COMMONWEALTH OF VIRGINIA, HIGHWAY SAFETY DIVISION SECOND ANNUAL HIGHWAY SAFETY WORK PROGRAM

July 1, 1972 — June 30, 1973

compiled and prepared by

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with assistance from Other Members of the Safety Section Staff

(A Report Prepared by the Virginia Highway Research Council Under the Sponsorship of the Virginia Highway Safety Division.)

Virginia Highway Research Council (A Cooperative Organization Sponsored Jointly by the Virginia Department of Highways and the University of Virginia)

Charlottesville, Virginia

March 1972 VHRC 71-R25

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INTRODUCTION

This submission is the state's Second Annual Highway Safety Work Program. It was prepared by the Virginia Highway Research Council for the Commonwealth of Virginia in fulfillment of the state's obligation to the National Highway Traffic Safety Administration.

This year, local Highway Safety Commissions were asked to prepare and submit Local Highway Safety Work Programs in order to aid the state in the development of its program. The local submissions followed the same format as that of the state. The Supervisor of the Driver Education Services, the Supervisor of the Emergency Medical Services; the Traffic Officer of State Police Headquarters, the Driver Services Administrator of the Division of Motor Vehicles and traffic engineers from the Virginia Department of Highways participated in organizing this comprehensive highway safety program submission for Virginia.

The Annual Highway Safety Program for Virginia is divided into five parts. The first section is the introduction, the second is a summary of each standard area, giving the total cost of tasks covered in the Annual Work Program. These summaries show the total expenditures by the state on highway safety programs, total 402 funding, and federal funds distributed to political subdivisions. In order to develop and implement the enclosed programs (see Part IV AHSWP) at both the state and local level, the Commonwealth is requesting over \$4 million in federal funding, with approximately \$2.8 million earmarked for political subdivisions.

Part three of the Second Annual Highway Safety Work Program is the program analysis, which provides an overview of the Program. It includes changes in traffic accidents, deaths, personal injuries and related property losses since 1961. Additional data which effectively relate the changing magnitudes of highway safety problems in the state appear in this section. The total of 402 funds expended by political subdivisions from the inception of the program through the year covered by the AHSWP is included in this section.

A priority chart showing the amount of federal funds to be expended by standard area according to the amount requested for the total program is given. A breakdown of tasks that will be funded according to the two levels of funding anticipated from the NHTSA is also shown.

Subelement plans (SEP) which make up the planning documents constitute

Part IV of the Program. They provide a five-year program plan which includes two

previous years, the next fiscal year, and a projection of activities for the next two

years, 1974 and 1975. Supplements to the subelement plans show the total cost of each

SEP and a breakdown of the total cost, the federal share, and the federal share to

localities by task. A narrative discussing the use of federal funds follows each SEP.

The state is now limited in its ability to fully evaluate its programs due to weaknesses in its traffic records system. This is being remedied by a newly appointed Traffic Records Committee whose activities should lead to a greatly improved records system. In anticipation of data that a new records system will better provide, performance measures and output measures have been designed and incorporated in the effectiveness supplements to the subelements.

Part five of the Program includes the Federal-Aid Highway Safety Program Agreement.

PART II SUMMARY

HIGHWAY SAFETY PROGRAM - SUMMARY

STATE: VIRGINIA
DATE: April 1, 1972

SUB TOTAL NEW OBLIGATION ELEMENT STANDARDS & SUBELEMENTS FY COST TOTAL LOCAL FEDERAL EXPEND. (\$000)NO. PA-73-100 Planning & Administration 689.5 180.0 0 689.5 180.0 0 VI-73-261 Periodic Motor Vehicle Inspection 412.0 0 301 412.0 0 0 VR-73-261 Motor Vehicle Registration 7,793.0 0 0 7,793.0 0 0 MS-73-161 Motorcycle Safety 72.0 36.0 36.0 303 72.0 36.0 36.0 DE-73-161 Driver Education - High School 15,257.5 826.15 761.8 304 15,257.5 826.15 761.8 DE-73-162 Driver Education - Driver Improvement 144.2 51.7 30.0 $30\overline{4}$ 144.2 51.7 30.0 DE-73-163 Driver Education - Adult 9.5 9.5 9.5 304 9.5 9.5 9.5 DE-73-164 Driver Education - Handicapped 104.4 52.2 Λ 304 104.4 52.2 0 DE-73-165 Driver Education — Commercial 1.0 . 5 0 304 1.0 . 5 0 DE-73-166 Highway Safety Education 127.061 63.531 0 127.061 63.531 0 DL-73-161 Driver Testing & Licensing 11,907.5 183.5 0 305 11,907.5 183.5 0 CL-73-501 Codes & Laws 92.0 46.0 46.0 306 92.0 46.0 46.0 TC-73-491 Traffic Courts 1,185.0 33.0 33.0 307 1,185.0 33.0 33.0 AL-73-471 682.9 Alcohol & Drugs 355.4 298.4 308 682.9 355.4 298.4 Identification & Surveillance 968.3 364.0 264.0 of Accident Locations IS-73-391 609 (Cities) 328.0 164.0 164.0 IS-73-392 609 (VDH) 640.3 200.0 100.0 Traffic Records 640.0 1,926.0 25.0 TR-73-501 310 Traffic Records Committee 290.0 580.0 25.0 TR-73-502 310 DMV 1,346.0 350.0 0

1156

HIGHWAY SA	FETY PROGRAM - SUMMARY	.		RGINIA ril 1, 1972
SUB ELEMENT NO.	STANDARDS AND SUBELEMENTS	TOTAL FY COST (\$000)	NEW OBL TOTAL FEDERAL	IGATION LOCAL EXPEND.
EM-73-181	Emergency Medical Services 311	2,454.0 2,454.0	759.4 759.4	6 91. 0 6 91. 0
HD-73-361 HD-73-362	Highway Design, Construction and Maintenance 612 (Cities) 612 (VDH)	410,388.0 34,563.0 375,825.0	128.0 128.0 0	128.0 128.0
CD-73-361 CD-73-362	Traffic Control Devices 613 (Cities) 613 (VDH)	4,737.0 115.0 4,622.0	115.0 115.0 0	0 115.0 115.0 0
PS-73-161 PS-73-162	Pedestrian Safety 314 (NHTSA) 614 (FHWA)	145.7 92.7 53.0	81.85 46.35 35.5	81.85 46.35 35.5
PT-73-471 PT-73-472	Police Traffic Services 315 (Cities) 315 (State)	36,490.9 23,977.2 12,513.7	456.6 300.0 156.6	300.0 300.0 0
DC-7 3-2 81	Accident Cleanup 316	600.0 600.0	55.0 55.0	55.0 55.0
	TOTAL	496, 187.461	4,437.331	2,874.65
300 301 302 303 304 305 306 307 308 310 311 314 315 316	NHTSA TOTAL	689.5 412.0 7,793.0 72.0 15,643.661 11,907.500 92.0 1,185.0 682.9 1,926.0 2,454.0 92.7 36,490.9 600.0	183.5 46.0 33.0 355.4 640.0 759.4 46.35 456.6 55.0	0 0 36.0 801.30 0 46.0 33.0 298.4 25.0 691.0 46.35 300.0 55.0
609 612 613		968.3 410,388.0	364.0 128.0	264.0 128.0
614	FHWA TOTAL	4,737.0 53.0 416,146.3	115.0 35.5 642.5	115.0 35.5 542.5
	GRAND TOTAL	496,187.461	4,437.331	2,874.65

PART III 1157

PROGRAM ANALYSIS

It has been estimated that "for more than half of their lives, the people of the United States and many other western countries are more likely to die from accidents than from any other cause." It is further indicated that, as a whole, accidents as a cause of death are now outranked only by cancer and cardiovascular disease. 1/

The public seems to believe that accidents result from causal sequences that are somehow intrinsically different from those that lead to disease; and to other everyday events. "It is not uncommon for example, to encounter physicians, lawyers, economists, and others whose training has involved the development of analytical thinking and a continuous search for cause who believe firmly that accidents are "acts of God" that "just happen", and that lightning never strikes twice, "that accidents are as uncontrollable as the weather; that, in short, accidents somehow mysteriously defy any kind of systematic study, beyond mere tabulation." This general feeling is expressed even more strongly by those with less education and sophistication. With this type of attitude it is no wonder that the number of accidents occurring on the highways in Virginia increases each year. Even though many accidents are beyond human control, a large element of carelessness and irresponsibility is involved in others.

One can only predict that with this attitude motor vehicle accidents will continue to increase. Realizing that this will occur we should strive to reduce the severity and morbidity of these crashes as well as to reduce the number of persons killed. We

^{1/} Moore, J. O., and B. Tourin, "A Study of Automobile Doors Opening Under Crash Conditions," T.R. 2, Automotive Crash Injury Research, Cornell University, August 1954.

^{2/} Haddon, William, Jr., M. D., Edward A Suchman, and David Klein, Accident Research, Harper and Row Publishers, New York, 1964, p. 6.

seek to accomplish this not only by providing safer highways and better equipment, but by implementing an educational program second to none.

HIGHWAY ACTIVITIES IN VIRGINIA

Accident Exposure Factors

The number of motor vehicle registrations has been steadily increasing in Virginia. The 4.8% increase from 2,155,872 registrations in 1969 to 2,260,314 in 1970 is very close to the 4.7% annual average rate of increase over the years 1965 to 1970. The number of licensed operators has also been increasing, but at a slower rate. The increase from 2,331,539 licensed operators in 1969 to 2,347,500 in 1970 represents an increase of only 0.6% compared to a five-year average increase of 1.9%. A summary of these figures is shown in Exhibit 1.* Exhibits 2 and 3 are graphs depicting the values from Exhibit 1, and they project the number of motor vehicle registrations and the number of licensed operators, respectively. Exhibit 4 shows the rapid growth in motorcycle registrations in the Commonwealth. The 5-year average annual increase was 19.9% from 1965 to 1970, with the increase of 29.1% from 1969 to 1970 reflecting the addition of 7,578 new registrations during that year. It seems likely that the number of motorcycle registrations will continue to rise at a rapid rate with approximately 50,000 registrations forecast for 1975.

The annual vehicle miles of travel on all Virginia highways, streets and roads are shown in Exhibit 5. The average annual rate of increase for the period from 1965 to 1970 was 6.6% with an increase of 5.4% from 1969 to 1970, which resulted in a level of 28.42 billion miles of travel. Exhibit 6 depicts the increase in annual vehicle miles of travel. Based on a projection of an annual increase of 6%, the total vehicle miles of travel should reach 38.0 billion by 1975.

With the number of vehicle registrations, licensed operators, and vehicle miles of travel increasing, one would perhaps assume that the number of accidents, injuries and fatalities should increase concurrently as a consequence of this increased

^{*}Exhibits for Part III appear at end of narrative.

highway exposure. However, it is the purpose of the Highway Safety Division of Virginia to reduce the number of accidents, personal injuries, property damage and especially fatalities in Virginia by implementing the very best highway safety program at both the state and local levels.

Accident Statistics

A summary of the highway accident statistics for 1970 is presented in Exhibit 7. In view of the increasing exposure of drivers to the risk of traffic accidents in terms of miles of travel and number of operators, it is encouraging to see that the number of fatalities decreased by 5.6% from 1,304 in 1969 to 1,231 in 1970. The latest available figures show a continuing decline to 1,215 fatalities in 1971. With an increase of 4.05% in the number of total accidents, the number of persons injured increased by only 0.63%. These results cannot be attributed directly to any single safety program, but the Highway Safety Division has identified some of the programs which it believes have had the greatest impact.

Before 1968 the Emergency Medical Services in Virginia were not regulated by any codes or laws. However, in 1968, special laws were passed regulating the training of ambulance attendants, as well as establishing a list of minimum essential items of equipment for ambulances. Since that time increased federal funding has enabled the state to add new facilities at locations which had previously gone without emergency medical services, as well as to provide better communications systems. Both of these activities have helped reduce the response time to traffic accident locations.

In light of the fact that the number of accidents has increased at a much faster rate than the number of persons injured, it appears that the various safety belt campaigns are having a significant impact in changing driver attitudes. This was only one of the topics within the scope of the expanded HSD public information campaign. Other

topics included alcohol in relation to highway safety, pedestrian safety, bicycle safety, motorcycle safety, and additional programs which have conveyed the safety message throughout the state.

In recognition of the fact that speed is a contributing factor in a large percentage of highway accidents, the police have increased their use of speed-measuring devices as a part of their overall program of detection and apprehension of those violating the speed laws of Virginia. The success of this program is reflected in the decrease in speed-related fatalities from 512 in 1969 to 489 in 1970.

Another factor which appears to have contributed to the reduction in the number of fatalities is the construction of additional interstate and arterial highways. The new construction has resulted in a 38% decrease in head-on collisions from 461 in 1969 to 287 in 1970.

A program of identification and surveillance of high-accident locations by the Highway Department in a special safety improvement project completed in 1968 at 382 points along Virginia's older roads resulted in 41% fewer injury accidents, 44% less property damage, and a reduction in fatalities from 19 to only 1 at these locations since improvements were made. Similar studies and improvements have been initiated at the local level, but statistics are not yet available for the proper evaluation of their effectiveness.

Although there was a 29.1% increase in motorcycle registration from 26,005 in 1970 to 33,583 in 1971, there was a decrease of 40.7% in motorcycle fatalities from 27 in 1970 to only 16 in 1971. Concomitantly, the number of motorcycle accidents decreased by 11.0% from 1,585 in 1970 to 1,411 in 1971.

The impact of additional federal funding for driver education at the high school level seems to be reflected in the decrease in the incidence of young drivers involved in fatal accidents. Of the drivers in the 16-17 age group only 63 were involved in

fatal crashes in 1970 compared with 83 in 1969, a reduction of 24.9%. In a study of the 1970 graduates of high school driver education programs, there was a death rate of 41 per 100,000 drivers in comparison to a death rate of approximately 117 per 100,000 drivers for those young drivers not taking driver education. Adult driver education programs may also have contributed to the reduction in fatalities in Virginia.

A useful method of relating increased highway activity (as reflected in the number of miles traveled and the number of operators) to the frequency of accidents is to examine the death rate (shown in Exhibit 8). The graph shown in Exhibit 8 denotes the downward trend in the death rate per 100 million vehicle miles of travel. The death rate has declined from 5.2 per 100 million vehicle miles of travel in 1965 to 4.3 in 1970 for a decrease of 17.3%, with the greatest reduction being the drop from 4.8 in 1969 to 4.3 in 1970 for a reduction of 10.4% in the last year for which statistics are available. The HSD is projecting a continued decline in the death rate with the projection for 1975 being 3.56 per 100 million vehicle miles of travel.

The interstate system continues as the leader in terms of highway safety in Virginia. In 1970 there were 774 miles of interstate routes open to traffic, or 1.5% of the total mileage under the jurisdiction of the Department of Highways. The interstate system experienced 25% of the travel, 10% of the accidents, 11% of the persons injured, 10% of the persons killed, 14% of the property damage and 6% of the economic loss that occurred on the total highway system under the Virginia Department of Highways. Exhibit 9 is a chart which contains the crash statistics for accidents which occurred on the interstate system. The frequency rates for the interstate system in 1970 were 144 for accidents, 62 for injuries, and 2.1 for deaths per 100 million vehicle miles of travel as compared to arterial and primary systems rates of 354 for accidents,

155 for injuries, and 6.2 for deaths per 100 million vehicle miles. Exhibit 10 illustrates the downward trend in the death rate on the interstate system with a projection that the death rate will continue to decline to a rate of 1.5 deaths per 100 million vehicle miles of travel in 1975.

A summary of accident statistics for the arterial and primary systems in Virginia is shown in Exhibit 11. These systems which includes 7,689 miles of highway, experienced 55% of the travel, 55% of the accidents, 58% of the persons injured, 65% of the persons killed, 57% of the property damage, and 60% of the economic loss that occurred on the highway systems under the Department of Highways. Even though the accident rate in 1970 showed a 2.0% increase over 1969, there was a 3% decrease in the death rate, while the injury rate remained the same. Exhibit 12 is a graph showing the trend in the death rate for the arterial and primary systems in Virginia. The projection is for a continued decline in the death rate to the level of 5.8 deaths per 100 million vehicle miles of travel in 1975.

The secondary system, which is comprised of 41,937 miles of highway, remains the most hazardous of the systems in Virginia. In 1970, the secondary system experienced 20% of the travel, 35% of the reported crashes, 31% of the persons injured, 25% of the persons killed, 29% of the property damage, and 25% of the economic loss. The accident frequency rates were approximately 70% higher than for the primary system and 317% higher than for the interstate system. In 1970 the death rate decreased by 18% from 1969 as there were 41 fewer deaths. The number of pedestrians killed also declined in 1970 to 37 from 47 in 1969.

Exhibit 13 summarizes the accident statistics for the secondary system, and Exhibit 14 depicts the death rate. The projection of the death rate per 100 million vehicle miles of travel is shown in Exhibit 14 to decrease to 5.62 by 1975.

Exhibits 15 through 24 are a series of graphs showing highway accident, injury, and death trends since 1965 with projections through 1975. On all of the graphs, actual numbers are depicted by solid lines while projections are signified by dashed lines.

Exhibit 15 is a graph of all motor vehicle accidents. During the past five years, the average annual increase has been 6.6%. The forecast for the next five years is based on an estimated 6.0% average annual increase. With the increased traffic volume and growing urban congestion, it does not seem likely that the number of reported accidents can be decreased significantly through the highway safety program. However, the emphasis in the highway safety program areas will be on reduction of the severity of traffic accidents, if not the number of occurrences.

Exhibit 16 is a graph of the number of persons injured in highway accidents. The line represented by a single asterisk (*) represents what might be expected to happen in view of the trend over the last 5 years. However, it is thought that the continuance of a 4.3% annual increase in the number of persons injured can be prevented through the proper implementation of the various safety programs. By 1975 the gap between what might be expected without a safety program and what can be expected as a result of a safety program will have grown to approximately 5,500 persons. The line denoted by two asterisks (**) Shows the projection which the HSD believes will approximate the occurrences over the next 5 years.

Exhibit 17 is a graph of the number of injury accidents on the highways, streets, and roads of Virginia. Over the past 5 years, the average annual increase in the number of injury accidents has been 4.4%. However, the projection as shown on the graph by the dashed line is based on a 4.0% annual increase.

Exhibit 18 is a graph of the number of traffic fatalities in Virginia. The average annual increase over the last 5 years has been 3.0%; however, the number of fatalities

declined from 1969 through 1971. It is hoped that this downward trend will continue over the next five years. The projection of 1,165 fatalities in 1975 is a reduction of more that 10% from the peak of 1,304 in 1969.

Exhibit 19 is a graph of the number of fatal traffic accidents in Virginia. This graph is similar to Exhibit 18 which shows the number of fatalities. This similarity should not be surprising since the ratio of fatalities per fatal accident has declined only slightly from 1.205 in 1965 to 1.155 in 1970. The projected reduction in the number of fatal accidents from a peak of 1,117 in 1969 to 1,020 in 1975 represents a decrease of 8.9%.

Exhibit 20 shows that the number of pedestrian injuries in Virginia seems to have reached a peak in 1970. A slight decrease in pedestrian injuries over the next few years is projected but one can not be very sure of the magnitude of the decline since the turning point has just been reached. Exhibit 21 contains two graphs showing urban and rural pedestrian injuries. The projections are that the urban pedestrian injuries will experience a slight decrease, but that the less controllable rural pedestrian injuries will probably continue to rise slightly.

Exhibit 22 shows the alarming increase in pedestrian fatalities. From experience it appears that the number of pedestrian fatalities will be leveling off in the next few years. Exhibit 23 shows the rising trend in urban pedestrian deaths while Exhibit 24 shows that the number of rural pedestrian deaths has stabilized at around 135 per year.

Exhibits 25 through 28 are one-year forecasts of persons injured, injury accidents, fatalities, and fatal accidents which have been developed by using linear regression analysis based on the vehicle miles of travel. The projection of the number of persons injured as shown on Exhibit 25 is 48,973 for 1971. The coefficient of correlation of .985 is well above the .92 necessary at the 99% confidence level. Exhibit 26 projects the number of injury accidents to be 32,551 in 1971. The coefficient of correlation of

.988 is also greater than the .92 necessary at the 99% confidence level. Exhibit 27 projects the number of fatalities to be 1,290 in 1971. The coefficient of correlation of .867 is not significant at the 99% level, but is above the .81 required at the 95% confidence level. In this case it is fortunate that the situation is changing so that there is no longer a need to correlate fatalities so closely to the miles of travel. Exhibit 28 projects the number of fatal accidents to be 1,113 in 1971. The coefficient of correlation of .935 is significant at the 99% level, but it is lower than the coefficient of correlation for injuries and injury accidents. Thus it appears that when the vehicle miles of travel increase, they may be followed closely by increases in the number of accidents and injuries, but fortunately the number of fatal accidents and fatalities do not rise as much.

A summary of the long-range projections for injury accidents, injuries, fatal accidents, and fatalities is shown in Exhibit 29. These figures have been previously reflected in Exhibits 16 through 19. It is not believed that these figures actually represent as accurate a group of forecasts as the short-range forecasts developed by the linear regression technique, but it is believed that they will serve to indicate the general long-term nature of accident trends over the next five years.

Expenditure of Federal Funds for Highway Safety in Virginia

The distribution of federal funds from the inception of the program in Virginia is found in Exhibits 30 - 34. For all years, with the exception of the first year, more than 40% of the federal funds have been spent by the political subdivisions. The exception in the first year was approved by the National Highway Traffic Safety Administration.

Program Priorities

More than \$4.4 million in federal funds has been programmed for fiscal year 1973, but it is recognized that less than this amount will probably be allocated by the NHTSA. Accordingly, it has been incumbent upon the administrators of the Highway Safety Division of Virginia to establish program priorities so that such funds as are made available can be employed in areas that will achieve maximum effectiveness. Exhibit 35 shows the programs that have been selected in accordance with the twelve criteria given below for funding at ten separate funding levels. Exhibit 35 shows what Virginia intends to allocate to each standard area depending on the amount of 402 funds received from the federal government. The request schedule in Exhibit 35 will allow the available funds to be distributed on a priority basis much more expeditiously than before. Also local jurisdictions and state agencies can ascertain whether they will receive 402 funding in fiscal year 1973 or will have to wait until fiscal year 1974.

A breakdown of tasks to be funded by standard area according to the two levels of funding anticipated from the NHTSA is shown in Exhibit 36. These tasks could change according to the state and local budgets being adopted.

Criteria for Determining Priorities

The following 12 criteria are used by the HSD when determining where federal funds will be expended.

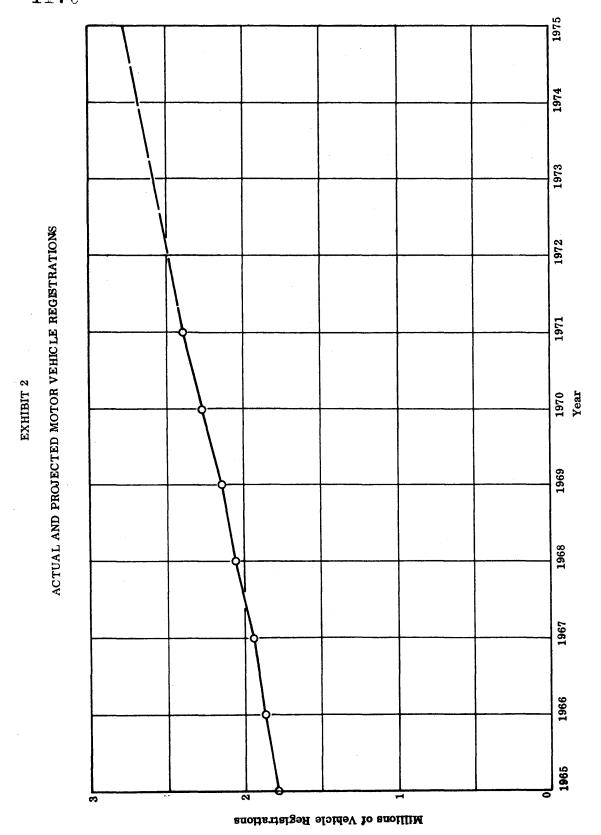
- (1) Amount of money required and percent of total funds received by state.
- (2) Predicted accident reductions by types.
- (3) Return on investment using average accident figures.
- (4) Accident reductions required to break even.
- (5) Method proposed for determining the effectiveness of the program in both management and its impact on highway safety.
- (6) Probability that the program will be successful.

- (7) Length of program.
- (8) Time lag between expenditure of funds and benefit derived.
- (9) Newness and innovations of program by type will it develop a new technique for promoting highway safety.
- (10) Short-and long-range impact and fit with goals and objectives of the state's comprehensive program.
- (11) Percent of the state services volume and coverage.
- (12) Compliance in particular standard area.

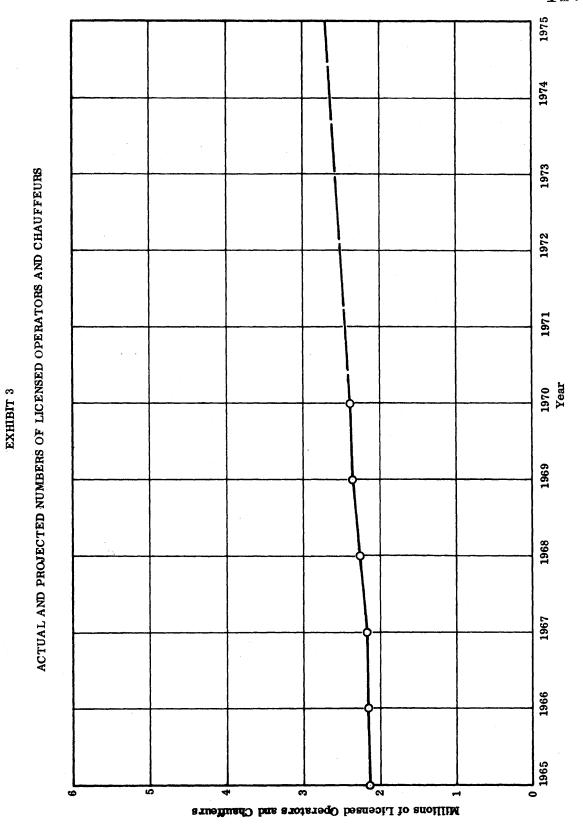
EXHIBIT 1

NUMBER OF MOTOR VEHICLE REGISTRATIONS AND LICENSED OPERATORS AND CHAUFFEURS

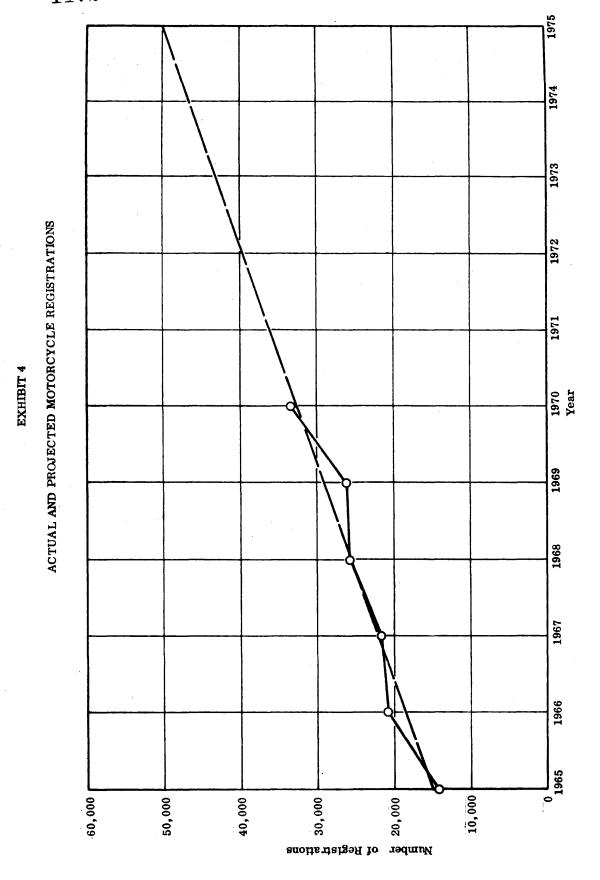
Year	Motor Vehicle Registrations	Total Licensed Operators
1965	1,794,037	2,134,416
1966	1,868,932	2, 152, 422
1967	1, 936,770	2,177,067
196 8	2,048,997	2,266,975
1969 .	2, 155, 872	2,331,539
1970	2,260,314	2,347,500



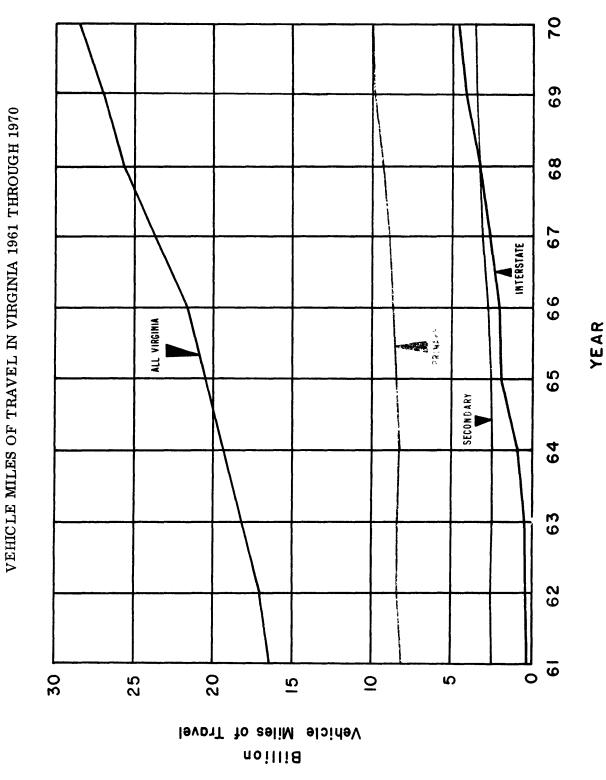
III-14



III-15



III-16



Source: Summary of Accident Data, State Highway Systems, Calendar Year 1970, Virginia Department of Highways Richmond, Virginia (November 1971) p. 12.

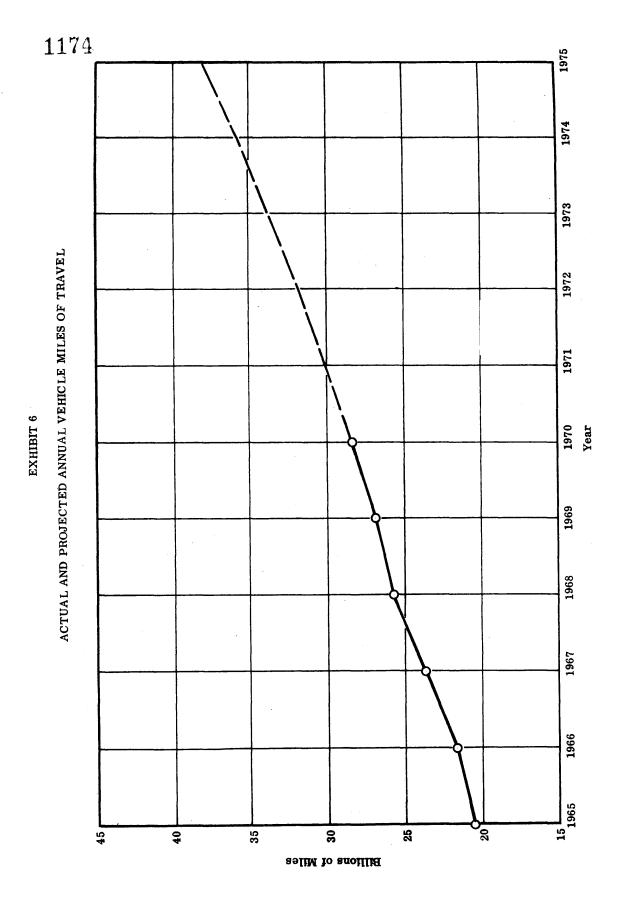


EXHIBIT 7

													•
	INJURED (INCL. INJURED (INCL. INJURED (INCL.	2,224	2,343	2,377	2,520	2,427	2,521	2,514	2,535	2,500	2,609	4. 36	
1970	KIFTED (INCF) IN BERSONS LEDESTRIPNS	157	205	163	185	163	182	217	232	241	240	-0.41	
1961 -	HTA30 STA3	5.3	5.7	5.4	5.5	5.2	5.1	5.2	4.8	4.8	4.3	-10.42	
YEARS 1	INJURK RATE	180	195	193	204	191	193	182	178	178	170	-4.49	
— YE.	ACC IDENT RATE	527	553	541	569	541	537	697	740	488	787	-1.23	
AND ROADS	FORZ ECONOMIC	\$145,520,000	175,300,000	178,000,000	189,000,000	191,000,000	200,000,000	230,000,000	245,000,000	265,000,000	270,000,000	+1.89	**DATA UNAVATLABLE
STREETS A	AMOUNT OF PROPERTY DAMAGE	\$26,652,400	30,100,000	31,600,000	35,000,000	36,000,000	37,000,000	37,000,000	43,500,000	‡	‡	,	**DAT
3HWAYS,	TOTAL	85,508	94,051	98,816	109,336	111,179	116,275	111,061	120,437	131,599	136,923	+4.05	
VIRGINIA HIGHWAYS	PROPERTY PAMAGE PROPERTS	65,481	71,538	74,908	82,788	84,219	87,606	81,313	89,255	98,636	103,561	+4.99	STATE POLICE
ALL VIR	IN TO KED	29,237	33,143	35,309	39,246	39,263	41,849	43,122	45,693	48,050	48,354	+0.63	₽ B
- 1	INJURY ACC IDENTS	19,300	21,687	23,088	25,677	26,079	27,761	28,743	30,146	31,846	32,296	+1.41	- DEPARTMENT
YEARS	KIFIED LEKZONZ	856	974	686	1,050	1,062	1,106	1,223	1,218	1,304	1,231	-5.60	CRASH FACTS"
RY BY	FATAL ACCIDENTS	727	826	820	871	881	806	1,005	1,036	1,117	1,066	-4.57	
ACCIDENT SUMMARY	ANNUAL VEHICLE TRAVEL (THOUSANDS)	16,234,000	17,018,400	18,277,700	19,210,100	20,550,100	21,640,000	23,659,000	25,614,000	26,951,000	28,418,000	+5.44	*DATA OBTAINED FROM "VIRGINIA TRAFFIC SOURCE: Ibid., p. 13.
ACCIL	nites In Iencth	56,882	56,204	57,436	58,404	58,875	59,319	59,781	60,428	60,705	61,136	+0.61	OBTAINED FRC 'Ce: Ibid.
	XEVE	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	PERCENT CHANGE 1970 OVER 1969	*DATA Sour

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ACTUAL AND PROJECTED HIGHWAY DEATH RATES EXHIBIT 8

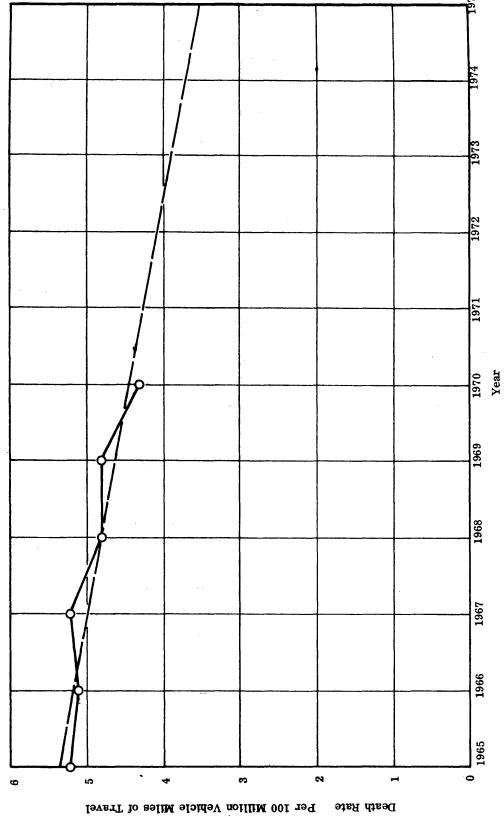


EXHIBIT 9

ACCIDENT SUMMARY BY YEARS — INTERSTATE SYSTEM — YEARS 1961 - 1970

DEATH PATE	5.1	1.8	3,1	3.2	3.5	3.7	3.8	2.6	2.8	2.1	-25.00
INJURY RATE	7.0	91	77	73	79	9/	89	69	67	62	+1.41 -7.46
ACC IDENT RATE	153	203	179	160	173	158	141	143	142	144	+1.41
AMOUNT OF PROPERTY DAMAGE	\$ 427,200	654,300	672,200	1,248,569	2,271,200	3,089,400	4,021,800	4,624,627	5,255,359	6,069,220	+15.49
TOTAL ACC IDENTS	626	066	1,158	1,852	3,662	4,111	4,416	5,373	6,199	6,729	48°55°
DENDERTY PROPERTY	442	669	821	1,284	2,596	2,838	2,958	3,684	4,309	4,774	+10.79
INDOKED LEKSONS	286	442	497	678	1,664	1,984	2,126	2,582	2,913	2,914	+0°03
VCCIDENLS INDDEN	168	282	320	536	1,014	1,200	1,366	1,600	1,782	1,871	66.74
KIFTED LEKSONS	21	6	20	37	73	96	118	98	122	97	-22,22 -20,49 +4,999
VCC IDEMIZ EVIVT	16	6	17	32	52	73	92	89	108	78	-22.22
ANNUAL VEHICLE MILES OF TRAVEL (THOUSANDS)	409,611	486,915	647,580	1,159,540	2,115,429	2,586,804	3,123,253	3,759,050	4,354,250	4,682,993	+7.55
IN IN WIFES	126,36	142,86	216.69	365.70	468.62	557,21	626.96	666.28	693.78	774.00	+11.56
ХЕ <i>Ч</i> К	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	PERCENT CHANGE 1970 OVER 1969

Source: Ibid., p. 19.

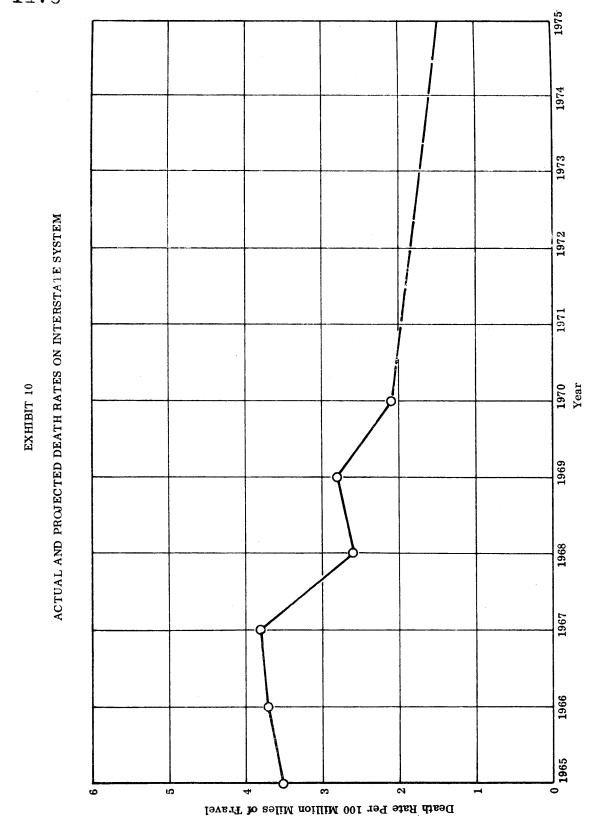


EXHIBIT 11

ACCIDENT SUMMARY BY YEARS — ARTERIAL AND PRIMARY SYSTEM — YEARS 1961 - 1970

INJURY DEATH RATE	147 6.3	163 7.0	156 7.0	171 7.1	157 6.4	161 6.5	158 6.9	157 6.6	155 6.4	155 6.2	0.00 -3.12
ACCIDENT RATE	319 1	343 1	321 1	359 1	350 1	349 1	328 1	331 1	347 1	354 1	+2.02 0
AMOUNT OF YFRETY SAMAG	\$13,054,300	14,793,600	14,767,400	15,984,200	16,223,900	16,761,400	18,204,700	19,726,760	23,101,690	24,644,791	. 89*9+
TOTAL	26,349	28,827	27,145	29,746	29,417	30,391	29,454	31,429	34,617	35,617	+2.89
PROPERTY DAMAGE ACCIDENTS	18,714	20,190	18,868	20,837	20,905	21,386	20,165	21,738	24,463	25,403	+3.84
INTOKED	12,139	13,727	13,186	14,199	13,234	13,974	14,191	14,950	15,483	15,544	+0.39
INJURY ACCIDENTS	7,210	8,163	7,810	8,447	8,078	8,540	8,797	9,176	9,625	9,703	+0.81
KITTED LEKSONS	522	591	593	589	539	995	618	628	638	620	-2.19
FATAL ACCIDENTS	425	717	795	462	434	465	492	515	529	511	-3.40
VANUAL VEHICLE VEHICLE TRAVEL ANNUAL	8,261,576	8,395,817	8,463,857	8,283,656	8,410,173	8,695,925	8,983,525	9,495,714	9,968,172	10,060,743	+0.93
WITES IN TENCLH	7,782.59	7,753.10	7,605.65	7,606.43	7,622.43	7,629.87	7,643.09	7,670,97	7,682.12	7,688.87	60.0+
ХЕ У К	1961	1962	1963	1964	1965	1966	1961	1968	1969	1970	ERCENT CHANGE 1970 OVER 1969

Source: Ibid., p. 46.

