAL ENROLLMENT                        |                            |                    |  |
| NO. DOING EXTENSION WORK                                   |                            |                    |  |

APPENDIX D (5)

NATIONAL HIGHWAY SAFETY BUREAU  
SAFETY SPECIALIST MANPOWER STUDY

FORM APPROVED  
BUDGET BUREAU NO. 04-F-7016

| STATE  |           | RESPONDENT                |  |
|--|-----------|---------------------------|--|
| 1 INSTITUTIONAL TRAINING   | 2 STATE   | 3 DATE                    |  |
| 4 CONSULTANT   | 5 CONTACT | 6 CONTACT'S TITLE         |  |
| 7 NAME OF INSTITUTION  |           | 8 LOCATION OF INSTITUTION |  |
| 9 COURSE TITLE   |           | 10 DEPARTMENT OR SCHOOL   |  |
| 11 CAPABILITY TO EXPAND ENROLLMENT   |           |                           |  |
| WHAT IS THE MAXIMUM ENROLLMENT PER YEAR WITH CURRENT STAFF AND FACILITIES?   |           |                           |  |
| WHAT IS THE CURRENT ANNUAL OPERATING COST FOR THE COURSE?  |           |                           |  |
| HOW MANY TOTAL STUDENTS COULD BE TRAINED PER YEAR BY INCREASING OPERATING COSTS? (COSTS FOR ITEMS CONSUMED THROUGH USE SUCH AS SALARIES, SUPPLIES, POSTAL CHARGES) BUT WITHOUT INCURRING INVESTMENT COSTS? |           |                           |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 50% - OPERATING INVESTMENT? _____  |           |                           |  |
| TOTAL + _____  |           |                           |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 100% OPERATING INVESTMENT? _____   |           |                           |  |
| TOTAL + _____  |           |                           |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 200% OPERATING INVESTMENT? _____   |           |                           |  |
| TOTAL + _____  |           |                           |  |

## APPENDIX D (7)

BOOZ, ALLEN & HAMILTON, INC.

**NATIONAL HIGHWAY SAFETY BUREAU  
SAFETY SPECIALIST MANPOWER STUDY**

**FORM APPROVED  
BUDGET BUREAU NO. 04-F-7016**

| STATE _____  |                       | RESPONDENT _____   |  |
|--|-----------------------|--|--|
| 1. IN-SERVICE TRAINING   | 2. STATE              |  |  |
| 3. CONSULTANT  | 4. DATE               |  |  |
| 5. CONTACT   | 6. CONTACT'S TITLE    |  |  |
| 7. TRAINING FACILITY AND LOCATION  | 8. PARENT AGENCY      |  |  |
| 9. COURSE TITLE  | 10. SPONSORING AGENCY |  |  |
| 11. COURSE DESCRIPTION AND OBJECTIVES  |                       |  |  |
| 12. FOR WHAT TRAFFIC SAFETY POSITION DOES COURSE QUALIFY ENROLLEE?   |                       | 13. CURRICULUM RELATIONSHIP  |  |
|  |                       | IS COURSE PART OF A SAFETY CURRICULUM?<br><input type="checkbox"/> YES <input type="checkbox"/> NO |  |
|  |                       | IF YES, NAME OF CURRICULUM<br><br>(SEE SHEET ____)   |  |
| 14. COURSE TIMES   |                       | 15. WHO PROVIDES FINANCIAL SUPPORT   |  |
| LENGTH OF COURSE (IN WEEKS)<br>FREQUENCY (ANNUAL, BI-ANNUAL, ETC.)<br>HOW LONG HAS COURSE BEEN IN EXISTENCE? |                       | TYPE OF SUPPORT PROVIDED (E.G., SCHOLARSHIPS)<br>EARMARKED OR FOR GENERAL PURPOSES.                |  |

NATIONAL HIGHWAY SAFETY BUREAU  
SAFETY SPECIALIST MANPOWER STUDY

FORM APPROVED  
BUDGET BUREAU NO. 04-F-7016

| STATE   |                       | RESPONDENT           |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
|---|-----------------------|----------------------|-------------------|----|----|----|----|------|------|------|------|-----------------------------------|--|--|--|
| 1. IN-SERVICE TRAINING  | 2. STATE              | 3. DATE              | 4. CONTACT        |    |    |    |    |      |      |      |      |                                   |  |  |  |
|   |                       |                      | ✓ CONTACT'S TITLE |    |    |    |    |      |      |      |      |                                   |  |  |  |
| 5. TRAINING FACILITY AND LOCATION   | 6. PARENT AGENCY      | 7. SPONSORING AGENCY | 8. COURSE TITLE   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| 9. COURSE TITLE   | 10. SPONSORING AGENCY | 11. ENROLLMENT       |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| HOW MANY HAVE FINISHED THE COURSE THROUGH FY 1966 (CUMULATIVE)?<br>PRESENT (OR MOST RECENT) ENROLLMENT FIGURE.  |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| <table border="1"> <thead> <tr> <th>FY</th> <th>FY</th> <th>FY</th> <th>FY</th> </tr> <tr> <td>1967</td> <td>1968</td> <td>1969</td> <td>1970</td> </tr> </thead> <tbody> <tr> <td colspan="4">ESTIMATED TOTAL ANNUAL ENROLLMENT</td> </tr> </tbody> </table> |                       |                      |                   | FY | FY | FY | FY | 1967 | 1968 | 1969 | 1970 | ESTIMATED TOTAL ANNUAL ENROLLMENT |  |  |  |
| FY  | FY                    | FY                   | FY                |    |    |    |    |      |      |      |      |                                   |  |  |  |
| 1967  | 1968                  | 1969                 | 1970              |    |    |    |    |      |      |      |      |                                   |  |  |  |
| ESTIMATED TOTAL ANNUAL ENROLLMENT   |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| 12. CAPABILITY TO EXPAND ENROLLMENT   |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| WHAT IS THE MAXIMUM ENROLLMENT PER YEAR WITH CURRENT STAFF AND FACILITIES? _____  |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| WHAT IS THE ESTIMATED CURRENT ANNUAL OPERATING COST OF THE COURSE? _____  |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| HOW MANY TOTAL STUDENTS COULD BE TRAINED PER YEAR BY INCREASING OPERATING COSTS FOR ITEMS CONSUMED THROUGH USE SUCH AS SALARIES, SUPPLIES, POSTAL CHARGES, BUT WITHOUT INCURRING INVESTMENT CLOSSES? _____  |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| HOW MUCH ADDITIONAL BUILD UP COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 50%? OPERATING INVESTMENT TOTAL _____   |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 100%? OPERATING INVESTMENT TOTAL _____  |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |
| HOW MUCH ADDITIONAL WOULD IT COST IN DIRECT CHARGES TO INCREASE PRESENT MAXIMUM ENROLLMENT BY 200%? OPERATING INVESTMENT TOTAL _____  |                       |                      |                   |    |    |    |    |      |      |      |      |                                   |  |  |  |