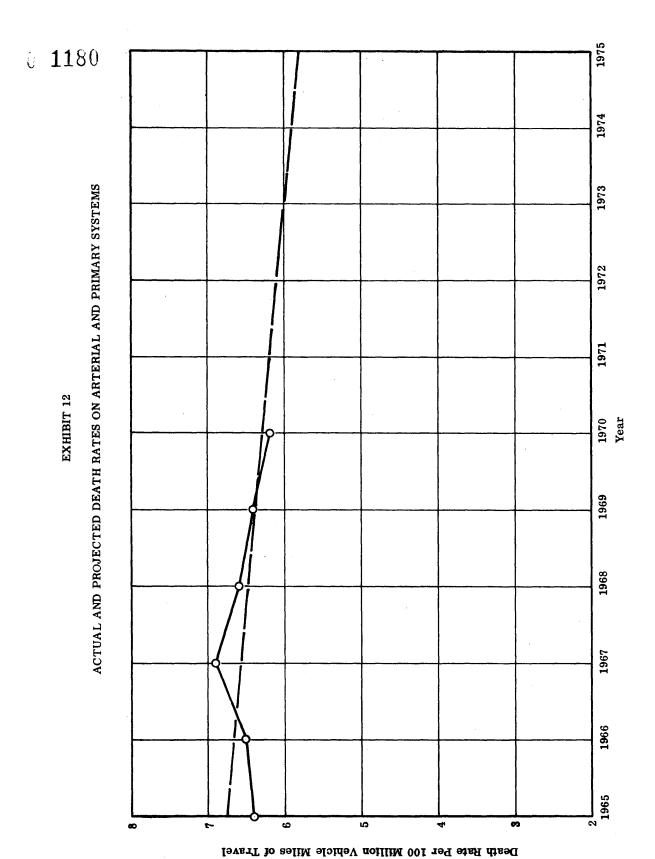
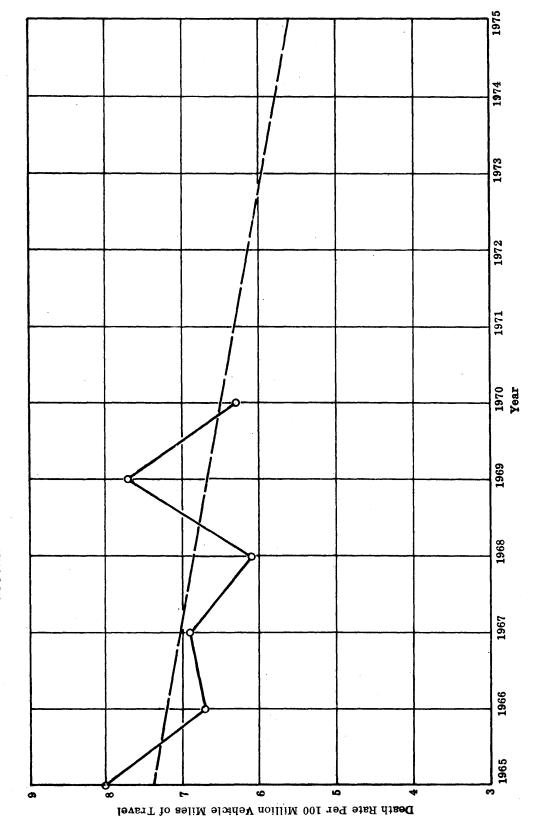


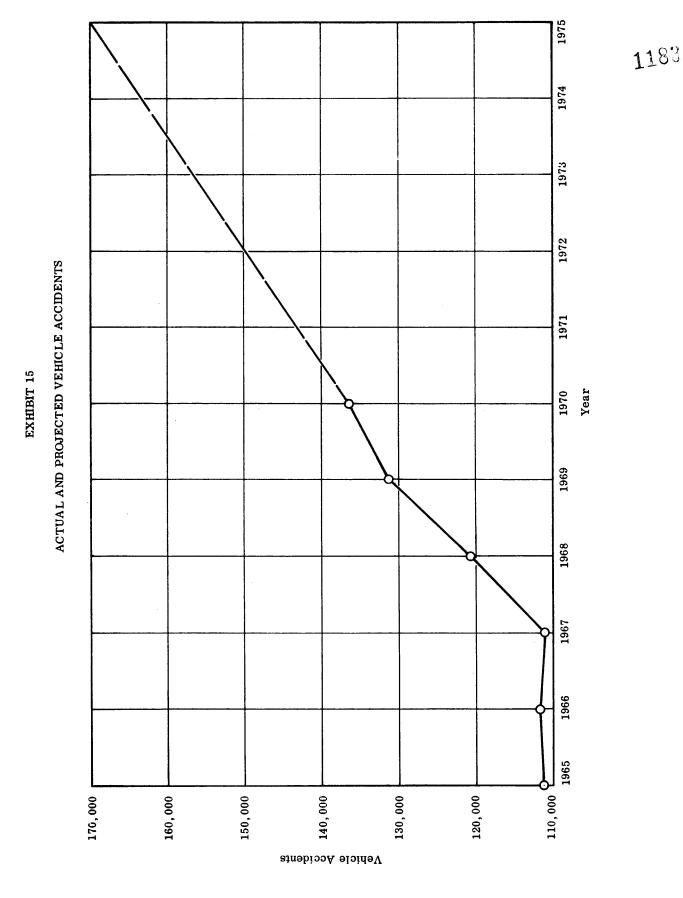
EXHIBIT 13

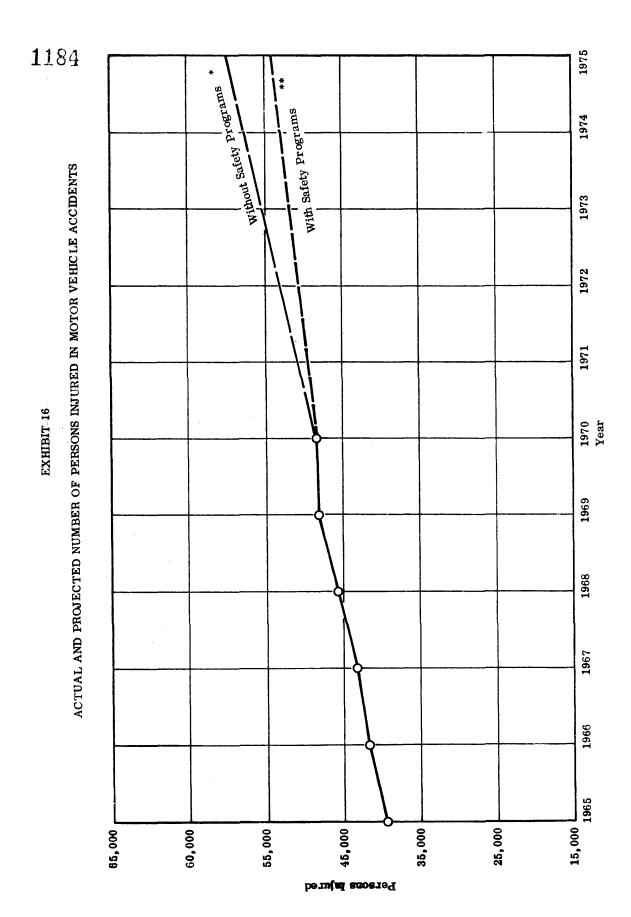
ACCIDENT SUMMARY BY YEAR — SECONDARY SYSTEM — YEARS 1963 - 1970

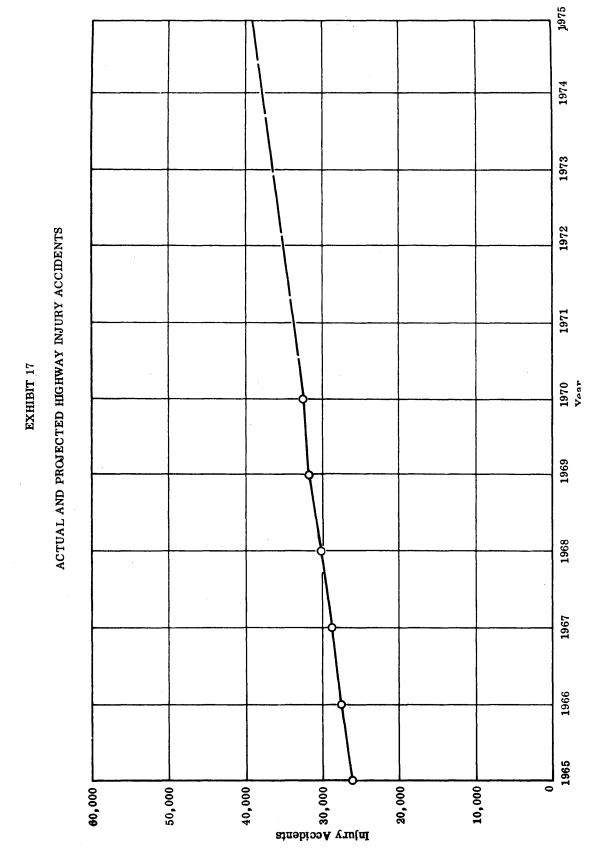
DEATH RATE	6.7	7.0	8.0	6.7	6.9	6.1	7.7	6.3	-4.62-18.18	
INJURY RATE	238	239	242	248	237	244	238	227	-4.62	
PCCIDENT PACE	280	591	209	617	246	594	597	601	+0.67	
AMOUNT OF DAMAGE	\$ 5,624,108	6,087,404	7,047,531	8,011,614	7,956,554	9,915,392	11,659,717	12,324,991	+5.71	
TOTAL	14,330	15,280	16,903	18,372	17,460	19,719	21,288	22,313	+4.81	
PROPERTY DAMAGE ACCIDENTS	10,363	11,000	12,237	13,276	12,231	14,063	15,309	16,316	+6.58	
IN 1 N BED LE BE SONS	5,885	6,183	6,748	7,390	7,579	8,110	8,500	8,434	-0.78	
VCCIDENI2 INTOKK	3,820	4,125	4,478	4,933	5,044	5,474	5,737	5,792	+0.96	
KIFFED BEBRONR	166	182	222	199	222	201	276	235	-14.86	
FATAL ACCIDENTS	147	155	188	163	185	182	242	205	-15.29 -14.86	
ANNUAL TRAVEL OF	2,469,417	2,583,456	2,786,025	2,978,196	3,195,943	3,320,096	3,568,331	3,711,240	+4.00	
WITES IN TENCLH	41,521.42	41,515.73	41,673.26	41,865.87	41,983.89	41,838.89	41,971.36	41,937.35	-0.08	
YEAR	1963	1964	1965	1966	1967	1968	1969	1970	PERCENT CHANGE 1970 0VER 1969 Source: Ibid., p. 133	



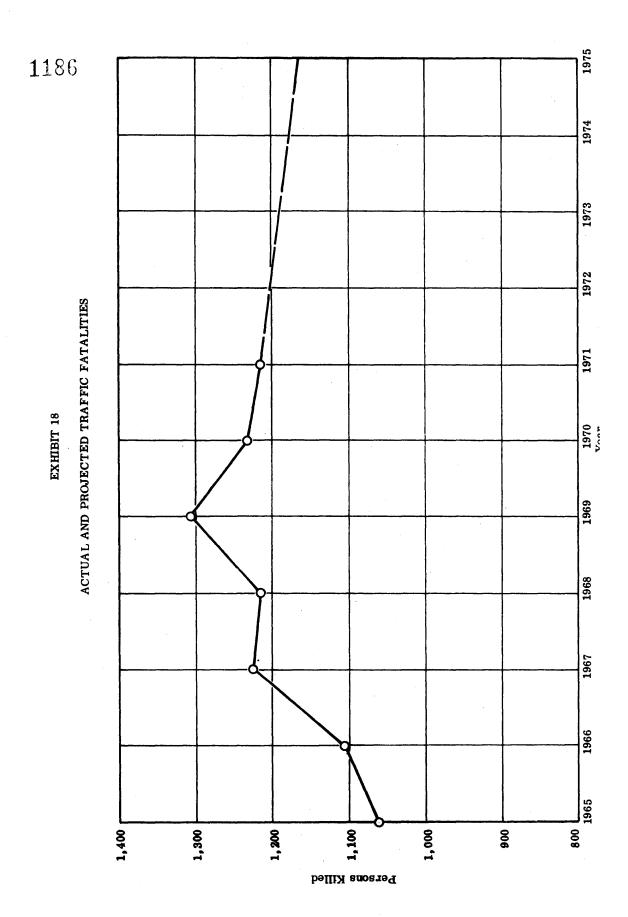


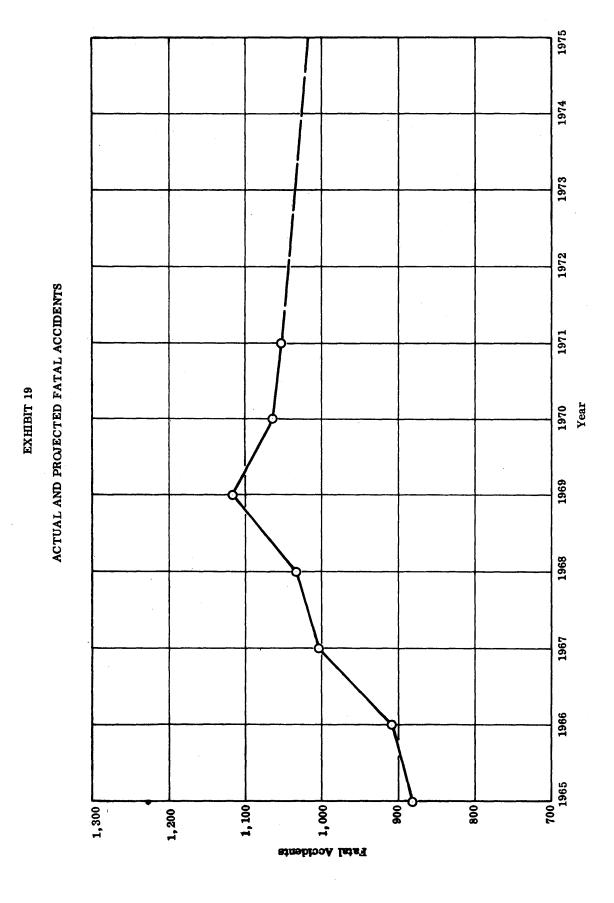






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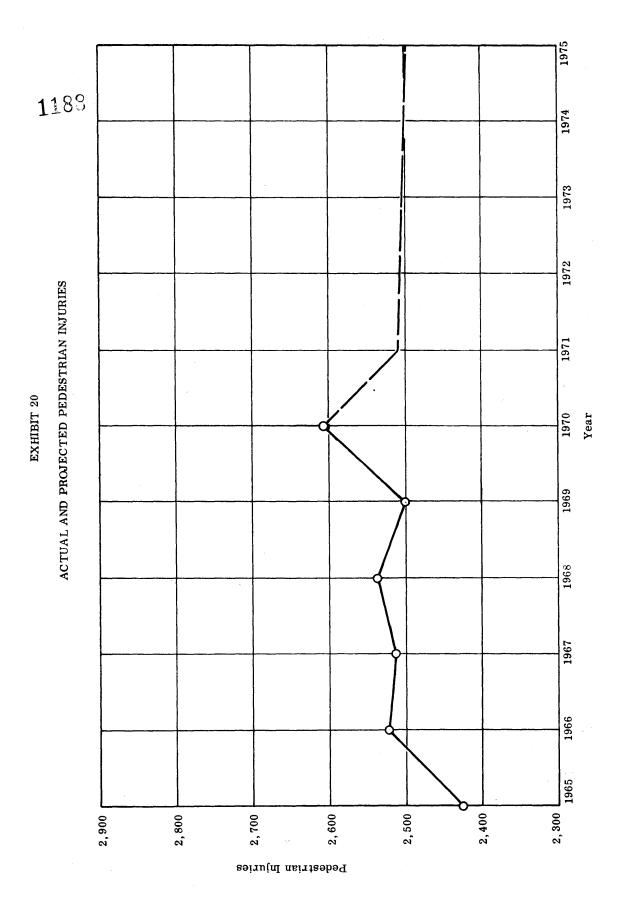
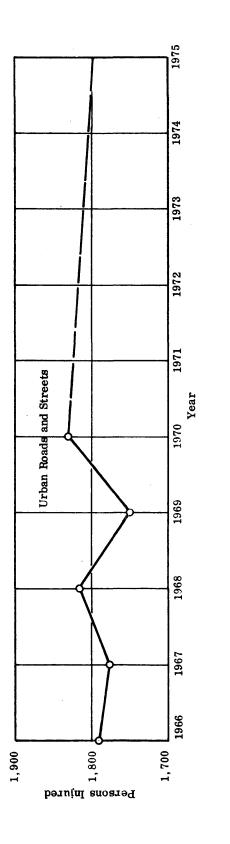
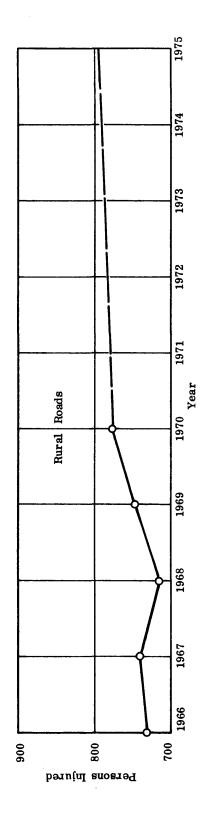
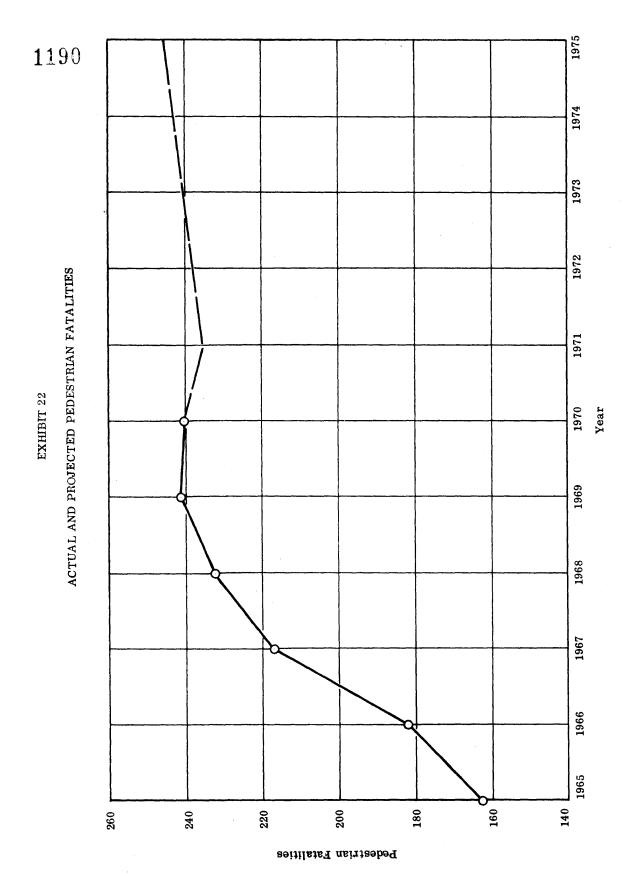


EXHIBIT 21

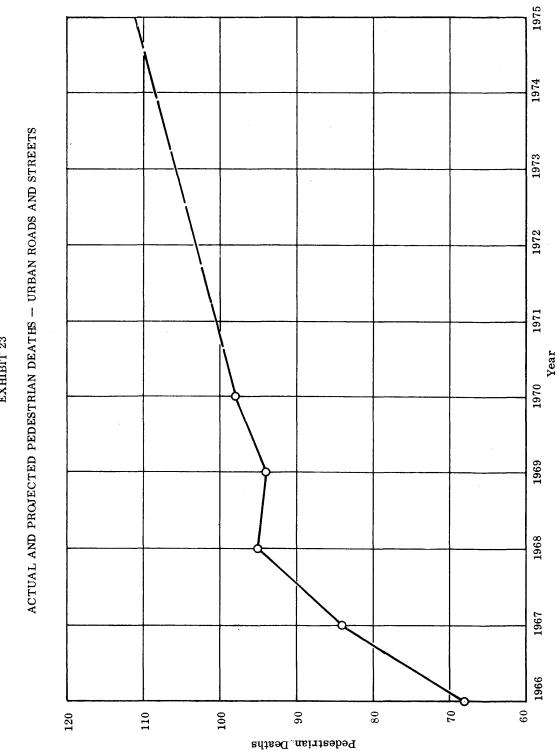
ACTUAL AND PROJECTED PEDESTRIAN INJURIES





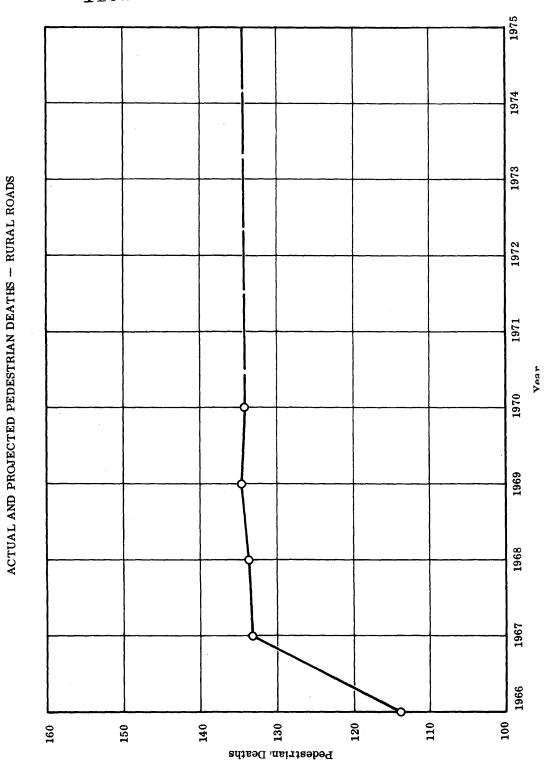






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EXHIBIT 24



LINEAR REGRESSION EQUATION OF VEHICLE MILES OF TRAVEL AND PERSONS INJURED TO PROJECT THE NUMBER OF PERSONS INJURED FOR 1971 USING THE LEAST SQUARES TECHNIQUE

THE REGRESSION EQUATION IS:

 $Y = 16043 \cdot 6 + 1158 \cdot 27 X$

STATISTICS OF THE SAMPLE

COEFFICIENT OF CORRELATION = .984613

THERE IS A -

0.05 PROBABILITY THAN AN R OF .81 WILL OCCUR RANDOMLY

0.01 PROBABILITY THAT AN R OF .92 WILL OCCUR RANDOMLY

COEFFICIENT OF DETERMINATION = .969462 STANDARD ERROR OF ESTIMATE OF THE POPULATION = 705.298

UNASSOC SUM OF SQUARES = 1.98977 E 6 TOTAL SUM OF SQUARES= 65157328 T-STATISTIC= 11.2687 DEG. OF FREEDOM= 4

DO YOU WANT A FULL PRINTOUT OR PROJECTION'S ONLY 1 = FULL PRINT, O=PROJECTIONS, 2=STOP PROGRAM ? 1

INDEPENDENT VARIABLE [X] DATA:

MEAN = 24.4717

STANDARD DEVIATION = 3.06868

DEPENDENT VARIABLE [Y] DATA: MEAN = 44388.5

STANDARD DEVIATION = 3609.91

S.E.P. = STANDARD ERROR OF ANY POINT ON REGRESSION LINE

x-ACTUAL	Y-ACTUAL	Y-FOR	[A-F]/F	FOR/ACT	S.E.P.
			LH-FJ/F	FORFACI	3 · E • P •
20 • 55	39263	39846•1	0147	1.01485	495•372
21 • 64	41849	41108•7	•018	•982309	409 • 417
23 • 66	43122	43448•4	0076	1.00757	299.78
25.61	45693	45707 •	0004	1.00031	310.802
26.95	48050	47259 • 1	•0167	• 98354	384 • 447
28 • 42	48354	48961 • 7	0125	1.01257	497.605

PROJECTIONS

95 PCT. CONFIDENCE INTERVAL = PROJECTION + OR - 2 STANDARD ERRORS

I NDEPENDENT

VARIABLE 1971 PROJECTION

95 PCT. CONFIDENCE INTERVAL

28.43

48973.3

47246. -- 50700 • 6

1194

EXHIBIT 26

LINEAR REGRESSION EQUATION OF VEHICLE MILES OF TRAVEL AND INJURY ACCIDENTS TO PROJECT INJURY ACCIDENTS FOR 1971 USING THE LEAST SQUARES TECHNIQUE

THE REGRESSION EQUATION IS:

 $Y = 10485 \cdot + 776 \cdot 142 X$

STATISTICS OF THE SAMPLE

COEFFICIENT OF CORRELATION = .988341

THERE IS A -

0.05 PROBABILITY THAN AN R OF .81 WILL OCCUR RANDOMLY

0.01 PROBABILITY THAT AN R OF .92 WILL OCCUR RANDOMLY

COEFFICIENT OF DETERMINATION = .976819 STANDARD ERROR OF ESTIMATE OF THE POPULATION = 410.213

UNASSOC SUM OF SQUARES= 673099.
TOTAL SUM OF SQUARES= 29036288
T-STATISTIC= 12.9828 DEG. OF FREEDOM= 4

DO YOU WANT A FULL PRINTOUT OR PROJECTIONS ONLY FFULL PRINT, 0=PROJECTIONS, 2=STOP PROGRAM ?1

INDEPENDENT VARIABLE [X] DATA:

MEAN = 24.4717

STANDARD DEVIATION = 3.06868

DEPENDENT VARIABLE (Y) DATA:

MEAN = 29478.5

STANDARD DEVIATION = 2409.83

 $S \cdot E \cdot P \cdot$ = STANDARD ERROR OF ANY POINT ON REGRESSION LINE

X-ACTUAL	Y-ACTUAL	Y-FOR	[A-F]/F	FOR/ACT	5 • E • P •
20.55	26079	26434.7	0135	1.01364	288 - 116
21.64	27761	27280•7	•0176	•982 7	238 • 123
23.66	28743	28848 • 5	0037	1.00367	174.357
25.61	30146	30362•	0072	1.00717	180 - 767
26.95	31846	31402•	•0141	•986059	823 • 601
28.42	32296	32543 •	0076	1.00765	289 • 415

PROJECTIONS

95 PCT. CONFIDENCE INTERVAL = PROJECTION + OR - 2 STANDARD ERRORS

INDEPENDENT

VARIABLE 1971 PROJECTION

95 PCT. CONFIDENCE INTERVAL

28.43

<u> 32550 • 7</u>

31546.1 -- 33555.4

EXHIBIT 27

LINEAR REGRESSION EQUATION OF VEHICLE MILES OF TRAVEL AND FATALITIES TO PROJECT THE NUMBER OF VEHICLE FATALITIES FOR 1971 USING THE LEAST SQUARES TECHNIQUE

THE REGRESSION EQUATION IS:

Y = 572.515 + 25.2599 X

STATISTICS OF THE SAMPLE

COEFFICIENT OF CORRELATION = .866774

THERE IS A -

0.05 PROBABILITY THAN AN R OF .e1 WILL OCCUR RANDOMLY

0.01 PROBABILITY THAT AN R OF .92 WILL OCCUR RANDOMLY

COEFFICIENT OF DETERMINATION = .751298 STANDARD ERROR OF ESTIMATE OF THE POPULATION = 49.8621

UNASSOC SUM OF SQUARES= 9944.91 TOTAL SUM OF SQUARES= 39987.3 T-STATISTIC= 3.47613 DEG. OF FREEDOM= 4

DO YOU WANT A FULL PRINTOUT OR PROJECTIONS ONLY 1=FULL PRINT, 0=PROJECTIONS, 2=STOP PROGRAM 71

INDEPENDENT VARIABLE [X] DATA:

MEAN = 24.4717

STANDARD DEVIATION = 3.06868

DEPENDENT VARIABLE [Y] DATA:

MEAN = 1190.67

STANDARD DEVIATION = 89.4286

S.E.P. = STANDARD ERROR OF ANY POINT ON REGRESSION LINE

X-ACTUAL	Y-ACTUAL	Y-FOR	[A-F]/F	FOR/ACT	S.E.P.
20.55	1062	1091 • 61	0272	1.02788	35.0211
21.64	1106	1119•14	0118	1.01188	28.9443
23.66	1223	1170 • 16	•0451	•956798	21.1934
25.61	1218	1219.42	0012	1.00117	21.9726
26.95	1304	1253.27	•0404	•961096	27.1791
28.42	1231	1290•4	0461	1.04825	35 • 1789

PROJECTIONS

95 PCT. CONFIDENCE INTERVAL = PROJECTION + OR - 2 STANDARD ERRORS

I NDEPENDENT

VARIABLE 1971 PROJECTION 95 PCT. CONFIDENCE INTERVAL

28.43 1290.65 1168.54 -- 1412.77

1196

EXHIBIT 28

LINEAR REGRESSION EQUATION OF VEHICLE MILES OF TRAVEL AND FATAL ACCIDENTS TO PROJECT THE NUMBER OF FATAL ACCIDENTS IN 1971 USING THE LEAST SQUARES TECHNIQUE

THE REGRESSION EQUATION IS:

Y = 318.873 + 27.9218 X

STATISTICS OF THE SAMPLE

COEFFICIENT OF CORRELATION = .935293

THERE IS A -

0.05 PROBABILITY THAN AN R OF .81 WILL OCCUR RANDOMLY

0.01 PROBABILITY THAT AN R OF .92 WILL OCCUR RANDOMLY

COEFFICIENT OF DETERMINATION = .874773 STANDARD ERROR OF ESTIMATE OF THE POPULATION = 36.2453

UNASSOC SUM OF SQUARES= 5254.88
TOTAL SUM OF SQUARES= 41962.8
T-STATISTIC= 5.28601 DEG. OF FREEDOM= 4

DO YOU WANT A FULL PRINTOUT OR PROJECTIONS ONLY 1=FULL PRINT, 0=PROJECTIONS, 2=STOP PROGRAM ?1

INDEPENDENT VARIABLE [X] DATA:

MEAN = 24.4717

STANDARD DEVIATION = 3.06868

DEPENDENT VARIABLE [Y] DATA:

 $MEAN = 1002 \cdot 17$

STANDARD DEVIATION = 91.611

S.E.P. = STANDARD ERROR OF ANY POINT ON REGRESSION LINE

X-ACTUAL	Y-ACTUAL	Y-FOR	[A-F]/F	FOR/ACT	S • E • P •
n20 • 55	881	892 • 667	0131	1.01324	25.4572
21 • 64	908	923 • 101	-•0164	1.01663	21.04
23.66	1005	979 • 503	•026	•97463	15.4057
25.61	1036	1033.95	•0019	•998022	15.9721
26.95	1117	1071 • 37	•0425	•959146	19.7568
28 • 42	1066	1112-41	0418	1.04354	25.5719

PROJECTIONS

95 PCT. CONFIDENCE INTERVAL = PROJECTION + OR - 2 STANDARD ERRORS

I NDEPENDENT

VARIABLE 1971 PROJECTION 95 PCT. CONFIDENCE INTERVAL

28.43 1112.69 1023.92 -- 1201.46

EXHIBIT 29
SUMMARY OF PROJECTED HIGHWAY CRASH STATISTICS

Year	Activity	Projections
1971	Injury Accidents	33,5 88
13/1	•	•
	Injuries	50,288
	Fatal Accidents	1,053
	Fatalities	1,215
1972	Injury Accidents	34,931
	Injuries	52,300
	Fatal Accidents	1,045
	Fatalities	1,200
1973	Injury Accidents	36,329
	Injuries	54,392
	Fatal Accidents	1,035
	Fatalities	1,190
1974	Injury Accidents	37,782
	Injuries	56,567
	Fatal Accidents	1,025
	Fatalities	1,175
1075	Turburu A + 1	20.000
1975	Injury Accidents	39,293
	Injuries	58,830
	Fatal Accidents	1,020
	Fatalities	1,165

DISTRIBUTION OF FEDERAL FUNDS FOR FY 1968

Standard 300 - Planning and Administration

Subdivision or Agency	Amount
Virginia Traffic Safety Study Commission Virginia Highway Research Council Virginia State Police	\$ 7,019.60 11,375.38 3,117.35
Total Federal Funding - 300	\$ 21,512.33
Standard 304 - Driver Education	
Portsmouth	\$ 55,994.75
Virginia Beach	62,382.79
Total Federal Funds to localities - 304	118,377.54
Department of Education	3,500.00
Total Federal Funding - 304	\$121,877.54
Standard 307 - Traffic Courts	
Virginia Highway Research Council	\$ 3,150.00
Total Federal Funding - 307	\$ 3,150.00
Standard 310 - Traffic Records	
Division of Motor Vehicles	\$344, 454. 48
Total Federal Funding - 310	\$344.454.48
Standard 311 - EMS	
Department of Health	\$ 56,400.00
Total Federal Funding - 311	\$ 56,400.00
Total Federal Funding to localities	\$118,377.54
Total Federal Funds for FY 1968	\$547,394.35

EXHIBIT 31 1199

DISTRIBUTION OF FEDERAL FUNDS FOR FY 1969

Standard 300 - Planning and Administration

Subdivision or Agency	Amount
Virginia Highway Safety Division	\$115,847.00
Total Federal Funds -300	\$115,847.00
Standard 304 - Driver Education	
Albemarle County	\$ 19,295.81
Alleghany County	350.00
Arlington County	90,842.00
Bristol City	565.00
Chesapeake City	135,735.00
Clifton Forge City	17,293.00
Danville City	16,152.85
Fairfax City	9,250.00
Fairfax County	97,203.17
Fauquier County	2,000.00
Fluvanna County	1,370.00
Franklin County	696.09
Hampton City	7,156.75
Henrico County	198,743.87
Martinsville City	21,062.50
Patrick County	100.00
Portsmouth City	88, 184.25
Prince Edward County	1,000.00
Prince William County	15,750.00
Richmond City	113,857.00
Roanoke City	22,739.00
Stafford County	3,000.00
Virginia Beach City	12,600.00
Total Federal Funds to localities - 304	\$874,946.29
State Department of Education	19,408.80
Total Federal Funding - 304	\$894,355.09

EXHIBIT 31 (continued)

Standard 308 - Alcohol in Relation to Highway Safety

Subdivision or Agency	Amount
State Department of Health	\$ 14,600.00
Total Federal Funding - 308	\$ 14,600.00
Standard 309 - Identification and Surveillance of Acciden	t Locations
City of Richmond	\$ 1,522.57
City of Richmond	2,809.99
Albemarle County	250.00
Gloucester County	850.00
Prince Edward County	200.00
Total Federal Funding to localities - 309	\$ 5,632.56
Standard 310 - Traffic Records	
City of Riebmond	\$ 18,728.50
Arlington County	8,857.00
Total Federal Funding to localities - 310	27,585.50
Highway Safety Division	87,000.00
Division of Motor Vehicles	15,959.72
Total Federal Funding - 310	\$130,545.22
Standard 311 - EMS	
Brunswick County	\$ 4,709.00
Bristol City	16,300.00
Danville City	6,649.97
Dickenson County	2,509.64
Dinwiddie County	5,350.00
Emporia City	1,125.00
Franklin County (Boones Mill)	1,508.51
Franklin County	2,718.30
Giles County	2,750.00

EXHIBIT 31 (continued)

Standard 311 - EMS (continued)

Subdivision or Agency	Amount
Hanover County	\$ 4,000.00
King George County	128.00
Lexington City	625.00
Lunenburg County	6,000.00
Middlesex County	4,901.26
Page County	11,427.58
Petersburg City	4,951.00
Prince Edward County	400.00
Prince William County	7,600.00
Southampton County	11,455.77
Total Federal Funds to localities - 311	95, 109. 03
State Department of Health	62,028.00
Total Federal Funding - 311	\$157,137.03
Standard 315 - Police Traffic Services	
Albemarle County	\$ 2,500.00
Charlottesville City	4,371.00
Henrico County	21,895.95
Portsmouth City	65,093.00
Richmond City	5,800.00
Total Federal Funding to localities - 315	\$ 99,659.95
Total Federal Funding to localities	\$1,102,933.33
Total Federal Funding for FY 1969	\$1,417,776.85

1202 distribution of federal funds for fy 1970

Standard 300 - Planning and Administration

Subdivision or Agency	Amount
Virginia Highway Safety Division	\$179,000.00
Total Federal Funds - 300	\$179,000.00
Standard 304 - Driver Educa	tion
Bath County	\$ 7,250.00
Bedford County	7,116.64
Bristol City	1,130.00
Charlottesville City	27,000.00
Clarke	21,757.42
Dinwiddie County	5,896.97
Franklin City	610.00
Franklin County	250.00
Galax City	48,034.00
Giles County	1,501.50
Gloucester County	11, 180.47
Grayson County	6,265.56
Grayson County	6,777.06
Hampton City	42,000.00
Louisa County	15,767.50
Lynchburg City	27,436.50
Mathews County	4,914.32
New Kent County	3,476.00
Newport News City	38,250.00
Page County	4, 117. 11
Pulaski County	3,516.00
Richmond County	4,650.00
Southampton County	7,000.00
Staunton City	33,461.00
Virginia Beach	100,000.00
Waynesboro City	6,369.48
Westmoreland County	6,425.00
Wise County	16,000.00
Wythe County	500.00
York County	49,262.50

Total Federal Funds to Localities - 304

\$507,915.03

Standard 304 - continued

Subdivision or Agency	Amount
Department of Professional and Occupational Registration Virginia State College State of Virginia	\$ 500.00 22,200.00 23,135.42
Total Federal Funding - 304	\$553,750.45
Standard 306 - Codes and Laws	
Virginia Highway Safety Division	\$ 3,000.00
Total Federal Funding - 306	\$ 3,000.00
Standard 307 - Traffic Courts	
Virginia Highway Safety Division	\$ 48,150.00
Total Federal Funding - 307	\$ 48,150.00
Standard 309 - Identification and Surveillance of Accident	Locations
Staunton City	\$ 1,650.00
Total Federal Funds to localities - 309	\$ 1,650.00
Standard 310 - Traffic Records	
Newport News	\$ 14,400.00
Total Federal Funds to localities - 310	14,400.00
Virginia Highway Safety Division	10,000.00
Total Federal Funds - 310	\$ 24,400,00

Standard 311 - EMS

Subdivision or Agency	Amount
Augusta County	\$ 3,600.00
Bedford County	1,943.75
Botetourt County	5, 100, 00
Buckingham County	5,624.17
Brunswick County	4,624.08
Craig County	2,000.00
Franklin City	8,350.00
Franklin County	4,050.00
Franklin County	3,997.05
Fauquier County	5,150.00
Galax City	5,000.00
Giles County	750.00
Greene County	6,400.00
Greenville County	450.00
Isle of Wight County	7,500.00
King George County	6,450.00
King William County	5,050.00
Loudoun County	16,668.16
Martinsville City	8,200.00
Montgomery County	600.00
Montgomery County	400.00
Meklenberg County	8,500.00
Nelson County	2,000.00
Northampton County	1,000.00
Pulaski County	2,600.00
Russell County	2,800.00
Rappahannock County	5,354.37
Shenandoah County	4,485.75
Scott County	5,000.00
Sussex County	5,000.86
Tazewell County	5,091.75
Winchester City	8,000.00
Wythe County	4,750.00
York County	5,603.00
Total Federal Funds to localities - 311	162,092.94
Department of Health	51,492.08
Department of Health	62,028.00
Total Federal Funds - 311	\$275,613.02

Standard 315 - Police Traffic Services

Subdivision or Agency	Amount
Buena Vista City Campbell County Hanover County Petersburg City Roanoke County Virginia Beach	\$ 650.00 43,300.00 1,000.00 4,538.00 350.00 18,314.00
Total Federal Funds to localities - 315	68, 152.00
State Police	252,636.00
Total Federal Funds - 315	\$353,788.00
Standard 316 - Debris Hazard Control and Cle	eanup
Virginia Highway Safety Division Virginia Department of Highways Total Federal Funds - 316	\$ 40,000.00 48,241.00 \$ 88,241.00
Total Federal Funding to localities	\$754, 209. 97
Total Federal Funding for 1970	\$1,527,592.97

EXHIBIT 33

$120^{6}~_{\rm DISTRIBUTIO^{N}~OF~FEDERAL~FUNDS~FOR~FY~1971}$

Standard 300 - Planning and Administration

Subdivision or Agency	Amount
Virginia Highway Safety Division	\$213,150.00
Total Federal Funding - 300	213,150.00
Standard 304 - Driver Education	
Arlington Co.	40,295.00
Buchanan Co.	43,997.50
Carroll Co.	48,770.00
Dinwiddie Co.	7,967.00
Fairfax City	9,300.00
Fairfax Co.	76,723.10
Falls Church City	7, 105.00
Grayson Co.	1,895.00
King George	8,800.00
King William	2,900.00
Lancaster Co.	7,850.00
Lexington City	15,359.05
Madison Co.	14,265.00
New Kent Co.	4,551.00
Newport News City	100,000.00
Northampton Co.	10,400.00
Northumberland Co.	4,500.00
Norton City	31,777.50
Prince William Co.	12,775.00
Richmond City	48,800.00
Roanoke Co.	12,800.00
Russell Co.	9, 169.00
Virginia Beach City Waynesboro City	130,521.05
Wise Co.	4,542.50
York Co.	15,000.00
101k CO.	6,605.00
Total Federal Funding - 304	\$682,368.20
Highway Safety Division	6,000.00
State Department of Education	12,742.00
Total Federal Funds to Agencies	18,742.00
Total Federal Funding - 304	\$695,410.20

EXHIBIT 33 (continued)

1267	Amount
Standard 305 - Driver Testing and Licensing	
Division of Motor Vehicles	\$104,346.00
Total Federal Funding	104,346.00
Standard 306 - Codes and Laws	
Virginia Highway Safety Division	4,375.00
Total Federal Funding	4,375.00
Standard 308 - Alcohol and Drugs	
Staunton City Vincinia Highway Safaty Division	2,875.00
Virginia Highway Safety Division	67,975.00
Total Federal Funding to Localities - 308	2,875.00
Total Federal Funding - 308	70,850.00
Standard 309 - Identification and Surveillance of Accident Location	ons
Virginia Highway Safety Division	15, 250.00
Total Federal Funding - 309	15,250.00
Standard 310 - Traffic Records	
Arlington Co.	8,629.50
Virginia Highway Safety Division	26,970.00
VII BINIO II BINIO DAVISION	20,01000
Total Federal Funding to Localities	8,629.50
Total Federal Funding - 310	35,599.50
Standard 311 - Emergency Medical Services	
Augusta Co.	6,750.00
Botetourt Co.	5,300.00
Charlotte Co.	7,911.00
Craig Co.	700.00
Culpeper Co.	4,500.00
Dickenson Co.	2,033.70
Fairfax Co.	9,800.00

Standard 311 - Emergency Medical Services (Continued)	Amount
Frederick Co.	5,750.00
Fries, Town of	5,090.00
Giles Co.	9,000.00
Gloucester Co.	3,898.00
Goochland Co.	7,227.50
Greene Co.	200.00
Hanover Co.	5,625.00
Harrisonburg City	5,450.00
Lee Co.	4,325.50
Loudoun Co.	7,051.25
Mathews Co.	3,618.05
Middlesex Co.	3,750.00
Montgomery Co.	6,318.30
Page Co.	13, 149.00
Prince William Co.	1,746.80
Pulaski Co.	3,310.70
Radford City	5,000.00
Rappahannock Co.	967.50
Roanoke City	12,500.00
Roanoke Co.	4, 125.19
Rockbridge Co.	1,975.50
Rockingham Co.	4,523.50
Shenandoah Co.	5,945.77
Smyth Co.	2,034.50
Tazewell Co.	3,886.64
Vinton, Town of	3,378.00
Washington Co.	10,000.00
Westmoreland Co.	10,500.00
Wise Co.	13,789.19
Total Federal Funding to Localities - 311	#901 190 50
Total rederal runding to Localities - 311	\$201, 139.59
Virginia Department of Health	9,404.92
Total Federal Funds - 311	\$210,544.51
Standard 312 - Highway Design, Construction and Maintenance	
High-way Cafeto Divini	
Highway Safety Division	33,000.00
Total Federal Funds - 312	33,000.00

EXHIBIT 33 (continued)

	12 09
Standard 313 - Traffic Control Devices	
Highway Safety Division	7,200.00
Total Federal Funds - 313	7,200.00
Standard 314 - Pedestrian Safety	
Highway Safety Division	16,000.00
Total Federal Funds - 314	16,000.00
Standard 314 - Police Traffic Services	
Accomac Co. Amelia Co. Arlington Co. Big Stone Gap (Town of) Emporia City Hanover Co. Henrico Co. Loudoun Co. Lynchburg City Nansemond Co. Norfolk City Norton City Pennington Gap City Prince William Roanoke Co. Vinton City Washington Co. Waynesboro City	447.60 10,672.00 8,884.00 750.00 2,100.00 1,250.00 9,885.15 1,000.00 1,981.86 2,600.00 17,661.00 1,250.00 1,650.00 4,118.00 550.00 6,500.00 1,400.00 1,150.00
State Police Highway Safety Division Old Dominion University Law Enforcement Training Standards Comm.	185,007.19 7,800.00 584.00 9,250.00
Total Federal Funding to Agencies	202,641.19
Total Federal Funding to Localities	91,483.61
Total Federal Funding	276,490.80
Total Federal Funding to Localities	986,795.90
Total Federal Funding for 1971	\$1,68 2 ,216.01

EXHIBIT 34

1210

DISTRIBUTION OF FEDERAL FUNDS FOR FY 1972

Standard 300 - Planning and Administration

Highway Safety Division	\$180,000.00
Total Federal Funding	\$180,000.00
Standard 303 - Motorcycle Safety	
Highway Safety Division	10,000.00
Total Federal Funding - 303	\$ 10,000.00
Standard 304 - Driver Education	
Clifton Forge. Galax City Dickenson Co. Halifax Co. Lee Co. Madison Co. Middlesex Co. Northampton Co. Nottoway Co. Patrick Co. York Co. Richmond Co. Woodrow Wilson Rehabilitation Center Russell Co. Pulaski Co. Department of Education Highway Safety Division ETV Carroll Co.	9,667.50 7,400.00 9,880.00 32,100.00 28,318.85 12,450.00 450.00 17,500.00 15.200.00 21,350.00 300.00 64,645.00 7,746.78 50.000.00 25,405.96 2,151.00 14,800.00
Total Federal Funding to Localities - 304	\$299,908.13
Total Federal Funds - 304	\$327,465.09
Standard 305 - Driver Licensing	
Division of Motor Vehicles	177,500.00
Total Federal Funding - 305	\$177,500.00

Standard 306 - Codes and Laws

Virginia Highway Safety Division (Legislative Bills) Virginia Highway Safety Division (Manual of up-dated St. Traffic Laws)	\$ 3,000.00 10,000.00				
Total Federal Funding - 306	\$ 13,000.00				
Standard 307 - Traffic Courts					
Encephie Co	500 00				
Franklin Co. Roanoke Co.	500.00				
	57.50				
Galax City Vinginia Highway Safaty Division (Attarney Consults Office)	8,000.00				
Virginia Highway Safety Division (Attorney General's Office)	5,100.00				
Virginia Highway Safety Division (Traffic Court Conference)	9,625.00				
Buchanan Co.	4,000.00				
Patrick Co.	4,000.00				
Total Federal Funding to Localities - 307	\$ 16,557.50				
Total Federal Funding - 307	\$ 31,282.50				
Standard 308 - Alcohol in Relation to Highway Safety					
Virginia Highway Safety Division	200.00				
Virginia Highway Safety Division	40,800.00				
Vilginia Ingaway Saloty Bivision	10,000,00				
Total Federal Funding - 308	\$ 41,000.00				
Standard 309 - Identification and Surveillance of Accident Location	ns				
Newport News	8,030.00				
Alexandria	13,688.00				
nicam-ura	10,000,00				
Total Federal Funding to Localities - 309	\$ 21,718.00				
Total Federal Funding - 309	\$ 21,718.00				
Standard 310 - Traffic Records					
Virginia Highway Safety Division	50.000.00				
Total Federal Funding - 310	\$ 50.000.00				

1212

Standard 311 - Emergency Medical Services

Buckingham Co.	\$	6,750.00
Chesterfield Co.		7,850.00
Gloucester Co.		6,050.00
Highland Co.		5,980.00
Lancaster Co.		4,250.00
Nottoway Co.		12,400.00
Roanoke Co. (Bent Mountain)		1,500.00
Roanoke Co. (Mt. Pleasant)		2,400.00
Roanoke Co. (#5 Fire Department)		6,650.00
Westmoreland Co.		6,750.00
Rappahannock Co.		1,250.00
Pittsylvania Co.		6,500.00
New Kent Co.		6,750.00
Montgomery Co. (Blacksburg)		6,433.13
Virginia Department of Health		25,825.00
Augusta Co.		2,202.86
Roanoke Co. (Ft. Lewis)		2,700.00
Bedford Co.		813.00
Petersburg City		13,500.00
Amherst Co.		9,250.00
Middlesex Co.		7,250.00
Prince Edward County		5,050.00
Roanoke City		900.00
Rockingham Co.		17,544.25
Roanoke (Vinton)		5,750.00
Botetourt (Troutville)		7,300.00
Dickenson Co.		10,610.00
Virginia Highway Safety Division		12,000.00
Virginia Highway Safety Division		25,345.00
		, , , , , , , , , , , , , , , , , , , ,
Total Federal Funding to Localities - 311	\$	164,383.24
Total Federal Funding - 311	\$	227, 5 53. 24
Standard 312 - Highway Design, Construction and Maintenance	i	
December 11 and	,,	4 500 00
Farmville City	\$	•
Alexandria City		2,875.00
City of Richmond		2,750.00
City of Richmond		7,500.00
City of Richmond		10,200.00
Total Federal Funding to Localities - 312	\$	24,825.00
Total Federal Funding - 312	\$	24,825.00

EXHIBIT 34 (continued)

Standard 313 - Traffic Control Devices	1213
Richmond City	\$ 750.00
Richmond City	850.00
Department of Highways	3,160.00
Department of Highways	18,500.00
Virginia Highway Safety Division	787.50
Virginia Highway Safety Division	2,600.00
Total Federal Funding to Localities - 313	\$ 1,600.00
Total Federal Funding - 313	\$ 26,647.50
Standard 314 - Pedestrian Safety	
Chesterfield Co.	\$ 17,750.00
Fairfax County	17,750.00
Chesterfield Co.	22,609.50
Virginia Highway Safety Division	27,200.00
Total Federal Funding to Localities - 314	\$ 58,109.50
Total Federal Funding	\$ 85,309.50
Standard 315 - Police Traffic Services	
Vienna, Town of	\$ 650.00
V.C.U.	15,224.00
Staunton City	687.50
Rockingham Co. (Broadway)	718.47
Rockingham Co. (Grottoes)	307.45
Rockingham Co. (Timberville)	2,837.55
Rockingham Co. (Elkton)	1,922.62
Roanoke Co.	3,541.50
Petersburg City	25,427.94
Nansemond Co.	3,000.00
Montgomery Co.	1,620.00
Henrico Co.	14,665.00
Fairfax Co.	20,315.00
Arlington Co.	10,630.00
Portsmouth City	25,000.00
Newport News City	36.000.00
Campbell Co.	46,082.00
Prince Edward City	24,500.00
Norfolk City	5,700.00
V. C. U.	7,500.00

EXHIBIT 34 (continued)

Standard 315 - Police Traffic Services (Continued)	Amount
State Police (Helicopter)	90,392.81
State Police	33,593.00
Portsmouth City	10,000.00
Total Federal Funding to Localities - 315	\$233,605.03
Total Federal Funding - 315	\$380,314.84
Total Federal Funding to Localities 1972	\$820,706.40
Total Federal Funding 1972	\$1,596,625.67

20%	Date Amount Amount Date Amount Amount Funded Funded Requested	180 180 300	301	302	10 12 303	209,002 310	107.5	1.9 35 306	10 15 307	200 207.547 308	75 146 309	. 90 . 310	200 225 311	33,735 47,922 312	35.941 42.314 313	45 60 314	175.0 219.121 315	0 8 316	
	Amount Requested	180			10	209.002	107.5	10	10	200	75	40	200	33,735	35,941	45	175.0	0	
20%	Amount Requested	180			വ	120	59.190	വ	က	120,145	58.973	20	120	20,145	33,999	30	110	0	
10%	Amount Date Amount Requested Funded Funded	180			S	45	16.755	2	ಎ	40	24.219	5.413	40	15	17.333	15	30	0	
i	Project Number																		
Cinc	ent Locality in Element																		
	Element Subclement	300	301	302	303	304	305	306	307	308	309	310	311	312	813	314	315	316	

STATE PRIORITIES EXHIBIT 35 (continued)

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180	_			36	36	36 618,438 183.5	36 618.438 183.5 46	36 618.438 183.5 46	36 618,438 183.5 46 33 33	36 618.438 183.5 46 33 35.4 292.859	36 618,438 183,5 46 33 355,4 292,859	36 618,438 183,5 46 33 355,4 292,859 550	36 618,438 183,5 46 33 35,4 292,859 550 560	36 618.438 183.5 46 33 355.4 292.859 550 500 111.819	36 618.438 183.5 46 33 35.4 292.859 550 560 111.819 95.845 71.948	36 618,438 183,5 46 33 355,4 292,859 550 560 111,819 95,845 71,948	36 618.438 183.5 46 33 355.4 292.859 550 560 590 111.819 95.845 71.948 425
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180	_			30	30	30 45.0 180	30 450 180 40	30 450 180 40 30	30 450 180 40 30 853.003	30 450 180 40 30 353.003	30 450 180 40 30 353.003 219.645	30 450 180 40 30 310,645 800	30 450 180 40 30 353.003 853.003 800 275 77.824	30 450 480 40 30 30 353.003 853.003 77.824 77.824	30 450 180 40 30 33.003 353.003 275 77.824 71.855	30 450 180 30 353.003 353.003 275 77.824 71.855 70 365	30 450 180 40 30 365 30 31 30 31 30 71.824 71.855 70 365
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300 180	_	301	302	302		1		3	3 1 3				1 3 1 3 1 1 3 1			3 1 3 1 3 1 1 3 1 1	3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 3

EXHIBIT 36

PROGRAM AREA AND TASK EXPENDITURES BY LEVELS A & B OF FEDERAL FUNDING

STANDARD AREA	DESCRIPTION OF TASK	LEVEL A	LEVEL B
300	Total Program	*180.0	180.0
303	Public Information Program	10.867	12.0
304 H.S. Driver Ed.	Education T V	4.0	4.0
H.S. Driver Ed.	State Personnel	25.0	25.0
H.S. Driver Ed.	Supplies (State)	ت	្ត ំ
H.S. Driver Ed.	Teaching Aids (Local) Equipment-Simulators, Banges, efc.	8.0 193.5	8.0
	, Jac 10	C	9
304 Addit Driver Ed.	Staff	67	67
304 Driver Improve- ment	Staff	15	15
304 Highway Safety Education	Staff, etc.	30	3 5
305	Driver Testing Range	177	177
306	Publish Model Traffic Ordinances	15	15
	Publish New Codes and Laws	4	20
307	Traffic Court Seminars	9	7
	Renovation of Court Rooms	œ	œ
308	Equipment (Breath Testing Devices)	130	150
	Training on Breath Testing Devices	40	40
	Alcohol Safety Programs in Metropolitan Areas	30	41.596

* All costs shown in \$(000)

STANDARD AREA	DESCRIPTION OF TASK	LEVEL A	LEVEL B
309	Multidisciplinary Accident Investigation Teams	65	65
	Field Reference System	69 . 927	81.0
310	Feasibility Study and Personnel	24	32
	Training of Policemen on New Accident Report	10	10
	Motorist Data Base	17.382	56
311	State Personnel	38	38
	Equipment	162	187
312	Lighting Survey Flagman's Manual Railroad Grade Crossing Studies Bridge Inspection Program Paint Marking Machines	ന പ ന വ വ	୧ ଏ ଖରା ଘ
313	Traffic Engineering Short Courses, etc.	20.999	22.314
	Development of Programs	15	20
314	Traffic Engineering Training Public Information Program Safety Shows Hot Dots Safety Towns Pedestrian Crossing Manuals	9 10 10 23 7	13.932 15 5 10 23 7
315	Training - Policemen	8	15
	Helicopter	100	100
	Communications (Local)	79	95
	Equipment	3	9.121
316	Training TOTAL	\$1606.175	8 \$1798.953

PART IV 1210 SUBELEMENT PLANS

HIGHWAY SAFETY PROGRAM ANNIAL SIBELEMENT PLAN	STY PROGRAM	1. State of	State of Virginia 2. TI	TITLE Plan	Planning and Administration	ation	.8	NO. PA-73-100 46-73-00-01	73-100	4.	DATE 4/1/72	1/72
		5. DRAFTED BY APPROVED BY	ED BY W. L. Howard	19 71 FY-2	19 <u>72</u> FY-1	FI 1st Q	SCAL YE	FISCAL YEAR 1973	4th Q	TOTAL	1974 FY+1	19 <u>75</u> FY+2
6a. EFFECTIVENESS		death and accided decided ty	Statewide death and accident rate and results in economic loss & property damage.		See	See Effectiveness Supplement	dns ssar	lement to	to the SEP			
6b. OUTPUT	C % V No.	of local commis	C % of local commissions participating in 402 funding Vo. of local commissions eligible to participate in 402 funding	.46	. 60	135	135	135	135	. 75	. 80	. 95
7. RESP. 8	8. STD. 9. 1	TASKS & MILESTONES	TONES									
HSD	300 1.	Personnel A. Director,	sonnel Director, Asst. Director, Programs Admin.					* <u>***</u>		<u> </u>		
		Fiscal Offi Coordinato	Fiscal Officer, Auditors, Coordinator Supervisor Coordinators, Confidential Secretary, Clerk-Stone Cloub Trailed and monthing Security									
		(Total Persons)	sons)	22	22	22	22	22	22	42	24	24
		B. Pensions,	Pensions, retirement, insurance	22	22	22	77	22	24	24	22	24
HSD	300 2.	Contractual services										
			pairs (months)	12	12	က	က	es	က	12	12	12
							~~					
			ations									
					-							
			:									
10 DESCRIPTION	NO	F. Operation of Public	of Public Information Office				1					
The long-term	The long-term of the Highway Safety Pro-	ety Pro-	11. COST BY TASK \$(000)								 -	
gram in Virginia	gram in Virginia is to reduce the number of ac-	umber of ac-	1. A. Personnel	186.1	193. 2	76.025	76.025	76, 025 76, 025	6.025	304.1	311.5	330
cidents including	cidents including fatalities, personal injuries and	of injuries and	B. Pensions, etc.	12.54	13.02	5.9465	5.9465	5.9465 5.9465	5,9465	23.786	25	30
property damage	property damage attributable to poor highway	r highway	Contractual services									
safety practices t	safety practices throughout the state. This in-	e. This in-	A. General repairs	4.	٠ <u>.</u>	. 3475	. 3475	. 3475	.3475	1.39	192	7
cludes the failure	cludes the failure to comply with any part of the	y part of the			39, 59	11.04	11.04	11.04 1	11.04	44.15	46.65	20
Federal Highway (by the NHTSA.	Federal Highway Safety Standards as by the NHTSA.	s promulgated	C. Communications	22. 1	19	7. 7987	7. 7987	7. 7987	7.7987	31. 195	31, 195	33
In order to acco	In order to accomplish this goal the state of	he state of	12. TOTAL COST	404. 73	427.81	172.38	172.38	172 38 1	172.38	689 5	699 5	781
Virginia, through	Virginia, through its governor, has established a	established a	LOCAL SHARE	0					. 0	,		0
carrying out the S	Highway Safety Division with the responsibility for carrying out the State Highway Sofety Drogges and	sponsibility for	STATE SHARE	202.4		38	38	37	127.37	2	484.6	556
encouraging, stim	encouraging, stimulating and developing highway safety nrograms and activities themselven the sector	ping highway	TO LOCALITIES	202. 4	187. 375	45	45	55 	45	180	214.88	225
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HIGHWAY SA	HIGHWAY SAFETY PROGRAM		State of Virginia	nia	2. TITLE	•	Planning and Administration	ration	8	NO. PA-7	PA-73-100 46-73-00-02		DATE 4/1/72	1/72
ANNOALSOL	T INDWENT TO		DRAFTED BY APPROVED BY	Y W. L. Howard BY J. T. Hanna		19 71 FY-2	19 <u>72</u> FY-1	FIS 1st Q	SCAL YE	FISCAL YEAR 19 73 2nd Q 3rd Q	41h Q	TOTAL	19 <u>74</u> FY+1	19 <u>75</u> FN+2
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		င				 								
6b. OUTPUT	Ţ	Λ												
7. RESP.	8. STD.	9. TASKS & 1	TASKS & MILESTONES	SE										
GSH	300		Supplies and materials	ials										
USH HSD	300	4. Equipme 5. Rent — d	equipment — including office Rent — dues — subscriptions	ang omice furniture scriptions		— — , , , , , , , , , , , , , , , , , , 				• .				
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10. DESCRI	DESCRIPTION continued.	ıed.	11.	COST BY TASK										
The Highwa	ay Safety Divisi	The Highway Safety Division of Virginia began	began	D. Printing		50	10	3.55	3, 55	3, 55	3, 55	14. 2	16.2	18
operations A	ugust 1, 1968 w	operations August 1, 1968 with the Director as-	r as-			65	82				23. 75	95	110	125
Assistant Div	esponsibilities rector ioining th	suming his responsibilities on that date and the Assistant Director idining the organization				25	17.5				16. 625	66.5	71.5	75
Nov. 1, 1968	Since the inc	Nov. 1, 1968. Since the inception of the organi-	-gani-	 Supplies and materials Fourthwent 	sı	48.5 6.95	48.5 1.95	9.29	9.29	9. 29	9. 29	37. 16	41.36	24.2
zation, active	e local highway	zation, active local highway safety commissions		5. Rent, etc.		25	. 25				10, 22	40.875	40.875	41
have been est	tablished in eve	have been established in every locality, safety						+-	1					
projects have	e taken place, c locality in the	projects have taken place, or are current, in almost every locality in the state with Federal	in 12. eral 12.	TOTAL COST							 -	689. 5	699. 5	
participation	of over three n	participation of over three million dollars during	during	STATE SHARE	-									
the years 196	39-71. The Safe	the years 1969-71. The Safety Section of the	Je	FEDERAL SHARE										
Highway Rese	earch Council,	Highway Research Council, located at the Uni-	Jni-	TO LOCALITIES										
versity of Vil	versity of Virginia in Charlottesville, was	ottesville, was							-				_	

DESCRIPTION: (Cont.)

established as a research center for the HSD and was given the responsibility of conducting studies and compiling research information for various highway safety programs.

Several programs the HSD of Virginia will sponsor include the following:

- (1) The purchase of alcohol breath measuring devices and training;
- (2) Multidisciplinary crash investigation teams:
- (3) Driver education;
- (4) Pedestrian safety;
- (5) Crash facts for each city and county in the state;
- (6) Adult driver education;
- (7) Educational TV;
- (8) Traffic records seminar;
- (9) Traffic engineering seminars;
- (10) Seminars for Traffic Court Judges;

and many other programs that should help reduce the number of fatalities on our highways during the next few years.

In carrying out its responsibility for highway safety, the HSD has hired six full-time area coordinators whose job is to help the local highway safety commissions in the development of local highway safety programs as well as carrying out the safety programs of the division. A full-time public information officer was hired to disseminate public information, utilizing media pertinent to highway safety standards.

One of the main functions of the HSD is to encourage implementation of the 16 Highway Safety Standards, which includes the allocation of federal funds.

Upon completion of our new traffic records system we will be able to more effectively evaluate the programs now being conducted by the HSD of Virginia.

4. DATE 4-1-72																			-	er wer					···· -														
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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Planning and Administration 6a. EFFECTIVENESS Death Rate Per 100 Million Miles of Travel (Projection) 1.	FY-2							1	
EFFECTIVENESS ath Rate Per 100 Million Miles of Travel (Projection)		FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
eath Rate Per 100 Million Miles of Travel (Projection)	-								
2.	4.27	4.10					3,91	3.74	3.56
2.2									
• 7									
3.				-					
19	1966	1961					1968	1969	1970
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5.								·	
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PLANNING AND ADMINISTRATION

In order to comply with the requirement of Public Law 89-564, 89th Congress, \$3052, September 9, 1966 that "... each state shall have a highway safety program approved by the Secretary of Transportation to reduce traffic accidents and deaths, injuries and property damage therefrom and that such programs shall be in accordance with uniform standards promulgated by the Secretary or risk the loss of 10% of the federal aid highway funds apportioned on or after January 1, 1969 ...", Virginia established the Highway Safety Division of Virginia. The Highway Safety Division has the responsibility of carrying out the state's Highway Safety Program by encouraging, stimulating and developing highway safety programs and activities throughout the state. The Division, with approval from the Governor's office, has established 135 local Highway Safety Commissions within the cities and counties of the state. These safety commissions have been established in every locality in the state, and safety projects have been initiated in almost every locality with federal participation of over \$4 million during the years 1969-72 inclusive. The majority of federal reimbursements have been for projects matched by either local or state funds.

The state highway safety program for fiscal years 1973 and 1974 must accomplish the necessary tasks in order to accomplish the goal of reducing the number of accidents, fatalities, personal injuries, and property damage on Virginia highways. These necessary tasks are discussed in the following subsections.

Personal Services

Twenty-two positions are now established in the Division and six additional positions are being requested for 1973 or 1974, or whenever state matching funds become available.

Accountant B — The number of highway safety projects granted to state agencies and political subdivisions has steadily increased each year since the Highway Safety Division was formed and all indications are that it will continue to increase at a rate of about 40% each year. Highway safety projects generally have a life span of from six months to three years and require constant surveillance in order that all correspondence relating to them can be kept current and accurate. Each project application is reviewed as initially received from political subdivisions and state agencies as to its validity, accuracy and overall value to the state's highway safety program. Recent adjustments in the procedures for administering federal highway safety monies have placed upon the Division total responsibility for individual programs. The responsibility for reviews and checks, which previously lay with the National Highway Traffic Safety Administration, has been transferred to the Division's Fiscal Section and this added responsibility has increased the Section's workload.

Because of the increased number of project submissions and the assumption of the responsibility for reviews and checks, the Fiscal Section needs an additional person to assist in the handling of administrative details and the auditing of accounts. The responsibility for auditing each federal account has been placed on the Division and presently two auditors (Accountants B) perform this function. The requested new position would significantly aid the Fiscal Section in the performance of its duties and functions.

Exhibit Coordinator — The recent acquisition of an exhibit trailer for use in public information programs has necessitated the establishment of an exhibit coordinator position. The duties of this position will include the handling, scheduling, transport, and maintenance of the 25-foot exhibit trailer as well as office duties that will guarantee the total usage of one employee's time.

One of the major functions of the Division is the distribution of highway safety information. The full-time use of the mobile exhibit would greatly enhance the Division's capabilities for performing this function. If the exhibit coordinator position is established, this equipment could be made available for local highway safety commission displays, county and state fairs, and other associated functions; if the position is not created, many requests for use of the equipment will have to be turned down as the schedules of present personnel will not allow its maximum usage.

Clerk-Stenographer C — The Public Information Section of the Division consists of a Public Information Director B and a Public Information Officer B. No permanent support personnel are available. The dictation, typing, and scheduling of appointments and highway safety talks are being done by part-time help. The workload has grown to the point where it is no longer economical to depend upon part-time help to perform these duties. The requested position would provide, for the present, an adequate Public Information staff while not substantially increasing costs, since the duties described above are required and are presently being performed by commercial agency personnel under contract to the Division on a quasi full-time basis.

<u>Clerk-Typist C</u> — One of the prime responsibilities of the Division is the dissemination of public information relating to highway safety. The Division presently has a mailing list in excess of 3,000 individuals, firms, and organizations. This mailing list has recently been revised to make room for future expansion. It includes names of persons from all walks of life, representing many different organizations and functions. These names have been broken down into various categories to ensure that each person or organization receives the desired material or combinations of material.

In order to keep the list working satisfactorily and with a minimum of inconvenience and confusion, it will become necessary to assign one individual to assume the responsibility of keeping this list up-to-date.

Also, the person filling this position will type from rough draft reports and correspondence of the Public Information Office and compose routine correspondence independently. Due to an increased schedule of meetings and conferences, it is necessary that additional correspondence be prepared and distributed. These tasks will involve a combination of cutting stencils, straight typing, operating copy machines, and collating larger publications.

Highway Safety Coordinators (2) — The Division employs six highway safety program coordinators who are stationed throughout the state in order to serve their assigned districts. Various developments in state and federal programs have made it imperative that the Division employ two more personnel in this status in order that the local highway safety commissions, city, town and county officials, planning districts, and public service organizations may be served properly. The present boundaries of the areas covered by the six field men are far too extensive and do not adapt themselves to the boundaries of established Planning Districts. The implementation of the National Highway Traffic Safety Administration's Annual Highway Safety Work Program concept requires more thorough surveillance of ongoing highway safety projects in the localities and additional time of the coordinators in assembling and explaining information. The large territories now served by the coordinators require numerous hours of travel time. Through the employment of additional coordinators, the state can be divided in line with Planning District boundaries and the mileages can be reduced considerably so that the coordinators can perform more effectively.

Contractual Services

General Repairs

Funds requested under this item will provide for the repair of typewriters, adding machines, movie projectors, office furniture, Porto clinics, Porto glares, tape recorders, movie cameras, still cameras, and film inspection machines.

Maintenance Service Contracts

The funds under this item will cover maintenance contracts on 3M equipment and the charges for answering services for the coordinators for one year.

Motor Vehicle Repairs

Funds will be used for the repair and maintenance of Division owned vehicles.

Costs for the first one-half biennium will be borne by the Federal Highway Safety

Project.

Travel

Experience has shown that the Division's cars are driven an average of over 24,000 miles per year; on this basis 3 additional vehicles will be needed in 1973 (2 for coordinators and one for the Public Information Office). To meet the travel requirements, the Division will need a total of 10 cars and 4 station wagons.

Funds will also be used to cover the expenses incurred in connection with the Annual Advisory Committee Meeting; the Youth Conference, Traffic Safety Seminars, and Commission members and Commission members.

Food and lodging expenses for 15 travelling employees, including Main Office personnel, must also be provided.

Convention and Educational Travel

Funds will be needed to cover the expenses of representatives of the Safety

Division attending the National Safety Congress, the Southern Safety Conference, public relations training courses, and nationwide workshops on highway safety.

Transportation

Funds must be provided for freight and express charges on items purchased by the Division or shipped back for repairs.

Communication

Requested funds will cover installation and monthly charges for telephone service for Main Office and 8 field offices, and mail and related communication services needed for an expanded public information program.

Printing, other than office supplies

Funds requested will cover costs incurred in printing material for highway safety programs, including brochures, posters, crash facts, annual reports, pamphlets, and highway safety handout literature.

Other Contractual Services

The Highway Research Council at the University of Virginia has established a Safety Section that is providing support for the Highway Safety Division in lieu of the Research Center recommended by the Mann Commission. \$95,000 is requested for its operation for 1973 and \$110,000 for 1974.

Funds will be used for newspaper clipping service, art work and highway safety bulletins. The service and art work will require \$1,500 each year of the biennium.

For the preparation and distribution of material prepared for radio, television and newspapers, \$65,000 will be needed for 1973 and \$70,000 for 1974.

Federal funds will be used for the relocation of Central Office and Field Personnel if necessary.

Supplies and Materials

Office Supplies

Funds requested will be used for the purchase of supplies, paper, pencils, forms, envelopes, mailing labels, ledgers, file folders, report covers, and other miscellaneous office supplies.

Medical and Laboratory Supplies

Funds will be requested for first aid kits and blankets for the automobiles of additional personnel.

Motor Vehicle Supplies

Funds must be provided for the purchase of gas and oil for Division owned cars, the exhibit trailer, and the tow vehicle, and for the maintenance of these vehicles.

Photographic Supplies

Funds are requested to continually update the film library by purchasing new films and repairing older films. Funds will also be used for movie boxes, slides, flashbulbs, batteries, and camera film.

Other Supplies and Materials

Funds are required for the purchase of additional highway safety exhibits manuals, charts, and miscellaneous supplies.

Office Equipment

Funds requested will be used for the normal replacement of office equipment each year.

Photographic Equipment

Funds will be needed for the replacement of projection equipment as the need arises.

Equipment, Additional

Office Equipment

Funds requested will be used to purchase desks, chairs, typewriters, and other office equipment for additional personnel; plus the equipment necessary for the relocation of the Division Headquarters.

Books and Periodicals

Funds will be used to purchase publications relevant to highway safety to be used as reference material within the Division and by the Highway Safety Commission.

Electronic Equipment

Funds will be used to purchase the equipment necessitated by the relocation of Division coordinators and their field offices, including electronic answering service devices.

Other Equipment

Funds will be used to equip new coordinators.

Current Charges and Obligations

Rent (Land and Structures)

Funds will provide for main office relocation of field personnel.

Space necessary: main office - 3,370 square feet; storage main office and field - 2,400 square feet; office space for fieldmen - 1,600 square feet.

Rent (Business, Education and Medical Equipment)

Rent a copy machine plus allowance for 2,000 copies per month.

Dues and Subscriptions

Funds requested will be used for membership dues to safety organizations for Division personnel and subscriptions to publications.

Pensions — Retirement — Insurance

Federal Old Age - Insurance

Payments into contribution fund.

Employer Retirement Contribution

Payments into the trust fund.

Group Insurance

Payments on behalf of state employees.

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HIGHWAY SAFETY PROGRAM	1.	State of Virginia	2. TITLE V	Periodic Motor Vehicle Inspection	tor	6.	NO. VI-73-261 46-73-01-02	73-261 3-01-02	7	DATE 4/1/72	.1/72
ANNOAL SUBELEMENT PLAN		DRAFTED BY Captain R. M. Terry APPROVED BY J. T. Hanna	19 <u>71</u> FY-2	19 72 2 FY-1	3	FISCAL YEAR 1973 2nd Q 3rd Q	3rd Q	4th Q	TOTAL	19.7 <u>4</u> F.Y.+1	19 <u>75</u> FY+2
6a. EFFECTIVENESS											
6b. OUTPUT V	/										
7. RESP. 8. STD. 9. TASKS & MILE 2. (Continued as is) State Police 301 and continued as is) State Police and continued are furnis: 10. DESCRIPTION continued. Even though Virginia has operated an effective program for many years, the program is constanting and improve:	9. TASKS & MILESTONES 2. (Continued.) as is necessary and conduct inv annually are ex during the supe spection station crease along w stations and ins B. Supplies and equip Inspection stickers are furnished to ea 1. Inspection stick 2. Manuals, proce postage, packa ted. 11. o promulgate regu- notor vehicles. rated an effective program is con- n, expand, and im-	Continued.) as is necessary to supervise the mechanics and conduct investigations. 36,862 hours annually are expended by State Policemen during the supervision and investigation of inspection stations. These hours gradually increase along with the number of inspection stations and inspection applicants. Supplies and equipment Inspection stickers, manuals, procedure sheets are furnished to each official station. Manuals, procedure sheets, instructions, postage, packaging supplies, etc. 11. COST BY TASK \$(000) ate regulation. is con- is and im-	nics rs en of in- ly in- ion 36,862 neets	38, 705	10, 160	10, 160	10, 160	10,160	40,640	42,672	44,806
 Vehicle inspection standards upgrading. A. Inspection mechanics began adding the identification number to the inspection receipts effective January 1, 1972. Supervision of certified mechanics. Virginia troopers supervise the inspection 	s began adding the r to the inspection nuary 1, 1972. mechanics.	12. TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES									

SAFETY PROCRAM UBELEMENT PLAN CCTIVENESS OUT 8. STD, 9. TAS 8. STD, 9. TAS 301 C. RIPTION continued. Im and utilize more than 3 annually. Each trooper re lass room and field training. It methods of supervision. It methods of supervision sylvich would be annually. It methods of supervision sylvich is pending which would attion is pending which would be anticipate more striff the manual requirements.	nia 2. TITLE Periodic Motor 3. NO. VI-73-261 4. DATE 4/1/72	FISCAL YI			tandards rently require most items set I Highway Traffic Safety recommended by the American nstitute D7. 1-1968 Code. We ng and considering adopting	\$ 2)	COST BY TASK \$(000)	FOTAL COST \$(000) COCAL SHARE TATE SHARE FEDERAL SHARE TO LOCALITIES
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Periodic Motor Vehicle Inspection $\frac{\text{VI-}73-261}{46-73-01-04}$ DESCRIPTION: (Cont.)

- 4. Legislation is pending which would prohibit the modified hood, which is raised to the point that it obstructs vision.
- 5. We are presently considering a regulation which would require the inspection of hood latches.

 $\frac{\text{VI-73-261}}{46-73-01-05}$

ATTACHMENT 1

C. VIRGINIA'S PROGRAM

The program almost completely complies with the minimum recommendations of the National Highway Safety Bureau.

- 1. Virginia registered vehicles must be inspected semi-annually prior to operation on the highway.
- 2. The inspections are performed by competent personnel specifically trained by the State Police. (This training of mechanics is expected to become extensive as we increase the administrative staff.)
- 3. The inspection covers systems and components having substantial relation to safe vehicle performance.
- 4. The procedures for the actual inspection equal or exceed 18 of the 26 recommendations of the NHSB. (Refer to chart)
- ${\bf 5.}\ \ \, {\bf Each}\ \, {\bf station}\ \, {\bf keeps}\ \, {\bf the}\ \, {\bf recommended}\ \, {\bf except}\ \, {\bf the}\ \, {\bf vehicle}$ identification number.
- 6. The state publishes summaries of vehicle defects based on a sample tabulation.

VI-73-261 46-73-01-06

ATTACHMENT 2

D. VEHICLE INSPECTION STANDARDS

The information listed below provides a comparison of those items required to be inspected in Virginia with those recommended by the National Highway Safety Bureau and the ANSI D7. 1-1968 Code. It further shows items that are being considered for Virginia's Program.

VIRGINIA	NHSB	ANSI
	Operator's License	
	Valid Registration	Valid Registration
License Plates	License Plates	License Plates
Brakes	Brakes	Brakes
Headlights	Headlights	Headlights
Signal Lights	Signal Lights	Signal Lights
Other Lights	Other Lights	Other Lights
Horn	Horn	Horn
Electrical Systems	Electrical Systems	Electrical Systems
Windshield	Windshield	Windshield
Other Windows	Other Windows	Other Windows
Rear View Mirrors	Rear View Mirrors	Rear View Mirrors
Tires	Tires	Tires
Wheels and Rims	Wheels and Rims	Wheels and Rims
Wipers	Wipers	Wipers
* ##	Windshield Washers	Windshield Washers
Steering Assembly	Steering Assembly	Steering Assembly
Alignment & Suspension	Alignment & Suspension	Alignment & Suspension
Exhaust System	Exhaust System	Exhaust System
***	Fuel System	Fuel System
本事事	Hazardous Body Items	Hazardous Body Items
**	Latches, Hood, Door, etc.	Latches, Hood, Doors, etc.
Seat Belts	Occupant Restraining	Seat Belts
	Devices	
***	Defrosters & Foggers	Defrosters & Defoggers
	Vehicle Emission System	
**	Auxiliary Safety Equipment	**

^{*} Virginia does not use enforcement personnel for inspection; therefore, this item does not

^{**} D7 states that items must comply with State Statutes and if a device is permissive it shall comply with the requirements for such a device as if it were covered by Statute.

^{***} These items are being considered for Virginia's program.

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1241 PERIODIC MOTOR VEHICLE INSPECTION

As of January 1, 1970, 31 states and the District of Columbia had passed legislation requiring periodic motor vehicle inspection. Of the 19 states not requiring periodic inspection, 8 had systems of random or spot-check inspections. Virginia began to inspect automobiles for safety defects relatively early, having inaugurated its system in 1932.

There are essentially two types of periodic inspection programs. One type uses state owned and operated stations. The use of state facilities for inspection purposes is restricted to a small number of states, and appears to work best in states with small land areas, such as Delaware and New Jersey. The other type of program, used by a majority of states including Virginia, utilizes privately owned facilities appointed and supervised by the state. In Virginia, appointment and supervision is under the authority of the Department of State Police. Currently, there are some 2,500 inspection stations operating in the state, consisting of automobile dealerships, independent repair shops and service stations, and, in some cases, commercial fleet owners who have as many as 25 vehicles. In 1970, these stations conducted 4,627,541 inspections.

By proclamation of the Governor, semiannual inspection is required of all licensed motor vehicles, trailers and semitrailers, including house trailers, small utility trailers, and motorcycles. Failure to submit one's vehicle to a required inspection or to have mechanical defects found by the inspection corrected is a misdemeanor. For this inspection, a station may charge a fee of two dollars, but the charge is not mandatory. Any repairs and adjustments that are necessary by the inspection cost extra, and the state has no control over the charges as long as the work is necessary and is properly performed. Motorists need not have repair work performed at the inspection station, and, in fact, are encouraged by the Department of State Police to seek outside estimates.

Nevertheless, many motorists apparently do have repairs made at the inspection station rather than seeking additional estimates. It is this revenue-generating aspect of the inspection program that makes the possession of a certificate of appointment a valuable commodity. The possibility of abuse by unscrupulous garage owners, plus the interest in maintaining public support for the program, has led the Department of State Police to adopt high standards as a prerequisite to designation as an official inspection station. In addition to the minimum standards required of inspection stations under Va. Code Ann. § 46.1-320, and the more particularized requirements detailed in the Virginia Official Inspection Manual, there must also be a need for the station in the area, it must have the required equipment, and the reputation of both the station and the manager, or the owner, must be above reproach. Thorough investigations are conducted on all managers, owners, mechanics, and persons handling inspection stickers.

Additionally, there are procedures to maintain the flow of information and supervise the quality of the inspection. In addition to the 20 hours of Basic Training School devoted to this one activity that each trooper undergoes, all troopers who supervise mechanics participate in a one week school every year. The information conveyed therein is passed along to the mechanics who perform the inspections. Additionally, every September, 49 inspection meetings are held around the state. Attendance at one of the meetings by certified mechanics is mandatory; otherwise, the mechanic is automatically suspended. Topics at these meetings include problems arising in the administration of the program, changes in the applicable laws, and recommendations from troopers, mechanics, and the public.

Check procedures are an integral part of maintaining the viability of the program.

Among the checks utilized are the following:

(1) Each station is spot-checked at least monthly to determine compliance with inspection standards.

- (2) Weekly traffic checks are made to spot safety defects. If a number of defects can be traced to the same station through use of the inspection receipts, further investigative action and possible suspension results.
- (3) Complaints from private citizens and troopers are fully investigated.

 In 1970, 39 written complaints were received and 90 were phoned in from private citizens. An additional 576 complaints were received from the troopers themselves, bringing the total number of complaints to 705. Of these, corrective action was taken in 603 instances, with 82 mechanics being suspended and 38 stations losing their certification. Considering that some 8,000 mechanics and 2,389 stations participated in the 1970 program, this speaks well for the high level of public confidence and acceptance accorded the system.

Additional progress in improving motor vehicle inspections is anticipated due to the following changes instituted in 1971:

- (1) The inspection receipts were changed to allow a space for the identification number and the stations were instructed to include this number as of January 1, 1972.
- (2) A sample of the inspection receipts is being tabulated to show the defects by make and model so that our data processing equipment can be utilized to gather essential information.
- (3) The regulations were revised so as to prohibit small modified steering wheels.
- (4) The regulations were revised to include a more practical and uniform aiming tolerance for headlamps. These tolerances and numerous other items were discussed during the 49 training sessions held during September throughout the state.

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DATE	1974 FX+1				1182		7 92		1645	8103 0 8103 0
4.	TOTAL				1142		7		1580	7793 0 7793 0
NO. 46-73-261	73 · 4th Q				285		7		395	1952 0 1952 0
NO. 46-	3rd Q				285		92		395	1949 0 1949 0
ion 3.	FISCAL YEAR 1973				286		92		395	1947 0 1947 0
Registrat	F 1st Q				286		7		395	1945 0 1945 0
TITLE Motor Vehicle Registration	$19\frac{72}{\text{FY-1}}$				1102		7		1501	7404 0 7404 0
LE Motor	19 <u>71</u> FY-2				1067		7		1422	7013 0 7013 0
2.	A. D. Harvey Y J. T. Hanna	SEE EFFECTIVENESS SUPPLEMENT TO THE SUBELEMENT	vehicles titled	TONES	Number of vehicles and trailers titled (000)	: Level			 COST BY TASK \$(000) Vehicle Titling 	12. TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
1. State of Virginia	5.	SFFECTIVENESS	Percent of motor vehicles titled Number of motor vehicles titled	TASKS & MILESTONES		Personnel - State Level	1. Supervisors 2. Clerks		The long-term goal of our ion program is to reduce njuries, and the amount used by traffic law viola-d their driving privileges vious convictions of violagoal is to make available mable the police to appre-	um amount of iicles is respon- rms the follow- oal:
HIGHWAY SAFETY PROGRAM ANNIAI SIIREI EMENT DI AN		EFFECTIVENESS SEE E	TT C	8. STD. 9.	302 1.	Α.	- ' '		e e e e e	hend traffic violators in a minimum amount of time. The Division of Motor Vehicles is responsible for this endeavor and performs the following in pursuing the above goal:
HIGHWAY SA		6a. EFFEC	6b. OUTPUT	7. RESP.	DMV				10. DESCRIPTION notor vehicle registrathe number of deaths. of property damage cors who should have bevoked because of prions. Our immediate ouch records that will	hend traffic viola time. The Divis sible for this end ing in pursuing

HIGHWAY SAFETY PROGRAM	ETY PROGR	AM 1. State of Virginia	irginia	2. TITL	E Motor	TITLE Motor Vehicle Registration	egistrati	ю.	NO. VR-73-261 46-73-02-02	VR-73-261 46-73-02-02	4.	DATE 4-1-72	-1-72
ANNUAL SUBELEMENT PLAN	LEMENT PL	5. DRAFTED BY APPROVED BY	ID BY A, D. Harvey IED BY J. T. Hanna		19 <u>71</u> FY-2	19 <u>72</u> FY-1	FI 1st Q	AL Y	3rd Q	4th Q	TOTAL	19 <u>74</u> FY+1	19 <u>75</u> FY+2
6a. EFFECTIVENESS	VENESS												
		C % of vehicles licensed	icensed										
6b. 001F01		V # of vehicles licensed	icensed										
7. RESP. 8	8. STD.	9. TASKS & MILESTONES	TONES									 	
DMV	302	2. Number of vehicl	Number of vehicles and trailers licensed (000)		9697	2818	294	294	1176	1176	2940	3062	3184
		A. Personnel - state level	: level										
		1. Supervisors 2. Clerks			7 6	7	7	7	79	7	7	7	7 97
						.—							
							· - · · · · · · · · · · · · · · · · · ·						
	,												
10. DESCRIPT	rion:1. Inst	DESCRIPTION:1. Insure the proper titl-	11. COST BY TASK										
ing of all vehicles and trailers to have record all legal owners and lienholders and to preven fraud upon the consumer in the purchase of a stolen vehicle,	es and trailer and lienhold onsumer in t	ing of all vehicles and trailers to have record of all legal owners and lienholders and to prevent fraud upon the consumer in the purchase of a stolen vehicle.	2. Vehicle Licensing	500	1496	1579	415	415	416	416	1662	1730	1817
2. Insure prope	r licensing o	2. Insure proper licensing of all vehicles and											
trailers in order fication is availa stone 10)	r that proper able, (Also a	trailers in order that proper and instant identi- fication is available. (Also see task and mile- stone 10)	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

DATE-1-72	1974 1975 FY+1 FV+2	+-		204 215	2 2 13 13 13 17 17 13 13	751 789	
- 4, D	TOTAL	+-		194	2 13 17 13	722	
VR-73-261 46-73-02-03	3 · 4th Q			48.5	2 13 17 13	181	
NO. VR-73-261	3rd Q			48.5	2 13 17 13	181	
ion 3.	FISCAL YEAR 1973			48.5	2 13 17 13	180	
Registrat	F 1st Q			48.5	2 13 17 13	180	
TITLE Motor Vehicle Registration	19 72 FY-1			183	2 13 17 13	989	
r L E Motor	19 <u>71</u> FY-2			175	2 13 17 13	650	
2.	DRAFTED BY A. D. Harvey APPROVED BY J. T. Hanna	1 1	% of tax collected available for highway funds Amount tax collected	SSTONES tax collected (\$000, 000)	sonnel - state level Supervisors Clerks Auditors Regional Representative	11. COST BY TASK 3. Fuel tax collection	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE
I. State of Virginia	5.		C % of tax collected ave V Amount tax collected	 TASKS & MILESTONES Amount of fuel tax collected 	 A. Personnel - state level 1. Supervisors 2. Clerks 3. Auditors 4. Regional Represent 	DESCRIPTION 3. Proper collection of all motor fuel to tax to insure funds for highway construction and maintenance utilizing proven techniques of safety engine xing and design.	
HIGHWAY SAFETY PROGRAM ANNIAL SIBELEMENT PLAN		EFFECTIVENESS		8. STD.). DESCRIPTION 3. Proper collection o all motor fuel to tax to insure funds for hig construction and maintenance utilizing proviechniques of safety engine ing and design.	
HIGHWAY SA ANNIIAL SUF		6a. EFFEC	6b. OUTPUT	7. RESP. DMV		10. DESCRIPTION all motor fuel to ta construction and m techniques of safet	

HIGHWAY SAFETY PROGRAM	CRAM . DI AN	1. State of Virginia		2. TITLE	Motor V	Phicle R	TITLE Motor Vehicle Registration	3.	NO. VR-73-261 46-73-02-04	3-261 3-02-04	4	DATE 4-1-72	-1-72
ANNOAL SOBE LEMENT FLAN	FLAN	5. DRAFTED BY APPROVED BY	A. D. Harvey J. T. Hanna	19 F	19 <u>71</u> FY-2	19 <u>72</u> FY-1	FIE 1st Q	SCAL YE	FISCAL YEAR 19 73	tth Q	TOTAL	19 <u>74</u> FY+1	19 <u>75</u> FY+2
6a. EFFECTIVENESS													
	၁	% Dealers licensed											
6b. OUTPUT	>	Number of dealers licensed	þ										
7. RESP. 8. STD.	6	TASKS & MILESTONES											
DMV 302	4.	Number dealers licenses issued	pen	35	3500	3650	1710	190	190	1710	3800	3950	4100
	A. Pe	Personnel state level		-		<u>-</u>							
	.; 6j	Supervisors Clerks			2	1 2	1 2	1 2	1 2	1 2	1 2	1	1 2
	 												
				-		<u> </u>							
10. DESCRIPTION		11. COST	COST BY TASK		-								
4. Proper licensing of all motor vehicle dealers for promoting the interest and protection of the general public.	all motor v est and prc	w	4. Dealer licensing	4	44	74	12	12	71	113	. 46	51	5 4
		12. TOTAL LOCAL STATE 8 FEDERV TO LO	TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

HIGHWAY SAFETY PROGRAM ANNIJAL SIJBELEMENT PLAN	1.	State of Virginia	2. TITLE Motor Vehicle Registration	r Vehicle F	Registration	.3	NO. VR-73-261 46-73-02-05	73-261	4	DATE 4-1-72	-1-72
	5.	DRAFTED BY A. D. Harvey APPROVED BY J. T. Hanna	1971 FY-2	19 <u>72</u> FY-1	FI 1st Q	AL YI	FISCAL YEAR 19 73	4th Q	TOTAL	1974 FY+1	19 <u>75</u> FY +2
6a. EFFECTIVENESS											
6b. OUTPUT	C % Vehicles with mileage permits. V Total number vehicles registered	mileage permit <u>s</u> hicles registered		·							
7. RESP. 8. STD. DMV 302	 TASKS & MILESTONES Number mileage permits is A. Personnel – state level 	TASKS & MILESTONES Number mileage permits issued A. Personnel – state level	1969	2402	732	732	733	733	2930	3575	4362
	 Supervisors Clerks 	ors	2 1	7	2	2	1 2	7 7	1 2	7 7	7 7
10. DESCRIPTION		11. COST BY TASK									
5. Proper issuance of permits and collection of fees for vehicles operated over the highways under restricted conditions, which are too large to license.	nits and collection d over the highways , which are too	5. Mileage permits	44	47	12	12	12	13	49	51	54
		12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES									

		т	T								 	·		·
DATE 4-1-72	1975 FY+2					5395		7	47		· .		944	
DATE	197 <u>4</u> FY+1					4815		7	47				668	
4	TOTAL					4235	~	7	47				864	
73-261	3 4th Q					1059		7	47				216	
NO. VR-73-261	FISCAL YEAR 1973					1060		7	47				216	
8	ISCAL Y					1058			47				216	
	F. Ist Q					1058		7	47				216	
TITLE	1972 FY-1					3655		7	47	-			821	
LE	1971 FY-2					3024			47				778	
22	A. D. Harvey J. T. Hanna		% of vehicle information furnished	information	TONES	Number automated vehicle information requests (000)	te level					11. COST BY TASK	6. Automated vehicle information requests	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
M 1. State of Virginia	.5		C % of vehicle info	Number vehicle information	9. TASKS & MILESTONES	6. Number automate	A. Personnel — state level	1. Supervisors	2. Clerks				6. To answer all correspondence and furnish automated file information for the public, courts and law enforcement agencies by direct computer inquiry with a minimum response time.	
HIGHWAY SAFETY PROGRAM	ANNUAL SUBELEMENT PLAN	EFFECTIVENESS			8. STD. 9	302	-					PTION	6. To answer all correspondence and furnish automated file information for the public, courand law enforcement agencies by direct compuinquiry with a minimum response time.	
HIGHWAY SA	ANNUAL SUI	6a. EFFEC	6h OUTPUT		7. RESP.	DMV						10. DESCRIPTION	6. To answer automated file and law enforc inquiry with a	

HIGHWAY SAFETY PROGRAM	ri	State of Virginia 2. TI	TITLE Motor	Vehicle F	Motor Vehicle Registration	က်	NO. VR-	VR-73-261	4.	DATE	4-1-72
ENI PI	5. DRAFTED BY APPROVED BY	ED BY A. D. Harvey VED BY J. T. Hanna	19 <u>71</u> FY-2	19 <u>72</u> FY-1	FIS 1st Q	SCAL YE	FISCAL YEAR 1973 2nd Q 3rd Q	4th Q	TOTAL	19 <u>74</u> FY+1	1975 FY +2
VESS "Re	duction in % of vehicl	EFFECTIVENESS "Reduction in % of vehicles licensed as uninsured"		. 20					. 04	.03	.03
	C % vehicles licensed as uninsured	ed as uninsured	1.54	1.34	1.29	1, 33	1.30	1.30	1,30	1.27	1.24
	V Number vehicles licensed	s licensed (000)	2696	2818	294	294	1176	1176	2940	3062	3184
STD.	9. TASKS & MILESTONES	STONES									
302	7. Number uninsure	Number uninsured motor vehicles licensed (000)	41.5	37.4	& &	3.9	15.3	15.3	38.3	38.8	39.4
	A. Personnel – state level	te level									
	 Supervisors Clerks 		21 00	8 7	2 8	2 8	N 80	21 80	2 &	2 80	8 2
								<u></u>		-	
302	8. Automated data processing	rocessing									
DESCRIPTION		11. COST BY TASK									
ction of the ing vehic	7. To insure collection of the uninsured motorist fee on registering vehicles that are not insured and to encourage outpage to obtain		143	151	36	40	40	40	159	165	173
surance f	nistred and to encourage owners to obtain proper liability insurance for coverage in the event of a crash.	8. Automated data processing	2092	2208	581	581	581	582	2325	2413	2534
ant concer	 Tins subelement concerns electronic data processing of motor vehicle registration transactions. 	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES									

HIGHWAY SA	HIGHWAY SAFETY PROGRAM	-i	State of Virginia	2	2. TIT.	LE	TITLE Motor Vehicle Registration	egistratio	3.	NO. VR-7	VR-73-261 46-73-02-08	4.	DATE 4-1-72	1-72
ANNOALSO	Distribution of the control of the c	5.	DRAFTED BY APPROVED BY	A. D. Harvey Y J. T. Hanna		1971 FY-2	197 <u>2</u> FY-1	FI 1st Q	SCAL YE	FISCAL YEAR 1973	4th Q	TOTAL	19Z4 FY+1	19Z5 FY+2
6a. EFFEC	EFFECTIVENESS													
6b. OUTPUT	UT	C % of changed addresses on Vehicles Registered	addresses istered	s on vehicle registration	noi									
7. RESP.	8. STD.	9. TASKS & MILESTONES	ESTONES	S										
DMV	302	9. Overall progra	am admin	Overall program administration and management	ment									
		A. Personnel - state level	ate level											
		1. Administrators 2. Dept. Managers 3. Asst. Dent. Managers	ators tagers	ř.		L 4 C	- - + €	⊷ ग ∵	L 4 C	-1 4 c	r 4 c	1 4 0	⊣ ÷ (- 40
•			ss ess Cente	er Manager		1 ∞ →	1 20 11	1 ∞	1 × -1	1 & -1	7 8 1	1 &	7 8 1	1 8 7
		o. branch Managers 7. Asst. Branch Managers	nagers ıch Manag	; ers		9 7	9 7	9 7	9 71	9 7	9 7	5 6	9 7	9 7
DMV	302	10. Current addres	ss of owne	Current address of owner on vehicle registration	tion		Legis.	Imple.						
10. DESCR	DESCRIPTION	DESCRIPTION The remainful outlined in this articlement	9.	COST BY TASK \$(000) Overall program administration	0) nistration	344	364	95	96	96	96	383	398	818
are responsil	ble for the over sent of all progr	are responsible for the overall administration and management of all programs and projects.		and management	A									
10. Impleme to the passage the owner of	10. Implementation of this subelement is to the passage of enabling legislation to re the owner of a motor vehicle to not for the	10. Implementation of this subelement is subject to the passage of enabling legislation to require the owner of a motor vehicle to not for the					!		!					
Virginia Division of address. This whose vehicles he traffic violations. is planned to educ new requirement.	sion of Motor V This will perm es have been in ions. A public educate motor tent.	Virginia Division of Motor Vehicles of any change of address. This will permit location of owners whose vehicles have been involved in accidents or traffic violations. A public information program is planned to educate motor vehicle owners of the new requirement.	s or m he	TOTAL COST. \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES							-			

								9 4744 6		Motor Vehicle Registration	icle	c c	7 5	VR-73-261 46-73-02-10	46-73-02-101 DATH 4-1-72
HIGH	HWAY	HIGHWAY SAFETY PROGRAM	1. State o	State of Virginia	g			7117	1	200					
SUB	ELEM	SUBELEMENT SUPPLEMENT					<u> </u>	TASKS	-	-					
			TOTAL	1	2	3	4	ည	9	2	œ	6	2		
13.	Δ	1 ===													
	- '	Total \$(000)	7793	1580	1662	722	49	49	864	159	2325	 888 888 888			
	SO.	Federal	0	o	O	-	-	_ ·	> 0	> <	-	> 0			
	L	To Localities	0	•	0	0	0	0	>	-	0				
	~	Prev. Obligations	0	0	0	0	0	0	0	0 0	0	0 0			
		New Obligations	9	0	9	0		7	3	2	7	7	-		
	-	Standard:													
	В	Total													
	n	Federal	•												
	۲	To Localities													
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		Prev. Obligations						1				1			
<u>+</u>	Cl	Local Costs by Object													
	$\tilde{\ddot{x}}$	Salaries						•							
	<u>`</u>	Per Diem and Travel										- 100			
	ບັ	Contracts													
	ĕ	Equipment													
	Ē	Supplies													
	Z	Maintenance and Operations													and the second
		Total										1			

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. VR-73-261	Date	19_71	19 72		Ŧ	Fiscal Year	: 73		19.74	19 75.
40-73-02-11 Motor Vehicle Registration	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
* Accuracy of file										
1.										
* Average time for updating files										
2.										
* Average time of record retrieval from file- on-line. Beginning FY 1972	om file-		·							
3.										
* Average entry time of registration records on-line. Beginning FY 1972	ecords									
4.										
5.									;	
* Information will be available upon completion of the new Traffic Records Data System.	ompletion tem.									
.9										

MOTOR VEHICLE REGISTRATION

The long-term goal of the motor vehicle registration program is to reduce the number of deaths and injuries and the amount of property damage caused by traffic law violators who should have had their driving privileges revoked or suspended because of previous violations. The immediate goal is to make available such records that will enable the police to apprehend traffic violators in a minimum amount of time.

The Division of Motor Vehicles is responsible for this endeavor and performs the following in pursuing the above goal.

- (1) Ensures the proper titling of all vehicles and trailers to have record of all legal owners and lienholders and to prevent fraud upon the consumer in the purchase of a stolen vehicle.
- (2) Ensures the proper licensing of all vehicles and trailers in order that proper and instant identification is available. (Also see Subelement 310 Motorist Data Base Project.)
- (3) Ensures the proper collection of all motor fuel tax to ensure funds for highway construction and maintenance utilizing proven techniques of safety engineering and design.
- (4) Ensures the proper licensing of all motor vehicle dealers to promote the interest and protection of the general public.
- (5) Ensures the proper issuance of permits and the collection of fees for vehicles operated over the highways under restricted conditions because they are too large to be licensed.
- (6) Answers all correspondence and furnishes automated file information for the public, courts, and law enforcement agencies by direct computer inquiry with a minimum response time.

- (7) Ensures the collection of the uninsured motorist fee on the registration of vehicles that are not insured and encourages owners to obtain proper liability insurance for coverage in the event of a crash.
- (8) Provides the necessary means for the electronic data processing of motor vehicle registration transactions.

Subject to the passage of enabling legislation, the Division will:

- (1) Require the owner of a motor vehicle to notify the Division of any change of address. This will permit location of owners whose vehicles have been involved in an accident or traffic violation. A public information program is planned to educate motor vehicle owners of the new requirement.
- (2) Change from an annual renewal of vehicle licenses to a staggered license issue of a five-year plate that is revalidated annually. This will allow an individual to have permanent assignment of license plates and the law enforcement agencies the advantage of permanent identification of the registered owner, rapid identification and detection of stolen motor vehicles in crashes, and in the control of vehicle use by problem drivers.

1. DESCRIPTION Control of particular Control of	HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN	TY PROCR	AM	1. State of Virginia	ırginia	2. TITLE	ы	Motorcycle Safety	cle	F3	NO. 46-73-161	MS-73-161 46-73-03-01	-	DATE 4-1-72	1-72
12. TOTAL COST BY TASK (\$000) Cost is strong and stranged and stranged operations Cost is strong by the strange of the s				1	ا ہز		19 <u>71</u> FY-2	19.72 FY-1	FI 1st Q	SCAL YI	SAR 19 75 3rd Q	3 4th Q	TVTAL	19 74	19. <u>75</u> FY 2
## Androcycle ## And	EFFECTI	1	of Mot	orcycle Accide		97	see Effe	ctiveness	Supplen	ent to th	Subelen	ent			
rd - requirement for both driver and law Passed & Imple. Reate approved helmets. \$\begin{array}{c} \text{Imple}, \\ \text{\$\text{Figure}\$} \\ \text{\$\text{\$\text{final}\$e}\$} \\ \$\text{\$\tex{	OUTPUT		C% Dri Wo. D	vers Licensed rivers License	to Operate a Motorcycle										
11. COST BY TASK (\$000) Cost is shown within SEP Substituted Cont. Con			T 1.	SKS & MILEST felmet standar ider to wear st	ONES 1 - requirement for both drive ate approved helmets.		aw Passed Imple						mple.		
1. COST BY TASK (\$000) Cost is show: within SEP 804) Cos	tion	303		out of school pr lude as part of	ogram for motorcycle operation reducation pr	<u> </u>	Devoi.	Imple.	Con't.	Con't.			Con't.	Review Con't.	Con't. Review
1i. COST BY TASK (\$000) (Cost is show: within SEP 804) 2 and 3 (Cost is show: within SEP 804) 12. TOTAL COST (\$000) 0 20 55 5 7 5 72 112 1 12. TOTAL COST (\$000) 0 20 55 0 0 25 56 12. TOTAL COST (\$000) 0 20 55 11 5 7 5 72 112 1 12. TOTAL SHARE 0 0 25 0 0 0 25 56 56 STATE SHARE 0 10 27.5 2.5 3.5 2.5 36 56 TO LOCALITIES 0 0 27.5 2.5 3.5 2.5 36 56	epart- of Educ-	303		rogram to edu srs in proper n	cate operators, passengers, notorcycle operations.	ind deal-	Serrelop	Imple.	Imple.	Imple.	Imple.		Imple.	Imple. Review	Imple. Review
12. TOTAL COST (\$000) 0 20 55 5 7 5 72 112 112 112 112 112 112 112 112 112 112 112 112 112 113 114 114 115 114 115	DESCRIPT ough the nu ginia has bo ate that this panied by a juries resu	TON mber of mot en increasit tremendous correspond lting from m	torcycle ng each) s growth ling incre	registrations year, it is has not been ease in deaths le accidents.			Cost is	show: with	hin SEP	304)					
	nts, Virgir scident predication of i fization of i The presen grams to op	ia has estab rentive meas njury. Thes tation of mot	olished pusures and se progra torcycle	rograms in dost-crash ams include: safety pro-s, and dealers, s, and dealers.			0000	20 0 10 16 0	55 25 2.5 27.5	5 0 2.5 2.5 2.5	7 0 3.5 3.5	5 0 2,5 2,5	72 25 11 36 36	112 56 56 56	112 56 56 56 56

HIGHWAY SAFETY PROGRAM	ETY PROGRA	AM	1. State of Virginia	rginia	2. TITLE		Motorcycle Safety		3.	NOMS-73-161 46-73-03-02	-161 -03-02	4	DATE 4-1-72	1-72
ANNOAL SUBELEMENT FLAN	LEMENT FLA	Z K	5. DRAFTED BY APPROVED BY	D BY W. L. Howard ED BY J. T. Hanna		19 <u>71</u> FY-2	19 <u>72</u> FY-1	FI 1st Q	SCAL YE	FISCAL YEAR 19 73	յ 4th Q	TOTAL	19 74 FY+1	19 75 FY+2
6a. EFFECTIVENESS	IVENESS													
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6b. OUTPUT		^												
7. RESP.	8. STD. 303	9. TA	TASKS & MILESTONES Public Information Pro	TASKS & MILESTONES 4. Public Information Program (Contract with Consultant	Consultant		Contract Imple.		Imple.	Imple.	Imple.	Imple.	Review	Review
Local Political	303	5. N	Iotorcycle trai	5. Motorcycle training courses (No.)		0	0	61	0	0	0	8	4	4 4
Driver Education	303	9	dụcational TV	6. Educational TV Program for Motorcycle Safety	Δ ₁	Bids	Bids	Contract		Devel.	Imple.	Imple.	Update Update	Update
11 100	303	7. H	igh School Mot ithin Regular I	High School Motorcycle Safety Program (Included Within Regular Driver Education Curriculum)	nded	7 V F	Develop- Con't. ed-	Con't.	Con't.	Con't.	Con't.	Con't.	Update Con't.	Update Con't.
		8 11 %	Law Requiring That Moto Pass Special Motorcycle	Law Requiring That Motorcycle Operators Take and Pass Special Motorcycle Driving Test (Special Permit)	ke and .l Permit) _F									
10. DESCRIPTION	TION			11. COST BY TASK (\$000)										
2. Establishn	Establishment of motorcycle training	rcycle tr	aining	4. Public Information Program	gram	0 0	20	ته د	ഹ	ഹ	ഹ	20	01 0	10
classes at of school 1	classes and facilities for both in and out of school motorcycle operators.	or both perators	in and out		ourses		00	2 0	0 0	o 81		2 20	700	100 7
3. Programs automobile limitations	Programs, via newsmedia, to familiarize automobile operators with the inherent limitations and hazards of motorcycle	edia, to vith the i	familiarize inherent orcycle	7. High School		(Cost	(Cost Shown in SEP 304)	SEP 304)						
operations State's dri	operations. This is also discussed in the State's driver education programs.	so discu n progra	ssed in the	12. TOTAL COST (\$000) LOCAL SHARE							, , , , , , , , , , , , , , , , , , , 			
Recognizing that accidents will occur regard-less of precautions, the State has enacted legislation requiring that all motorcycle drivers and	hat accidents ons, the State that all moto	will occ e has ene rcycle d	ur regard- acted legis- lrivers and	STATE SHARE FEDERAL SHARE TO LOCALITIES										

HIGHWAY SAFETY PROGRAM	1.	State of Virginia	1	2. TITLE	LE	Motorcycle Safety	le 3.	NO. MS-73-161 46-73-03-03	$\frac{161}{03-03}$	7	DATT.	4-1-72
ANNUAL SUBELEMENT PLAN	5.	DRAFTED BY APPROVED BY	W. L. Howard J. T. Hanna		19.71 FY-2	19 <u>72</u> FY-1	FISCAL Y 1st Q 2nd Q	EAR 19 73 3rd Q	3 4th Q 1	TOTAL	19 74 FY+1	$19 \overline{75}$ FY+2
6a. EFFECTIVENESS												
2												
6b. OUTPUT V												
7. RESP. 8. STD. 9.	TASKS & MILESTONES	ESTONES					·					
Driver Education	o Data Cristom				c	Survey	Contract		<u>,</u>	Imple.	IIndate	Trodate
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Re cords Committee												
				-								
												
10. DESCRIPTION		11.	COST BY TASK (\$000)	((
passengers wear a State-approved helmet and	ed helmet and	6	Data System		(Cost	(Cost Shown in SEP 310)	SEP 310)					
area some type of eye protection. During the next fiscal year the State plans to hire a con-	n. During the to hire a con-											
sultant to develop and submit an educational	educational											
program in motorcycle safety to be used through-	be used through	-1 -										
as part of the driver education curriculum.	y will be included turriculum.	, n							-			
Guidelines for developing a motorcycle edu-	otorcycle edu-	12.	TOTAL COST (\$000)									
cation program have already been completed and	en completed and		LOCAL SHARE				<u>-</u> -			- • · · · · · · · · · · · · · · · · · · 		
sent to all political subdivisions by the Driver Religation Semijors of the Gate Department of	by the Driver		STATE SHARE						 -			
Education The driving ranges and other conin-	Department of		FEDERAL SHARE									
ment at our local high schools will be utilized in	all be utilized in	·	TO LOCALITIES									

Motorcycle Safety $\frac{MS-73-161}{46-73-03-04}$ DESCRIPTION: (Cont.)

teaching the motorcycle safety program. The State is also looking into the possibility of building several motorcycle training courses for the instruction of proper motorcycle operation. These courses would be very similar to the multi-car driving ranges. The Driver Education Services of Virginia is currently working with the Traffic Records Committee appointed by the Director of the Highway Safety Division to develop a data system that would enable the state to effectively evaluate the entire motorcycle safety program throughout the State.

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DATE 4																																						
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MS-73-161																																						
3. No. 47-73-03-05 4. DATE 4-1-72		10																																				
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State of Virginia																																						
1. State		TOTAL		7.5	36	36		36		•														<u>L 11.</u>				-							,		-	
HIGHWAY SAFETY PROGRAM	SUBELEMENT SUPPLEMENT		Standard: 303	Total (\$000)	Federal	To Localities	Prev. Obligations	New Obligations	Standard:	Total	Federal	To Localities	Prev. Obligations	New Obligations	Standard:	Total	Federal	To Localities	Prev. Obligations	New Obligations	Standard:	Total	Federal	To Localitics	Prev. Obligations	New Obligations	Total	Federal	To Localities	Prev. Obligations		Salaries	Per Diem and Travel	Contracts	Equipment	Supplies	Maintenance and Operations	Total
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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

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FY+1		873	712				
Total		740	581 13				
4th Qt.							
3rd Qt.							
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FY-1		813 10	673 26				
FY-2		819 22	652 26				
4/1/72							until eveloped.
١	EFFECTIV	Urban Motorcycle Accidents Fatalities	Rural Motorcycle Accidents Fatalities	1			* Projected ** Information will not be available until new traffic records system is developed 6.
	4/1/72 FY-2 FY-1 1st Qt. 2nd Qt. 3rd Qt. 4th Qt. Total FY+1	3-161 4/1/72 FY-2 FY-1 1st Qt. 2nd Qt. 3rd Qt. 4th Qt. Total FY+1 63-06	MS-73-161 4/1/72 FY-2 FY-1 1st Qt. 2nd Qt. 3rd Qt. 4th Qt. Total FY+1 EFFECTIVENESS Urban Motorcycle Accidents 819 813 813 740 873 77 Fatalities 22 10 11 10 11	MS-73-161 46-73-03-06 4/1/72 FY-2 FY-1 1st Qt. 2nd Qt. 4th Qt. Total FY+1 EFFECTIVENESS 819 819 813 740 873 10 Urban Motorcycle Accidents 22 10 740 873 11 Fatalities 652 673 673 11 712 72 Fatalities 26 <t< td=""><td> MS-73-161</td><td> MS-73-161</td><td> MS-73-161</td></t<>	MS-73-161	MS-73-161	MS-73-161

MOTORCYCLE SAFETY

In 1961 there were 6,347 motorcycles registrations in Virginia. This figure increased to more than 33,000 in 1970. Accident data since 1966 indicate that very little has been done toward reducing the number of accidents due to the increased registrations and lack of sufficient motorcycle safety programs. In 1966 there were 1,421 motorcycle accidents with 23 persons killed. In 1967 there were 1,471 accidents with 48 persons killed. Accidents increased to 1,486 in 1968 but the number of fatalities decreased by 12. 1969 showed the first major decrease in motorcycle accidents. There were only 1,321 accidents in 1969 with only 23 people killed. This improvement can be attributed to the state's highway safety programs and the passage of a law requiring that all motorcycle drivers and passengers wear a state approved safety helmet.

In 1970 there was a substantial increase of more than 7,000 motorcycle registrations over 1969. This was the largest increase since 1966. Accordingly, the number of accidents increased from 1,321 in 1969 to 1,585 in 1970. However there were only 28 persons killed, which once again indicates that the recently developed motorcycle curriculum, informational programs, and the passage of the helmet law have contributed significantly toward the goal of reducing the number of persons killed and injured on the highway.

Programs proposed for fiscal year 1973, which will assure continuing decreases in deaths and injuries among those operating motorcycles, include the following:

(a) Development and implementation of an out-of-school motorcycle safety program. The program will be integrated within the adult driver education program utilizing the facilities and equipment at high schools.

- (b) A public information program designed to familiarize the driving public as well as the general public with the inherent limitations and hazards of motorcycle operations will be developed and implemented.
- (c) A motorcycle safety curriculum will be presented through the high school driver education program for the purpose of training all potential motorcycle operators concerning the proper operation and the limitations of motorcycles. An educational television program will also be developed for this purpose.

During the next fiscal year the state plans to hire a consultant to develop and submit an educational program in motorcycle safety to be used throughout the state. Motorcycle safety will be included as part of the driver education curriculum. Guidelines for developing a motorcycle educational program have been completed and sent to all political subdivisions by the Driver Education Services of the State Department of Education. The driving ranges and other equipment at local high schools will be utilized in teaching the motorcycle safety program. The state is also looking into the possibility of building several motorcycle training courses for instruction in the proper operation of motorcycles. These courses would be similar to the multi-car driving ranges. The Driver Education Services is currently working with the Traffic Records Committee appointed by the Director of the Highway Safety Division to develop a data system that will enable the state to effectively evaluate the entire motorcycle safety program throughout the state.

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HIGHWAY SAFETY PROGRAM	TY PROGR		1. State of Virginia	Virginia	2. IIT	High LE Drive	High School FITLE Driver Education	Ę		NO 46-73-161	DE-73-161 6-73-04-01		DATE 4/1/72	/1/72
ANNUALSOBEL	EMENI T	L	5. DRAFTED BY APPROVED BY	≫ +		1971	19.72		FISCAL YEAR 19 73	AR 19 7			1974	19.75
6a EFFECTIVENESS	VENESS No.		of Traffic Violations Per 100	s Per 100 Students		17.1	13	* See E	* See Effectiveness Supplement	ss Suppl	ement	101.41,	1 1 4	9
	i		nt of High Sch		r Education	S 00	57 90		to the substemen	otement		16	66	26
65. OUTPUT		V No. c	of High School	No. of High School Students Taking Driver Education	dueation	63,087	96, 200					69,000		70,000
7. RESP. 8. Driver Ed.	STD. 304	9. TAS 1. Requ	TASKS & MILESTONES Requirement of Driver E	TASKS & MILESTONES Requirement of Driver Education Certificate		Cont'd.	Conf'd.	Cont'd.	Cont'd.	Cont'd.	Cont'd.	Cont'd.		Cont'd.
Supervisor	304	2. State	swide Educatic	Statewide Educational TV. No. of Educational Presentations	resentations	180	180	22	23	32	23	06	06	90
Supervisor	304	3. Seme	ester Driver	Semester Driver Education Program (No.)		-	4	œ	œ	œ	œ	œ	6	12
Supervisor	308	4. Alcoi	Alcohol Countermeasures	neasures Program		Imple.	Cont'd.	Cont'd.	Cont'd.	Cont'd.	Cont'd.	Cont'd.	Cont'd.	Cont'd.
Supervisor	304	5. Drive	er Education	Driver Education Car Control Program		Contra	Cont'd.	Cont'd.	Cont'd.	Cont'd. (Cont'd.	Cont'd	Cont'd.	Cont'd.
Sapervisor	304	6. Mem	Membership in Pr No. of Members	Membership in Professional Organizations (VADETS) No. of Members	(VADETS)	200	200	220	220	220	220	220	240	260
Supervisor	304	7. Prog Teac	Program for the Preparati Teachers. No. of Colleges	Program for the Preparation of Driver Education Teachers. No. of Colleges with Approved Curriculum	ation urriculum	13	14	15	15	15	15	15	15	15
The long-term goal of the High School Driver Education program in Virginia is to help reduce the number of accidents including fatalities, personal injuries and property damage caused by drivers with poor driving habits and/or attitudes. To accomplish this we intend to make available a driver education course to all plinthe his behavior	ION Ion in Virgini idents inclu property d driving hab s we intend	High Scholais is to he uding fatal lamage causits and/or	ol Driver lities, per- used by r attitudes available a	11. COST BY TASK \$(000) 1. Driver Education Certificate 2. Educational TV	\$(000) certificate	0.0	6.0	0.5	1.0	1.0	0.5	6, 4, 0	0 O	2.0
students. In meeting the above goal, we intend to	ung the abo	it etigibie we goal, v	we intend to	12. TOTAL COST \$(000)	(0)	11191.1 13130.4	1		3643.33	3643.33 3643.33 3643.33 15257.5	3643.33	15257.5	15004.6 15422.6	15422.6
accept the responsibility at the state level for	sibility at tl	he state le	evel for	LOCAL SHARE	,	~		85	2875.83	2876.83	2876.83	2875,83 2876,83 2876,83 11589,35 10804,6 10322,6	10804.6	10322.6
leadership in regard to direction, coordination,	ird to direc	tion, coor	rdination,	STATE SHAPE			2640	731	731	730			3200	4000
supervision, and promotion of quality driver edu- cation programs. (See Attachment A.) Projects	(See Attach	or quality (projects	FEDERAL SHARE TO LOCALITIES	-	554 508	258.735	716.65 698.5	36.5	36.5	36.5	826.15 761.8	1000 950	1100
and programs being utilized at present to implement	ng utilized a	at present	to implement	nent:	r Crant to Hu	Honga Road	O Soom	- dor						

Includes a One-Million-Dollar Grant to Human Resources Research Organization from the Federal Government.

1. State of Virginia High School 3. NO. DE-73-161 4. DAFT	5. DRAFTED BY William Howard 1971 19 72 FISCAL YEAR 19 73 19 74 APPROVED BY John T. Hanna FY-2 FY-1 1st Q 2nd Q 3rd Q 4th Q TOTAL FY+1 FY+1	EFFECTIVENESS OUTPUT C	8. STD. 9. TASKS & MILESTONES 304 8. Reevaluation of Driver Education Certificate 304 9. Submit data pertaining to Deaths, Accidents and Violations to all schools offering driver education. (No. of Localities Receiving Report) 304 10. Contract With Human Resources Research Organization (Hum RkO) For Model Curriculum Guide. Contract Study Analysis Imple. Bevelop- Imple. ment ment	11. COST BY TASK (\$000) t 10. (HumRRO) 403 Funds	to apply for a Virginia operator's license 12. TOTAL COST prior to 18 years of age. Statewide educational television utilizing "Sportsmanlike Driving" series. Semester course scheduling — pilot program. TO LOCAL SHARE SEMESTER SHARE TO LOCAL SHARE	HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN 6a. EFFECTIVENESS 6b. OUTPUT 7. RESP. 8. STD. 9. TASKS & M Driver Educ. Services 304 9. Submit data Violations (No. of LC (No. of LC (Hum RRO) F (Hum RRO) F 10. DESCRIPTION continued. 11. Passing of 1968 Legislation requiring tha all persons shall successfully complete a state approved Driver Education program consisting of both classroom instruction and in-car instruction before being eligib to apply for a Virginia operator's license prior to 18 years of age. 2. Statewide educational television utilizing "Sportsmanlike Driving" series. 3. Semester course scheduling - vilor program "Sportsmanlike Driving" series.	te of Virginia RAFTED BY William Howard PPROVED BY John T. Hanna MILESTONES on of Driver Education Certificate a pertaining to Deaths, Accidents and s to all schools offering driver education. Ocalities Receiving Report) With Human Resources Research Organizati For Model Curriculum Guide. 11. COST BY TASK (\$000) at 10. (Humbro) 403 Funds a LOCAL SHARE STATE SHARE STATE SHARE FEDERAL SHARE	TLE 197	High Schocat 19.72 FY-1 FY-1 Contract Bids	alysi dy dy ddy	1. YEAR 19 7 14 3 3 rd Q 3 rd Q 0 250	131 131 250 250	Analysis I 131 Development ment 1,000	mple. mple. 131 131 131 131 131 131 131 131 131 13	4-1-72
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HIGHWAY SA	HIGHWAY SAFETY PROGRAM		State of Virginia	83	2. TIT	TITLE Driv	High School Driver Education	al tion	3.	NO. 46-	DE-73-161 46-73-04-03	4-	DAT' 4-1-72	-1-72
ANNOAL SUE	ANNOAL SOBELEMENT FLAN	5.	DRAFTED BY APPROVED BY	William Howard		19.71 FY-2	19 72 FY-1	FB 1st Q	SCAL YE	FISCAL YEAR 1973	4th Q	TOTAL	19 <u>74</u> FY+1	19 75 FY+2
6a. EFFEC	EFFECTIVENESS													
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7. RESP.	8. STD.	9. TASKS & MILESTONES	ESTONE	હે					· · · · ·					
Driver Educ.														
Supervisor	304	 Personnel State Level 	vel											
		i.	rvisor	\$16,500		7	7	. 	н	-	п	1	н	1
		2. Assis	stant Supetaries	Assistant Supervisors \$13, 000 each Secretaries \$6,000 each	ach	1 2	01 m	ကက	ကက	ကက	ი ი	ကက	ო ო	ကက
Local School	304		ersonne	1								- 	,	
Board		1. Coor	dinators	ach		17	20	21	21	21	21	21	22	23
			sroom h	tors	\$8,000 each	746	804	820	820	820	820	820	006	930
			In-Car Instructors	uctors \$8,000 each	each	640	069	740		_		740	710	720
		4. No. c	of Teach	No. of Teachers Endorsed to Teach Driver	ach Driver	3,750	4,225	4,700	4, 700	4,700	4,700	4,700	2,000	5,500
			Education	•										
		5. Annu	ıal help,	Annual help, part-time								5	5	ည
10. DESCRI 5. Alcohol C 6. Driver Ed 7. Memberst 10n for D and the V The Drive ment of E tire progr The Divi a data sy of person training o	DESCRIPTION (continued) Alcohol Countermeasures Program Driver Education Car Control Prog Membership in (VADETS) Virginia. tion for Driver and Traffic Safety Eand the Virginia Education Associate The Driver Education Services of the ment of Education is responsible for tire program in Virginia. The Division of Motor Vehicles has a data system to analyze the drivin of persons completing a driver educating course and those receiving	DESCRIPTION (continued) Alcohol Countermeasures Program Briver Education Car Control Program Membership in (VADETS) Virginia Association for Driver and Traffic Safety Education and the Virginia Education Association. The Driver Education Services of the Department of Education is responsible for the entre program in Virginia. The Division of Motor Vehicles has designed a data system to analyze the driving history of persons completing a driver education training course and those receiving a driver	11. 11. 11. 12 12. rr	COST BY TASK (\$000) Personnel A. State B. Local (12 Mo. Pay Period) TOTAL COST LOCAL SHARE STATE SHARE TO LOCALTIES TO LOCALTIES	\$000) Pay Period)	38.1	58.1 12,232	18.375 3253.5	18.375 3253.5	18.375 3253.5	18.375	73. 5	78.5	82.5 13,524

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HIGHWAY SAFETY PROGRAM	PROGRAM	1. State of Virginia	'irginia		2. TITL	E Driver	TITLE Driver Education	Į į	ю [.]	NO. 46-73-04-04	3-04-04	''	DATE 4	4-1-72
		5. DRAFTED BY APPROVED BY	D BY William Howard FD BY John T. Hanna	Howard Hanna	· <u></u>	19 71 FY-2	19 <u>72</u> FY-1	1st Q	SCAL YE	FISCAL YEAR 19 <u>73</u> 2nd Q 3rd Q	4th Q	TOTAL	19 74 FY+1	19. 75 FY+2
6a. EFFECTIVENESS	ESS													
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6b. OUTPUT	>													
7. RESP. 8. S	STD. 9.	TASKS & MILESTONES	TONES											
	304 12.	Program Administration (State)	nistration (State)			Con't.	Con't.	Con't.	Con't.	Com't.	Con't.	Con't.	Con't.	Con't.
vices 30	304 13.		ravel, kent Local)							•				
Local School		A. Projectors	\$400 each			0	6	10				10	ນ	10
Board			rd \$80 each			0	벋	20				20	10	15
			Storage and File Cabinets \$125 each	25 each		0	6	20				20	10	15
			Porto Clinics \$350 each			0 (∞ ₍	15		-		15	10	15
	 ,,	E. Tape Kecord	Tape Recorder \$200 each	1 #19E 2021			n (ص ر				<u>.</u> ت	က	œ (
			IV DEIVOURAINEL	r) otto each		 >	>	#77 F				57	7.8	32
			<u>.</u>					Misc.				Misc.	Misc.	Misc.
														-
10. DESCRIPTION continued. education certificate to determine the effective-	continued.	the effective-	11. COST BY	COST BY TASK (\$000)										
ness of the driver education training course in	ication train	ing course in		Administration (State) (Supplies)	pplies)	1.5	1.6	0,45	0.45	0.45	0.45	1.8	23	81
preparing the individual to be a better safe driver.	ial to be a b	etter safe driver.	13. Teaching A	Teaching Aids (Local)		NA	9.7	18	0	0	0	18.0	12	15
The frequency and type of accidents and convic-	se of accider	nts and convic-												
tion involvement were analyzed and related to the	analyzed a	nd related to the												
fact of whether or not an individual had a driver	an individu	al had a driver												
training course, and the jurisdiction in which the	the jurisdict	ion in which the							-					
course was given. A report was sent to all	report was	sent to all			-								1	
school systems having driver education. This	g driver edu	cation, This	12. TOTAL COST	TSO.										
report included the number of accidents, viola-	imber of acc	cidents, viola-	LOCAL SHARE	HARE					-			-		
tions, and tatalities within each school jurisdic-	vithin each s	chool jurisdic-	STATE SHARE	HA RE										
tion. (See Attachment B for example.) The	t B for exan	nple.) The	FEDERAL SHARE	L SHARE										
traffic records committee is in the process of	ittee is in th	e process of	TO LOCALITIES	ALITIES										
developing a comprehensive data program that	ensive data	program that							_		_			

DATE 4-1-72	19 75 FY+2	12	.60 	0 0 0 0 0 0 0 0 0 0 0 0	د 583	
4. DAT	19 <u>74</u> TOTAL FY+1			800 800 800 800	506	
05				950 950 488 950	5 478	
NO. 46-73-04-05	9 73 2 4th Q			950 950 488 950	.5 119.5	
	FISCAL YEAR 19 73 2nd Q 3rd Q		·	950 950 488 950	119.5	
 	FISCAL >			950 950 488 950	119.5	
hool catio n	Ist Q			950 950 488 950	119.5	
High School Driver Education	19 <u>72</u> FY-1			900 900 408 900	437	
TITLE Dr	19 L FY-2			890 890 264 890	391	
State of Virginia	DRAFTED BY William Howard APPROVED BY John T. Hanna			KS & MILESTONES tractual Services Vehicles Vehicle Maintenance (Gas, Oil) \$200/Veh. Maintenance Agreements (Simulators) Car Insurance \$150/Car	 COST BY TASK (\$000) Contractual Services 	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
1.	5.	ENESS) >	STD. 9. TASKS & MILESTONES 304 14. Contractual Services A. Vehicles B. Vehicle Maintenan C. Maintenance Agreet D. Car Insurance \$150.	10. DESCRIPTION continued. will enable us to evaluate our driver education program more effectively. The school systems in our state continue to update their programs by purchasing simulators and driving ranges and also by hiring additional teachers to provide driver education to all eligible students. The Safety Section of the Virginia Highway Research	Council is developing a driver education curriculum unit of instruction designed primarily to inculcate and/or modify attitudes of high school students who are learning to drive.
HIGHWAY SAFETY PROGRAM	ANNOAL SOBER	6a. EFFECTIVENESS	6b. OUTPUT	7. KESP. 8. Local School Board	10. DESCRIPTION will enable us to eval program more effecti in our state continue by purchasing simula also by hiring additio driver education to al Safety Section of the	Council is develor riculum unit of ins to inculcate and/o school students wh

HIGHWAY SAFETY PROGRAM	RAM	1. State of Virginia	TITLE Driv	High School Driver Education	ool ion	3. Z	NO. DE-73-161 46-73-04-06	1 +	DATE 4-1-72	-1-72
		5. DRAFTED BY William Howard APPROVED BY John T. Hanna	19 <u>71</u> FY-2	19 <u>72</u> FY-1	FIS 1st Q	FISCAL YEAR 19 73	3rd Q 4th Q	TOTAL	19 <u>74</u> FY+1	19. <u>75</u> FY+2
6a. EFFECTIVENESS						-	\vdash			
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7. RESP. 8. STD.	9. TA	TASKS & MILESTONES								
Local School Board 304	15. P ₁	Procedure Equipment A. Simulators 12 Station Units at \$38,000 each	10	ю				10	67	67
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	ប់ព័	. Drivocators \$14,000 each . Office Equipment	NA	NA				ကက	ကက	ကက
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		B. Ranges C. Drivocators	250	270	240	0 0	00	240	90	9¢ 42
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		12. TOTAL COST (\$000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES								

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TITLE D	19 <u>71</u> FY-2				H & H 4 H 80 0	• 506	
1. State of Virginia	5. DRAFTED BY William Howard APPROVED BY John T. Hanna	-		TASKS & MILESTONES	16. Procure Equipment C. State Level 1. Projectors at \$220 each 2. Tape Cartridges at \$3.00 each 3. Cousing at \$225.00 each 4. Slide Trays at \$3.00 each 5. Carrying Case at \$11.00 each 6. Lamps at \$10.00 each 7. Bookcases at \$200.00 each 8. Typewriter at \$700.00 each	11. COST BY TASK (\$000) 16. Equipment (State)	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
HIGHWAY SAFETY PROGRAM		EFFECTIVENESS	T V	8. STD. 9. T	304 16.		
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HIGHWAY SA	HIGHWAY SAFETY PROGRAM	AM	1. State of Virginia	'irginia		2. TITI	High S	TITLE High School Driver Education	ver	3.	NO. DE-73-161 46-73-04-08	73-161	4	DATE 4/1/72	/1/72
ANNUAL SUB	ANNUAL SÜBELEMENT PLAN	N A.	5. DRAFTED BY APPROVED BY	ED BY	William Howard John T. Hanna		19.71 FY-2	19 <u>72</u> FY-1	FIB 1st Q	SCAL YE	FISCAL YEAR 19 <u>73</u> 2nd Q 3rd Q	4th Q	TOTAL	19 <u>74</u> FY+1	19 <u>75</u> FY+2
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7. RESP.	8. STD.	9.	TASKS & MILESTONES	TONES		on anger treatment		A STATE OF THE STA							
DMV	310	1-	Traffic record data from the c relate the data.	s system fo iriver histo , and produ	Traffic records system for extracting the precessary data from the driver history file, in effective the data, and produce a final report.	secssary		Seveloped Report		Report	Report	Report	Report	Update	Uydate
Traffic Records Committee	310	18.	In conjunction develop a data the high setsool	with the tra system for driver edu	In conjunction with the traffic records committee develop a data system for measuring more effectively the high school driver education program.	ittee ffectively		Analysis	Devel- oped	Devel-	Report	Beport	Report	Imple.	Imple
Highway Research Council	304	19.	Develop Aftibu	Je Modificat	Develop Attitude Modification Curriculum.		Devel- oped	Imple.	**************************************	e en en en en en en en en en en en en en			Evaluate		
Driver Educ. Services	303	20.	Motorcycle Driver Education Program	iver Educat	ion Program		Survey	Devel- oped	Imple.	Cont'd.	Cont'd. Cont'd. Imple.	Cont'd.	Imple.	Cont'd.	Cont'd.
10.				11. COS 17. Da 19. De	COST BY TASK \$(000) Data System Develop Curriculum	6	Cost	Cost Included	In SEP 300 — Under Safety Section	- O	er Safets	Section			
				12. TOT LOC STA FEI TO	TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. DE-73-161 Date	, e	19_70	17 61		H	Fiscal Year 72	r 72		19_73	19_74
u,	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
* Number of violations among those completing a high school driver education course.		10,969								
1.			e ²							
* Personal injuries among those having completed high school driver education	mpleted	2,716								
.2	·									
* Fatalities among those having completed because school driver education	high	56								
3.										
4.										
										
.0.										
* These figures represent the injuries and fatalities among those students who have completed high school driver education in the school year 1970-71	the									
.9										

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. DE-73-161	Date	19 71	19 72		1	Fiscal Year 1973	r 1973		19 74	19_75
Commercial Driver Education	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
* (1) Deaths (2) Injuries (5) Economic loss among those completing a commercial driver education course	pleting a urse									
2,										
÷									·	
4.									·	
5.										
* Data not available. (See SEP 310)										

ATTACHMENT A

WORK PROCEDURES IN DEVELOPING THE STATE APPROVED DRIVER EDUCATION PROGRAM

Active assistance by staff members includes:

- 1. Provide advisory and consultive services to help local school systems improve and expand their programs,
- 2. Aid local school systems in developing effective patterns of administration and supervision,
- 3. Establish and promulgate standards for high school courses,
- 4. Encourage teacher preparation institutions to establish and offer high-quality teacher preparation programs,
- 5. Develop and distribute resource materials, i.e., curriculum guides, administrative handbooks, and other pertinent information,
- 6. Develop guides to aid school divisions in the purchasing or otherwise obtaining automobiles and other equipment for laboratory instruction, including plans for the preventive maintenance of such equipment and its periodic replacement,
- 7. Advise local school systems on matters of insurance and legal responsibilities related to administration and operation of programs,
- 8. Stimulate local school systems to undertake in-service programs for teachers and to encourage these teachers to acquire additional professional preparation,
- 9. Serve as liaison staff in order to develop and maintain close working relationships with interested agencies (both official and nonofficial),
- 10. Counsel on types of, and specifications for, facilities and equipment to take advantage of new developments (use of television, multiple-car driving ranges and simulators).

ATTACHMENT B

SAMPLE BREAKDOWN OF DRIVER EDUCATION STATISTICS FOR SCHOOL YEAR 1970-71

DIVISION
SCHOOL
City

Sample Numbers

1	· Total Number of Students Successfully Completing a State-approved Driver Education Program in the State	in the State	63,087
8	. Total Number of Students Successfully Completing a State-approved Driver Education Program in Your School Division	in Your School Division	109
တ် *	• The Rank of Your Division as Compared to Other School Divisions for Students Successfully Completing a State-approved Driver Education Program	mpleting a State-	29
4	. Total Number of Violations in the State, City, and County	City County Total	3,995 6,974 10,969
ည်	, Total Number of Violations in Your School Division		21
•9 *	. The Rank of Your Division as Compared to the Rank of Other School Divisions in Violations		26
7	. Your Rank in the State as to the Number of Students Trained in Your Division as Compared to the Rank for the Number of Violations in your Division	Trained Violations	29
o	. Your School Division Had 19 Violations for Every 100 Students Trained. The Average Number of Violations per 100 Students Trained in the State is:	County City	17 18

Cities Ranked with CitiesCounties Ranked with Counties

SAMPLE

DRIVER EDUCATION STATISTICS FOR FISCAL YEAR ENDING JUNE 30, 1971

City						127	
ACCIDENTS	NO	NO. DRIVERS INVOLVED M. F	ERS 7ED	VIOLATIONS, TYPE	NO.	NO. DŘIVER INVOLVED M	SS (H)
PERSONAL INJURY	വ	ည	0	SPEEDING	9	9	0
PROPERTY DAMAGE 10	E 10	œ	2	RECKLESS DRIVING	က	က	0
FATALITY	0	0	0	DRIVING INTOXICATED	H	₩	0
				OPER. IMPROPER CONTROL		1	0
				IMPROPER DRIVING	က	က	0
				IMPROPER EQUIPMENT	, - 1	1	0
				OPER. VEH. ILLEGAL/NO			
				INSPECTION STICKER	7	-	-
				DRIVE WITHOUT LIC.	H	-	0
				NO OPER. LIC.	-	1	0
				EXPIRED LIC.	1	Н	0
				TITLE, REGISTER, LIC. PLATES		-	0
				TOTAL	21		

19 T 19 T 18 T 2	HIGHWAY SAFETY PROGRAM	Y PROGRAM	1.	State of Virginia	Z. TIT	TITLE Adult Driver Education	Driver Ed	ucation	3.	NO. 46-73-162	3-162 3-04-01	4.	DATE 4.	4-1-72
SECTIVENESS See Effectiveness Supplement to the Subelement	ANNOAL SOBELE	MENI FLA	5.	¥	vard 1a	19 71 FY-2	19 <u>72</u> FY-1	FE 1st Q	SCAL YE		4th Q	TOTAL	1974 FY+1	19 75 FY+2
SSP. 8. STD. 9. TASKS & MILESTONES			See Effectiveness Sa	upplement to the Subel	ement									
SSP. 8. STD. 9. TASKS & MILESTONES 304 1. Achil driver education curriculum 304 2. Motorcycle safety curriculum 304 2. Motorcycle safety curriculum 304 3. Driver education curriculum for EMS personnel 304 4. Professional staff 304 4. Professional staff 304 4. Professional staff 304 4. Professional staff 305 304 4. Professional staff 306 4. Professional staff 307 307 BY TASK \$(000) 308 309 3. Driver education Services of Virginia at III. COST BY TASK \$(000) 309 4. Professional staff 309 4. Professional staff 309 5. TOTAL COST BY TASK \$(000) 309 5. Services of Virginia at III. COST BY TASK \$(000) 309 6. Services of Virginia at III. COST BY TASK \$(000) 309 6. Services of Virginia at III. COST BY TASK \$(000) 309 7. Services of Virginia at III. COST BY TASK \$(000) 309 7. Services of Virginia at III. COST BY TASK \$(000) 309 7. Services of Virginia at III. COST BY TASK \$(000) 309 7. Services of Virginia at III. COST BY TASK \$(000) 309 7. Services of Virginia at III. COST BY TASK \$(000) 309 7. Services of Virginia at III. COST BY TASK \$(000) 309 7. Services of Virginia at III. COST BY TASK \$(000) 309 8. Services of Virginia at III. COST BY TASK \$(000) 309 8. Services of Assisting at III. COST BY TASK \$(000) 309 9. Services of Assisting at III. COST BY TASK \$(000) 309 9. Services of Assisting at III. COST BY TASK \$(000) 309 9. Services of Assisting at III. COST \$(000) 309 9. Services of Assisting at III. Services of Assisting at I		Ö	% of Adult Drivers	Completing Adult Drivrs Completing Adult D	er Education river Education									
304 1. Adult driver education curriculum 304 2. Motorcycle safety curriculum 304 3. Driver education curriculum for EMS personnel 304 4. Professional staff 304 4. Professional staff 304 4. Professional staff 304 4. Professional staff 305 304 4. Professional staff 306 305 306 306 306 306 306 306 306 306 306 306	RESP.	1	TASKS & MILES'	TONES										Instruct
304 2. Motorcycle safety curriculum 304 3. Driver education curriculum for EMS personnel 304 4. Professional staff 304 4. Professional staff 304 4. Professional staff 304 4. Professional staff 305 52 RIPTION 304 4. Professional staff 305 52 FRIPTION 306 53 Driver education Services of Virginia the State for the purpose of assisting as with the establishment of all out-of-river education programs. The adult proloty outh, emergency medical services of virginia for adults, chool youth, emergency medical services of virginia and property as with the establishment of all out-of-river education programs. The adult proloty outh, emergency medical services of virginia for adults, chool youth, emergency medical services of virginia for adults. 1. TOTAL COST BY TASK \$(000) 1. Adult driver education 2. Motorcycle safety curriculum 304 4. Professional staff 4. Professional staff 4. Professional staff 4. Professional staff 5. TOTAL COST \$(000) 6. Cost shown in the state for the purpose of assisting as with the establishment of all out-of-river education programs. The adult proloty outh, emergency medical services 1. TOTAL COST \$(000) 6. Cost shown in the state for the purpose of assisting as with the establishment of all out-of-river education programs. The adult proloty outh, emergency medical services 1. TOTAL COST \$(000) 1. Adult driver education programs. The adults, chool of the purpose of assisting and the purpose of a second and the purpose of a second an	·			cation curriculum			Developed							Review
304 2. Motorcycle safety curriculum 304 3. Driver education curriculum for EMS personnel 304 4. Professional staff SSCRIPTION The Driver Education Services of Virginia at at at for the purpose of assisting swith the establishment of all out-of-river education programs. The adult proporty chool youth, emergency medical services of the Driver Education Services of STATE SHARE 11. COST BY TASK \$(000) 12. Adult driver education 13. Driver education for EMS personnel 14. Professional staff 15. Adult driver education 16. 1 17. 5 16. 1 17. 5 18. 17. 5 19. TOTAL COST \$(000) 19. 0 10. COST BY TASK \$(000) 10. COST shown in the state for the purpose of assisting as with the establishment of all out-of-river education programs. The adult pro-folloop youth, emergency medical services of chool youth, emergency medical youth, emergency medical youth, emergency medical youth, emergency medical youth, emergency me	Education		Number of partic	ipants		008,7	10,300					12,500	15,000	16,000
304 3. Driver education curriculum for EMS personnel 304 4. Professional staff SCRIPTION 304 4. Professional staff ESCRIPTION 304 4. Professional staff The Driver Education Services of Virginia at full-time staff member to travel ut the state for the purpose of assisting swith the establishment of all out-of-river education programs. The adult property river education programs. The adult property medical services of the purpose of assisting for adults, chool youth, emergency medical services of the purpose of assisting for adults, chool youth, emergency medical services of the purpose of assisting for adults, chool youth, emergency medical services of the purpose of assisting for adults, chool youth, emergency medical services of the purpose of assisting for adults, chool youth, emergency medical services of the private Education Services of the purpose of assisting the purpose of assisting the state for the purpose of assisting the state for the purpose of assisting the state for the purpose of assisting the state for the purpose of assisting the establishment of all out-of-river Education Services of assisting the state for the purpose of assisting the establishment of all out-of-river Education programs. The adult property and the state for the purpose of assisting the establishment of all out-of-river Education programs. The adult all out-of-river Education Services of assisting the state of the purpose of assisting the state of the purpose of assisting the state of the purpose of assisting the state of the purpose of assisting the state of the purpose of assisting the property and the state of the purpose of assisting the professional staff the state of the purpose of assisting the professional staff the purpose of the purpo				y curriculum			Developed	• • • • • • • • • • • • • • • • • • • •				Instruct t	Instruct Instruct	nstruct
SSCRIPTION atalities, personal injuries, and property the Briver Education programs. The adult proof swith the establishment of all out-of-river education programs. The adult swell as motorcycle drivers. The Driver Education Services of Vicinia are stated adultional training for adults, could also be available to policemen and Tro Driver Education Services of Services of Tro Driver Education S	Education .													
2SCRIPTION atalities, personal injuries, and property the establishment of all out-of-chool youth, emergency medical services of Local SHARE could also be available to policemen and The Driver Education Services of STATE SHARE The Driver Education Services of Virginia and reference and the establishment of all out-of-chool youth, emergency medical services of The Driver Education Services of T				onmion him for FMC n	lougono	<i>U</i>		Inslycia	Inclose		Imple	Imple	Conte	C. C. T.
SSCRIPTION er to reduce the number of accidents in- atalities, personal injuries, and property the Driver Education Services of Virginia ut the state for the purpose of assisting s with the establishment of all out-of- river education programs. The adult pro- thool youth, emergency medical services of the Driver Education Services of The Driver Education Servi				cutticulum for Emb }	Tolling 194	<u> </u>		ere frame	dos					• • • • • • • • • • • • • • • • • • •
2SCRIPTION atalities, personal injuries, and property the Driver Education Services of Virginia at full-time staff member to travel ut the state for the purpose of assisting swith the establishment of all out-of-river education programs. The adult prochool youth, emergency medical services of the Driver Education Services of The	Services													
SSCRIPTION atalities, personal injuries, and property the Driver Education Services of Virginia at full-time staff member to travel ut the state for the purpose of assisting s with the establishment of all out-of- river education programs. The adult prochool youth, emergency medical services The Driver Education Services of The			. Professional staf	#				-			-	-		T
11. COST BY TASK \$(000) 1. Adult driver education 4. Professional staff 12. TOTAL COST \$(000) 13. TOTAL COST \$(000) 14. TOTAL COST \$(000) 15. TOTAL COST \$(000) 16. 1 17.5 17.5 18. LOCAL SHARE 12.75 12.75 12.75 12.75 12.75 12.75 12.75 12.75	Education Services								_,					
11. COST BY TASK \$(000) 1. Adult driver education 4. Professional staff 12. TOTAL COST \$(000) 13. TOTAL COST \$(000) 14. TOTAL COST \$(000) 15. TOTAL COST \$(000) 16. 17.5 17.5 18. 17.5 19. 17.5 10.										:				
1. Adult driver education 1. Adult driver education 1. Adult driver education 1. Adult driver education 1. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 12. Torfessional staff 13. Torfessional staff 14. Professional staff 16. 1 17. 5 17. 5 17. 5 17. 5 17. 5 17. 5 17. 5 17. 5 17. 5 18. 17. 5 18. 17. 5 19. 17.		N												
12. TOTAL COST \$ (000) 25.5 26.5 2 COST \$ (000) COST \$ (0	In order to reduc cluding fatalities, I	se the number personal injus	of accidents in-		sation f	Cost	shown in	driver in Cost show	proveme	er impre	1 SEP.	school SEP.	ď	
O- 12. TOTAL COST \$ (000) 25.5 26.5 2.375 2.375 LOCAL SHARE STATE SHARE 12.75 26.5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	damage, the Driver has hired a full-tim	Education Se	rvices of Virginia er to travel		•					4				
12. TOTAL COST \$ (000) 25.5 26.5 2.375 2.375 1.0CAL SHARE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	throughout the state	e for the purp	ose of assisting		-									
12. TOTAL COST \$ (000) 25.5 26.5 2.375 2.375 LOCAL SHARE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	localities with the	establishment	of all out-of-		•					-				
12. TOTAL COST \$ (000) 25.5 26.5 2.375 2.375 2.375 LOCAL SHARE 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	school driver education will include a	ation progran Idditional trai	ns. The adult pro-	-		+			_	+-			,	
STATE SHARE 12.75 26.5 0 0 FEDERAL SHARE 12.75 0 2.375 2.375	out-of-school youth	ı, emergency	medical services		(000)			2.375			2.375	0 0	m 0	4. 0
FEDERAL SHARE 12.75 0 2.375 2.375	personnel, as well a	as motorcycle	drivers. The	STATE SHARE							. 0	0	0	0
TO LOCALITIES 0 0 2.375 2.375	firemen. The Driv	be available trer Education	Services of	FEDERAL SHARE	RE FS	12.75 0	0 0	2.375			2.375	രംഗ	 0.0	4.5
	Virginia has compl	eted curricul	ums for adult and											

HIGHWAY SAFETY PROGRAM	RAM	1. State o	State of Virginia		2. TIT!	E Adult	TITLE Adult Driver Education	ducation	3.	NO. DE-	DE-73-162 46-73-04-02	4	DATE 4/1/72	/1/72
ANNOAL SUBELEMENT PLAN	PLAN	5. DRAFTED BY APPROVED BY	Y W.	L. Howard F. Hanna		19.71 FY-2	19 <u>72</u> FY-1	FI 1st Q	SCAL YE	FISCAL YEAR 19 73 2nd Q 3rd Q	3 4th Q	TOTAL	19 <u>74</u> FY+1	19 75 FY+2
6a. EFFECTIVENESS														
	۵													
6b. OUTPUT	Λ													
7. RESP. 8. STD.	9. TA	TASKS & MILESTONES	TONES											
Driver 304 Education	.;	Secretary (State D. E. S.)	tate D. E. S.)			-		H	H	н	H	H	П	H
Services Driver 304 Education	9	Equipment (State D. E. Sumlies (Office)	State D. E. S.)							-				
Services	-	Furniture (Office)	ffice)					· · · · · · · · · · · · · · · · · · ·						
Driver 304	7.	Travel (State D. E. S.)	3 D. E. S.)				-							
Education Services														
Traffic 310 Records Committee	œ.	Data system												
motorcycle safety driver education. They are now in the process of developing a curriculum	education. sloping a cu	They are urriculum		COST BY TASK (\$000)	~ "	u u	ď	1.625	1.625	1.625	1,625	c.	*	*
for EMS personnel. The defensive driving course	defensive d	iriving course		Equipment — State D. E. S.	. w	2.1		.25	.25	.25	.25		1	1.5
will be taught through our adult driver educational program. Equipment, classrooms, and per-	daunt arive	er education- s, and per-		Travel – State D. E. S.		1.8	23	٠2	r.	rė.	· 2	63	7	က
sonnel from the local high schools will be used	schools w	ill be used											*Cost shown in	hown in
Ior the program. At the present time the Traffic Becords	Traffic Be	oords											High School	hool
Committee of the Highway Safety Division of	Safety Div	rision of		1									Driver Educa-	Educa-
Virginia is in the process of developing a traf- fic records system that will enable us to provide	of develop	ing a traf- is to provide	12. IOTAL COST LOCAL SHARE STATE SHARE	COST (\$000) SHARE HARE									TOU SE	·
the state with the necessary data for effective evaluation.	ry data for	effective	FEDERAL SHARE TO LOCALITIES	FEDERAL SHARE TO LOCALITIES					·	·				

DE-73-162	46-73-04-034, DATE 4-1-72									- 10 m		••••		the second of th							-			i de la constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della constantina della cons												1	Andrew Andrews American Communication of the control of the contro
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	LF Dri		9	-		_		-																													
	2. TITLF Driver Education	TASKS	5	5	6.5	6.5		6.5																													
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	State of Virginia		1	·	• •	0		0																 													-
	1. State		TOTAL	ď	0 0	9.0		9.5							·										+	-					-		-				
	HIGHWAY SAFETY PROGRAM	SUBELEMENT SUPPLEMENT		13. D Standard: 304	I Total \$(000)	S Federal			I Standard:	B Total	U Federal	T To Localities	l Prev. Obligations	O New Obligations	N Standard:	Total	r, Federal	To Localities	Prev. Obligations	New Obligations	S Standard:	. T Total	A Federal	D Prev. Obligations	-	Ξ	Ē	D To Localities	Prev. Obligations	14. Local Costs by Object	Salaries	Per Diem and Travel	Contracts	Equipment	Supplies	Maintenance and Operations	Total

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. DE-73-162 Date	e te	19 71	19 72			Fiscal Year	. 73		19 74	19 75
46-73-04-04 Adult Driver Education 4-1	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
* Number of adults with traffic violations that have attended an adult driver education course.	ns cation									
* Percent of the total state accidents cause by those adults having attended an adult driver education course.	caused									
* Amount of economic loss from accidents among those having attended an adult driver education course.	nts									
* Number of deaths among those completing an adult driver education course.	eting									
* Amount of property damage among those completing an adult driver education cour 5.	nose course,									
* Information will be available upon completion of the states new traffic records system.	-u								\ \ \	

HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN	TY PROGE- EMENT PL			TILE	river In Scho		200	NO. 46-73-04-01	DE-73-163 6-73-04-01	<u>_</u>	. —	7-1-72
	3	5. DRAFTED BY APPROVED B	DRAFTED BY W. L. Howard APPROVED BY John T. Hanna	19 <u>71</u> FY-2	$\begin{array}{c c} 19 & 72 \\ \hline & 1 & 1 \end{array}$	F)	SCAL YI	FISCAL YEAR 19 73 2nd Q 3rd Q 4	3 4th Q	TOTAL	19 74 FY+1	19. <mark>75</mark> FY+2
6a. EFFECTIV	VENESS Nun	nber of people convicte pleting driver impro	FFECTIVENESS Number of people convicted of hazardous moving violations com- pleting driver improvement schools	m- See		Effective Supplement to the Subelement	nt to the	Subeleme	ent			
6b. OUTPUT		C % of drivers atter V Number of driver	% of drivers attending driver improvement schools Number of drivers attending driver improvement schools	NA Shools NA								
7. RESP. 8	8. STD.	9. TASKS & MILESTONES	STONES									
Local Political Subdivisions	304	1. Driver Impro	Driver Improvement School (No. Established)	73	103			h		125	150	160
Comraunity College	304	2. Regional Tra (No.)	Regional Training Centers for Traffic Improvement (No.)	ment 0	0					က	က	က
Traffic Records Committee	310	3. Data System			Analysis					Devel.	Implem Implem.	[mplem.
Driver	304	4. Hire Person	Hire Personnel (State D. E. S.)			П	-	H	1		-1	-
Education		5. Clerical Staff	ş.			-	1		,	-	-	-
	304	6. Travel					-					
10. DESCRIPTION DE	ION: In orders, including property of	number of accidents, including fatalities, personal injuries and property damage, caused by	11. COST BY TASK \$(000) 1. Driver Improvement Schools \$5 per student; 100 students per year	\$5 35 year	9.0	15.625	15,625	15,625	15,625	62.5	75	80
Virginia plants and/or antiques of arriver Virginia plans to increase the number of citic and counties that make available driver improvement schools. The driver improvement schools have been established in our state for the representation of the representation.	ins and/or a increase th inake avail he driver in ished in our	book arrying nables and/or arriances of arrivers, Virginia plans to increase the number of cities and counties that make available driver improvement schools. The driver improvement schools have been established in our state for the repeat for the repeat the feed of the repeat the feed of the repeat the feed of the repeat the feed of the repeat the feed of the repeat the feed of the feed	per school (average) 2. Training Centers 4. Personnel 5. Clerical Staff 6. Travel	0 0	00	15 3.625 1.3	15 3.625 1.3	15 3.625 1.3	15 3.625 1.3 .5	60 14.5 5.2 2	60 15 5.5 2.5	60 16 6 3
courts in lieu of license. In most	fines or pos cases the vi	courts in lieu of fines or possible revocation of license. In most cases the violator must attend	12. TOTAL COST \$(000)	35	50	36.05 15.62	36.05	36.05	36.05	144.2	158	165
s hours of classi	room mstruc r Education	s hours of classroom instruction during the next vear. The Driver Education Services of Virginia	STATE SHARE	0	0	7.5	7.5		7.5	30.0	30	30
will attempt to establish schools in as many cities and counties as possible. The equipment of the local high subject will	stablish sch es as possil:	will attempt to establish schools in as many cities and counties as possible. The equipment and mercannel of the local high schools will be	FEDERAL SHARE TO LOCALITIES	00	00	12.925	12.925 7.5	12.925 7.5	12.925 7.5	51.7 30.0	30	55 30
O TOMOGRATION	me rocar iii	CH COLLOG WILL IN				-	· ·	-!	7	4		

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Driver Improvement Schools $\frac{DE-73-163}{46-73-04-02}$ DESCRIPTION: (Cont.)

utilized for this program. One full-time staff member has been hired at the state level for coordination of the program. A driver improvement school has recently been developed in the Fairfax area in conjunction with the ASAP in order to make available a driver education course to those individuals charged with DWI and other traffic law violations. An evaluation of our program will be made upon completion of the new traffic records system. This is being handled by the traffic records committee recently appointed by the Highway Safety Division.

Driver improvement schools are part of our adult driver education program in Virginia. Traffic violators remain anonymous while attending the school. In many cases the judges have requested that their local governing bodies establish these schools.

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4. DATE 4-1-72																				İ																	
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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. DE-73-163	Date	19 71	1972		1	Fiscal Year	r 73		1974	19_75
Driver Improvement Schools	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										\
* Number of accidents and fatalities among those having completed a driver improvement school	ong those nt school		\						\	
1.				·						
* Traffic violations among those having attended a driver improvement school	g attended									
2.										
œ										
5.					:					
* Data will be available upon completion of our new traffic records system.	ion of our									

HIGHWAY SAFETY PROGRAM	OGRAM T DI AN	1. State of Virginia	Virginia		2. TITLE		er Education Handicapped	Driver Education for the Handicapped	સં	NO. 46-73-04-01	73-164 3-04-01	4.	DATE 4-1-72	-1-72
		5. DRAFTED BY APPROVED BY	D BY ED BY	W. L. Howard J. T. Hanna		19.71 FY-2	19 72 FY-1	FIS 1st Q	SCAL YE	FISCAL YEAR 19 73 2nd Q 3rd Q	3 4th Q	TOTAL	19 74 FY+1	19 <u>75</u> FY +2
6a. EFFECTIVENESS	1	See Effectiveness Supplement to the Subelement	ment to the	Subelement					—				1	
	C% of	C% of Handicapped Drivers Completing D. E.	rivers Com	oleting D. E.										
6b. OUTPUT	V No.	No. of Handicapped Drivers Completing	d Drivers C	ompleting D. E.									-	
7. RESP. 8. STD.	6	TASKS & MILESTONES	TONES											
Local School 304	1. Hig	gh schools with	vocational	High schools with vocational driver education (No.)	(00)	4	4	15	15	15	15	15	20	20
Local Political 304 Subdivisions	2. Spec		ucation for t	ial driver education for the handicapped No. of cities with programs No. of cities with programs	1707	က	4	9	9	9	9	9	00	12
Education			nts at wood	tow without netrability	11411011	0 0	250	375	375	375	375	375	375	500
	4. E. E.	Driver education certificate	certificate			>	007	007			002	200	002	000
	·							,						
														
10. DESCRIPTIONTo reduce the number of accidents including fatalities, personal injuries and property damage among those drivers with both physical and mental handicaps, the Driver Education Services of Virginia is attempting to make available the type of driver education neces-	reduce the n littes, perso nong those di l handicaps, irginia is att of driver edu	umber of mal injuries rivers with the Driver lempting to ucation neces-	11. COST BY 3. Boys home	r BY TASK \$(000)			27	30	0	0	0	30	35	40
sary to make the handicapped better drivers, the present time local high schools around the	apped better igh schools a	drivers. At												
state offer vocational driver education along with	river educati	on along with	12. TOT	TOTAL COST \$(000)		о	156.2	104.4	0 0	0 0	0 0	104.4		104.5
have special driver education programs for the	cation progre	ams for the	STAT	LOCAL SHARE STATE SHARE			91.6	52.2				52.9	47.6	52.25
handicapped. Driver ed	lucation is al	Driver education is also offered at	FEDI	FEDERAL SHARE		0	64.6	52.2	. 0	. 0	. 0	52.2	47.6	52.25
one of our detention homes for boys by A.A.A.	nes tor boys	by A.A.A.	TO	TO LOCALITIES		0	0	0	•	0	0	0	0	-1
					Tage Pulge of a day	- or thempthy continue.	The states of the states		;					3 88

State of Virginia State of Virginia 2. TITLE Driver Education for the Handicapped 4. DATH 4-1-72	DRAFTED BY W. L. Howard 19 72 FISCAL YEAR 19 73 19 74 19 75 APPROVED BY John T. Hanna FY-2 FY-1 1st Q 2nd Q 3rd Q 4th Q TOTAL FY 41 FY 5				TASKS & MILESTONES	5. Develop data system Feasibil- Devel. Develop. Imple. Con't. Ity Study Review	Contract Bids	One multi-car-driving range Miso. teaching materials Simulator (13 unit) One multi-car-driving range Build Bui	e has 11. COST BY TASK \$(000) make 6. A. Driving range (includes those land and equipment). 48 20 1 1	e of the c. Simulator 31 0 0 0 0 0 1971	ely 40 12. TOTAL COST \$(000) nos on LOCAL SHARE stare STATE SHARE es are FEDERAL SHARE have and the star but the
GRAM 1.	PLAN 5.		٥	Λ	·6	5. Dev	6. Equ	· B B	he detention hon from the state tion course to a	ulso offered at on thers. The cour in 1966 with on exter was hired i	ttor began in Feists of approxima ussion, 16 sess nately 14 hours me cases. Cour pped drivers wh
HIGHWAY DAFETY PROGRAM	ANNUAL SUBELEMENT PLAN	6a. EFFECTIVENESS		6b. OUTPUT	7. RESP. 8. STD.	Traffic 310 Records Committee and DMV Driver Education Services	Woodrow 304 Wilson Rehab.	Center	10. DESCRIPTION : The detention home has applied for certification from the state to make available a driver education course to all those	eligible. Driver education is also offered at one of the state's rehabilitation centers. The course at Woodrow Wilson started in 1966 with one instructor another instructor was hired in 1971	and an additional instructor began in Feb. of 1972. The course consists of approximately 40 hours of classroom discussion, 16 sessions on simulators and approximately 14 hours in-car driving, or longer in some cases. Courses are offered to those handicapped drivers who have

## TED BY ## PROVED BY ## PR	State of Virginia 2. TITLE Handicapped 3. NO. DE-73-164 4. DATE 4-1-72	W. L. Howard 1971 1972 FISCAL YEAR John T. Hanna FY-2 FY-1 1st Q 2nd Q 3rd					/ Wilson) 1 3 3 4 1 1 1 1 1 1 1 1	'oodrow Wilson)	llson)	instructor 1 1 0 0 0 0 1 0 1	rs and simulator (Woodrow Wilson)	COST BY TASK \$(000) resonnel Instructors Secretary Secretary ace animig TOTAL COST STATE SHARE LOCAL SHARE LOCAL SHARE LOCAL BARE LOCAL COST STORM (COST) S(000) 33 35 22 22 22 22 22 22 22 30 30 33 35 22 22 22 22 22 22 22 22 30 4.0
HICHWAY SAFETY PROCRAM ANNUAL SUBELEMENT PLAN 6a. EFFECTIVENESS 6b. OUTPUT 7 RESP. 8. STD. 9. TASKS & M Woodrow Woodrow Woodrow Woodrow Woodrow Woodrow Woodrow Woodrow Woodrow Woodrow Woodrow Woodrow 304 304 304 304 304 304 304 30	ાં	Y				& MILESTONES	Personnel (Woodrow Wilson) A. Instructors B. Secretary	Classroom space (Woodrow Wilson)	Travel (Woodrow Wilson)	Special training for instructor		11. COST BY TASK 7. Personnel A. Instructors B. Secretary 8. Space 9. Travel 10. Training 11. Maintenance 12. TOTAL COST STATE SHARE STATE SHARE
		5.	EFFECTIVENESS	O	Λ	9.						mits. The course incluration left foot acceleral Equipment at the centers; twelve Aetna driver as; twelve Aetna driver an a Porto-Glare visual and hinstructor will serve a trs per year. The average to 00 per year. It is anticifiscal 1973 will include in additional instructors, we multi-con driving war.

Driver Education for the Handicapped $\frac{DE-73-164}{46-73-04-04}$ DESCRIPTION: (Cont.)

Driver education certificates developed by the Driver Education Services and DMV for evaluation of the program will be issued to all handicapped drivers completing state approved driver education. This certificate is explained in more detail in the description of our high school driver education program.

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4. DATE4-1-72																																	
DE-73-164 No. 46-73-04-05		11		2.5	0	0	 (0					-	+	-	-									 			•					
3. No. 46		10		9.	0	0		0			and the same of										 												
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Driver Education for the Handicapped		∞		16.8	0	0		0																									
the Handicapped		7		32	18	0		18																									
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2. TITLE	TASKS	2			-							-																					
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a	-	2																			 												
State of Virginia		1						1		-	-										 	•		-									
1. State of		TOTAL			52.2	0		52.2																									
HIGHWAY SAFETY PROGRAM	SUBELEMENT SUPPLEMENT		D Standard:		S Federal	T To Localities	R Prev. Obligations	New Obligations	I Standard:	B Total	U Federal	T To Localities	I Prev. Obligations	O New Obligations	N Standard:	Total	r, Federal	To Localities	New Obligations	S Standard:	Ē	N To Localities	D Prev. Obligations	A Total		Prev. Obligations	Local Costs by Object	Salaries	Per Diem and Travel	Contracts	Equipment	Supplies	Maintenance and Operations
исни	SUBE		13.																								14.						

Title and No. DE-73-164 Date 9.71 4-1-72 IY-2 6a. EFFECTIVENESS								293
46-73-04-06 4-1-72 EFFECTIVENESS	19 72]	Fiscal Year	r 73		19 74	19_75
	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
*Number of accidents caused by the handicapped driver								
*Number of accidents caused by the handicapped drivers who have completed a special driver education course								
*Number of deaths among the handicapped drivers who have completed a special driver education course								
*Amount of economic loss attributed to the handicapped drivers who have completed a special driver education course								-
ů,								
*Data will be available upon completion of traffic records system (See SEP 1.3)								

4-1-72	19.75 FY+2					60 120 60	Con't.	·	1	100:0
DATE	19 74 FY:+1					55 100 55	Con't.		1	.5 0
	TOTAL					50 85 50	Con't.		1	10000
N(-) DE-73-165 46-73-04-01	73 4th Q							:		.25 0 .125 .125
N() DE	EAR 19 3rd Q								. 25	.25 0 .125 .125
- rs'	FISCAL YEAR 19 2nd Q 3rd Q	MENT							. 25	.25 0 .125 .125
ion	lst Q	SUBELEMENT							. 25	.25 0 .125 .125
TITLE Commercial Driver Education	$\frac{19}{\text{FY-1}} \frac{72}{\text{FY-1}}$	TO THE				45 80 45	Con't.		1	-0100
LE Drive	19 <u>71</u> FY-2	LEMENT				35 80 40	Establish		1.5	1.5 0 .75 .75
CHY State of Virginia 2. TI	W. L. Howard Y. J. T. Hanna	SEE EFFECTIVENESS SUPPLEMENT	% of Drivers Completing Commercial Driver Education No. of Drivers Completing Commercial Driver Education	STONES	Commercial Driver Education Schools	No. of Schools Licensed by State No. of Certified Teachers No. of Schools Licensed by Department of Prof. & Occ. Regis.	State Board for Commercial Driver Training		11. COST BY TASK (\$000)2. Expenses for Board	12. TOTAL COST (\$000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
j.			C % of Drivers Col V No. of Drivers C	9. TASKS & MILESTONES	1. Commercial	A. No. of Sc B. No. of Cc C. No. of Sc Prof. & (2. State Board f	3. Data System	commercial driver education program in Virginia is to make available to those persons—drivers or learners—who are unable to attend a school sponsored course, a state approved driver education program. We feel that after the initiation of this or any driver education course, the number of accidents including fatalities, personal injuries and property damage will be	
HIGHWAY SAFETY PROGRAM ANNIAL SUBELEMENT PLAN		EFFECTIVENESS		8. STD. 8	304		304	310	commercial driver education program in Vi ginia is to make available to those persons drivers or learners — who are unable to atts school sponsored course, a state approved driver education program. We feel that afte initiation of this or any driver education coun the number of accidents including statilities,	
HIGHWAY SAF		6a. EFFECT	6b. OUTPUT	7. RESP.	Driver Education	Services of the Depart- ment of Education	=	Traffic Records Committee	commercial dr ginia is to mak drivers or lear school sponsor driver educatio initiation of this the number of	reduced.

In Virginia anyone under the age of 18 wishing to apply for a driver's license must first complete an approved driver education program. In many cities and counties the local schools are unable to offer driver education to their own students let alone the out of school youth. For this reason many of our cities and counties have contracted with commercial driving schools to make available driver education to everyone. At the present time any commercial school offering driver education to anyone under 18 must have a state approved curriculum. This curriculum is identical to that used in our public schools. The Driver Education Services Division of the State Department of Education presently approves these commercial schools that instruct students under 18. The remaining commercial schools are licensed by the Department of Professional and Occupational Registrations. Their main function is to teach adults how to drive. These adults are usually learners.

The 1968 session of the General Assembly passed Chapter 113. Acts of the Assembly, 1968, thereby creating a Board entitled State Board for Commercial Driver Training Schools. In creating such a Board, the legislature gave the Board the authority to license all commercial driver training schools and, further, gave the Board the authority to establish rules and regulations relating to location, equipment, courses of instruction, instructors, previous courses of instruction, previous records of the school and instructors, financial statements, schedule of fees and charges, character and reputation of the operators, and insurance in such sum and with such provisions as deemed necessary to protect adequately the interests of the public. In addition, the Board may promulgate rules and regulations in such other matters as the Board deems necessary for the protection of the public.

The development of a data system will be handled by the Traffic Records Committee in conjunction with the Driver Education Services Division for more effective evaluation of the Commercial Driver Education Program in the state.

HIGHWAY SAFETY PROGRAM	1. State o	State of Virginia	g			2. TITLE	- 1	Commercial Driver Education	ercial lucation		3. No. 4	46-73-04-03	4. DATE 4-1-72
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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

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Ţ	2nd Ot.							
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Date	4-1-72		rcial					etion of ne
Title and No. 16-73-165	Commercial Driver Education	6a. EFFECTIVENESS	* Deaths Injuries Economic loss Among those Completing a Commercial 1. Driver Education Course	2.	က်	4.	٠. م	* Data will be available upon completion of new state traffic records system.

HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN	i.	State of Virginia	2. TITLE	1	Highway Safety Education	5. On	<u>.s.</u>	NO DE-73-166 46-73-04-01	3-166 -04-01	-i	DATE	4-1-72
	5. DRAFTED BY APPROVED BY	ED BY W. L. Howard		19 71 FY-2	19 72 FY-1	F) 1st Q	ISCAL Y	FISCAL YEAR 19 73 2nd Q 3rd Q	- - - 4th Q	TOTAL	19 74 FY+1	19.75 FY+2
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OUTPUI	V No. of Individuals Trained	Trained		NA	NA	NA				NA	NA	NA
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rsons killed or in	number of persons killed or injured on our high-	2. Professional staff		0	15							
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le state as well as	throughout the state as well as the public in general the HSD has been work on the development	D. Consultant		0	0	0	2.5	2.5	2.5	7.5	8.5	9.5
Safety Training (of a Highway Safety Training Center to be located	12. TOTAL COST		0	15	31.6826	31.7926	31.7926 31.7926	31.7926 127.06	127.06	125.57	131.8
tone of our state universities.	one of our state universities.	LOCAL SHARE		0	0	0	0	0	0	0	0	0
a Highway Safety	mittany, the lundamental concepts of the pro-	STATE SHARE		0	7.5	15.8413	15,8963	15.8963 15.8963 15.8963	15,8963	63,531	62.79	62.9
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to provide both classroom and on-site staff	on-site staff	TO LOCALITIES	-	0	0	0	0	0	0	0	0	0

HICHWAY SAFETY PROGRAM	ANNOAL SOBELEMENT FLA	6a. EFFECTIVENESS	6b, OUTPUT	7. RESP. 8. STD. 9	HSD 304	HSD 304		assistance for professional naraprofessional	and technical specialists throughout the state.	 An informational clearinghouse through which information and materials will be supplied upon 	request. 9 A statemide normalation and etatus narout of	o. A statewide new stetuer and status report our rent events in traffic safety-related areas.	4. Curriculum development for higher education. Suggested courses to be offered through the Institute would include, but not be limited to, the following topics and audiences. 1. Implementation of the Highway Safety Standards-	135 local highway safety commissions.
1-1-	5. DRAFTED BY APPROVED BY		ر د	9. TASKS & MILESTONES	 Sub-Professional staff A. Conference Coording B. Clearinghouse Res 		Parttime	aranrofessional	ghout the state.	ouse through which be supplied upon	ofotio wonder of	related areas.	r higher education. fered through the be limited to, the vay Safety Standards	issions.
State of Virginia	ED BY W. L. Howard VED BY J. T. Hanna			TONES	Sub-Professional staff A. Conference Coordinator B. Clearinghouse Research Assistant	rvices	Parttime - 1500 hours - No. of hours	11. COST BY TASK	3. Sub-Professional staff A. Conference Coordinator	B. Research Assistant		Parttime	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES	
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Št u	1st Q					H	25		2,365	2.375	1.2935	. 8062		
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DE-73-166 46-73-04-02	3 4th Q					-	375		2.365	2.375	-	8062		1
77	TOTAL				- 1	1	1500		9.460			3,225		
DATE 4-1-72	19 74 FY+1				H H	H			9.933	9.975	5,433	3,225		
-1-72	19_75 FY-2					਼			10.430	10.5	5.704	3.225		

HIGHWAY SAFETY PROGRAM	ROGRAM	1. State of Virginia	rginia	2. TITLE	Highway Safety Education	Highway Education	3.	NO.	DE-73-166 46-73-04-03	4.	DATE4-1-72	1-72
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7. RESP. 8. ST	STD. 9.	TASKS & MILESTONES	TONES									
HSD 304		5. University overhead 36% of	University overhead 36% of salaries and wages	δῦ			·*- ·· ·					
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10. DESCRIPTION 2. Implementation of the Highway Safety Standards (Basic level) — Civic organizations: local project	le Highway	Safety Standards	COST 1		0		83			0	25.95	27.188
chairmen; PTA's; community leaders. 3. Legislation (existing and needed) — State legis. lators.	sunity lead	ers. d) — State legis–	b. Travel, etc.7. Equipment8. Furnishings and materials	······································	000	0 1.25 0 .5 0 2.075	5 1.25 .5 75 2.075	1.25	1.25 .5 2.075	യ യോ സ	5 0 4.1	5 0 4.1
 Police Traffic Services - Enforcement officers. Breathalyzer training - Enforcement officers. 	ces — Enfc g — Enforc	reement officers,										
~ =	general pudata for ever	ublic. valuation of this Traffic Records	12. TOTAL COST LOCAL SHARE STATE SHARE EUDEDAL SHADE									
			TO LOCALITIES									
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HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN		State of Virginia		2. TIT	TITLE Safe	Highway Safety Education		3.	NO. 46-7	DE-73-166 46-73-04-04	4	DATE 4-1-72	- 1-72
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	 9. TASKS & MILESTONES 9. Typewriter 10. Office furniture 3 sets at \$11. Printing and Production 12. Office supplies 13. Newsletter (No. of copies) 	SSTONES ure 3 sets a Production es No. of copie	t \$350 each 5S)		000	Bids Bids Bids	1 0 3 0 Deliv. Publish Publish		0 0 Publish	0 0 Publish	3 3000	3000	3000
4		11. CO 9. Typ 10. Furn 11. Prit 12. Offii	COST BY TASK \$(000) Typewriter Furniture Printing and production Office supplies Newsletter		00000	00000	.34 1.05 .875 1	0 0 .875 0	0 0 .875 0	. 875 0 0 0 0 . 95	3.5 3.5 3.8 3.8	0 0 4 1 1 6 ° 8 ° 9	0 0 4.5 4.0
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DRIVER EDUCATION

The driver education program in Virginia has been significantly improved in recent years; the main problem now is that there are not enough driver education teachers in schools and not enough equipment (simulators and multi-car driving ranges). Another problem is that there are too few adult driver education programs to provide education to everyone. During the 1970-71 school year, 73 schools offered adult and out-of-school youth programs, which were completed by 1,303 students. The adult program includes additional training for adults, out-of-school youth, emergency medical services personnel, and motorcyclists. This program is also available to policemen and firemen. The Driver Education Services has completed curriculums for adult and motorcycle safety driver education. It has developed A Suggested Guide for Driver Improvement Programs For Adult and Out-of-School Youth, which is being used statewide. A defensive driving course is also included in the adult program. A curriculum for emergency medical personnel is being developed.

Adult driver education programs are conducted through the public school system and financed by tuition fees. They are conducted upon need. Equipment, classrooms, and personnel from high schools are used for the program. The Traffic Records Committee is developing a traffic records system that will provide the state with the data necessary for effective evaluation of the programs.

High School Driver Education

In the 1970-71 school year, state-approved driver education programs were offered in all the state's 304 senior high schools and in two of its junior high schools. Of the 78,495 eligible students, 63,087 were offered and completed the program. This was an increase of 9% over the 1969-70 school year. However, these figures show that there were 15,408 eligible students who weren't offered driver education, and they

weren't because of a lack of teachers, simulators, multi-car driving ranges, and other related teaching aids.

The funds being requested for driver education, which amount to over \$700,000 in federal funding, will be used to hire eight additional teachers at the local level, build 8 multi-car driving ranges, and purchase 10-12 unit simulators and other equipment to enable the state to reduce the number of its students not being offered driver education. The Driver Education Services plans to accept the responsibility at the state level for leadership in regard to the direction, coordination, supervision and promotion of quality driver education.

Three assistant supervisors and their secretaries will be funded to assure a well coordinated program throughout the state. These assistants will establish driver improvement schools and adult driver education courses, assist in the handicapped driver education program, and aid the localities in their high school programs.

The projects and programs being utilized to implement the total driver education program are as follows:

- (1) Legislative requirement that all persons between 16 and 18 years of age shall complete a state-approved driver education program consisting of both classroom and in-car instruction to become eligible to apply for a Virginia operator's license.
- (2) Statewide educational television utilizing "Sportsmanlike Driving" series.
- (3) Semester course scheduling pilot program.
- (4) Driver Education Certificate, to be issued upon completion of the state-approved driver education program.
- (5) Alcohol countermeasures program.

- (6) Driver education car control program.
- (7) Membership in (VADETS) Virginia Association for Driver and Traffic Safety Education Association.

The Division of Motor Vehicles has designed a data system to analyze the driving history of persons completing a driver education training course and those receiving a driver education certificate to determine the effectiveness of the driver education training course in preparing the individual to be a better, safer driver. The frequency and type of accidents and conviction involvement are analyzed and related to whether or not the individual had a driver training course, and the jurisdiction in which the course was given. This report is sent to all school systems.

The Traffic Records Committee is developing a comprehensive data program that will enable the Highway Safety Division to more effectively evaluate the driver education program. The school system in Virginia continues to update its programs by purchasing simulators, driving ranges and related equipment, and by hiring additional teachers.

The Safety Section of the Virginia Highway Research Council is developing a driver education curriculum unit of instruction designed primarily to inculcate and modify the attitudes of high school students learning to drive. State-approved driver education programs are offered in nonpublic schools without reimbursement from state funds, which is the practice in public schools. Where nonpublic schools wish to offer driver education, all standards of teacher certification, time requirement, course content, and equipment apply and approval must be requested annually from the Driver Education Service. Upon completion of the state-approved program, students are eligible for the Insurance Credit Certificate and the Driver Education Certificate, which would allow them to apply for an operator's license at age 16 or prior to age 18.

Private and parochial school students may be enrolled in the public school driver education program during the summer, and state reimbursement may be claimed by the public school system for these students.

State reimbursement may be claimed for conducting state-approved driver education programs when the programs are approved by the State Department of Education annually, and teachers of classroom and in-car instruction are endorsed in driver education by the Department. Insurance Credit Certificates and Driver Education Certificates cannot be awarded if the program is not approved by the Department. Since July 1, 1968 requirements for an endorsement in driver education have consisted of three semester hours in general safety and three in basic driver education, along with a Virginia teaching certificate.

At present, 80 schools are using the multi-car driving range method and 47 are using simulators in conducting driver education programs.

The Driver Education Service has entered into an agreement with HUMRRO (Human Resources Research Organization) to submit a bid to the National Highway Traffic Safety Administration for developing and evaluating a model curriculum guide in driver education over a period of three years.

Commercial Driver Education

The long-term goal of the commercial driver education program in Virginia is to make available a state-approved driver education course to those persons (drivers or learners) unable to attend a school-sponsored course. Upon completion of this or any driver education course, the driver should be less likely to become involved in an accident, and the number of accidents including fatalities, personal injuries, and property damage would be reduced.

The 1968 session of the General Assembly passed Chapter 113, Acts of the Assembly, 1968, thereby creating a board entitled the State Board for Commercial Driver Training Schools. In creating such a board, the legislature gave it authority to license all commercial driver training schools and, further, gave it authority to establish rules and regulations relating to the location, equipment, courses of instruction, instructors, previous courses of instruction, previous records of the schools and instructors, financial statements, schedule of fees and charges, character and reputation of the operators, and insurance in such sum and with such provisions as deemed necessary to protect adequately the interests of the public. In addition, the Board may promulgate rules and regulations in such other matters as it deems necessary for the protection of the public. The development of a data system will be handled by the Traffic Records Committee in conjunction with the Driver Education Service for more effective evaluation of the Commercial Driver Education Programs in the state.

A commercial driver training school conducting driver education programs for anyone under eighteen years of age shall be licensed and certified annually by the Director of Professional and Occupational Registration and also by the Driver Education Service. The same minimum requirements for conducting a state-approved driver education program with respect to time, endorsement, equipment, etc. shall be in effect. The Curriculum Guide for Driver Education in Virginia shall be used by the commercial driving training schools in conducting programs for anyone under eighteen years of age. The commercial schools not teaching anyone under 18 years of age need be licensed only by the Department of Professional and Occupational Registrations.

Driver Education for the Handicapped

The program for driving education for the handicapped has moved forward in recent years, but needs additional funds and instructors to maintain its pace. High schools around the state offer vocational driver education along with their regular curriculums. Several communities have special driver education programs for the handicapped. Driver education is also offered at one of Virginia's detention homes for boys by the AAA. The detention home has applied for certification from the state to make available a driver education course to all those eligible.

Driver education is also offered at one of the state's rehabilitation centers. The course at Woodrow Wilson started in 1966 with one instructor; another instructor was hired in 1971 and an additional one began work in February 1972. The course consists of approximately 40 hours of classroom discussion, 16 sessions on simulators, and approximatly 14 hours in-car driving, or longer in some cases. Courses are offered to new drivers, both physically handicapped and regular, and those who have become disabled since they received their permits. The courses include all types of adaptation from left foot acceleration to full hand control. The average cost per student is \$96 per year. For fiscal 1973, there will be a need for money to pay the salaries of two additional instructors, and funds for the multi-car driving range and miscellaneous teaching material.

Driver Improvement Schools

In order to reduce the number of accidents including fatalities, personal injuries, and property damage caused by poor driving habits and attitudes, driver improvement schools have been established for habitual traffic law violators referred by the courts for driving courses in lieu of fines or possible revocations of licenses. In most cases, the violator must attend eight hours of classroom instruction during the next year.

The Driver Education Service will attempt to establish schools in as many cities and counties as possible. The equipment and personnel of the high schools will be utilized. One full-time staff member has been hired at the state level for coordination of the program. A driver improvement school has recently been developed in the Fairfax area in conjunction with the ASAP program in order to make available a driver education course to those individuals charged with DWI or traffic law violations. An evaluation of the program will be made upon completion of the new traffic records system being developed by the Traffic Records Committee appointed by the Highway Safety Division. Driver improvement schools are part of the adult driver education program in Virginia and traffic violators attending them remain anonymous.

VIRGINIA HIGHWAY SAFETY CENTER

Initially, the fundamental concepts of Virginia's proposed Highway Safety Center include:

A Traffic Safety Training Institute to provide both classroom and on-site staff assistance for professional, paraprofessional, and technical specialists throughout the state.

An Information Clearinghouse through which information and materials will be supplied upon request.

A statewide Newsletter and Status Report of current events in traffic safety-related areas.

Curriculum development for higher education.

The Traffic Safety Center will be housed within the School of Community Services and the Department of Administration of Justice and Public Safety at Virginia Commonwealth University. Its director and all professional employees will hold faculty rank and be expected to teach courses insofar as program demands allow. The Center will require one full-time secretarial position.

Traffic Safety Training Institute

(Workshops, Short Courses, Seminars, and Conferences)

In order to increase the ability of all traffic personnel throughout the state as well as that of the general public, it is essential that short-term training be emphasized at the Safety Center. A full-time conference coordinator will be needed to ensure the continuity of planning and direction for all training activities. A portion of the time of a member of the Safety Center's faculty will be devoted to the supervision of this

conference coordinator. Other personnel needs could be handled through the use of student assistants and student interns. Guest lecturers will consist largely of specialists in various aspects of highway safety and will be engaged as required. In this manner, only a modest investment (i.e., honoraria and fees) will be necessary for hiring the professional staff. Thus, top level expertise may be contracted on a short-term basis.

Consulting services will also be offered by the Training Institute in order that local jurisdictions might have professional assistance in determining their training needs and priorities.

Suggested courses to be offered through the Institute would include the following topics and audiences.

TOPICAL CONTENT

Implementation of the Highway Safety Standards (technically-oriented)

Implementation of the Highway Safety Standards (basic level)

Legislation (existing and needed)

Police Traffic Services (accident investigation, data analysis, police traffic supervision, police traffic records, traffic law enforcement, preparing court cases, etc.)

Breathalyzer Training

Instructor Training

Career Opportunities in Traffic and Highway Safety

Traffic Engineering (traffic control devices, capacity, flow, design, equipment, etc.)

AUDIENCE

The one hundred and thirty-five local highway safety commissions

Civil organizations; local project chairman; PTA's; community leaders

State legislators

Enforcement officers

Enforcement (policemen, etc.)

Law enforcement officers responsible for training other personnel

High school and community college counselors

Professional, technical, and paraprofessional persons responsible for traffic engineering functions in local communities

TOPICAL CONTENT

The Traffic Court

Motor Fleet Safety

School Bus Safety

Motor Vehicle Administration

Legal Aspects of Alcohol and Drug

Intoxication

Emergency Vehicle Driving

Defensive Driving

Defensive Driving (Motorcycles)

Emergency Medical Services

AUDIENCE

Traffic court judges

Personnel from trucking companies

and transit firms

School administrators and school

bus drivers

Those responsible for the many activities

housed under motor vehicle administration

Personnel servicing the criminal justice system (police through judicial) general

public

Enforcement officers; ambulance per-

sonnel; rescue squads

General public

All motorcycle operators

Ambulance attendants, rescue squads,

funeral home personnel

Resources and Information Clearinghouse

This unit is envisioned as a storehouse or library of highway safety-related literature, materials, audiovisuals, and demonstration equipment. These items would be made available immediately upon request throughout the state at no expense to the recipients, other than a normal handling charge.

The Clearinghouse will be located within the facilities of the Administration of Justice and Public Safety Department at VCU. This location would assure access to both the academic staff and the student population.

A full-time research assistant will be needed to direct the activities of the Clear-inghouse. Again, a portion of the time of a member of the Safety Center's faculty will be devoted to the supervision of this research assistant. In addition, the Clearinghouse will offer a unique learning opportunity for program majors to participate as interns and student employees.

Statewide Newsletter and Status Report

While concentrating on current events in the state of Virginia, this newsletter will encompass applicable trends on the national level. A large portion of the publication would stress programs and activities for individual, organizational, and community involvement which can be effectively carried out without federal funding. New and innovative techniques will be stressed, and successful programs from one area of the state will be publicized so that the entire state can benefit from them. In addition, magazine articles, periodicals, books, etc. of current interest will be featured. An abstract of recent research findings will also be included.

Overall administration and publication of the newsletter will be coordinated with the Clearinghouse. As an example, the newsletter might be used to encourage and assist the utilization of the Clearinghouse materials — i.e., the newsletter could include a calendar of training events or a tear-out form for requesting assistance from the Clearinghouse; on the other hand, the Clearinghouse could provide the newsletter with publications to be abstracted and current research to be noted.

An editorial assistant will be crucial in the compilation and distribution of the newsletter. As in the previous units, staff supervision must come from a member of the professional Traffic Center faculty. Student assistants and student interns will also be used profitably.

Curriculum Development for Higher Education

(Undergraduate Program)

It will be necessary to develop a curriculum leading toward a major in traffic and highway safety. For immediate planning purposes, this can most efficiently be developed within the program entitled Administration of Justice and Public Safety at VCU. Presently, the VCU catalogue lists one academic course (Traffic Planning and

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Management) in this field of study. Another course (Legal Aspects of Highway Safety) is scheduled to be taught in the February 1972 semester. It is the intention of the school dean, the department chairman, and program faculty that additional undergraduate highway safety courses be added as staffing allows.

It is extremely important that academically and professionally qualified faculty be employed concurrently with the development of this area of concentration. Should a graduate program be desired, the need for curriculum development and appropriate staffing would become critical. Immediate staffing needs might be met by obtaining the services of one additional faculty member. Engagement of this additional person would enable the present traffic specialist on the faculty to devote sufficient time to the supervision of the previously mentioned activities and curriculum development and classroom instruction activities.

TO TANK SAPOTY PROGRAM	M 1. State of Virginia	rginia 2.	. TITLE	DRIVE	R TESTING LICENSING	DRIVER TESTING AND LICENSING	3.	NO. <u>46-73-161</u>	3-161	4-	DATF 4	4-1-72
	5. URAFTED BY APPROVED BY	ID BY A. D. Harvey ED BY J. T. Hanna		12 <u>71</u> 19 FY-2 F	19.72 FY-1	FIS 1st Q	FISCAL YEAR 1973 2nd Q 3rd Q		4tb Q	TOTAL	1974 FY-1	19.75
Ca. EFFECTIVENCES The nent	The number of crashes inv ments and/or skill defects	The number of crashes involving drivers with physical impair- ments and/or skill defects	pair-									
	C Percent of total drivers tested	lrivers tested							·			
(6). OUT. IT.	V Total number of drivers licensed	Irivers licensed										
7. PEST. 8. STD. 9	9. TASKS & MILESTONES	TONES				**************************************						
DMV 305 1	1. INSTRUCTION PERMIT AND A. Instruction Permits Issue	INSTRUCTION PERMIT AND LICENSING PROGRAM A. Instruction Permits Issued (000)		178	187	49	49	49	49	196	205	214
	B. Personnel											
	 Supervisors License Examiners Clerks 	s kaminers		4 21 19	4 21 19	4 21 19	4 21 19	4 21 19	4 21 19	4 21 19	4 21 19	4 21 19
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Long-term objectives of driver testing and licensing by Virginia Division of Motor Vehicle personnel are to test 100% of applicants for first license and license holders every four years to reduce total crashes, property damage, injuries, and death by (1) preventing unqualified persons from becoming drivers on the highways, and (2) remov-	testing and licens- or Vehicle person- its for first license years to reduce e, injuries, and fied persons from	 COST BY TASK Instruction Permit and Licensing Program (\$000) 	ensing 439		463	121	122	122	122	487	514	240
ing drivers who fall to maintain standards of qualification from the highways. 1. This program is designed to initially test and license citizens temporarily in order to allow the citizen to learn proper driving habits and skills under supervision of a licensed driver.	n standards of n standards of n o initially test and order to allow the habits and skills	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES	10,552		11, 139. 5 0 11, 139 272. 5 0	2,970 0 2,924 46 0	2,975 2,929 46 0	2,981 2,935 46 0	2, 981.5 0 2, 936 45.5 0	2, 981.5 11, 907.5 12, 527 0 0 0 0 2, 936 11, 724 12, 318 45.5 183.5 209 0 0 0		13, 038 0 12, 934 104 0

FTED BY A. D. Harvey 19-21 19-22 FTSCALI YEAR 19-23 19-24		Γ	r										
FTED BY A. D. Harvey 19_21 1st q 2nd q 3rd q 4th q TOTAL	133	-1-72	19 <u>75</u> FY+2					216	-	8 26	52	717	
15 15 15 15 15 15 15 15		DATE	1974 FY+1					212		8 26	25	683	
10 10 10 10 10 10 10 10			TOTAL,					209		8 26	25	647	
FTED BY A. D. Harvey 19-Z1 19-Z2 FTSCAL YEAR		-73-161 73-05-02	3 4th Q					53		8 26	25	162	
Title DRIVER Testing and Leston	1		AR 19.2 3rd Q					52		8 26	25	162	
FTED BY A. D. Harvey 19-21 1912 FTED BY J. T. Hama FY-2 FY-1 1st quality FOUED BY J. T. Hama FY-2 FY-1 1st quality FOUED BY J. T. Hama FY-2 FY-1 1st quality FOUED BY J. T. Hama FY-2 FY-1 1st quality FY-2 FY-1 FY-2 1st quality FY-2 FY-1 FY-2 1st quality FY-2 FY-1 FY-2 1st quality FY-2 FY-1 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 FY-2 1st quality FY-2 FY-2 1st quality FY-2 FY-2 1st quality FY-2 FY-2			SCAL YE					52		8 29	25	162	
FTED BY A. D. Harvey ROVED BY J. T. Hanna gs. involving drivers with physical impailents Total Drivers Tested ar of Drivers Licensed LESTONES LLESTONES LLICENSE TESTING AND LICENSE OGRAM al Licenses Issued (000) nnel - State Level thervisors icense Examiners lerks 11. COST BY TASK 2. Original License Testing and License Issue Program (\$000) License Issue Program (\$000) License Issue Program (\$000) License Issue Program (\$000) License Issue Program (\$000)		NG AND	FIE 1st Q					52		8 26	25	161	
FTED BY A. D. Harvey ROVED BY J. T. Hanna gs. involving drivers with physical impailents Total Drivers Tested ar of Drivers Licensed LESTONES LLESTONES LLICENSE TESTING AND LICENSE OGRAM al Licenses Issued (000) nnel - State Level thervisors icense Examiners lerks 11. COST BY TASK 2. Original License Testing and License Issue Program (\$000) License Issue Program (\$000) License Issue Program (\$000) License Issue Program (\$000) License Issue Program (\$000)		R TESTI	19 Z2 FY-1					205		8 26	52	615	
FTED BY A. D. Harvey ROVED BY J. T. Hanna gs involving drivers with physical impailents Total Drivers Tested ar of Drivers Licensed LESTONES LLESTONES LLESTONES LLE		E PREE	19_Z1 FY-2					202		8 26	25	283	
HWAY SAFI UAL SUBE EFFECTI OUTPUT DESCRIPT This progra s citizens whinia or who		1. State of Virginia	5. DRAFTED BY APPROVED BY	EFFECTIVENESS The number of crashes involving drivers with physical impairment and for skill defects		8. STD. 9.	305			1. Supervisors 2. License Examiners	3. Clerks	2. This program is designed to test and license those citizens who have never been license din License Issue Program (\$000) Virginia or who let their valid license expire.	

-72	1			i i							T
1-1	19 75 FY+2					741		103 47		1,984	
DATE 4-1-72	19.74 FY+1					731		12 103 47		1,889	
-	TOTAL					720		12 103 47		1,790	
73-161	3 4th Q					180		12 103 47		448	
NO. DL-73-161	3rd Q					180		12 103 47		448	
	FISCAL YEAR 19 73 2nd Q 3rd Q					180		12 103 47		447	
DRIVER TESTING AND LICENSING	FI 1st Q					180		12 103 47		447	
DRIVER TEST	19 72 FY-1					710		12 103 47		1, 701	
TITLE DRI	19 71 FY-2					669		12 103 47		1,611	
1. State of Virginia 2. TII	5. DRAFTED BY A. D. Harvey APPROVED BY J. T. Hanna	The number of crashes involving drivers with physical impairments and or skill defects	Percent of Total Drivers Tested Number of Drivers Tested and Licensed Per Year	TASKS & MILESTONES	3. RENEWAL LICENSE AND TESTING PROGRAM	A. Renewal Licenses Issued (000)	B. Personnel - State Level	 Supervisor License Examiners Clerks 	11. COST BY TASK \$(000)	est and re- 3. Renewal License and Testing valid license Program (\$000) alfified for creening of all mger qualified	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
HIGHWAY SAFETY PROGIZIM	A TANAMAN	l i	C	8. STD. 9.	305				rion	3. This program is designed to test and relicense those citizens who hold a valid license and are physically and mentally qualified for renewal. This permits periodic screening of all drivers and removal of those no longer qualified for licensing from the highways.	in the ingred of
HIGHWAY SAFI	AMNOA JAMNA	6a. EFFECTIVENESS	6b. OUTPUT	7. RESP.	DMV				10. DESCRIPTION	3. This program is designed to license those citizens who hold and are physically and mentally trenewal. This permits periodic drivers and removal of those no for licensing from the highways.	

CO CO CO CO CO CO CO CO CO CO CO CO CO C	of Virginia 2. TITLE LICENSING 3. NO. 46-73-05-04 4 DATF 4-1-72	DRAFTED BY A. D. Harvey 19.71 19.72 FY-1 FY-1 1st Q 2nd Q 3rd Q 4th Q TOTAL FY-1 FY-2		Percent of Drivers Tested	ber of Drivers Licensed	IILESTONES	CTED LICENSE TESTING AND LICENSING	A. Restricted License (000) 169 185 50 50 50 51 201 217 233	Personnel - State Level	Supervisors 5 <th< th=""><th>11. COST BY TASK 4. Restricted license testing 189 200 52 52 53 53 210 222 233 o and license issue. (\$000)</th><th>12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE FEDERAL SHARE</th></th<>	11. COST BY TASK 4. Restricted license testing 189 200 52 52 53 53 210 222 233 o and license issue. (\$000)	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE FEDERAL SHARE
	inta	⊁		rs Tested	Drivers Licensed	ONES			State Level	sors Examiners	 COST BY TASK Restricted license t and license issue. (\$6 	
-	I. State of Virginia	က်			V Total Number of Drivers	9. TASKS & MILESTONES	4. RESTRICTED LICENSE PROGRAM.	A. Restricted	B. Personnel -	 Supervi License Clerks 	test to	
	HIGHWAY SAFETY PROGRAM ANNUAL SUBFLEMENT PLAN		EFFECTIVENESS		L	8. STD.	305				 DESCRIPTION The program is designed to detect and and license those citizens who are qualified drive but only after special restrictions are met, i.e., hand controls. 	
	HIGHWAY SA ANNIAL SUB		6a. EFFEC		6b. OUTPUT	7. RESP.	DMV				10. DESCRIPTION 4. The program is desi and license those citizen drive but only after speci met, i.e., hand controls.	

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4-1-72	19 75 FY+2					10		21 15 11 118		2,012	
DATE 4	19 74 FY+1					10		21 15 11 118		1,916 2,	
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85	SCAL YE					7		21 15 11		454	
ING AND	F1 1st Q					7		21 15 11 118		453	
DRIVER TESTING AND LICENSING	19 72 FY-1					10	·····	21 15 11 118		1,724	
	19_71 FY-2					11	· · · · · · · · · · · · · · · · · · ·	21 15 11 118		1,634	
11 ginia. 2. TITLE	D BY A. D. Harvey	The number of crashes involving drivers with physical impairments and/or skill defects	<u>Percent of Drivers Under Insurance Requirements</u> er of Drivers Licensed	ONES	FINANCIAL RESPONSIBILITY MONTTORING PROGRAM,	Number of Suspension Orders Issued for failure to file or maintain proof of Financial Responsibility (000)	Personnel - State Level	Supervisors Field Inspectors Evaluators Clerks	11. COST BY TASK \$(000)	6. Financial Responsibility Monitoring Program (\$000)	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
I. State of Vinginia.	5. DRAFTED BY APPROVED BY	number of crashes into and/or skill defect	Numb	9. TASKS & MILESTONES	6. FINANCIAL R PROGRAM.	A. Number of Suspensi failure to file or ma Responsibility (0	B. Personnel	 Supervisors Field Inspec Evaluators Clerks 		6. This program monitors those persons who must comply with insurance requirements, suspends and/or reinstates the operating and registration privileges of persons as required, Authorizes reexaminations of driver when insurance requirements are met and examination	
HIGHWAY SAFETY PROGRAM	SELEMENT TA	EFFECTIVENESS The		8. STD. 9	305				PTION	6. This program monitors those persons who must comply with insurance requirements, suspends and/or reinstates the operating and registration privileges of persons as required, Authorizes reexaminations of driver when insurance requirements are met and examination.	
HIGHWAY SA	ANNOAL SOE	6a. EFFEC	6b. OUTPUT	7. RESP.	DMV				10. DESCRIPTION	6. This programs comply variety and/registration predistration predistration predistrance requirements.	is required.

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E 4-1-72	1 1 1 1 1 1 1	+-		-	22,		K	_	0 20	
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-	TOTAL				181	40	12 12 1 35		866	
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2	FISCAL YEAR 19 73				45	13	12 1 25 55		216	
ING AND	F.E.				107	12	12 12 1 55		216	
DRIVER TESTING AND	$\frac{19}{\text{FY}} \frac{72}{1}$				172 ±36	46	£2 12 1		8).	
TIT LE DRIV	19 71 FY-2				159	4,7	12 12 55		6.1	
1. State of Virginia 2.	5. DRAFTED BY A. D. Farvey APPROVED BY J. T. Hanna	The reliber of crashes involving drivers with physical impairments and/or skill defects	C Percent of Total Drivers Tested V Number Drivers Tested and Licensed Per Year	9. TASKS & MILESTONES	 CRASH REPORTING PROGRAM A. Number Crash Cases Handled (000) B. Number Crash Reports Processed (000) C. Number Citizens Suspended due to Failure to 	File I:surance (000) D. Personnel - State Level	 Supervisors Field Inspectors Evaluators Clerks 	11. COST BY TASK	7. This program processes all crash reports, identifies those citizens who have not complled with insurance requirements, suspends operating privileges, issues notices for reexamination and recommends formal hearing action based and recommends driving record.	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LECALITIES
HIGHWAY SAFE EV PROGRAM ANNIAL SULED EMENT PLAN		EFFECT VENESS The		8 STD.	305			TION	7. This program processes all craidentifies those citizens who have no with insurance requirements, suspening privileges, issues notices for reand recommends formal hearing acon review of citizans driving record	0
IGHWAY SA			output.	RESP.	DMV			DESCRIPTION	in This progremations the insurance g privileges, d recommen review of ci	
= 4		6a.	6b.	7.				10.	ing an a	

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OGRAM	1	State of Virginia 2.	TITLE DRI	DRIVER TESTING AND LICENSING	ING AND	3.	NO. <u>E</u>	DL-73-161 46-73-05-38		DA TE	4 -1-72	
I FLAIN	5.	DRAFTED BY A. D. Harvey APPROVED BY J. T. Hama	15_7 FY-2	$\begin{vmatrix} 1 > \frac{72}{1} \\ FY - 1 \end{vmatrix}$	FI 1st Q	FISCAL YEAR 19 73	SAR 19.7 3rd Q	3 4th Q	TOTAL	19 74 FY+t	19.75 FY+2	
ĘĔ	e number of crasher ents and/or skill de	The number of crashes involving drivers with physica ".mpair- ments and/or skill defects	1									
	C Percent of T	Percent of Total Drivers Tested Number of Drivers Tosted and Liouned Boy Voca-		.								
	[STONES										
		8. Conviction Processing Program										
	A. Number B. Number C. Persom	A. Number of Convictions Processed (000)B. Number of Revocation Orders Issued (000)C. Personnel - State Level	435	4 82 33	126	126	126	127	506 35	531 37	550 3%	
······································	1. Sup 2. Fie 3. Eva 4. Cle	Supervisors Field Inspectors Evaluators Clerks	10	10 5 66	6 10 5 66	6 10 5 66) 5 5	6 10 5 66	6 10 5 66	6 10 5 66	ó 10 5 66	
		11. COST BY TASK										
ires eges uire	antifies citizens whose ires mandatory revoca- eges or whose repeated uire revocation of cities for reexamination	8. Conviction Pro essing Program (\$000)	862	910	239	239	240	240	958	1011	1052	

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DMV

OUTPUT

6b.

EFFECTIVENESS

6a.

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7.

HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN

28 33 5 6 6 6 6 5 5 5 5 66 66 66	862 910 239 239	
B. Number of Revocation Orders Issued (000) C. Personnel - State Level 1. Supervisors 2. Field inspectors 3. Evaluators 4. Clerks	11. COST BY TASK 8. Conviction Processing Program (\$000)	CELTAL COST COCAL SHARE STATE SHARE FEDELAL SHARE TO LOCALITIES
B. Number of Revo C. Personnel - Sta 1. Supervisors 2. Field Inspec 3. Evaluators 4. Clerks	10. DESCRIPTION 8. This program identifies citizens whose traffic violation requires mandatory revocation of driving privileges or whose repeated traffic violations require revocation of	privileges, issues notices for reexamination or recommends hearing action based on review of citizen's driving record,

HIGHWAY SA	HIGHWAY SAFETY PROGRAM	AM 1. State of Virginia		2. TITLE		DRIVER TESTING AND LICENSING	NG AND	3. N	NQDL-73-161 46-73-05-09	$\frac{161}{5-09}$	नं	DA FE 4-1=72	.1=72
INING TE SOI	T I NEWENT TO	5. DRAFTED BY APPROVED BY	ED BY A. D. Harvey VED BY J. T. Hanna	H H	19 <u>71</u> 1 FY-2	$\frac{19}{\text{FY}-1}$	FIS 1st Q	FISCAL YEAR 19 73	3rd Q	3 4th Q	TOTAL	19 74 FY+1	19 <u>7</u> 5 FY+2
6a. EFFEC	EFFECTIVENESS I	Percent of Drivers with	Percent of <u>Drivers</u> with Repeated Violations after Hearings	ings.									
6b. OUTPUT		C Percent of Tota V Total Number of	Percent of Total Drivers for Whom Hearings Held Total Number of Drivers Licensed	eld		<u> </u>	····						
7. RESP.	8. STD.	9. TASKS & MILESTONES	STONES										
DMV	305	9. HEARING PROGRAM	OGRAM	<u> </u>	·								
		A. Number of B. Number of C. Personne	Number of Formal Hearings Held (000) Number of Hearing Suspensions (000) Personnel - State Level		4 4	. s.	.17	. 15	. 15	. 18	2.	æ r-	∞, ∞,
		1. Hearing 2. Field I 3. Clerks	Hearing Examiner Field Inspector Clerks		9 11 11	1 1 6	1 1 9	H H 9	6 1 1	6 1 1	1 1 6	H H 9	6 11 1
10. DESCRIPTION	PTION		11. COST BY TASK \$(000)										
9. This prowith cit involve violation	This program conducts formal he with citizens who are repeatedly involved in accidents or traffic violations of a minor nature.	This program conducts formal hearings with citizens who are repeatedly involved in accidents or traffic violations of a minor nature.	9. Hearing Program	76	. <u> </u>	08	21	21	21	21	84	68	69
			12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

SS SY BOATE	19 74 19 75 FY+1 FY+2	-				· · · · · · · · · · · · · · · · · · ·	4 4 44	1 1 1 6			68	
4	TOTAL						3 .41	9			4.8	
DL-73-161	46-73-05-10 19-73 Q 4th Q						.75	11 9			21	
NO.	SAR 3						. 10	7 7 9			21	
QZ QZ	FISCAL YH	ļ		-		· . · . · . · . · . · . · . · . · · · ·	. 10	11 6	***************************************		21	
TING A	Ist Q						. 75 . 10	9			21	
VER TES	$\begin{array}{c c} LICENSING \\ \hline 71 & 19 \overline{72} \\ \hline -2 & FY-1 \end{array}$					·		0 11	·		8	
TITLE DRIVER TESTING AND	19 71 FY-2						88°.	1 1 6			26	
1. State of Virginia 2.	5. DRAFTED BY A. D. Harvey APPROVED BY J. T. Hanna	Percent of Drivers Under Medical Control	C Percent of Drivers Tested	V Total Number Drivers Licensed	9. TASKS & MILESTONES	10. MEDICAL EVALUATION AND CONTROL PROGRAM	A. Number of Medical Statements Required (000) B. Number Citizens Suspended (000) C. Personnel - State Level	 Supervisor Field Inspector Clerks 		11. COST BY TASK \$(000)	sible for investigating 10. Medical Evaluation and control Program (\$000) ants from doctors all and/or mental vehicles with safety	led. 12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
HIGHWAY SAFETY PROGRAM	ANNUAL SUBELEMENT PLAN	6a. EFFECTIVENESS Per	eh Ourblin	001100	7. RESP. 8. STD.	DMV 305				10. DESCRIPTION	10. This program is responsible for investigating and monitoring those persons who must periodically file statements from doctors attesting to their physical and/or mental ability to operate motor vehicles with safety	wid respect to persons and property of nave their privileges suspended.

TECOTE ALL CHIEF TO	1. State of Virginia	Orginia 2. TITE	1 1	VER TESTI	UNIVER TESTING AND	ON .	DL-73 - 161 46-73-05-11	 	DA 7E 4-1-72	1-72
	7. DRAFTED BY APPROVED BY	SD BY A. D. Harvey 7ED BY J. T. Hanna	$\frac{1271}{\text{FY-2}}$	1972 I'Y-1	lst u	2.3CAL YEAR 1973	SAR 1973	TOTAL	1974	::.75
	it of Drivers Notifie	TOTAL STREET Percent of Drivers Notified Remaining Violation Free for One Year	Ļ						-	
66. OUTPUT V	Percent Drivers Total Number o	Percent Drivers Licensed Receiving Notices Total Number of Drivers Licensed								
7 CONT. 8 STD. 9.	TASKS & MILESTONES	TONES								
DMV 305 11.		PARTICIPATIVE DRIVER TRAINING PROGRAM								
	A. Number of W	A. Number of Warning Letters Sent (Estimated) (000)	Devel.	12	۳,	++	4	15	17.5	70
	B. Personnel - State Level	itate Level				·				
	 Analyst Clerk 			ကက	တက	en er	8 E	m m	ကက	en (r
										gania da — desarrantin FB ANGRÉS, A
IFSCATECOM		11. COST BY TASK								
11. This program is responsible for identifying and notifying those citizens who will have their operating privilege revoked or suspended if additional traffic violations are committed.	le for identifying s who will have evoked or ffic violations	11. Participative Driver Training (\$000)	09	49		17 17	17	67	1.	۲
		12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES								

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7 52-1	1813						: - : :	2,090	10		447	
D.V.1. 4-1-72	19.74 FY+1	+	!				0239	1,672	10 , 27		426	
! 	TOTAL						600	1, 338	10 27		403	
NO. DL-73-161 46-73-05-12	3 1. 4th Q						153	335	10		101	
NO. 46-7	FISCAL YEAR 1973						152	335	10		101	
3	ISCAL Y						152	334	10 27		101	
TING AN	lst Q						152	334	10 27		100	
DRIVER TESTING AND LICENSING	19.72 FY-1						የ	1,070	10 27		383	
TITLE LIG	1671 F Y - 2						504	856	10 27		898	
ci	ED BY A. D. Harvey	Time Required to retereve Driver Information	Percent of drivers upon whom records furnished	Total number of drivers licensed	:1 ONES	ORY INFORMATION PROGRAM	Number of Driving Record Transcripts Furnished to State and Local Law Enforcement Agencies (900) Number of Driving Record Transcripts Furnished	to insurance Companies and Other Commercial Agencies (000) Personnel — State Level	SOFS	11 COST BY TASK	12. Driver History Informa- rion Program (\$000)	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
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HICHWAY SAFETY PROGRAM	ANNIAL SUBLEMENT PLAN	EFFECTIVENESS Tim		OUTPUT	8. STD.	305				DESCRIPTION	This program provides copies of driving records to law enforcement officials, certain commercial users and individuals and certifies records as required for court use.	
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	State of Virginia	DRAFTED BY A. D. Harvey APPROVED BY J. T. Hanna			TASKS & MILESTONES	OVERALL PROGRAM ADMINISTRATION AND MANAGEMENT	Personnel - State Level	Administrators Department Managers Regional Managers Assistant Department Managers Assistant Regional Managers Staff Assistants Secretaries Branch Managers Assistant Branch Managers	11. COST BY TASK	τς <i>ν</i> ΄	12 TOTAL COST LACAL SHARE STATE SHARE FEPERAL SHARE TO LOCALITIES
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	HIGHWAY SAFETY PROGRAM ANNIAL SIIBELEMENT PLAN		EFFECTIVENESS	T	8. STD. 9.	305 1			FTION	14. The personnel outlined in this subelement are responsible for the overal! administration and management of all programs and projects.	
	CHWAY SAI		6a. EFFECT	6b. OUTPUT	7. RESP.	DMV			10. DESCRIPTION	14. The persure responsiband manageme	

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4	TOTAL					3,321	
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ER FEST	19 <u>72</u> FY-1					3,155	
LE DKIV	19. <u>71</u> FY-2	i				2,984	
1 State of Virginia 2. TII	5. DRAFTED BY A. D. Harvey APPROVED BY J. T. Hanna		Total Number of Drivers Licensed	TASKS & MILESTONES	15. ELECTRONIC DATA PROCESSING	11. COST BY TASK \$(000) 15. Electronic Data Processing ronic titing and	12. TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
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	WATER TO A STAR III		State of Virginia	s. THLE Dru	Oriver Testing and	g and	3. NO.	NO. DL-73-161 46-73-05-16	1 16 16	DA FE 4-1-72	1-72
	CAROCE CERTIFICATION	က်	DRASTED BY A. D. Harvey APPROVED BY J. T. Hanna	15 <mark>71</mark> FY-2	1372 FY-1	FIE 1st Q	FISCAL YEAR 1973 2nd Q 3rd Q	3rd Q 4th Q	TOTAL	1°74 FY+1	19 <u>75</u> FY 42
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16.		ine the feasibility ig stations in areas	16. Mobile Examining Station Project (\$000)	ion						49	10
	of the State serviced by traveling examiners, and if feasibility is established,	traveling ility is established,		· - ·	· • · · · · · · · · · · · · · · · · · ·				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	n gartagire	. ••••
, •	acquire two mobile examining stations and conduct a pilot operation to verify	amining stations ition to verify									
-	practicality and public acceptance.	cceptance.	12. FOTAL COST LOCAL SHARE STATE SHARE				· · · · · · · · · · · · · · · · · · ·				
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4. DATE 4-1-72-	TOTAL FY+2	-				Devel. Impla-			65 10	
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State of Virginia	DRAFTED BY A. D. Kervey APPROVED BY J. T. HEAD				LESTONES	VISUAL DISPL. Y DRIVER TESTING PROJECT (PILG 'PROJECT)		11. COST BY TASK	17. Visual Display Driverse (2000)	12. TOTAL COST SUCAL SPARS STATE SUCRE ELEGRAL SHARE
1.	i,		ر	V	9. TASKS & MILESTONES	17. VISUAL DISP PROJECT (PII			This project will study the feasibility of using visual display driver testing devices in place of written examinations in all or selected examining stations; and if feasibility is established, acquire visual display driver testing devices and conduct a pilot	
HIGHWAY SAFETY PROGRAM	ANNUAL SUBSLEMENT FLAN	EFFECTIVENESS			8. STD. !	305		(P <u>T</u> ION	This project will study the feasibility of using visual display driver testing device in place of written examinations in all or selected examining stations; and if feasibilished, acquire visual display driver testing devices and conduct a pilo	on.
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HIGHWAY SAFETY PROGRAM	ANNOAL SOBE LEMENT	6a. EFFECTIVENESS		6b. OUTPUT	7. RESP. 8. STD.	DMV 305	10. DESCRIPTION	19. This project will design and implement a Driver Improvement Program in three phases for the Commonwealth of Virginia to be administered by the Division of Motor Vehicles and the Department of Education.	letters to repeat violators, administering hearings, and working with the courts in the development of driver violators' schools for the repeat violator.
1.	5.		C	Λ	9. TASKS & MILESTONES	18. DRIVER IMPROVEMENT		in and implement a rogram in three inwealth of Virginia the Division of Motortment of Education.	ors, administering with the courts in the violators' schools
State of Virginia	DRAFTED BY A. D. Harvey APPROVED BY J. T. Hanna				ESTONES	PROVEMENT PROJECT	11. COST BY TASK	18. DRIVER IMPROVEMENT PROJECT (\$000) 402 Federal I unds	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
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DRIVER TESTING AND LICENSING	19 72 FY-1					Devel.		96	
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	Virginia 2. TITLE	ED BY A. D. Harvey JED BY J. T. Hanna				STONES	20. PROOF OF BIRTHDATE AND BIRTHPLACE PROJECT				11. COST BY TASK	20. Proof of birthdate and birthplace. (\$000)	12. TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
	AN State of Virginia	5. DRAFTED BY APPROVED BY		၁	Λ	9. TASKS & MILESTONES	20. PROOF OF BII					Subject to passage of enabling legislation this program will require positive proof of place and date of birth whenever a citizen applies for an original license or an instruction permit. This program will enable us to consult with consult.	n part of Standard NHTSA.
	HIGHWAY SAFETY PROCUAM		EFFECTIVENESS	E	0.1	8. STD.	305				DESCRIPTION	Subject to passage of enabling legislat this program will require positive proof place and date of birth whenever a citizen applies for an original license an instruction permit. This program analy is to comply with the program of the program of the property of the program of	305 promulgated by the NHTSA.
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· · · · · · · · · · · · · · · · · · ·	5. DEAPTED BY API ROYED BY	ED BY A. D. Harve, ED BY J. T. Hama	30 <u>71</u>	1972 Fir-1	FISCA 1st Q 2nd	FISCAL YEAR 1973	4tb Q TO"AL	AL 174-1	2075
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es, ourpur	C % Drivers teste	% Drivers tested on automated equipment Total number of drivers licensed							an an indian
7 TESP. 8. STD. 1	9. TASKS & VILESTONES	TONES					ſ		
DMV 305	21. Virginia Automa	Virginia Automared Driver Testing Project		Develop			Develop and Imple	d p	
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21. To develop a fully automated driver testing facility for written examination and road testing on a driving range with automatic scoring of applicants, and to compare the accident and traffic violations of persons tested in non-automated, partially automated, and fully automated.	nated driver testing on and road testing natic scoring of ne accident and ested in non- ed, and fully amo-	21. Automated Driver Testing (\$000) 402 Federal Funds	sting	177.5	27	27 27	26.5 10	107.5	
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Title and No. DL-73-161	Driver Testing and Licensing Measures of Effectiveness	6a, EFFECTIVENESS Instruction Permit and Testing Number of driver history files established upon issuance of instruction permit.	Original License Testing and License Issue Program Number of drivers licensed compared wit the total applicants for original license.	Renewal License Testing and Licensing Program Number of licenses renewed compared with total applicants for renewal.	Restricted License Testing and Licensing Program Number of restricted licenses issued or 4.	Drivers' Retesting and Licensing Program Number of licenses issued to drivers retested.	Financial Responsibility Monitoring Prog Number of suspension orders issued to drivers licensed.

FFFECTIVENESS SUPPLEMENT

TO THE SCHEDENT

	Date	1971	1972			Fiscal Year 1973	: 1973		1974	1975
Driver Testing and Licensing Measures of Effectiveness	4/1/72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
Crash Reporting Program Number of drivers and/or owners suspended for failure to prove financial responsibility compared with total crashes reported.	pended bility									
Conviction Processing Program Number of drivers convicted whose licenses were suspended or revoked compared with total convictions processed.	censes with									
Hearing Program Number of hearings held compared with total drivers licensed.	th									
Medical Evaluation and Control Program Number of persons under medical control compared with total drivers licensed.	n itrol									
Participative Driver Training Program Number of drivers receiving warning letters suspended compared with number of drivers receiving warning letters.	letters rivers									
A. Average time to furnish driving record transcripts to law enforcement agencies. B. Average time to furnish driving record transcripts to insurance companies and other commercial accounts.	ng record it agencies. ng record oanies and									

DRIVER TESTING AND LICENSING

The long-term objective of the driver testing and licensing programs of the Virginia Division of Motor Vehicles is to test 100% of the applicants for first licenses and license holders every four years to reduce the number of drivers involved in vehicle crashes, and to reduce the property damage, injuries, and deaths caused by highway accidents. The reductions will be accomplished by:

- (1) Preventing unqualified persons from becoming drivers on the highways, and
- (2) by removing from the highways drivers who fail to maintain standards of qualification.

The Division is conducting testing and licensing programs as follows:

- (1) For citizens who have never held a driver's license, passage of an examination on Virginia s motor vehicle laws and a vision test is required prior to the issuance of a temporary license (instruction permit). This permit allows the citizen to learn proper driving habits and skills under the supervision of a licensed driver and is valid only when the holder has a licensed driver occupying a seat by him.
- (2) For citizens who have never held a Virginia driver's license or who have let their license expire, passage of an examination on Virginia motor vehicle laws, a vision test, and a road test is required. However, the road test may be waived if the citizen holds a valid license from a reciprocating state.
- (3) For citizens who are renewing their driver's license, personal appearance is required and the citizen must, at a minimum, pass a

visual examination. Further, depending upon his previous four years' driving history, he may be required to pass a written or oral test for knowledge of traffic regulations and a road test. These tests permit a periodic screening of all drivers and the removal from the highways of those no longer qualified for licensing.

(4) For citizens who (a) are qualified to operate only under restricted conditions such as the use of hand controls or during daylight hours, and (b) whose driving history has required a mandatory revocation of the driving license or privilege, a complete examination is required prior to the issuance or reissuance of a driver's license.

The Division also monitors those persons whose driving privilege is contingent upon maintaining proof of financial responsibility on file with the Division as a result of a driving history of convictions and/or accident involvement or uninsured vehicle ownership for which an uninsured fee has not been paid. Upon furnishing the required proof of financial responsibility, those citizens who are required to take an examination for a driver's license are authorized to do so.

All accident reports received are processed to identify those citizens who have not complied with the insurance requirements of Virginia. This program

- (1) Suspends the operating and registration privileges of citizens who are not in compliance with the law;
- (2) detects citizens for whom reexamination of driving qualifications may be required prior to the normal four-year cycle; and
- (3) may recommend formal hearing action based on a review of the overall driving record of the citizen, or upon indication of a medical condition.

All convictions received by the Virginia Division of Motor Vehicles are processed to the drivers' records. This program identifies citizens whose traffic violations require the revocation of their driving privileges, issues notices for reexaminations, or recommends hearing actions based on the review of citizen's driving records.

The formal hearings program is used for citizens who are repeatedly involved in accidents or traffic violations of a minor nature. The citizens driving privileges may be suspended and/or other appropriate actions may be taken as a result of the hearings.

The medical evaluation and control program is responsible for the investigation and monitoring of persons who must periodically file statements from doctors attesting to their physical and/or mental ability to operate motor vehicles with safety or have their privileges suspended. Citizens who are subject to this program are detected by reports from hospitals, reexaminations of a routine nature, notations on crash reports that the citizen "blacked out" or has a physical condition that could cause loss of control of the motor vehicle, and referrals by the courts, friends, and relatives. If necessary, the Division has access to a medical advisory board for professional opinions relating to the medical condition.

In 1972, the Division initiated the first phase of a three phase participative driver training program, which is responsible for identifying and notifying those citizens who will have their operating privileges revoked or suspended if they commit additional traffic violations.

The driver history information program of the Division provides copies of the driving records to law enforcement officials, and certain commercial users, and certifies records as required for court use.

Virginia conducts a habitual offender program that identifies those citizens whose driving records contain repeated violations. Once such a citizen is identified, his driving record is certified and copies furnished to the citizen and to the appropriate officials for prosecution as a habitual offender. If the driver is certified as a habitual offender, his operating privileges are permanently suspended by the courts. However, after ten years have elapsed, he may petition the court for reinstatement.

All the foregoing programs are connected with an extensive electronic data processing program for driver testing and licensing transactions and driver history records.

To improve highway safety by improved testing and licensing of drivers, the Division is requesting federal funds for the following projects:

- (1) Mobile Examining Station Project This project will determine the feasibility of using mobile examining stations in areas of the state now serviced by traveling examiners, and if feasibility is established, to acquire two mobile examining stations and conduct a pilot operation to verify the practicality and public acceptance of the use of such stations. To develop this project \$64,000 is requested for fiscal year 1974 and an additional \$10,000 to implement the project in 1975.
- (2) Visual Display Driver Testing Project (Pilot Project) This project will study the feasibility of using visual display driver testing devices in place of written examinations in all or selected examining stations; and if feasibility is established, to acquire visual display driver testing devices and conduct a pilot operation. To develop this project, \$65,000 is requested for fiscal year 1974 and an additional \$10,000 is requested for fiscal year 1975 to implement the project. These devices would

permit greater utilization of existing manpower in light of the increasing number of examinations for driver licenses and examinations required for the renewal of them.

(3) Virginia Automated Driver Testing Project — This project calls for the development of a fully automated driver testing facility for written examinations and road testing on a driving range with automatic scoring of applicants, and for a comparison of the accidents and traffic violations of persons tested in nonautomated, partly automated, and fully automated testing facilities. To develop this project \$177,500 was requested for fiscal year 1972, and an additional \$107,500 to complete the development and implement the operation was requested for 1973 fiscal year.

This project, when coupled with the visual display driver testing project and the mobile examining station project, will place Virginia in what may be a unique position of being able to compare the results of driver testing in nonautomated, semiautomated, and completely automated environments and the subsequent effects on the person's driving performance.

Maintenance of the records of this type of study and program will necessitate an expanded electronic data processing data base, which is one of the reasons for requesting funds under standard 310 for an expanded data base project.

(4) Driver Improvement Project — This project will design and implement a three phase program for improving the quality of the drivers on Virginia's highways. Phase I of the program will consist of the issuance of warning letters to drivers to advise them of a deterioration in their driving records. Phase II will consist of an expanded hearing program to counsel drivers

concerning their driving habits. Phase III anticipates a program of participative driver training and education. To develop this program the Division requested \$96,000 for fiscal year 1972; \$76,000 for fiscal year 1973; \$80,000 for fiscal year 1974; and \$84,000 for fiscal year 1975.

This program will also require an expanded electronic data processing data base for which funds are requested under standard 310. Further, through the use of the fully automated examination station with the automated driving range, the participative driver training and education portion of the driver improvement project will be able to obtain an objective measurement of a driver's response to potential accident situations before and after participation in the program.

In addition to the projects for which federal funds have been requested, the Division, subject to the passage of enabling legislation, will implement a single, fully classified driver's license to replace the present dual system of operator's and chauffeur's licenses, and a proof of birth date and birthplace project. The latter program will require positive proof of place and date of birth whenever a citizen applies for an original license or an instruction permit. This program will enable Virginia to comply with part of Standard 305 promulgated by the National Highway Safety Bureau.

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AUGHWAY SAFETY PROGRAM	AM 1 State of Vregmia	sgmia 2	LITLE CO	Codes and Laws	w.s	8	N. CL-73-501	73-501	7	DATE 4/1/72	1/72
	5. DRAFTED BY APPRINCED BY	50 BY W. L. Howard	18.71 FY-2	1972 FY-1	Ist Q	FISCAL YEAR 19 73	374 197 3rd Q	3 4th Q	TOTAL	1974 FY+1	19.75
5a. EFFECTIVENESS See Effectiveness Supplement to the	Effectiveness Suppler	ment to the Subelement									
6b. OUTPUT	C _m of Localities Using Virginia's Model Vo. of Localities Using Virginia's Mo	C% of Localities Using Virginia's Model Traffic Ordinances V No. of Localities Using Virginia's Model Traffic Ordinances	ances *NA dinances *NA								
7. RESP. 8. STD. HSD 306	9. TASKS & MILESTONES1. Enact legislation in order laws into compliance with	STONES on in order to bring Virginia codes and liance with the Uniform Vehicle Code	and Intro.	Intro Update			Intro. Update		Intro Update	Intro Update	Intro. Update
	2. Contract to compare traffice with Uniform Vehicle Code	Contract to compare traffic law provisions of Virginia with Uniform Vehicle Code	ginia Con-	Update	Update	Update	Update	Update	Update	Update	Update
	3 Contract to publish model Virginia counties and mun all localities.	Contract to publish model traffic ordinances for Virginia counties and municipalities. Distribute to all localities.	Pub- to lished	Dist	Dist	Dist.	Dist	Dist.	Dist.	Dist.	Dist
-	4. Update Virginia traffic law	ı traffic laws.		Update				Update	Update	Update	Update
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	6. State Traffic Codes No. Distributed	odes	ro	Update 5					Update 5	Update 5	Update 5
10. DESCRIPTION The state of Virginia is attempting to reduce the number of accidents, including fatalities, per-	tempting to reduce	11.	ffic 8. 750	0	က	ю	က	က	12	12	12
sonal injuries, and property damage, caused by those drivers who are ignorant of our laws as	damage, caused by	3 Model Traffic Ordinances 4. Update Virginia traffic laws	0	0		က	က	9	မ မ		oc oc
well as those of those of other states. It is re-	er states. It is re-	5. Public Information Program	0 10	0 (1.5	1 5	5 1	1.5	9 (
alized that in many cases this ignorance is not the fault of the driving public, but the fault of	Is ignorance is not	o. State Fallic Codes	c7	o	3	0	0	0	8	4	9
many cities and towns because of the vast array	se of the vast array	12. TOTAL COST \$(000)	63, 75	50	18.75	23 75	13. 75	35. 75	92	87 0	92
of changing and conflicting traffic laws both with-	raffic laws both with-	LOCAL SHARE	0	0	0		0		0	0	0
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plans to continue working for complete uniformity of traffic laws among its cities and towns and	r complete uniformity es and towns and	FEDERAL SHARE TO LOCALITIES	31.88	0 0	9 375	11 875 11 875	6.875	17 875 17 875	46 46	43 5 43 5	46 46
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HIGHWAY SA	HIGHWAY SAFETY PROGRAM	AM AN	1. State of Virginia	⁷ irginia	2. TITLE	Codes	Codes and Laws	82	3.	NO. CL-73-501 46-73-06-02	CL-73-501 6-73-06-02	4	DATE 4/1/72	1/1/72
			5. DRAFTED BY APPROVED BY	D BY W. L. Howard ED BY J. T. Hanna	1971 FY-2		19 <u>72</u> FY-1	FIS 1st Q	CAL YE	FISCAL YEAR 1973 2nd Q 3rd Q	4th Q	TOTAL	19 <u>74</u> FY+1	19 <u>75</u> FY+2
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6b. OUTPUT	F	C												
7. RESP. HSD	8. STD. 306	9. T	TASKS & MILESTONES Training (Policemen)	CONES men)	. Devel.	T	Training (Cont'd.	ont'd.	Cont'd. Cont'd.		Cont'd.	Cont'd.	Cont'd.
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HSD	306	9. B B	Upgrade and keep Fashion — The M and Counties	Upgrade and keep in Current Form — Loose Leaf Fashion — The Model Traffic Ordinances for Cities and Counties	af tties	dn	Upgrade U	Upgrade Upgrade Upgrade Upgrade Upgrade Upgrade Upgrade	pgradel	Jpgradel	Jpgrade	Upgrade	Upgrade	Upgrade
HSD	306	10. P	rogram to Establ	Program to Establish New Codes and Laws for the State	State	Su	Survey S	Survey St	Study S	Survey	Study	Survey	Study	Study
Traffic Records Committee	306	11. I	Data System				· · · · · ·					Study	Survey	Survey
HSD	306	12. F	Reprint copies of	Reprint copies of new Virginia traffic laws		Re	Reprint			<u> </u>	Reprint Reprint	Reprint	Reprint Reprint	Reprint
also bring the codes and laws of Virginia into compliance with the Uniform Vehicle Code. Programs under way in our state to provide the abov are listed below. We intend to enact new legislation bringing Virginia's codes and laws into compliance with the Uniform Vehicle Code. This legislation was introduced in the 1972 General Assembly which began in January 1972. A contract with a publishing firm is anticipated for the purpose of comparing Virginia's law with the Uniform Vehicle Code, to update the existing code, and publish for distribution model traffic	also bring the codes and laws of Virginia into compliance with the Uniform Vehicle Code. Programs under way in our state to provide the above are listed below. We intend to enact new legislation bringing Virginia's codes and laws into compliance with the Uniform Vehicle Code. This legislation was introduced in the 1972 General Assembly which began in January 1972. A contract with a publishing firm is anticipated for the purpose of comparing Virginia's law with the Uniform Vehicle Code, to update the existing code, and publish for distribution model traffic	mued. s of Vi The Vehic ce to pr fislatio to com This le sal Ass g firm g firm g firm y virgin tution m	s s s s s s s	11. COST BY TASK \$(000) 7. Training 8. Issuance of Inserts 9. Model Traffic Ordinances 10. New Codes and Laws 12. New traffic laws 12. TOTAL COST \$(000) 12. TOTAL SHARE FEDERAL SHARE TO LOCALITIES	30 0 0 0 0 0		0000%	0 0 0	5 0 0 10 0 0	0 1.25	10 25 4 4	20 110 5 20 4	20 10 10 5	20 10 5 10 6

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Codes and Laws
$$\frac{\text{CL-73-501}}{46-73-06-03}$$
 DESCRIPTION (Cont.)

ordinances for Virginia's cities and municipalities. The Highway Safety Division plans to develop a public information program to: familiarize the public with new and existing codes and laws; distribute copies of the state code throughout the state; introduce a training program in order to familiarize policemen with the provisions of the code; issue inserts to all cities and municipalities updating their state code; and begin a program for the development of new codes and laws when the need arises. The HSD will also contract for the reprinting of new Virginia traffic laws as soon as they are passed.

Also under way in Virginia is a new traffic records program that after completion will enable us to effectively evaluate our programs in codes and laws.

A program is also being developed to encourage the adoption of the model traffic ordinances by the cities and counties.

The HSD of Virginia has taken the responsibility of bringing Virginia into compliance with Standard 306 as promulgated by the NHTSA.

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EFFECTIVENESS SUPPLEMENT TO THE SUBELEMENT

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46-73-06-05 4-1-72 Codes and Laws	-72								
6a. EFFECTIVENESS									
*Number of Highway and Traffic Safety Statutes Where Virginia Varies From UVC.	Ď.								
1.									
Number of Localities Not In Compliance With Model Traffic Ordinances for Counties and Cities	With								
NY Les of Anni Jonete Terrollules Out of Choto		** 1067	** 1968				** 1969	** 1970	** 1971
Drivers — Rural - Urban			10,864 6,032				12,220 6,885	12, 371 7, 138	
3.									
Number of Fatalities Involving Out-of-State		**1967	**1968				**1969	**1970	**1971
Drivers Rural		183	184				190	170	
Urban 4.		45	ဗ္ဗ				29	37	
* This information will be available upon completion of traffic redords system.	du comb	letion of t	raffic red	ords syste	m°				
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CODES AND LAWS

The two main problem areas with respect to "Codes and Laws" in the state of Virginia traditionally have been a lack of compliance with majority practice as embodied in the Uniform Vehicle Code (UVC) and insufficient dissemination of information. Consequently, many of the state's efforts in recent years have been directed toward improvement of these deficiencies.

With respect to achieving compliance with the UVC, the first phase of the effort has been directed toward determining where discrepancies exist between the UVC and the Code of Virginia (COV). The comparative analysis conducted by the National Committee on Uniform Traffic Laws and Ordinances in 1967 has served as the basic tool of comparison; however, the Highway Safety Division of Virginia recently contracted with the Michie Company (law publishers) to provide an update of the comparison for 1971. The comparison has been completed, and the resulting document has been released to concerned groups and individuals, including the Attorney General's Office, the Office of the Governor, the Chairman and members of the Highway Safety Commission, etc. Additionally, plans are being made to finance an update of the 1971 comparison commensurate with whatever changes result from the 1972 session of the Virginia General Assembly.

The second phase in achieving compliance with the UVC consists of recommending changes in the COV based on the inconsistencies revealed in the comparison. A bill has been introduced in the current session of the General Assembly which would establish a committee whose responsibilities will include studying the comparative analysis and reporting back to the Governor's Office and the General Assembly on its findings and recommendations.

However, implementation of the UVC has not awaited formal action by this committee. A number of legislative proposals have been introduced which would bring

portions of the COV into compliance with the UVC. Examples in the current legislative session include bills which would lower the presumptive level for definition of driving under the influence of alcohol to 0.10%, authorize quantitative breath testing, and allow right turns on red traffic lights provided traffic signs so authorize.

In the context of legislative recommendations, a good deal of basic research has recently been conducted by the Highway Safety Division's research arm — the Safety Section of the Virginia Highway Research Council. Three reports on this have related to the area of driving under the influence of alcohol: (1) a statutory comparison of COV provisions on this topic with those of the other 49 states and the District of Columbia, (2) a research document supporting the Highway Safety Division's aforementioned legislative recommendations on the presumptive level and the breath test, and (3) a public opinion survey entitled, "Driving Under the Influence of Alcohol: Determining an Optimum Sanction."

In the area of drug usage and its consequent danger when combined with driving, the Council has recently published two reports: (1) a literature survey entitled "The Effects of Drugs on Driving Performance," and (2) a report entitled "Marihuana and Drug Use and Highway Safety — A Survey of High School Students in Virginia." The UVC will, of course, be utilized in the evaluation of the current Virginia statute. The continuing development of expertise in this area is considered essential given the growth in drug usage among younger members of society, and the preliminary groundwork should enable the researchers to make valid judgments in considering the efficacy of the present statutory provisions.

In addition to the efforts to achieve uniformity with national standards, attempts are being made to achieve consistency within the state by encouraging the counties and municipalities to make their local traffic laws conform to the state code. One method

has been through promulgation and distribution of model traffic ordinances based on the COV. An update commensurate with recent changes in the code is tentatively scheduled.

As previously mentioned, another deficiency has been inadequate dissemination of information concerning the code. One source of complaints has been police officers who had no access to a copy of the motor vehicle laws while on duty in the patrol car. To remedy this situation, 6,000 copies of the Motor Vehicle Laws of Virginia have been distributed to members of the traffic divisions of local police departments during fiscal year 1972. The Highway Safety Division plans to continue this program in light of the overwhelmingly favorable response. Additional plans include the printing and distribution of 1972 traffic law amendments as soon as they are signed into law by the Governor. Newspaper coverage and television and radio spot announcements will be utilized to inform the public of significant changes in traffic safety laws.

In summary, present efforts are based on a recognition of the interstate and international character of motor vehicle travel and the corresponding need for uniformity in traffic laws to reduce the probability of accident occurrence through the inadvertent violation of laws, as well as the need of the public to know those statutes by which their driving conduct is governed.

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State of Virginia	3D BY William L. Howard 7ED BY John T. Hanna	SEE EFFECTIVENESS SUPPLEMENT	tors Convicted	V No. of Convictions for Traffic Violations	TONES	Contract for a study of the traffic court operations in Virginia in relation to their impact on highway safety and determine compliance with the national safety standards.	ure manual		nel	Renovation of courtrooms	Seminar for traffic court judges Number attending — one session	11. COST BY TASK \$(000) 1. Study of traffic courts in Va. 2. Court procedure manual 3. Personnel 4. Renovation of courtrocms 5. Seminar	12. TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
-1	5. DRAFTED BY APPROVED BY		C % of Traffic Violators Convicted	No. of Conviction	TASKS & MILESTONES	1. Contract for a study of in Virginia in relation (safety and determine esafety standards.	2. Court procedure manual		3. Court personnel	4. Renovation of	5. Seminar for Number atter	the most beneficial programs in reducing the number of accidents including fatalities, personal injuries and property damage is that of a good traffic court system, it is recognized that the revocation and suspension of licenses and the tining of traffic law violators will not alone keep the violator off our roadways. We feel that this che we can attribute many of our	cep lim off our highways. A.th this in mind the state will attempt to continuate a traffic courts program that will courts the following: Each court trying traffic
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	6. Data System					Study					Design		

state in a program to assure that all tractions in the state complement and superard state complement and superard statewide safety objectives; each tration of justice as outlined in the rections by the American Bar Association all convictions for moving violations ed to the state traffic records system.	state in a program to assure that all traffic courts in the state complement and support local and statewide safety objectives; each traffic court to meet national standards in the administration of justice as outlined in the recommendations by the American Bar Association; and that all convictions for moving violations be reported to the state traffic records system.	11	COST BY TASK \$(000)	•									
conduct art needs arisdictic have allc	The state plans to conduct additional studies in areas of traffic court needs and make recommendations to local jurisdictions. Funds previously appropriated have allowed a study to	12.	TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES	(6)									

1357

Traffic Courts $\frac{\text{TC-}73-491}{46-73-07-03}$ DESCRIPTION: (Cont.)

be conducted and established procedures, etc. to have been collected. With additional funds we will be able to develop and print operational and procedural manuals and distribute them to all of the State's traffic courts. We also intend to study and make recommendations on our justice of the peace system throughout Virginia.

It is the intention of the Highway Safety Division of Virginia to aid in the establishment of an annual seminar for traffic court judges. A uniform and appropriate application of traffic laws is a necessity if the laws are to serve the purpose for which they are intended. This would be a training session and would provide those who administer traffic laws with an idea and a mutual feeling of the interpretation of new and revised legislation.

The Division also intends to work with localities in the renovation of courtrooms, to enable the courts to meet certain minimum standards deemed necessary for the efficient administration of justice.

The Traffic Records Committee is in the process of developing a data system that will enable us to evaluate our program more effectively.

Traffic court judges are beginning to work with local school personnel in the development of violator schools for all traffic law violators. The classes are held at the local high school, taught by school personnel and are mandatory for violators or their penalty are invoked.

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EFFECTIVENESS SUPPLEMENT
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46-73-07-05 Traffic Courts	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
 * Number of accidents among those drivers who have had a previous traffic law violation. 	e drivers law viola-									
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TRAFFIC COURTS

Basic to any discussion of the Virginia traffic court system is a general understanding of its structure. In general, the majority of traffic offenders enter the traffic court system in a "court not of record", which is a court having jurisdiction limited to claims of \$3,000 or less and to trials of misdemeanors (most traffic offenses being misdemeanors). From that point, appeals may proceed to the circuit court level, and, in a few instances, to the Virginia Supreme Court of Appeals. While this analysis is a bit oversimplified, it suffices for purposes of discussion due to the fact that the majority of offenses are disposed of at the lowest level (the court not of record). Consequently, it is this court that potentially has the greatest impact on the bulk of traffic offenders.

In recognition of the importance of a viable traffic law system in achieving the deterrence of behavior involving risk to the motoring public, a good deal of critical analysis is being directed toward the Virginia traffic court system. The first phase of the analysis has consisted of a contract between the Highway Safety Division and Peat, Marwick, Mitchell and Co. (consultants) to study the Virginia traffic court system in terms of its impact on highway safety and to determine the degree of compliance with the NHTSA standards dealing with traffic courts. A number of the study's recommendations have been acted upon: (1) Perhaps the major recommendation of the study was the suggestion that a standardized administrative procedures manual be developed for the use of the lower courts. While the Supreme Court has promulgated rules of procedure for other courts, as yet it has not promulgated rules for the courts not of record. There is, however, a degree of uniformity among local courts due to the fact that a committee of judges proposed rules some years ago, many of which were adopted by the courts. Nevertheless, the study noted that there was little standardization of approach among the courts.

To rectify the situation, a committee has been appointed by Chief Justice Snead of the Virginia Supreme Court to develop such a manual. The committee is headed by the Honorable W. H. Overby, Judge of Campbell County Court, and composed of judges, members of the Attorney General's staff, and a professional staff of consultants consisting of practicing attorneys, law professors, etc. The manual is expected to cover procedures for criminal courts and juvenile courts as well as traffic courts. Its funding will be provided from both highway safety funds and a LEAA grant. Completion of the manual is contemplated for 1972. It is expected that the availability of this manual will be of substantial benefit to traffic court judges in the operation of their courts, particularly to the newer judges, as well as contributing to the overall image of the system in the eyes of the public by promoting uniform treatment within the state regardless of the locality wherein the offense occurs. (2) Related to the goal of improving the image of the court is the question of the adequacy of court facilities. The study found that a number of the courts visited were operating under near deplorable conditions. Given the importance of having the proper indicia of authority to administration of justice, the Highway Safety Division has initiated a court restoration project to enable the courts to meet certain minimum standards deemed necessary in a court of law for the efficient administration of justice. Courts scheduled for restoration in the near future include those of Patrick, Wise, and Franklin Counties. (3) Two of the study's recommendations related to the present traffic records system in terms of its inability to provide quick and efficient access to driver record information and the inadequacy of current statistical data. The problems with the present traffic records system stem partly from the fact that the conversion from manual to automated record keeping has largely proceeded on a one-to-one basis, resulting in underutilization of existing equipment, inadequate

interfacing between competing data systems, duplicative efforts, and slow, costly data retrieval. In an effort to reach a solution, a traffic records committee has been formed, consisting of representatives from the Highway Safety Division, the Division of Motor Vehicles, the Department of Highways, the State Police, the Division of Automated Data Processing, the Driver Education Services, the Department of Health, and personnel from various local police departments. A subcommittee thereof is currently engaged in a feasibility study to identify statewide needs for data output. Completion of this first phase is projected for the end of fiscal year 1972; the design and operating phases are expected to then follow.

Finally, there always exists the need for increased opportunities for exchanges between judicial personnel. An annual seminar is planned in order to provide additional training for judges, as well as to promote an interchange of ideas as to the proper administration of justice and interpretation of existing and new legislation.

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AM 1. State of Virginia	5.	Effectiveness Supple	C % of those arrests V Number of those	9. TASKS & MILESTONES 1. Legislation lowering BAC	2. Legislation alle sumptive evide	3. Personnel (ongoing pu A. Policemen (work: B. Secretaries (part C. State medical exai		10. DESCRIPTION A major problem facing us today is that of the drinking driver. Statistics indicate that more than fifty percent of all fatal accidents can be	attributed to alcohol. In Virginia, the State Police reported, in 1970 31.4 % of all fatal crashes involved drinking drivers. In 1970 8 0% of the drivers in all	crashes and 22.7% involved in fatal crashes were known to have been drinking. In rural areas, involvement was 9.6% in all crashes and 22.4% in fatal ones. The State Police, however, state that these figures do not indicate the true
HIGHWAY SAFETY PROGRAM	DELEMENT F.	EFFECTIVENESS See	J.L	8. STD. 308	308	308		DESCRIPTION najor problem facing us ing driver. Statistics i	attributed to alcohol. In Virginia, the State Police reported, in 31.4 % of all futal crashes involved drinkin drivers. In 1970 8, 0% of the drivers in all	crashes and 22.7% involved in fatal crash known to have been drinking. In rural ar involvement was 9.6% in all crashes and in fatal ones. The State Police, however that these figures do not indicate the true
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61% having a positive test of .10% or above. In 1970 Virginia registered 1, 231 jatalities of which 630 were drivers. 303. or 48%, of these drivers were tested for alcohol with 183, or 60%, of them having a positive test.	. 10% or above. 11, 231 fatalities 303. or 48% , of alcohol with 183. iffive test.	12. TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDURAL SHARE TO LOCALTIES								
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State Health Dept.	308	6. Blood sample	Blood sample of drivers charged with DWI	, ·	7,230	8,500				6	9,200	10	
HSD	308	7. Public Inform	Public Information Program				Pr	esent Pr	Present Present Present Present	sent Pre		Cont'd.	Cont'd.
HSD	308	8. Alcohol countermeasures for policemen	termeasures indoctrination program n	ram			Develop R	Report Develop		Report		Review Review	Review
			·										
10. DESCRIPTION In order to reduce including fatalities, erty damage attribut wealth of Virginia ind drugs its number one Areas that need imm	PTION contireduce the num lities, personal utributed to alcifina intends to ber one priorit; ad immediate a	10. DESCRIPTION continued. In order to reduce the number of accidents, including fatalities, personal injuries, and property damage attributed to alcohol, the Commonwealth of Virginia intends to make alcohol and drugs its number one priority for fiscal year 1973. Areas that need immediate attention in Virginia area.	11. COST BY TASK \$(000) 5. Training 6. Blood samples 7. Public information program 8. Alcohol program	rogram	128	10.4 135.0 0	20.4 36.25 3.75	36. 25 3. 75	36, 25 3	36. 25 3. 75	20.4 145.0 15.0	30. 2 159. 0 15. 0	60. 2 155. 0 15. 0
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HSD 310 Traffic	10. C	omputer progr	am for	10. Computer program for preliminary breath test	Reports	rts	Pro	Program						
Records Committee 310	11.	Data system				Analys	Analysis Study		AnalysisAnalysis		Report			
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prosecutors and judges to lower the charge to impaired or reckless driving,	ges to lov or reckle	wer the	• 01	Computer program tor preliminary breath test	<u>-</u>		Prog 1. 129	Program 2				83	.5	٠. ت
offenses which allow the court's discretion in the length of license suspension. (3) Research shows that Virginia's presump-	the course susper Virginia	rt's discretion insion.	11. 12.	Data system Local alcohol projects		Cost 40.	Cost shown in SEP 310 40.8 20 20	3 SEP 31		50	30	80	100	150
tive levels of intoxication are unrealistic. Legislation has been introduced in our 1972 General Assembly to lower the presumptive level for definition of driving under the influence of alcohol from 0.15% to 0.10% by weight of alcohol in the blood	sation are introducubly to love efinition of alcoholot alcoholot alcoholot alcoholot alcoholot alcoholot	e unrealistic. Sed in our wer the pre- of driving I from 0. 15% in the blood	12.	TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

Alcohol and Drugs $\frac{AL-73-471}{46-73-08-05}$ DESCRIPTION: (Cont.)

and also permit the use of breath tests in addition to chemical tests of the blood for presumptive evidence of driving under the influence.

In our last General Assembly, a bill was passed allowing the use of preliminary breath tests as a screening device for all drivers stopped because of a suspicion of driving under the influence. In addition, we plan to work with local police for the purpose of sampling the blood of every driver involved in a fatal accident. In 1970 only 48% of the drivers killed in fatal motor vehicle accidents were tested for BAC. This is a decrease of 14% from 1969.

The Highway Safety Division will order sufficient quantity of breath testing devices and train policemen in their use if the "bill" passes. We will continue to develop and implement an alcohol countermeasures indoctrination program for all policemen. The purpose of this program will be to familiarize all law enforcement personnel with the problems presented by drinking drivers and pedestrians.

Virginia has also received a $3\frac{1}{2}$ year demonstration program, the Fairfax Alcohol Safety Action Project, paid for by the federal government under contract with the Department of Transportation's Office of Alcohol Countermeasures, as part of a broad national alcohol countermeasures program. The ASAP activities in four specific countermeasure areas will (1) assist the police in apprehending problem drinking drivers; (2) offer the courts new services for pre-trial investigation; (3) develop a new comprehensive system for treatment and rehabilitation; and (4) undertake a program to change public attitudes toward the problem drinking driver. It is anticipated that similar programs, on a smaller scale, will be started in 4 or 5 of the larger metropolitan areas around the state. Video and movie cameras will be purchased to assist the police departments and state police with DWI cases. They will be used to photograph subjects charged with DWI and the film utilized as evidence.

With the establishment of the Governor's Council on Narcotics and Drug Abuse, the state of Virginia plans to completely survey the area of drugs and make recommendations accordingly.

A data program has been developed by the Data Section of the Virginia Highway Research Council for the evaluation of the preliminary breath test devices. The Traffic Records Committee has completed a feasibility study on traffic records in Virginia and is now in the process of developing a traffic records system for Virginia that will enable us to evaluate our entire alcohol and drug programs more effectively.

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Alcohol and Drugs 4-1-72 FY-2 FY-1 1st Qt. 2nd Qt. 3rd Qt. 4th Qt. Total FY-1 FY-2 FY-	Title and No. AL-73-471 16-73-08-07	Date	19 67	19 68			Fiscal Year	69 :		1970	19 71
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ALCOHOL AND DRUGS

The Commonwealth of Virginia has long recognized that the drinking driver represents a serious threat to safety on the highway. Though statistically a small percentage of drivers, these drunken drivers annually cause 50% of the state's highway fatalities. For example, in 1970 alcohol contributed to the deaths of over 340 drivers on the Commonwealth's roads and a total of 19,000 crashes. But the Virginia Department of State Police, compilers of the statistics, are quick to point out that the figures do not indicate the true numbers since intoxication is frequently unreported when there does not exist sufficient evidence to justify prosecution.

Administrators in Virginia who recognize the need to reduce the annual highway death toll feel that the drinking driver problem is particularly amenable to state governmental initiatives through the legislative, administrative and judicial branches. Sociologists also agree that the control of the drinking driver is perceived by the public as a legal or law enforcement problem rather than a medical one. Whether that particular attitude is correct or not, it seems clear that the public will readily accept countermeasures designed to protect them from the drinking driver.

The following information should provide insight into the current parameters of the driving while intoxicated (DWI) problem and the practical response of law enforcement agencies. (See Exhibits 37 and 38.)

1371 EXHIBIT 37
VIRGINIA CRASH FACTS

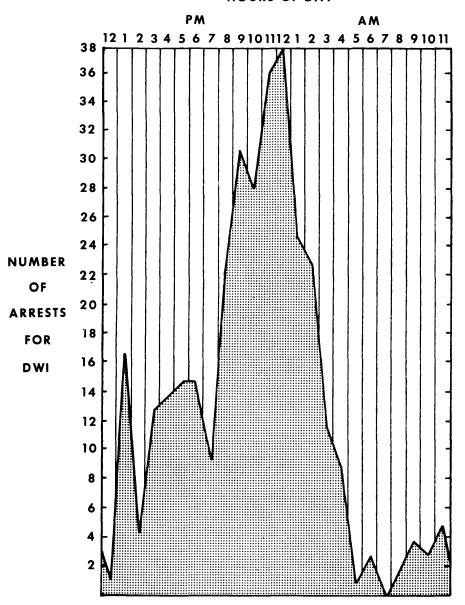
Summary of Facts			
	1968	1969	1970
Total number of highway fatalities	1,218	1,304	1,231
Driver Fatalities	568 (47%)	583 (45)	630 (51%)
Driver fatalities who were tested for alcohol	400 (70%)	363 (62%)	303 (48%)
Positive tests (indicating presence of alcohol) of driver fatalities	242 (61%)	209 (58%)	183 (60%)
Positive tests at or above .10% pre- sumptive level of intoxication of driver fatalities	202 (83%)	184 (88%)	147 (80%)
Positive tests at or above .15% pre- sumptive level of intoxication of driver fatalities	158 (65%)	123 (59%)	110 (60%)
Positive tests of male driver fatalitie	es	197	
Positive tests for female driver fatalities		7	
Positive tests of fatalities between th ages of 16 to 24	e	88՝	
Total number of blood tests given to suspected DWI's	6,491	7,037	7,230
Number of blood tests over .10% pre- sumptive level of intoxication	6,329 (98%)	6,840 (75%)	7,006 (97%)
Number of blood tests over .15% pre- sumptive level of intoxication	5,604 (85%)	6,066 (86%)	6,078 (84%)
Economic loss (estimated)	\$245,000,000	\$265,000,000	\$270,000,000

(Statistics for positive tests broken down between male and female, age groups, and time periods are not readily available in Virginia for 1968 and 1970. From Virginia Department of Health, Office of the Chief Medical Examiner, September 15, 1971.)

EXHIBIT 38

DRIVING WHILE INTOXICATED ARRESTS (From 254 Virginia Traffic Safety News, August 1970) p. 1.

HOURS OF DAY



1373 Historical Approaches to the Problem

Both because of the gravity of the drinking driver problem and the perceived efficacy of administrative solutions, the Highway Safety Division intends to make the reduction of alcohol and drug related accidents its number one program for fiscal year 1973.

Implicit in any decision to wage a full-scale attack on one section of a multi-faceted problem is a realization that historical approaches have not worked. In most cases the "solutions" have tended to be either misguided or inadequate in scope or practical effect.

The traditional public information campaign designed to inform the general public of the too often tragic results of mixing drinking with driving have focused on a total prohibition of all drinking by drivers. The typical "if you drink, don't drive" slogan is familiar to all. The public, however, has refused to believe such blanket prohibitions. Too often a citizen has had "a few drinks" and driven without either ill effect or accident. In short, the lack of congruence between the enunciated doctrine and the facts of driving have succeeded in undermining its effect. So any highway safety program aimed at the drinking driver must overcome a credibility gap fostered by the earlier misguided campaign.

Punitive legal sanctions have also played a major role in the effort to reduce the human and property costs of the drinking driver. Probably the most significant legislative efforts dealing with the safety problem of alcohol-related accidents are the use of presumptive levels to determine intoxication and the use of chemical tests to determine a driver's blood alcohol level. Virginia initially adopted the liberal standard of .15% weight of alcohol in the accused's blood as raising a presumption of intoxication. Virginia also chose to rely solely on the blood test, a method

particularly fraught with practical administrative difficulties. In order to combat driver refusals to take chemical tests after the conviction efficiency was quickly proved, most states enacted implied consent statutes. Virginia's statute requires drivers as a condition to using the highways to submit to a chemical test. Unwarranted refusal results in a separate penalty. In practice, however, these seemingly logical legal countermeasures have not notably decreased the safety problem caused by the drinking driver.

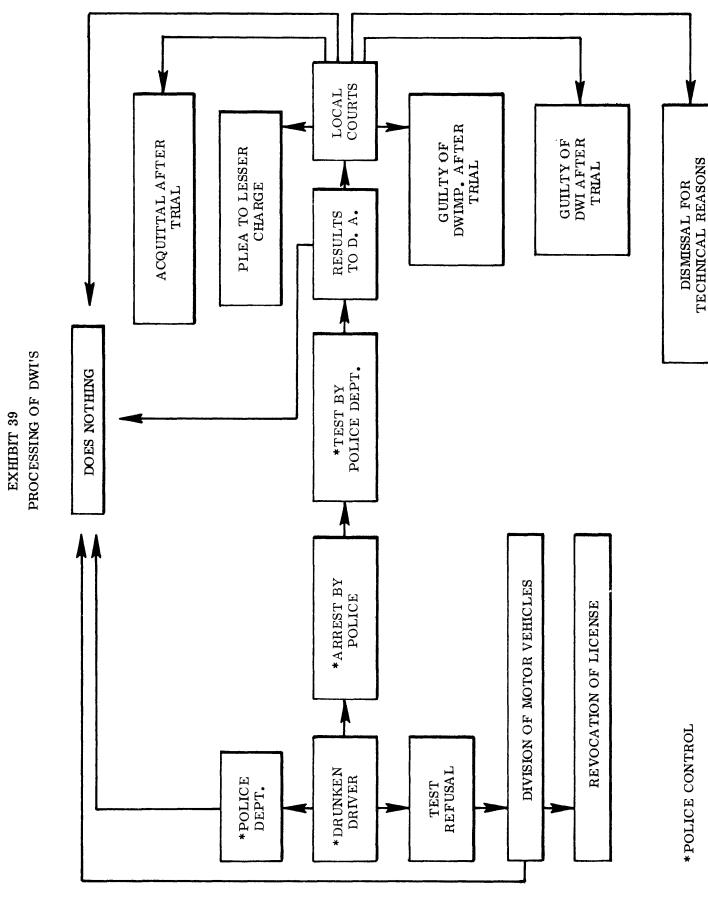
Earlier efforts to control the drinking driver were also hampered by a lack of unanimity among officials as to the appropriate means—ends relationship. This conflict was heightened by the incomplete and conflicting viewpoints of researchers as to the underlying scientific basis for legislation. Some scientists felt that evidence linking drinking drivers with highway accidents was inconclusive at best. Others were unconvinced as to the efficiency and thus utility of any chemical test means of determining intoxication. Such vacillation in the scientific field had the effect of freezing any comprehensive all—out attack on the drinking driver. The lack of clearcut, agreed upon bases for strict legislation hampered the necessary widespread public acceptance which is so often the spur to political action. Too frequently, politicians were wary of "going out on a limb" to support measures viewed as threatening by many of their constituents.

A further inadequacy of the traditional method of dealing with the drinking driver was a major allocation of the problem solving function to the private sector. Such organizations as the American Automobile Association and the Association of Insurance Agents normally handled the brunt of the public information and lobbying efforts. Their performance was unfortunately strictly circumscribed by budget requirements, proliferation of other duties, and a frequently obscured conflict of

interest problem. For example, liquor lobbies frequently give lip service to measures designed to protect the law-abiding user of the highways, but behind the scenes emasculated strictly drafted legislation.

Researchers have also commented frequently on the alleged failure of the law enforcement branch to adequately enforce the existing Code provisions pertinent to the drunken driver. They reason that even if the laws are perfectly congruent with the facts the system will inevitably break down from failure to uniformly apply sanctions. Research has shown that frequently charges are reduced. Even if selective nonenforcement is not rampant in a given area, attitude surveys have shown that the citizendriver believes one can frequently "fix" drunken driving charges. Exhibit 39 shows the many paths a drunken driver may follow through the legal system in Virginia.

An understanding of the failure of former programs designed to alleviate the threat of the drinking driver is necessary to a formulation of new countermeasures. Using the past as a guideline for change, Virginia has initiated numerous programs to reverse the increasing toll of the drunken driver. Though Virginia's program draws on experience for guidance, it does not rest entirely on the mere updating of old methods. On the contrary, steps are under development which may add a significant new dimension to the range of possible solutions.



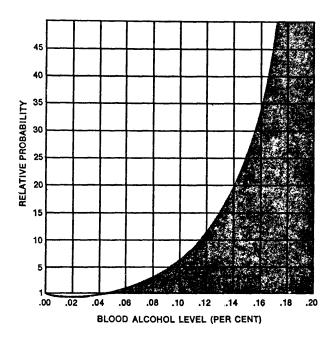
IV-159

Current Initiatives

Virginia's highway safety program related to legislative proposals has sought to eliminate existing difficulties in the Code's drunk driving provisions. The early history of the promulgation of "presumptive statutes" was marked by an intuition that the constituency of most legislators knew little about chemical tests to determine intoxication. Public officials, including legislators, public administrators, prosecutors and judges, all were wary of using such a new, seemingly absolute weapon against the drunken driver. So to be completely fair and in order to gain initial acceptance, the very liberal figure of 0.15% was adopted by Virginia. The second reason that the generous 0.15% level was adopted was that the experimentation used to arrive at that level relied primarily on laboratory psychophysical tests. More recently, in an attempt to simulate the driving task, scientists have used alcohol impaired drivers on obstacle courses. The results of the more modern studies have shown that no one is fit to drive a motor vehicle when he has a 0.10% blood alcohol level and that a 0.15%level leaves too many potential accident generators on the highway. An accurate statistical method for determining the precise danger of the drinking driver has yet to be developed. But data are now being obtained in studies which take a random sample of drivers involved in accidents and determine the percentage who have been drinking. These investigations, using scientific controls, have resulted in the graph, Exhibit 40, showing the relative probability of causing an accident in relation to blood alcohol level.

With the weight of evidence against the liberal 0.15% presumption of intoxication, Virginia continues to ignore the nationally recommended 0.10% level. The Virginia Highway Safety Division has made the lowering of the presumptive level in Virginia to .10% a major goal of its legislative program.

RELATIVE PROBABILITY OF CAUSING AN ACCIDENT IN RELATION TO BLOOD ALCOHOL LEVEL (From Borkenstein, R. F., et al., "The Role of the Drinking Driver in Traffic Accidents," Department of Police Administration, Indiana University, 1964.)



The other element of the 1972 Highway Safety Division legislative program involves increasing the identifiability of the drinking driver by use of the breath test in addition to chemical tests of the blood. Although medical evidence shows that driving behavior deteriorates at even low blood alcohol readings (0.05% - 0.10%) many drivers can disguise outward signs of intoxication at that level. Police officers have long been aware that even though some drinking drivers appear sober their lowered ability to safely operate a vehicle warrants their removal from the road. For this reason the likelihood of identifying an unsafe drinking driver by relying on outward manifestations of intoxication is slight. Virginia remains, however, the only state relying exclusively on the blood test to measure the level of alcohol. After years of experience

by sole reliance on the blood test to determine the degree of intoxication of arrested DWI's. The procedural intricacies outlined in the Code for drawing the blood sample have been a trap for the unwary for many prosecutors. The disadvantages include the necessity of giving the blood test within two hours of the offense, the possibility of civil liability, the complicated and burdensome labeling and handling procedures, the psychological aversion to the blood test, and the possibility that injured drivers may not be able to supply a sample. In summary, a percentage of persons who drive with a blood alcohol level above the presumed level of intoxication may be able to escape conviction because of the lack of alternate means to determine the blood alcohol level. If the number of identifiable drinking drivers is increased by the use of alternate chemical tests it might be expected that apprehension rates would increase. Such a result can be viewed as a significant step in improving highway safety in Virginia.

Prior to these two major legislative thrusts, the Highway Safety Division sought to increase public awareness and acceptability by two compromise measures. The first was adoption by the Virginia General Assembly, with Highway Safety Division endorsement, of a law compelling police officers to offer pre-arrest screening breath tests during the apprehension stage. The statute is designed solely to give the police officer some objective evidence upon which to base his decision as to arrest or not arrest. The driver must be informed that he is under no compulsion to take the test, that no penalty will accrue if he fails to take the test, and if he does take the test the results may not be used against him. The Virginia Highway Research Council, under the sponsorship of the Highway Safety Division, is conducting a study of the practical effectiveness of these pre-screening breath devices. This study involves statistical analyses of questionnaires designed to elicit answers to such questions as frequency

of alcohol use, reliability, accuracy, confidence in use; in general, a determination as to its practical everyday effect in helping the policeman combat the drunken driver.

In anticipation of widespread use of the quantitative breath tests recommended in the major legislative proposals, the Highway Safety Division has trained experts in the use of breath test devices. These trained operators travel throughout the state demonstrating the use and efficiency of the devices to civic groups, legislators, and general citizens. Their efforts should, at the least, increase the public's knowledge and make ultimate public acceptability much easier. These personnel will also be instrumental in the implementation of a major police training program in the use of quantitative breath tests if legislation requiring such tests is passed. Of course, purchases of these breath test devices will be required to provide all localities with the equipment. Additional hardware purchases by the state in the coming fiscal year will include mobile trailers with exhibits about the drinking driver and video cameras and projectors to be used in filming psychomotor tests of suspected DWI's.

The Commonwealth of Virginia and the federal government are currently involved in a significant cooperative effort designed to identify the problem drinker and get him off the road. The Fairfax Alcohol Safety Action Project (ASAP) is a $3\frac{1}{2}$ year demonstration program paid for by the federal government under contract with the Department of Transportation, Office of Alcohol Countermeasures. The program is important in that it attempts to focus maximum resources on a limited area. ASAP activities are divided into four specific countermeasure areas: (1) assisting the police in apprehending problem drinking drivers; (2) offering new legal services for pretrial investigation; (3) developing a new comprehensive system for treatment and rehabilitation; and (4) undertaking a program to change public attitudes toward the drinking drivers.

To help the police officers' chronic shortage of manpower and on the road equipment, ASAP will provide Fairfax police with 11 new police cruisers and an additional 28,000 man-hours a year. Medical vans which expedite the taking of chemical test evidence and video evidence will be provided to encourage DWI charges. Finally, all officers will attend training sessions designed to increase their knowledge about the safety aspect of the problem drinker.

In order to prevent the problem drinker from driving, a special probation staff will conduct a survey of all persons arrested for drunken driving to determine whether they are psychiatric problems rather than driving problems. The probation officer will then recommend to the prosecutor that the accused either stand trial, have further diagnosis, or be referred to a driver improvement school.

The rehabilitation and treatment countermeasure is centered around the driver improvement school at Northern Virginia Community College and the Falls Church Mental Health Center. The school will employ a part-time psychiatrist, a full-time psychologist and a full-time psychiatric social worker with alcohol rehabilitation training.

Public information and education under ASAP auspices are designed to convince the public that it is dangerous to drive after drinking. The program seeks, however, to avoid blanket prohibitions to minimize public deficiencies. These goals will be achieved through public opinion surveys and extensive advertising.

A more extensive statewide public information and education campaign will be stressed by the Highway Safety Division in the coming year. To facilitate this effort a full-time information officer was hired. His duties generally include increasing public awareness of traffic safety and acceptability of new steps taken to increase safety. In conjunction with an educational goal, officials in the Highway Safety Division have

taken time to teach highway safety related courses in nearby universities. Funds have also been designated for conducting an alcohol countermeasures indoctrination program for policemen. This educational experience for policemen is designed to increase their awareness and sensitivity to both the problems of the drinking driver and the needs of the community for protection from the drinking driver's secondary consequences.

Another educationally related project of the Highway Safety Division seeks to increase the awareness of the young driver or yet to be licensed trainee to the danger-ousness of mixing too much alcohol when driving. This knowledge should be increased by a new driver education experiment sponsored by the state that uses small-group interactions as its defining principle. Its goal is to use peer group pressure to change the attitudes of young drivers. The normal textbook-movie technique is eliminated in favor of increased interaction between students and teacher. The method may offer returns in terms of reducing alcohol-related accidents.

Two major reports from the Highway Safety Division should increase response efficiency in terms of specific countermeasures. One report compared the penalties for driving while intoxicated of the 49 states and the District of Columbia with those of Virginia. The startling conclusion was that Virginia's penalties are extremely harsh. A parallel report presented results of a study that sought to determine what the optimum sanction for driving while intoxicated should be. Its conclusions were based on questionnaires and attitude surveys sent to judges, commonwealth's attorneys and licensed drivers. It is felt that these reports will be a significant help to legislators in shaping legislation to the DWI problem.

One of the major problems has been Virginia's inability to keep accurate and extensive records of DWI arrests and convictions within the state. A major effort is being directed at alleviating this problem. The traffic records system under development is designed to evaluate the present conviction processing procedures and

structure new systems to better handle anticipated problems. As an outgrowth of this effort, the Division has designed a data collection card for gathering information about the preliminary breath test. It is filled out by every policeman using the preliminary breath test. The information is sent to the Richmond headquarters where it is coded and tabulated. The more efficient gathering of information coupled with an expertly conducted analysis should give an accurate picture of exactly what is happening within the state.

Much of the effort of the Virginia Highway Safety Division is devoted to developing programs designed to prevent accidents before they occur. A slightly different approach is taken in an ambitious new program sponsored by the Commonwealth and the federal government which has as its sole purpose the in-depth investigation of all causes of accidents. This multidisciplinary crash investigation team is composed of engineers, mechanics, lawyers, and psychologists. Such teams in other areas have already labeled alcohol as the greatest hazard to safe driving. Though this major effort enters the safety continuum after the event it is intended to prevent, in a larger sense it is hoped that these findings will lead to changes which will decrease accidents in the future.

A related and rapidly changing field is drug abuse in relation to traffic safety. A recent highway safety survey linked maribuana and drug use and highway safety among high school students of the state. The findings suggested that drug use is a significant factor in many accidents. The data showed that approximately 36% of fatal motor vehicle crashes involving 16 - 19 year old drivers may involve maribuana and drug use coupled with driving is a particularly lethal combination. An increase in drug use and driving will warrant greater examination of the current Code provisions relating to drugs and highway safety. Such a study, designed to upgrade drug provisions

of the Virginia Code, is in progress. Unfortunately the effort has been hampered by a lack of objective scientific data on accident causation, the effects of drug use on one's ability to safely operate an automobile, and a lack of practical and accurate test methods to determine the presence of drugs. Both the information and educational campaigns will focus on educating the normal driver to this danger.

HIGHWAY SAFETY PROGRAM	GRAM 1.	· State of Virginia	rginia	2. TIT	Ill Identification and Surveillance of Accident Locations (Cities)	tion and S nt Locatio	urveillan ns (Citie	. .	NO 18-7	IS-73-391 46-73-09-01	-	DA ** 4/1/72	1/72
	5.	DRAFTED BY WAPPROVED BY J.	BY W. L. Howard ED BY J. T. Hanna		19 <mark>71</mark> FY-2	19 <u>72</u> FY-1	1.1st Q	SCAL YE	USCAL VEAR 1973	े पा	TOFM	1474	1975
6a. EFFECTIVENESS N	No. of Deaths	at Improved	of Deaths at Improved Hazardous Accident Locations	ocations								.	
6b. OUTPUT	C % of H	% of Hazardous Locations Id No. of Hazardous Locations	C % of Hazardous Locations Identified and Corrected V No. of Hazardous Locations Identified and Corrected	orrected Corrected									
7. RESP. 8. STD. HSD 309	9. T.	TASKS & MILESTONES Program to identify and cations (for cities not un Virginia Department of 1	ISKS & MILESTONES Program to identify and inventory high accident locations (for cities not under the jurisdiction of the Virginia Department of Highways).	n accident lo- liction of the			Contract Consult. Analysis Devel. Survey Report Imple.	Analysis Devel. Report Imple		Imple.	Imple.		
	Α.		Hire consultant for the development of the program, establish countermeasures, and provide guidance for before and after studies.	nt of the pro-, and provide ies.									
309	2. Mu	Multidisciplinar; no. of teams).	Multidisciplinary accident surveillance team (total no. of teams).	team (total	н	p-1	ø	ç	ý	ý	9	∞	10
Before we can accomplish our goal of reducing the number of deaths and injuries on our highways, we must first be able to identify and correct the most hazardous accident locations.	lish our goal l'injuries on c ible to identify	<u> </u>	COST BY TASK Develop identification and surveillence of accident location program for cities not under jurisdiction of VDH.	ttion and surent location s not under)H.			15	15	15	15	09	œ	10
Virginia's auministrative organization tenus itself to a two part division of authority, one program operating within the Department of	ive organization of authority the Departm	ty, one	 Multidisciplinary accident surveillance teams. 	accident sur-	30	30	40	40	40	40	160	100	50
Highways and the other program operating under	rogram oper		12 TOTAL COST		65	96	82	82	82		328	997	270
with our program of accident location identifi-	 i.i.e orggest proofen ident location identifi- 	identifi-	LOCAL SHARE		31.5	44.3	41	41	41		164	133	135
cation seems to be within our cities which re-	nour cities	which re-	STATE SHARE		0 9	15.0	0	0	0		•	0	0
port 51% of all accidents on only 11% of	on only 11%	jo	FEDERAL SHARE TO LOCALITIES	ж s	33. 5 33. 5 5	36. 7	1 4 1	1 4 1	4 41	14 4	164	133	135
Virginia's total highways, streets, and roads.	, streets, and	d roads.		7					-	\dashv			

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7	TOTAL,			Distrib		Install	Imple.	Devel.		8 P (309)	100			
NO.46-73-09-02	3 4th Q			Distrib.		Install	Imple.	Devel.		2 2 2 2 be included within VDH SEP	25			
NO. 46-7	FISCAL YEAR 19 <u>73</u> 2nd Q 3rd Q			Distrib.		Devel.	Imple.	Devel.		2 ed within	25			
3.	SCAL Y			Distrib.		Analysis Devel.	Imple.	Devel.		2 e includ	25			
urveillan cations	F] 1st Q			Distrib. Distrib. Distrib. Distrib.	Contract		Imple.	Analysis Devel. Devel.		2 Cost to b	25			
TITLE of Accident Locations	19 Z 2 FY-1			Devel.				Study			99			
dentificat of Ac	19 71 FY-2										35			
State of Virginia 2. TI	DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna			ASKS & MILESTONES Crash facts (reproduced from State Police	publication) Field reference system (in conjunction with Virginia Department of Highwavs)	Local identification and surveillance programs already under way	Consultants for identification of hazardous locations at 139 sites in the cities	u		3. Crash facts 4. Field reference system	5. Local programs (estimated costs) 6. Consultants		12. TOTAL COST \$(000) LOCAL SHARE	TEDERAL SHARE TO LOCALITIES
1.	2		N C	9. TASKS & MILESTONES 3. Crash facts (reproduced)	publication) 4. Field refer	5. Local identification	6. Consultants at 139 sites	7. Data system	lued.	10 netp alleviate this problem the Highway Safety Division in 1972 contracted with an engi-	neering firm for the purpose of surveying and identifying hazards at 139 locations in the cities.	The statutes have been completed and the recommendations are being carried out as funds permit	In 1973 proposals for federal funds will inde the following.	The hiring of an engineering consulting firm for the development of an identification and
HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN		EFFECTIVENESS	T	8. STD. 309	309	309	309		DESCRIPTION continued.	eviate this pro n in 1972 cont	for the purpos zards at 139 k	e being carrie	posals for fed wing.	ng of an engin evelopment of
HIGHWAY SA ANNUAL SUE		6a. EFFEC	6b. OUTPUT	7. RESP. HSD	Cities & VDH	HSD & Localities	HSD		10. DESCRI	To nelp alle Safety Division	neering firm i identifying haz	mendations ar	In 1973 proposals clude the following.	1. The hirin for the d

Identification and Surveillance of Accident Locations $\frac{\text{IS}-73-391}{46-73-09-03}$ DESCRIPTION: (Cont.)

surveillance program to be used by the cities for identification of their hazardous locations. This study will include the development of the program, suggested countermeasures, and assistance in making before and after studies of the locations.

- 2. We plan to continue funding a state multidisciplinary accident surveillance team and also work with 4 or 5 local jurisdictions in the development of others. Last year's team contributed a great deal in the elimination of hazardous conditions at the locations it studied.
- 3. The HSD plans to reproduce the State Police Crash Facts for all localities so they will be able to evaluate their safety programs more effectively.
- 4. A field reference system for the identification of accident locations will be developed for use by the cities and the VDH. We anticipate the hiring of a consulting firm for this endeavor.
- 5. Many of our larger cities have already established programs in this standard area. The HSD will assist these local programs if funding is available.

At the present time very little evaluation of our program is conducted. Upon completion of the state's new traffic records system we will be able to evaluate the program more effectively.

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	HIGHWAY SAFETY PROGRAM	SUBELEMENT SUPPLEMENT		Ω	Ι	S	-	H	1		В	n	_	_	0	Z		ř	φ ;	_		∞	Ε	Y	Z	-	į	7	-				95	-	_	-	.	r.	
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EFFECTIVENESS SUPPLEMENT
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HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN	ROGRAM NT PLAN	 State of Virginia 		2. Identifi Accide	dentification and Su ITLE Accident Locations	Identification and Surveillance of Accident Locations — VDH	illance of DH	63	NO. 46-7	IS-73-392 46-73-09-01	4	DATE 4/1/72	/1/72
		5. DRAFTED BY APPROVED BY	Fr		1971			SCAL YE	FISCAL YEAR 1973			1974	1975
1		AFFINOVED	Di J. I. nanna	+	F.Y2	FY-1	1st Q	2nd Q	3rd Q	4th Q	TOTAL	FY+1	FY+2
6a. EFFECTIVENES	SS Reduction 1	in the number of ac ind improved bazari	EFFECTIVENESS Reduction in the number of accidents per volume of traffic at identified and improved hazardous locations.		20%	25%	28%	28%	28%	28%	28%	30%	32%
ct. Ottmbirm	C % o	f identified hazardo	% of identified hazardous locations studied and improved		30%	34%	%01	%01	10%	10%	40%	45%	47%
00. OUTFUI	V Num	Number of hazardous locations identified	locations identified	250		275	09	09	65	65	250	225	200
7. RESP. 8. ST	STD. 9. TA	TASKS & MILESTONES	ES	-									
VDH 309	1 T	Develop comprehen	Develop comprehensive automatic data			Syst	System completed	leted					
		processing identification system.	ation system. (VDH)	_									
		Establish data base for the above	for the above.			Co	Continued Program	ogram					
VDH 309	 	Continued implemen		ith		Con	Continued Program	ogram					
VDH 309	4	necessary revisions.	s. (VDH)									,	
		Operations (v.D.n.)											-
		(1) State Traffi	(1) State Traffic and Safety Engineer				,	•	•	,	,	,	
		(2) Asst. Traffic and	ic and Safety Engineer		٦ ،	٦ ،	- 6			c	c		
						۷	۷	۷	N	N	.71	.71	2
10. DESCRIPTION		11.	COST BY TASK \$(000)										
The long-term goal is to reduce the number of	is to reduce th	#	Personnel A-1 State Traffic & Safety Engr.	gr.	2 0	2 6	0	6	o c	0	c		G
demonstrate including severe injuries and property	vere injuries		A-2 Asst. Traffic & Safety Engr.	ngr.	7.6	. % 4.	2.1	2 .	2 2			3 X	0 0
correction and follow-up evaluations and analysis	ou, survenian no exaluatione		A-3 Highway Traffic Engineer C		14.8	15.4	8.1	8, 1	8.1	i 80			35.4
The immediate objective of this program is to	up evaluations stive of this na	_	A-4 Highway Traffic Engineer B		38.6	39, 5	10.3	10,3	10.4	10.4	41.4	43.0	45.1
establish an accident identification and surveil-	dentification a		A-5 Highway Traffic Engineer A		53.8	54.7	18.6	18, 6	18. 7	18.7	74.6	76.8	79.1
lance avetem consistent with increasing volumes	at with increase		A-6 Highway Traffic Technician C		115.1	116.8	22.8	22.8	22.9	22, 9	91 4	93.2	0.25
in traffic and accident demands utilizing to a	demande utili		A-7 Highway Traffic Technician B	-,	67.2	67.8	15, 5	15, 5	15.6	15.6	62.2	62.8	63.4
orester degree automatic data processing to	tic data proce	12.	TOTAL COST \$(000)		399.6	411.4	159.5	159.6	160, 5	160.7		654.7	664.0
afford movimum and definite concerns	etic data proce	on Smrago	LOCAL SHARE		•	0	0	0	0	0	0	0	0
Dhage 1 — Consists of a series of programs	of a series of	lge.	STATE SHARE	<u>ග</u>	399. 6	411.4	109.5	109.6	110.5	110.7	440.3	394.7	402.0
which correlate accidents traffic and geo-	ints, traffic ar	nd geo-	FEDERAL SHARE		0	0	20	20	20	20	200	260	262
metrics. This in turn, allows for identification	, allows for ic	dentification	TO LOCALITIES		•	0	22	25	25	25	100	130	131
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HIGHWAY SAFETY PROGRAM	VM 1.	State of Virginia	7i rginia		Ideni 2. TIT	tification LE Accide	Identification and Surveillance of TITLE Accident Locations	illance or	3.	IS-73-392 NO.46-73-09-02	392 -09-02	4.	DATE 4-1-72	-1-72
ANNOAL SUBELEMENT FLAN	5.	DRAFTED BY APPROVED BY	D BY ED BY	Fred F. Small John T. Hanna		19 <u>71</u> FY-2	19 72 FY-1	st Q	SCAL YE	FISCAL YEAR 19 73	4th Q	TOTAL	19 <u>74</u> FY+1	19 <u>75</u> FY+2
6a. EFFECTIVENESS														
	ပ													
6b. OUTPUT	Λ													
7. RESP. 8. STD.	9. TASK	TASKS & MILESTONES	TONES											
VDH 309	4. Op	Operations continued	ünued											
	€ ₹) Highway Traffic Engineer C	raffic Eng raffic Fng	ineer C			⊢ 0	67 6	07 6	8) 6	01 0	87 6	01 0	87 (
	(3)		raffic Eng	ineer A		о rc	ם ני	3 E	2 C	1 c	2 6	1 C	n 1	1 C
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	@		raffic Tec	hnician A		0	0		٦	H	H	1	-	H
	6 (ographer	S)			-	67	67	72	7	7	23	7
	<u> </u>) Clerk-Stenographer B . Supplies	ographer	щ		H	-	87	61	87	63	61	67	83
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10 DESCRIPTION continued		. Haming Out and No	S I and I	OLIMASICIII	1	3	1		1	1	2	7	2	7.
and evaluation of individual locations based on	cations ba		11. COS	COST BY TASK \$(000)				·						
geometrical differentials and enables the estab-	enables the	e estab-	A-8 His	A-8 Highway Traffic Technician A	nician A	0	0			1.4		5.4	5.5	2 6
lishment of critical rates for each type of facility.	each type	of facility.	A-9 CI	A-9 Clerk-Stenographer C		5.7	5.8		3.1	3.1		12.5	12.6	12 7
Phase 2 — Consists of a program that will estab-	ogram that	t will estab-	A-10 CI	A-10 Clerk-Stenographer B	~	<u>ထ</u> ဇေ	10.1	2.6		9	2. 7	10.5	10.9	11. 2
lish a data base for determining the effectiveness	ng the effe	ctiveness	4-B Supplies	pplies		5	5.1	1.5		e :		5.1	رن دور	5.4
measure of each type improvement in relation to	ment in re	elation to	4-C Rent	int		9	9 .	1.5		1.5		6.0	0 9	
adjacent geometrics, traffic volumes and commu-	olumes an	-numoo pi	4-D Co 4-E Tr	4-D Computer Time 4-E Travel		16. 5 12. 4	16.6 12.8	4.60 22.60	4.6. 2.6.	3.4	4κ 24	16.8 13.4	$\frac{17.2}{13.9}$	17.5
nity cnaracteristics. Phase 3 — Provides for immediate and continuing 12	nediate an	d continuing		TOTAL COST \$(000)			-	-						
analysis of program data and findings. This phase	findings.	This phase		LOCAL SHARE										•
includes location selection, improvement require-	nprovemer	nt require-	7LS	STATE SHARE										-
ments, B/C analysis, construction implementation and after studies with findings fed back into the	ction impled fed back	lementation into the	FED	FEDERAL SHARE TO LOCALITIES						·				
data base; Phase 2.								1	7		1			

HIGHWAY SAFETY PROGRAM	AM	1.	State	State of Virginia	2. Identi	fication (and Surve	Identification and Surveillance of ITTLE Accident Locations	, ,	IS-73-392 N().46-73-09-03	IS-73-392 46-73-09-03		DAT:: 4/1/72	1/72
ANDAL SOBBERGAL TA	<u> </u>	5. DRAFTED BY APPROVED BY	ED BY VED B	Fred F. Small Y John T. Hanna		19 <u>71</u> FY-2	19 <u>72</u> FY-1	FI 1st Q	SCAL YI	FISCAL YEAR 1973	3 4th Q	TOTAL	13.74 FY+1	$19\frac{75}{\text{FY}+2}$
6a. EFFECTIVENESS														
6b. OUTPUT	ر د													
7. RESP. 8. STD. VDH & HSD 309	9. TAS 5. Fie A. B.		STONE e Syste ed (Hig State (ASKS & MILESTONES Field Reference System (Devel. Pro.) A. Miles Posted (Highways under jurisdiction of VDH) B. Cities and State (Program to be developed)	n of VDH)	75	75	20 Hire	20 20 Analysis Devel		20	80	80	80
		See SEP IS	-73-39	See SEP IS-73-391 (will be coordinated by VDH)	' VDH)			Consult. to devel. system survey		install	Install	Install		
	6. Tr	Traffic Conflict Study * Conflict studies wil of this program in improvement needs	t Study lies wil ram in t needs	raffic Conflict Study Conflict studies will be integrated into Phase 3 of this program in analyzing and determining improvement needs at identified locations.	se 3			*	*	*	*	*	*	*
		Task cost in Operations (corpor Person	Task cost incorporated into paragraph #4 — Operations (Personnel and Supplies)										
10. DESCRIPTION continued. The Highway Department, Highway Safety Division, and personnel representing the cities not	ued. Ighway S nting the		11. 4-F.	COST BY TASK \$(000) Training 5. Field reference system	.em	0	0	0	0	0	0	0	1.4	0
under the jurisdiction of the VDH will jointly develop a field reference system for use through-	VDH wil	Il jointly use through			of mile	45	20	14.2	14.2	14.3	14.3	57		
out Virginia for accurate identification of accident locations. At present the VDH has installed annuvimately 150 miles of mile-nosting on its	entification DH has in	on of accidemt nstalled ting on its		B. Develoy field reference system for cities and state (install system)	erence and state	0	0 .	50	50	50	50	200	260	260
interstate highway system. The VDH will continue installing mileposts on the interstate highways and start installing them on the primary roads. It also plans to purchase a photograph logging system for identification of accident locations.	The VDI the interm on the hase a phenon of action of act	H will con- rstate high- primary hotograph	12.	TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES			,							
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	FET	r su		Standard: 309	Total	Fede	Ĭ	<u>~</u>	Ž	Standard:	Total	Fed	Ĕ	<u>~</u>	Ž	Standard:	Total	Fed	Ţ	<u>-</u>	Ž	Standard:	Total	Fed	Ĭ	<u>_</u>	Ž	Total	\mathbf{Fed}	Ĭ	₫.	Costs	s	em :	cts	nent	S	noncu.	핔
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IDENTIFICATION AND SURVEILLANCE OF ACCIDENT LOCATIONS

Preceding the advent of a federal-state highway safety improvement program, Virginia formulated a project designed to identify and eliminate hazardous locations on highways within the state. A hazardous location is defined in terms of three criteria: (1) Whether the site has been identified as potentially accident-generative through analysis of past accidents (five accidents occurring at a location within a one-year time span), (2) whether the accident site can be improved to measurably reduce the number and severity of accidents, and (3) whether the improvement project will result in a favorable cost-benefit relationship.

The minimum requirements of the total program as set out by the federal government in Policy and Procedure Memorandum 21-16 include:

- (1) Identifying hazardous sections on spot locations.
- (2) Ranking recommended improvements on a priority basis.
- (3) Evaluating the effectiveness of completed projects.
- (4) Selection of safety projects in the interim.
- (5) Inclusion of a proposed time table for implementing the program.

Of course, a state can go beyond these bare essentials and fill in the gaps so as to adapt the program to fit its needs.

Virginia's administrative organization lends itself to a two-part division of authority, one program operating under the auspices of the Department of Highways and another under the direction of the cities. The Department of Highways has jurisdiction over primary, secondary and interstate roads in all the counties except Arlington and Henrico and in all cities with a population less than 3,500. These highways within the Department of Highways' jurisdiction have experienced approximately 71% of all miles traveled, 49% of all reported accidents, 73% of all fatalities, and 89% of the vehicle miles in the state. So 51% of all accidents occur on the 11% of the total miles

in the state not within the Highway Department's jurisdiction. Governing bodies of cities with populations over 3,500 have jurisdiction over all roads within their city limits.

Highway Department Program

In order to implement the policies of the program for the identification and surveillance of accident locations adequate field reference and traffic records systems must be maintained.

The field reference system is basically a graphic description of points every one-hundredth of a mile of road along with major intersections and other prominent physical identification points. In theory, every accident is located by using the relevant reference points and then analyzed by a staff of traffic engineers and technicians at the State Police Headquarters. In practice, however, administrative and budgetary difficulties have hampered widespread implementation of this system. Currently field markers are limited to the interstate highway system within the Commonwealth. A major goal of the current highway safety program is to develop a field reference system on all roads within the state. The field reference system is being studied by the Traffic Records Committee. It seems clear that accurate identification of accident sites is a prerequisite to the accomplishment of any further goals in the subelement plan on the surveillance of accident locations.

A more extensive traffic records system concerning accident sites will operate this year through a joint effort between the Department of Highways and the State Police. In the past, data were collected manually and included such detailed information as traffic volumes, foreign vehicles, and bus and truck composites. In most cases this out-dated system of relying on the manual input of SR300 accident reports led to a time lag between the accident and feedback of accident statistics to the Department. The

timely effectuation of countermeasures demands the quick and accurate retrieval of these accident statistics.

A major effort is now being directed toward changing this system to a comprehensive automatic data processing identification system. Included within this effort will be a computer program to identify hazardous sections of the highway based upon accident, traffic, and geometrical data. After all available data about a hazardous location are compiled by the computer system, a field check will be made of the site and recommendations calculated to improve the site will be made. Traffic and safety engineers hired by the state will have the major responsibility for formulating these recommendations. The existing multidisciplinary team project will be expanded by training an additional team. These working units composed of engineers, mechanics, lawyers and psychologists have the mission of determining all the relevant causes of specified automobile crashes. Once a plan for improvement has been approved a cost-benefit analysis of the improvement procedures will be made by the Department of Highways.

So the three step procedure involves (1) accurate statewide identification of hazardous locations, (2) compilation of relevant statistical data regarding the locations, and (3) promulgation of improvements to the highway location. The goal remains quick implementation of all three aspects in order to have the greatest effect on reducing highway accidents.

City Program

The cities (all those jurisdictions with a population greater than 3,500) have in the past been hampered in their efforts by lack of organization and adequate funding.

Traditionally their program to identify accident locations has been solely a manually developed spot map for each city listing all previous accident locations.

A tentative attempt to mimic the Highway Department "before and after" studies through multidisciplinary teams is being pursued; but again lack of funds has been the most significant limiting factor. The Highway Department is helping out by hiring consultants to work with the cities and counties. It is hoped that these additional employees will create more efficient programs for identifying traffic sites and also formulate effective countermeasures after in-depth studies of accident locations.

Finally a publication of <u>Crash Facts</u> focusing on the city jurisdiction locations should provide a more accurate picture of existing trends relating highway safety design to accident causation. Every locality will then know exactly how well its traffic safety program is progressing.

In sum, it must be admitted that the value of the city program for the identification and surveillance of accident locations depends primarily on the efforts of local officials. If these administrators are unconvinced of the worth of this program their individual commitment will be correspondingly diminished. It takes a strong public and private stance in support of these programs to both increase budgetary outlays and mobilize supportive personnel. Recognizing this need the Highway Safety Division has vigorously pushed its educational campaign toward city officials so as to create a more favorable operating climate.

2. TITLE	. Howard 19 <u>71</u> Hanna FY-2		Data not available			Estab- lished	ginia's traffic records t program: (1) technical, economic feasibility.		arch analyst to work with members of Traffic Records	11. COST BY TASK \$(000) 2. Feasibility study (travel, printing and other related tasks of study team).	alyst	OST \$(000) HARE	HARE L SHARE ALITIES
State of Virginia	DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna	Time	on Automated File	No. of Records Entering System	ILESTONES	Traffic Records Committee	Feasibility study of Virginia's traffic records system. This is a 3 part program: (1) technical, (2) operational, and (3) economic feasibility.	le	me rese ies and	<u>a</u>	ຕໍ	12.	STATE SHARE ore FEDERAL SHARE TO LOCALITIES
HIGHWAY SAFETY PROGRAM 1. State of V ANNIAL SHRELEMENT PLAN	5.	EFFECTIVENESS Average Retrieval Time	C % of Records on Automated	Λ	P. 8. STD. 9. TASKS & MILESTONES	310 1. Traffic Recor	310 2. Feasibility str system. This (2) operationa	310 3. Personnel	A. Hire full-ti state agenc Committee	10. DESCRIPTION: The long-term goal of our Traffic Records Program in Virginia is to reduce the number of accidents including fatalities, personal injuries and property damage due	to the lack of sufficient traffic records for police enforcement and for the evaluation of existing and newly developed highway safety programs. Accident statistics generated by a traffic records system are the only data available for evaluating	organization has indicated to the Common	wealth of Virginia that the state's performance in the standard area of "traffic records" is more inefficient than it is in any area enumerated in the state's comprehensive highway safety
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HIGHWAY SAFETY PROGRAM	ETY PROGR	AM A	1. State of Virginia	irgini	a	2. TITLE		Traffic Records	Js.	ь; е;	NO.46-73-10-02	TR-73-501 46-73-10-02	4.	DATE 4	4-1-72
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program. The Governor's Management Study also reflected this inadequacy. The current regponsi-	overnor's Mandequacy. The	anageme he curre	ent Study alsc	11.	COST BY TASK \$(000) Data base				71.87	71.87	71.87	71.87	287.5	87	86.5
bility for the maintenance of traffic records is primarily shared by three agencies. (1) DMV; (2) State Police: (3) Highway Department. There	intenance of by three ag	traffic 1 yencies:	records is (1) DMV; nent. There	တ္ဆံ	Training Traffic records locator system	ystem			62.5	62.5	62.5	62.5	250 30	50 15	50
is no centralized effort concerning automated processing of traffic records data in Virginia. Maior deficiencies in the present Traffic Re-	l effort conce affic records	erning a state in present	utomated Virginia. Traffic Re-								· ·				
cords System of the Commonwealth include the following: (1) Inaccurate and incomplete recording of accident data. (2) Nonuniform accident reporting; (3) Untimely processing and dissemination of accident data.	the Common securate and ata. (2) Nonu mely process data.	wealth incompluniform	include the lete record- accident re- dissemina-	12.	TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

Traffic Records $\frac{\text{TR-73-501}}{46-73-10-03}$ DESCRIPTION: (Cont.)

In order to accomplish the implementation and continuation of an effective traffic records system the Highway Safety Division established a Traffic Records Committee to study the present traffic records system and make recommendations for its improvement.

A study team made the following recommendations: (1) A central authority must be established that will be responsible for the control, integrity and operation of the total system. This authority must have the responsibility for cost effectiveness in the areas of computer equipment, software and programming systems, priorities, and the expertise in the planning, implementation and continuity of the system. (2) A uniform accident reporting system must be drafted and adopted in the Commonwealth of Virginia. (3) A training program must be instituted to educate all law enforcement agencies throughout the Commonwealth in the administration and use of the uniform reporting system. (4) The amount of time allowed for an officer to submit a preliminary accident report to the entering agency must be reduced to 72 hours from the time of the accident. (5) All accidents must be investigated and reported by a law enforcement officer. (6) A uniform traffic records locator system must be established for the Commonwealth. The Traffic Records Committee will continue to study the recommendations for the further development and implementation of the system. It will also consider the purchase, acquisition, or leasing of the necessary equipment.

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HIGHWAY SAFETY PROGRAM	ROGRAM	1. State of Virginia	ginia	2. TITL	E Traffi	TITLE Traffic Records - DMV	s — DMV	3.	NO. 46-	TR-73-502 46-73-10-01	-	DATE 4-1-72	-1-72
		5. DRAFTED BY APPROVED BY	D BY A. D. Harvey ED BY J. T. Hama		19. 71 FY-2	19 72 FY-1	F.] 1st Q	ISCAL YI	FISCAL YEAR 19 73	3 4th Q	TOTAL	19 74 FY+1	19 75 FY+2
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		B. Number of	Number of Motorist Records (000,000)		4.0	4.2	1.1	1.1	1.1	1.1	4.4	4.6	4.8
		C. Number of	Number of Vehicle Records (000,000)		2.7	3.8	1.2	1.2	1.2	1,3	4.9		8
DMV 310	જં	Motorist data base project	base project				Devel.						
10. DESCRIPTION: The long-range goal of the DMV Trathc Records Program is to reduce highway deaths, personal injuries, and property dam	The long-rang Program is to injuries, and p		11. COST BY TASK \$(000) 1. Traffic records electronic data processing		897	946	249	249	249	249	966	1,034	1,086
age by providing sufficient records for more elective law enforcement purposes. The immediate goal at DMV is to provide complete motorist and vehicle information to authorized requesters immediately upon request through automation.	trent records Int purposes. Tayle complete Interprete	the immediate motorist and duesters and thomation.	2. Motorist data base			Survey	87.5	87.5	87.5	87.5	350		
plan, Traffic Records Electronic Data Processing 1. Traffic Records Dectronic Data Processing	Records Electronic Data Processin This program maintains the driver	<i>و</i> ن	12. TOTAL COST \$(000) LOCAL SHARE	<u></u>	897	946	336.5 0	336.5 0	336.5	.5	1,346		1,086
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HIGHWAY SAFETY PROGRAM	M 1. State of Virginia	nia	2. TITLE	Traffic	Traffic Records	S	3. NC	NO. 46-73-10-02	-502 0-02	4	DATE 4-1-72	-1-72
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DMV 310	3. Crash Report Statistics Project	utistics Project	-									
	A. Research and document reporting requirements.	Research and document local law enforcement reporting requirements.	ement			Define						
	B. Research and document reporting requirements.	Research and document other state agencies' reporting requirements.	cies!									
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	D. Define expan	Define expanded data base requirements.								<u></u>		
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10. DESCRIPTION: Committee on the develop-	tee on the develop- 11.	COST BY TASK \$(000)		-							-	
ment of a motorist data base. This project will produce an integrated, common data base which provides for all information, filling, storage and retrieval needs of the Division of Motor Vehicles using both manual and automated systems for driver licensing and vehicle licensing information.	This project will n data base which lling, storage and 1 of Motor Vehicles ted systems for censing informa-											
3. This project is designed to expand the comprehensive data that the Division of Motor Vehicles is required to maintain, to research crash report statistical requirements of other state and local agencies, and to satisfy these requirements with timely statistical reports. The Division of Motor Vehicles continues to work with the Traffic Records Committee in the development of a new	of Motor Vehicles is 12. rch crash report rs state and local equirements with Division of Motor th the Traffic elopment of a new	TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

Traffic Records $\frac{\text{TR-73-502}}{46-73-10-03}$ DESCRIPTION: (Cont.)

traffic records system for Virginia. This system is very important in effectively evaluating our highway safety programs.

HIGHWAY SAFETY PROGRAM	1. S	State of Virginia	irginia			2. TITLE	- [raffic I	Traffic Records		3. No. 4	No. 46-73-10-04 4. DATE 4-1-72	4-1-72
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TRAFFIC RECORDS

Traffic Records Committee

The National Highway Traffic Safety Administration has indicated that the Commonwealth of Virginia is more inefficient in the compilation of traffic records than in the other standard areas enumerated in the comprehensive highway safety program. Consequently, a Traffic Records Feasibility Study Team was formed by the Highway Safety Division of Virginia to study the present conditions and make recommendations for improvements. The following major deficiencies were found in the traffic records system by the Feasibility Study Team.

(1) Inaccurate and incomplete recording of accident locations.

There are no specific reference points in the field. The Highway Department maintains a paper milepost of all roads under its direct control. The State Police determine the location of accidents from the description given on the standard accident reporting form SR300 and this is posted on the paper milepost. The accuracy in pinpointing the accident location depends on the source of the SR300 — the law enforcement officers, offenders, and witnesses.

In urban areas accidents are located by intersection reference.

(2) Nonuniform accident reporting.

Law enforcement officers submitting SR300 reports do not use uniform report methods, since various levels of training exist among law enforcement officers and some law enforcement departments set their own standards for reporting accidents.

(3) Untimely processing and dissemination of accident data.

Approximately 90 days are required to process accident data. Individuals involved are required to submit a report (SR-300) to the Division of Motor Venicles (DMV) within five days of the accident. If the accident meets the standards of a reportable accident, the law enforcement officer must submit a report (SR-300) to DMV within 24 hours "after the investigation is complete," thereby allowing for an indefinite accident investigation.

The individual reports are held at the DMV for 30 days to be matched with the officer's report or with other individual reports before being forwarded to the Department of State Police.

The State Police process accidents according to where they occur rural or urban. A magnetic computer tape containing information from the accident reports is sent to the Department of Highways, where it is edited and recoded. Local law enforcement agencies still do not have access to the information.

The following recommendations were made by the Traffic Records Feasibility Study Team:

- (1) A central authority should be founded or designated to control all traffic record keeping and its primary task should be that of establishing a traffic records data base.
- (2) A uniform accident reporting system should be adopted by the Commonwealth and a uniform report should be filed by law enforcement officers, who shall investigate all accidents.
- (3) A statewide training program should be instituted to educate all law enforcement agencies throughout the Commonwealth in the administration and use of the uniform report.

- (4) An investigating officer's preliminary accident report shall be submitted to DMV within 72 hours from the date of the accident.
- (5) A correctional system should be adopted so that any errors in accident reports may be brought to the attention of the office completing the report.
- (6) The uniform accident report should be entered into the traffic records data base directly so that all agencies have timely access to the accident data.
- (7) Responsibility for the entry and the accuracy and timeliness of the data should be vested with the central authority for the Traffic Records System.
- (8) All accidents should be investigated and reported by a law enforcement officer.
- (9) A uniform traffic records locator system should be established for the Commonwealth. The present paper mileposts or intersection reference points are inaccurate and nonuniform. A combination of location by coordinates, location by milepost, location by reference point or location by grid system should be used. A statewide system of numbering all intersections throughout the state of Virginia for both rural and urban roads is needed.
- (10) The four basic files (driver, vehicle, highway, and accident) should be evaluated to ensure they include necessary information. The driver file must provide basic information such as driver training, licensing, and violations. The vehicle file must include basic information on titles and registrations as well as vehicle inspection data. The highway file must contain a record of every ramp, intersection and significant highway point in the system. The accident file should contain specific data on particular accidents.

The basic structure of the Traffic Records System consists of the driver, vehicle, highway, and accident files. In order to have an effective, or even adequate, Traffic Records System, which the Commonwealth at the present time does not have, these four files must be accurate, automated, cross-referenced and updated daily. The Traffic Records Feasibility Study Team has pointed out the problems and made recommendations. It is now up to the state government to implement the recommendations made by the Study Team.

Division of Motor Vehicles

The long-range goal of the Virginia Division of Motor Vehicles traffic records program is to reduce deaths, personal injuries, and property damage caused by the lack of sufficient records for traffic law enforcement purposes. The immediate goal of the Division is to provide complete motorist and vehicle information, through automation, to authorized persons immediately upon request.

The Division's traffic records electronic data processing program maintains separate and distinct driver and vehicle data systems without an automatic cross-reference that ties the vehicles owned by a driver to his driving record.

The Division has requested \$350,000 for the motorist data base project for fiscal year 1973. This project will produce an integrated common data base that will provide for all the information, filing, storage, and retrieval needs of the Division, including manual and automated processing methods for driver licensing and vehicle licensing and information.

In conjunction with the motorist data base project during fiscal year 1973, the Division will conduct a crash report statistics project to:

(1) Research and document local law enforcement reporting requirements;

- (2) research and document other state agencies reporting requirements;
- (3) define expanded data capture requirements;
- (4) define expanded data base requirements; and
- (5) define reports required.

These programs form an integral part of the driver testing and licensing and motor vehicle registration programs outlined under subelements 302 and 305.

LAN 5. DRAFTED BY Si Hellman & W. APPROVED BY J. T. Hanna See Effectiveness Supplement to the Subelement CNo. of People Within 20 Min. Response Time VNo. of Roadmiles Within 20 Min. Response Time YNO. of Roadmiles Within 20 Min. Response Time With Strong Within 20 Min. Response Tasks & MILESTONES Tasks & MILESTONES EMS facilities (number existing) EMS Advisory Councils (number existing) EMS facilities (number with permits) The MS Advisory Redical Services, Office of A. Director B. Supervisor C. Field representatives
10. DESCRIPTION With the continued growth of highway miles and number of licensed operators in Virginia, the number of motor vehicle accidents will continue to mount. It is our goal in Virginia to reduce among the reported injured: (a) the severity of injuries, (b) complications, (c) days out of worls.
(d) length of hospital stay, (e) economic loss (f) and in addition, the number of deaths and permanent disabling injuries, due to (1) the lack of local EMS facilities, (2) the proper training of local EMS personnel, (3) the lack of sufficient communications equipment in ambulances and from ambulances to hospitals and (4) the lack of

HICHWAY SAFETY PROCESSM	1. State of Vir ₅ inia	2. TIT	LEEmerg	TITLEEmergency Medical Services 3.	ical Serv	ices 3.	NO. 46-	EM-73-181 46-73-11-02	-,	DATE 4	4-1-72
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eb. OUTPUT											
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In order to accomplish this goal we plan to:	goal we plan to:										
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lance; (10) initiate instructor trainee programs;	ructor	trainee programs;									-		
(11) upgrade and expand equipment, communica-	1 equip	ment, communica-			-								
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	1.	5.		TASI Com. E. F. G.	The State Emergency Medical Services pro- the Office of Emergency Medical Services of the State Health Department. An evaluation of Emergency Medical Services in Virginia starting with Phase 1 — Program Definition and Study Design will get under way duriny fiscal year 1972. The study will attenut	12.

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HIGHWAY SAFETY PROGRAM		6a. EFFECTIVENESS		6b. OUTPUT	7. RESP. 8. STD. 9.	The long-range objective of the proposed services of evaluation studies would be to answer these questions more fully and assist in formulating others. If discrepancies in the EMS system are identified, corrective measures will be designed and suggested for implementation. The Traffic Records Committee continues to design of any traffic and suggested for implementation.	develop a new trainic records by securities and enable us to evaluate our EMS program more effectively.

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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. EM-73-181	Date	19 71	19 72		H	Fiscal Year	r 73		19_74	1975
46-73-11-08 Emergency Medical Services	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
* Average response time from unit dispatched to the actual arrival.	lispatched	20 Min.	20 Min.					18 Min.	15 Min.	10 Min.
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* Number of road miles within 20 minute response time	nutes					,				
2.										
* Number of people within 20 minutes response time of an EMS facility.	s response									
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* Additional effectiveness measures will be available upon completion of traffic records system.	will be c records							·		
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EMERGENCY MEDICAL SERVICES

Prior to the action of the 1968 General Assembly, the Commonwealth of Virginia did not have laws governing the operation of emergency medical services vehicles (ambulance services) nor were there any requirements for medical supplies and equipment. Prior to 1968, paramedical personnel directly or indirectly involved in handling victims of motor vehicle accidents or sudden illness were not required to have specialized training. The possession of a valid American Red Cross advanced first aid card or a United States Bureau of Mines card was sufficient.

The ambulance situation prior to 1968 was of little concern to most localities. If an ambulance was needed, contact was made with the funeral home, fire company, private establishments or the rescue squad. Most of these services were inadequate. They were generally used only as transportation for the sick, injured, helpless or incapacitated. Emergency care at the scene or enroute to a medical facility was practically nonexistent. The services rendered were very inadequate and the special emergency care equipment aboard the ambulance, if existing, could not be used by the attendants with confidence.

In 1968, the General Assembly enacted Chapter 16.1, Ambulances in Title 32 of the Code, creating an Advisory Committee on Emergency Services authorized to establish standards, rules, and regulations for ambulances, their drivers, and attendants. In 1968 the Governor created by executive order the Office of Emergency Medical Services within the Department of Health. A study was made of all the emergency medical service agencies in Virginia. This 1968 study revealed that approximately 18% of the ambulance attendants used standard first aid or no first aid on the injured; that only 64% of the 814 ambulances had two-way radios; that seven of the 96 Virginia counties were without emergency medical service based

within their boundaries; that 27 counties had inadequate ambulance coverage and 10 counties were in the process of establishing 13 emergency medical agencies. Local agencies and civic clubs were approached with a suggested plan to organize an operational local emergency medical service agency. Progress has been made since 1968 in overcoming the deficiencies mentioned above. Today, in Virginia there are 193 volunteer rescue or life saving squads and another 93 fire companies maintaining ambulance services. In addition, there are 82 funeral homes offering ambulance transportation. The total number of emergency medical service agencies is 396, but there continues to be a void or lack of an emergency medical service agency within the confines of several political subdivisions. Three counties lack emergency medical service, and the citizenry depend on neighboring jurisdictions for any and all ambulance service. This results in an increase in response time. Two counties with a city within the area boundaries have service provided by the city, with an increased response time. One city bordering another city is lacking an emergency medical service base of operation. The maximum response time should be 20 minutes, and most of the 135 political subdivisions are within this time period.

Communications

A recent study of existing emergency medical service two-way radio communications installations showed that only 78% of the agencies had voice contact with their base of operations. Only 8% of the present 396 individual base agencies have voice contact with definitive medical facilities of the 839 ambulances and two-way radio contact with the medical facility is possessed by only 9.6% of the agencies.

The emergency medical services now has a priority program to expand communications in ambulances and health care facilities. Funds have been requested for fiscal years 1973-74-75 to initiate a statewide emergency health/medical service communications

system. This statewide system will require cooperative work and support from other state agencies — the Virginia Hospital Association, Regional Medical Program, and Comprehensive Health Planning.

Communications facilities are essential for the mobilization of rescue squads and equipment is needed for the establishment of an "on-site" center whereby law enforcement personnel, emergency ambulance crews, and highway and utility author-ities are immediately advised of existing circumstances and anticipated future action. This will enable all personnel involved to: (a) provide emergency care and transportation for all injured; (b) prevent any additional mishaps at the scene; and (c) restore movement of traffic and repair utilities as soon as possible.

The communications control center can advise medical facilities of the number and types of injuries while ambulances are enroute and can re-route ambulances to another medical facility when the assigned facility is overcrowded. Improved communications can provide for adequate physician and nursing teams in the emergency room to receive the injured and thereby reduce "waiting" time. Communications control can also locate life-saving medical supplies and drugs at facilities within the state or in neighboring states.

Constant voice to voice radio communications between the ambulance, the emergency room and other medical centers may be instrumental in saving lives. This may gain additional meaning in times of disaster. A feasibility study committee will meet to recommend a course of action for the implementation of the proposed statewide emergency health and emergency medical services communications system. Representatives from the following state agencies will be present on this committee:

(1) The Virginia Hospital Association, (2) the Medical Society of Virginia, (3) the Virginia Highway Safety Division. (4) the Virginia State Police, (5) the Virginia State

Fireman's Association, (6) the Virginia Association of Volunteer Rescue Squads, (7) the Virginia Municipal League, (8) the League of Virginia Counties, and (9) Civil Defense.

Comprehensive Health Planning

The Commonwealth has developed a master Comprehensive Health Planning Program. Twenty-two regional comprehensive Health Planning Districts will make indepth studies of the needs of their respective cities and counties. Present and projected needs of emergency medical and emergency health services will be categorized. Assistance to local Emergency Medical Services Advisory Committees in seeking federal funds will be granted.

Training

Training has been categorized as a priority item along with improved communications. In 1968, 80.7% of the ambulance attendants were trained in advanced first aid. In 1970, this percentage climbed to 90%, and as of October 1971, 98% of the attendants had advanced first aid training.

The Emergency Medical Technician Training Program begun during 1971 will expose all persons registered as medical technicians in the Office of Emergency Medical Services to advanced first aid. A 71-hour paramedic training program has been adopted as the advance course of instruction for all potential emergency medical technicians. The training program was recently endorsed by the Medical Society of Virginia and the Virginia Association of Volunteer Rescue Squads.

During the present fiscal year and each subsequent year through 1974, the Office of Emergency Medical Services will graduate a minimum of 1,000 emergency medical technicians each year. There will be a 20-hour refresher course during 1973 and each year thereafter.

The American Academy of Orthopedic Surgeons has developed guidelines for the refresher course. The Emergency Medical Service plans to recommend to the State Advisory Committee on Emergency Medical Services a minimum 20-hour refresher course to be offered in concert with the basic training program every two years.

In summary, the Emergency Medical Services has made significant gains since the enactment of the 1968 Chapter 16.1 of the Virginia Code concerning ambulances. New rules and regulations have been established concerning emergency medical care. Advanced first aid training under the Emergency Medical Technician Training Program has been implemented as a standard for all attendants. Funds have been requested for initiation of a statewide emergency health/medical services communications system. Improvement in these areas should enable the Emergency Medical Services to continue with an effective program.

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	9.	ET. ECTIVENESS SA Effectiveness Supplement to the	C % of Highway . Mi V No. of Highway M	9. TASKS & MILESTONES 1. Program to determine the	2. Program to deve lation of traffic of existing safety	3. Develop program A. Pavement s	b. EllinnationC. Use of brealand lighting	í	10. DESCRIPTION: The long-term goal of the highway design, construction, and maintenance programs in our cities in Virginia is to reduce the number of accidents including fatalities, personal injuries and property damage attributed to poorly designed, constructed, and maintained roadways.	prisidition over all roadways in the nunicane littles with a population of under 3,500. There are 59 nunicipalities and two counties which design, construct and maintain their own highways. The Virginia Department of Highways, does, however, work with these municipal-
HIGHWAY SAFETY PROGRAM	ANNUAL SOBELBRIENT TLAN	CTT/ENESS Soe	UT	8. STD.	312	312			10. DESCRIPTION: The long-term goal of th highway design, construction, and maintenant programs in our cities in Virginia is to reduct the number of accidents including fatalities, personal injuries and property damage attributed to poorly designed, constructed, and maintained roadways.	jurisdiction ever all roadways in the included with a population of under 3,500. The are 59 nunicipalities and two counties which design, construct and maintain their own high ways. The Virginia Department of Highways, does, however, work with these municipal-
EIGHWAY SA	ANNUALSO	6a. E: EC	eb. OUTPUT	7. RESP. HSD - VDH	HSD - VDH	HSD- VDH			10. DESCRIPTION: Thighway design, const programs in our cities the number of acciden personal injuries and buted to poorly design maintained roadways.	jurisdiction in pullities with are 59 nunici design, construyays. The Vidoes, howeve

DATE 4-1-72	19 74 19 75 FY+1 FY+2	-		Imple. Imple.	Imple. Imple.	Imple. Imple.	Update Update		
4. D.	TOTAL F			Imple. In	Imple.	Imple.	Update U		
3-12-02	3 4th Q			Imple.	Imple.	Imple.	Update		
NO. 46-73-12-02	FISCAL YEAR 19 73			Imple.	haple.	Imple.	Update		
ion 3.	ISCAL YE			Report	Devel. Report Devel.	Report Devel.	Dev. Prog.		
Constructe (Cities)	F] 1st Q			Survey Defin.	Survey Def.	Phase Survey Def. Phase	Survey		
Highway Design, Construction TITLEand Maintenance (Cities)	$19\frac{72}{\text{FY}-1}$								
fighway LEand Ma	19 71 FY-2			****					
State of Virginia	DEAFTED BY W. L. Howard APPROVED BY J. T. Hanna	•1		TASKS & MILESTONES Program to improve hazardous railroad grade crossings	Program to improve maintenance proceduzes to provide greater safety	Program for installing guardraits at hazardous locations	ails	11. COST BY TASK 12. Cost included in total cost of task No. 3	12. TOTAL COST LOCAL SHARE STATE SHARE TEDERAL SHARE
	છ		C	9. TASKS & MILESTONES D. Program to improve haz	E. Program to im greater safety	F. Program for it locations	G. Update guardrails	Goals established by these 61 political subdivisions to provide safe streets and highways include the following: Assure that existing streets and highways are maintained in a condition that promotes safety; assure that capital improvements either to modernize roads or to provide new facilities meet approved safety standards; assure that appropriate precautions are taken to profect passing motorists as well as high-	way workers from accident involvement at high- way construction sites; reduce accidents with emphasis on overhead and sight distance restrictions.
HIGHWAY SAFETY PROGRAM	ANNOAL SUBELLEMENT FLAN	EFFECTIVENESS	F	8. STD. 312	312	312	312	blished by these rovide safe strovide safe strowing: Assure ure maintained by; assure that of modernize rounder approved propriate preciping moderists.	way workers from accident involvement at way construction sites; reduce accidents we emphasis on overhead and sight distance restrictions.
HIGHWAY SA	ANNOAL SOF	6a. EFFEC	6b. OUTPUT	7. RESP. Cities, VDH HSD	t.	=	=	Goals estal divisions to p include the fol and highways; promotes safe ments either the new facilities assure that apple to protect pass	way workers from way constructi emphasis on or restrictions.

HIGHWAY SAFETY PROGRAM	1. State of Virginia 2.	Highway Design, Constructi TITLEand Maintenance (Cities)	Highway Design, Construction TLEand Maintenance (Cities)	instruction (Cities)	3. NO.46	HD-73-361 NO.46-73-12-03		DATE 4	4-1-72
AINIOME SODIE LEMENT I LEMENT	5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna	19 71 FY-2	19_72 FY-1	FISC 1st Q 2n	FISCAL YEAR 19 2nd Q 3rd Q	9_73	TOTAL	1974 FY+1	19. <u>75</u> FY+2
6a. EFFECTIVENESS									
6b. OUTPUT V									
7. RESP. 8. STD. 9. VDH - HSD 312 4. 1 Cittes - HSD 312 5. 1 t	TASKS & MILESTONES Review design criteria Bridge inspection program on all city bridges not under the jurisdiction of the VDH. One full-time bridge engineer		Review Approve Imple,		Review Review Imple. Imple.	w Review	Review Imple•	Review Imple.	Review Lnple.
				PRI = 1,					
implement the following programs: 1. Establish means of communications with all city agencies, with the immediate task of acquiring radio equipment capable of monitoring other city frequencies; 2. Install electronic warning devices near overhead obstructions; 3. Remove sight distance obstructions where accident experience has been great; 4. Rebuild arterial routes into 4 lane streets; 5. Adopt	cations with all te task of ac- of monitoring electronic bstructions; ctions where eat; 4. Rebuild s; 5. Adopt	00	0.0	3,75	3.75 3.75	3.75	3 15	9 16	6 17
meet state highway standards; 6. Construct parking garages to eliminate on street parking; 7. Establish needs; 8. Improve street lighting and street paving in locations where the pavement is slick; 9. Develop proper procedures for roadway and roadside maintenance; 10. Construct already planned loops and roadways;	Construct Construct Street parking; street lighting ere the paverprocedures procedures nance; 10, Con- roadways;								

TILL TILL TILL TILL TILL TILL TILL TILL	HIGHWAY SAFETY PROCRAM ANNUAL SUBE LEMENT PLAN 6a. EFFECTIVENESS 6b. OUTPUT 7. RESP. 8. STD. 9. TASKS & MILESTONES Sittes Perfence has been great. N Pept. of Builte Works 312 Character and arterial routes into a perience has been great. N Builte Works 312 Appropriate state highway standar. Structural engineers to meet state highway standar. Incompleting and establish priorities where guard-rails are needed; 13. Hire personnel and produce proper training and equipment; 14. Employ competent structural engineers to make inspections of all bridges not under the jurisediction of the VDH; 15. Install signs, at freeway interchanges, directing motorists to way interchanges, directing motorists to make inspirals having emergency care capabilities. In addition work continues on a data system that will enable the cities to evaluate their structurely.	of Virginia 2. Highway Design, Construction 3. N\(\frac{46-73-361}{46-73-12-04}\) 4. DATE \(\frac{4-1-72}{4-1-72}\)	W. L. Howard 1912 FY-1 181 2nd 9 3rd 9 4th Q TOTAL Y. Hanna FY-2 FY-1 1st Q 2nd Q 3rd Q 4th Q TOTAL		TASKS & MILESTONES Electronic warning devices near overliead obstructions All state funds Remove sight distance obstructions where accident ex-	Survey Recom. Re	way standards. No cost Study Adopt Adopt Inple. Imple.	11. COST BY TASK 6-9 Cost shown with design, construction and maintenance figures. Cost will not include Costs Not Avaliable 402 funding.	12. TOTAL COST LOCAL SHARE STATE SHARE FURDAL GUADE
		State of Virginia	DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna		MILESTONES warning devices near overliend obsids the distance obstructions where accident	perience has been great, No 402 funding Rebuild arterial routes into 4 lane streets, No	meet state highway standards. No cost	11.	12.

-72	19.Z5 FV.19	3		Con't.	0	
DATE 4-1-72	1974 FY41	+		Con't, C	0	
7	TOTAL	┼		Imple. C	300	·
3-361 12-05	4th O	-		Build I	300	
HD-73-361 NO46-73-12-05	3rd O	-		Design I	0	
3.	FISCAL YEAR 19 73	-		Study I	0	
struction (Cities)	FIS 1st Q	-		Study Sandy Bids I	0	
Highway Design, Construction TITLE and Maintenance (Cities)	19. <u>72</u> FY-1			Conduct	39.3	
hway De End Mai	19 71 FY-2				0	
1. State of Virginia 2. TITI	5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna			TASKS & MILESTONES Construct parking garages (cities) Communications network Build loops and roadways Traffic Engineering Seminars - 313	11. COST BY TASK \$(000)10. Parking garage(No 402 funds)13. Seminars	12. TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES
HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN		EFFECTIVENESS	C	8. STD. 9. 312 10. 312 11. 312 12. 312 13.		
HIGHWAY SA ANNUAL SUB		6a. EFFEC	6b, OUTPUT	7. RESP. Cities Cities Cities HSD		

HIGHWAY SAFETY PROGRAM	KAM	1. State of Virginia 2. TIT	Highway Design, Construction and TITLE Maintenance (Cities)	gn, Const tenance ((ruction and lities)	3.	NO. 46-75	HD-73-361 46-73-12-06	-	DATE 4-1-72	1-72
ANNUAL SUISE LEMENT PLAN	LAN	5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna	19 71 FY-2	19 72 FY-1	FIS 1st Q	FISCAL YEAR 19 73 2nd Q 3rd Q	3rd Q	4th Q	TOTAL,	19 74 FY+1	19 75 FY+2
6a. EFFECTIVENESS											
	၁										
6b. OUTPUT	Λ										
7. RESP. 8. STD.	9. T	TASKS & MILESTONES								· · · ·	
City Government 312	14.	(Continued)				•					
	14.	Personnel (salaries of local personnel)									
		A. Supervisor \$5,600 per year B. Laborers	30	30	40 800	800	40 800	40 800	800	900	50 1,000
			200	200	200				20		30
		D. Maintenance personnelE. Engineering aids	3, 000 10	3,500 15	4,000 20 20	4,000 20 1000	2000 2001 2001	200. 20 r	4, 000 20 10 10 10	4, 500 20 20 30 30	25
		F. Asst. traffic engineers (part-time)	702	23	72	 72 72		 ç;	 Ç2	90	040
											
		11. COST BY TASK \$(000) 19	1971 FY-2 F	19 <u>72</u> FY-1	FIS 1st Q 2r	FISCAL YEAR		19 <u>73</u> 4th Q	TOTAL	1974 FY +. 1	$\begin{array}{c c} 1975 \\ \hline FY + 2 \end{array}$
			168	168	56		56	26	224	252	280
		Laborers	_	_=		_=	~.T-A-		4,416	4,968	5,520
		C. Traffic Engineers D. Maintenance nersonnel 21	104 21 000 24	104 24 500 7	26	980	560	- 50 20 20 20 20 20 20 20 20 20 20 20 20 20	104	130	156 35,000
		Engineering aids Assistant traffic engineers	44	- 96 99	8 8	322	32	32	80 8	89.28 16.88	111.6
		: '			-						
		12. 101AL COST 5(000) LOCAL SHARE			*						
		STATE SHARE FEDERAL SHARE							· <u></u>		
		TO LOCALITIES									
		AND THE PERSON OF THE PERSON O	. h		,					4	

HIGHWAY SAFETY PROGRAM ANNIAL SHRELEMENT PLAN	AM	1. State of Virginia	High 2. TITL	way De Eand Ma	Highway Design, Construction TITLE and Maintenance (Cities)	nstructio (Cities)	ر ن	NO. 46-73-12-07	HD-73-361 46-73-12-07	4.	DATE 4-1-72	-1-72
		5 DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna		19.71 FY-2	$\frac{19}{\text{FY-1}}$	FB 1st Q	SCAL YI	FISCAL YEAR 1973	4th Q	TOTAL	1974 FY+1	19 75 FY+2
6a. EFFECTIVENESS												
	၁											
6b. OUTPUT	Λ											
7. RESP. 8. STD.	9. T	TASKS & MILESTONES	`									
City Government 312	14. G	G. Civil engineers 10% ofH. Draftsman		30 80	35	25	25 40	25 40	25 40	25	30	35 52 52
	r. X	• Traffic director 1/5 time • Secretaries \$1200 + a year (time spent)		30	30	30	30	30	30	30	40	45 61
	••••											
			-									
					-							
		1		61 68	28	75	8.75	8,75	8.75	35	42	49
		H. Draftsman J. Traffic director		90 5	90	ຸ ເລ	60 22.5	60 22.5	60 22.5	90	300 120,	330 135
		K. Secretaries (No 402 Funds)		77 69 67	76.2	20	 - 23	02	 02	08	 	<u> </u>
		12. TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES			:							

HIGHWAY SAFETY PROGRAM	1-	State of Virginia	nia		High 2. TIT	way Des LEand Ma	Highway Design, Construction TITLE and Maintenance (Cities)	truction (Cities)	3.	HD-73-361 NO. 46-73-12-08	HD-73-361 46-73-12-08	+	DATIT 4	4-1-72
ANNOAL SOBELEMENT TLAN	AN 5.	DRAFTED BY APPROVED BY	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	W. L. Howard J. T. Hanna	,	19 71 FY-2	$19 \frac{72}{\text{FY-1}}$	FI 1st Q	FISCAL YEAR 1973 2nd Q 3rd Q	3rd Q	4th Q	TOTAL	19 74 FY+1	19 75 17 + 2
6a, EFFECTIVENESS														
	ပ													
6b. OUTPUT	Λ												-	
7. RESP. 8. STD.	9. TASKS	TASKS & MILESTONES	NES											
Local 312 Political	15. Procur	Procure equipment	network	cure equipment Communication network (console) \$30,000		0	0	Bids	က			တ	61	23
Subdividion		rtable radios	(two-wa	Portable radios (two-way) \$1,200 each		20	09	: :	240			240	50	50
		Revolving lights \$50 e	s \$50 eac	ដូ		090	0000		7 000			3 000	3 000	3 000
	E Ban	Estine cones so each Barricades with flashers \$50 each	each Hasher	s \$50 each		200	980	:	180				100	100
		Station wagons \$3,500 each	\$3,500 ea	ach		10	20	ε	30			30	20	15
		o man platfor	rm truck	Two man platform truck \$8, 500 each		က	∞	:	10			10	10	10
	H. Ser	nior portable	vehicle	Senior portable vehicle traffic counter \$600 each	0 each	10	15	Ε	30			30	15	15
•		rtable radar	speed m	Portable radar speed measuring device \$1, 200	, 200	വ	10	Ξ.	50			20	22	10
		me table surv	'eying eq	Plane table surveying equip.set \$1,200		4	oc	=	20			20	15	15
	K. Off L. Pai	Office equipment and supplies Paint marking machines \$3.090 each	nt and sug nachines	pplies - \$3.000 each			-	:	, LC	c	G	ıc	10	2
	- 1	C					•		,	,	>	,	3	3
10. DESCRIPTION		11.		COST BY TASK \$(000)										
					***************************************	298.3	441.6	Bids	840	0	0	840	547	509
										-				
				(000/6										
		<u>-i</u> 		TOTAL COST #(000) LOCAL SHARE STATE SHARE FEDERAL SHARE		***************************************								,
				LOCALITES										

57				*******															7		-				1				Ţ								-1
4-1-																			1																		
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HD-77-361							-		and the same of				_																_								
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Highway Design, Construction F and Maintenance (Cities) 3. N		x																																			_
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Highw LF and		9																																			
2. TIT	TASKS	5	15	L.)	15	0	15																														
		4	က	က	က	0	3																														
		8	100	190	100	0	100																														
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State of Virginia		1	ည	ıc	ro	0	5																														1
1. State o		TOTAL	34,563	128	128	9	128		•	Ī							-										-								- dan		
GRAM	MENT		312 (0)		lities	Prev. Obligations	New Obligations				dities	Prev. Obligations	New Obligations	-			dities	Prev. Obligations	New Obligations				ılitics	Prev. Obligations	New Obligations			lities	Prev. Obligations	bject		avel				Operations	
HIGHWAY SAFETY PROGRAM	SUBELEMENT SUPPLEMENT		Standard: 312 Total \$(000)	Federal	To Localities	Prev. 0	New Obl	Scandard:	Total	Federal	To Localities	Prev. C	New Obl	Standard:	Total	Federal	To Localities	Prev. C	New Obl	Standard:	Total	Federal	To Localities	Prev. C	New Ob	Total	Federal	To Localities	Prev. C	Lucal Costs by Object	Salarics	Per Diem and Travel	Contracis	Squipment	Supplies	Maintenance and Operations	Total
WAY :	LEMI		a I	S	۲	×		_	В	n	<u>-</u>	-		z		2	? >	•	ļ	x	Т	V	Z	≘		بر	24	_		I.00	Sal	ber	Cor	ib;	Sup	Mai	
нисн	SUBE		13.																											<u> </u>							

HIGHWAY SAFETY PROGRAM	1. State of Virginia	Virginia			~ં	$\Gamma\Gamma\Gamma\Gamma$	ruction	 TITLE struction and Maintenance 3, No. 	tenance	3, No.	46-73-12-10	+	DATE	4-1-72
SUBELEMENT SUPPLEMENT				-	TASKS	SS.		_		-				
	TOTAL	14		15	-					·				
 D Standard:312 I Total \$(000) 		33,	33, 295 8	840										•
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s standard: T Total														-
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New Obligations		_	\dashv	-	-	-	-							
A Total														
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D To Localities														
Prev. Obligations			_		-	-	_	-	-	-				
Salaries														
Per Diem and Travel	-													
Contracts														
Equipment Sumifies														
Maintenance and Operations														
Total		_				_		_	_					-

FFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. 46-73-12-11	Date	19 67	19 68		Н	Fiscal Year	69 J		19 70	12 61
nignway Design, Construction and Maintenance	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
Accidents										
Deaths										
Economic Loss										
Due to roadway design defects										
Ţ.										
Road Defects Accidents										
1. Under repair		860	829					791	1129	
2. Loose material		1324	1458					1572	1619	
3. Holes in road		430	432					533	618	
2. 4. Soft or low shoulders		974	1028					1103	1146	
Road Defects Fatalities										
1. Under repair		6	11					10	41	
2. Loose material		2	16		-			11	9	
3. Holes in road		၁	-					2	7	
3. 4. Soft or low shoulders		13	11					16	14	
Alignment of Road Accidents										
1. Level road		20857	22782					25257	26951	
2. Level curve		43	7902					8200	8442	
3. On grade straight		1, 02	12437					13705	14308	
1. On mode minte		9354	10999					11062	11111	
		1754	1977					2183	2369	
6. Hillcrest curve		833	884					1050	977	
7. Dip straight		535	222				-	641	089	
5. 8. Dip curve		310	394					435	423	
Alignment of Road Fatalities										
1. Level road		230	247					256	230	
2. Level road curve		137	141				•	164	150	
3. On grade straight 6. 4. On grade curve		161 175	158 166					182 196	164 186	
			,				7	,,,,		

LFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

19_21	FY+2																													
19 70	FY+1			27	12	y	2		18934	8545	57	38194		87	46	2	637		11669	13054	889	39241		44	26	7	899			
	Total			29	13	വ	4	!	17,752	8,202	29	37,386		94	43	വ	712		10613	12055	652	38882		31	73	2	735			
1969	4th Qt.							I.																						
Fiscal Year	3rd Qt.																								•	-				
Ţ.	2nd Qt.					-								•																
	1st Qt.		-													7													 ·- ·- ·	1
19 68	FY-1			22	œ	∞	က		16,139	7,525	92	34048		75	24	10	648		9437	11,070	630	35641		39	45	വ	661			
19 67	FY-2			15	13	ເດ	61		14205	668'9	26	31519		43	36	2	617		8478	9924	501	32908		43	24	က	636			
Date	4-1-72									_																				
Title and No. <u>HD-73-361</u>	Highway Desigň, Construction and Maintenance (Continued)	6a. EFFECTIVENESS	Alignment of Road Fatalities	5. Hillcrest straight	6. Hillcrest curve	7. Dip Straight	7. 8. Dip curve	Character of Location Accidents	1. Street or highway intersection		က်	8. 4. Not at intersection	Character of Location Fatalities	1. Street or highway intersection	2. Alley or driveway	3. Railroad crossing	9. 4. Not at intersection	Kind of Locality Accidents	1. Business or industrial district		က်	10. 4. Open country	Kind of Locality Fatalities	1. Business or industrial district	2. Residential		11. 4. Open county			

72	19 <u>75</u> FY+2	339	E 13.		61.9 150.0	551.1 16.0	4,811	4,828 2,960 1,574	1	427, 567	427,567
DATE1-15-72		က	8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6						-		
DATE	19 74 FY+1	341				528.8 16.0		4,652 2,818 1,514		409,5	409, 5
4	TOTAL	343	367.1.3		45.4 150.0	300.0 16.0		3,984 2,694 1,240		375, 825 409, 552	375, 825 409, 552
HD-73- 362 46-73-12-01	3 4th Q		\bigvee		11.4	135.1 4.0	1,	996 728 310		87, 101 97, 709	87, 101 97, 709 - No 402 Funds
NO. 46-	FISCAL YEAR 1973		\bigvee			55.2 4.0	r í	996 296 310		•	1 1 1
(c- 3.	SCAL YI		\bigvee		11.3	125.5 4.0	÷	996 675 310		93,574	93, 574 Funds
Constru	FI 1st Q		\bigvee		11.3	4.0	1,	996 995 310		97,441	97,441 Highway
Highway Design, Construction and Maintenance (VDH)	$\frac{19}{\text{FY-1}}$	345	367.18		7	165.6	4,796			373, 612 367, 321	373, 612 367, 321 97, 441 93, 57 *State and Federal Highway Funds
Highway Design, Construc- TITLEtion and Maintenance (VDH)	19.71 FY-2	347	1442 1442 1472 1472 1472 1472 1472 1472		96.9	173.2 16.8	5,376	3,841 1,502 1,555		373, 612	373, 612 *State an
State of Virginia	DRAFTED BY L. W. Tyus, Jr. APPROVED BY J. T. Hanna	te/100 Million Vehicular Miles on State	System Design, Construction/Maint.; & Highway Systems Design, Construction/Maint.; (1,000 Miles)	LESTONES	ign (Miles) Interstate System Primary System	secondary system Urban System	11 17	es 2. Frimary System 3. Secondary System 4. Urban System		12. FOTAL COST \$ (000) LCCAL SHARE STATE SHADE	FEDERAL SHARE TO LOCALITIES
1.	5. DRA API	frequency Ra	System Design, Cons	TASKS & MILESTONES	B 4 6	C. secon	the number	ersonal injur equate design fall roadwa			
HIGHWAY SAFETY PROGRAM	ANNOAL SOBELEMENT TEAN	6a. EFFECTIVENESSAccident frequency Rate/100 Million	6b. OUTPUT V Design.	PESP. 8. STD. 9.	VDH 312 1.		10. DESCRIPTION The long-term goal is to reduce the number of	accidents including fatalities, personal injuries and property damage through adequate design, construction, and maintenance of all roadways.			

HIGHWAY SAFETY PROGRAM	ETY PROGR	AM 1.	State of Virginia	Highway Design, Const. 2. TITLE tion and Maintenance	Highway Design, Construction and Maintenance	, Construenance	3.	NO. 46-7	HD-73-362 40-73-12-02	47	DATE1-15-72	-15-72
TOPE TWO WIND		5.	DRAFTED BY F. L. Burroughs APPROVED BY J. T. Hanna	19 <u>71</u> FY-2	19 72 FY-1	F) 1st Q	FISCAL YEAR 18 73 2nd Q 3rd Q	3rd Q	<u>.3</u> 4th Q	TOTAL	19 <u>74</u> FY+1	19_ 75 FY+2
6a. EFFECT	VENESS AC	cident Freq	EFFECTIVENESS Accident Frequency Rate/100 Million Vehicle Miles on State	tate 347	345					543	341	339
midwii O			Construction; % of Highway System	0.87	0.72					1.38	1.46	1.50
eb. OCLFUI		V Constr	Construction; Miles	442	367					711.04	755.03	779.00
7. RESP.	8. STD.	9. TASK	TASKS & MILESTONES Construction (Miles)							ì		
	710	, .	A. Interstate System	6.96	33.1	11.3	11.3	11.4	11.4	45.4	60.5	61.9
		e c	Primary System Secondary System	154.9	150 165.6	37.5	37.5 125.5	37.5	37.5 135.1	150.0 500.0	150.0 528.8	150.0 551.1
			Urban System	16.8	18.5	4.0	4.0	4.0	4.0	16.0	16.0	16.0
нал	312	3. Adr	Administration									
		A A	Interstate System Primary System									
		-										
		ď	Urban System									
				•				*				
				··								
10. DESCRIPTION	NOIL		11. COST BY TASK				(THOUSANDS)	ANDS)				
			A1. Interstate System	127, 451		24,300	26,400	26, 800 29, 100	29, 100	106,600	110,000	110,000 114,000
			2. Primary System	81,261		21,051	21,051	21,051 21,051	21,051	84,204	98, 355	102, 080
			3. Secondary System	25,386		16,800	11,400			45, 500	47,600	50,000
			4.	32,889		6,557	6,557			26, 230	32,000	33, 280
			B I. Interstate System	12,969		2,478	2,693	2, 733		10,872	11, 220	11,628
-			2. Primary System	8, 264	8,604	2, 147	2, 147		2, 147	8 5 5 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	10,032	10,412
			4. Urban System	3,341		699	699		699	2,676	3, 264	3, 394
			LOCAL SHARE		L							
			STATE SHARE									
			TO LOCALITIES	·				-				
					1		1T	1	1			1

HIGHWAY SAFETY PROGRAM	Y PROGRAM	1. State of Virginia	ırginia	2. TITI	Highway Fetion a	Highway Design, Constru-TITL $\mathrm{F}\mathrm{cti}$ on and Maintenance	Jonstru- nance	3.	HD-73 362 NO. 46-73-12-03	HD-73 362 46-73-12-03	4	DATE	1-15-72
ANNOAL SOUR		5. DRAFTED BY APPROVED BY	D BY C. O. Leigh ED BY J. T. Hama		19 <u>71</u> FY-2	$\frac{19}{\text{FY-1}}$	FE 1st Q	SCAL YE	FISCAL YEAR 19 73	3 4th Q	TOTAL	19 <u>74</u> FY+1	19 75 FY+2
6a. EFFECTIVE	NESS Acciden	t Frequency Rate,	EFFECTIVENESS Accident Frequency Rate/100 Million Vchicular Miles on State	n State	347	345					343	341	339
6b. OUTPUT	Tugnwa)	C % of State Highway Serviced V Number of Miles Serviced	y Serviced erviced	£,	100	100 51, 183					100	100 51, 691	100 51, 890
7. RESP. 8.	STD. 9.	TASKS & MILESTONES	TONES										
жим	312	A. Interstate System	em		747	793	223	223	224	225	.895	991	1,040
	+ O	C. Secondary System	 						10,688	10,688	42, 750	42,900	43,050
													
													
													······································
10. DESCRIPTION	Z.		11. COST BY TASK										
			:			8,300	2, 100	2, 100	2,200			9, 200	10, 200
			2. Primary System3. Secondary System		24, 138 36, 114	25, 200 37, 600	6,600 9,700	6,600 9,700	6,700	6,000	26, 560 39, 100	27, 700 41, 700	29,000 44,300
			12. TCTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										
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TASKS	3 4 5 6 7 8 9 10	4, Lor																									
	1] 2	13, 416 789,309 74, 100													-								+				
, q , q , q	TOTAL	375, 825 12,												·									+				
SUBELEMENT SUPPLEMENT		Standard: 312 Total \$(000)	To Localities	Prev. Obligations	Standara:	Total	Federal	To Localities	Prev. Obligations New Obligations	Standard:	Total	Federal	To Localities	Prev. Obligations New Obligations	Standard:	Total	Federal	To Localities	Prev. Obligations New Obligations	Total	Federal	To Localities	Prev. Obligations	Local Costs by Object Salaries	Per Diem and Travel	Contracts	Equipment

HIGHWAY DESIGN, CONSTRUCTION AND MAINTENANCE

The design, construction and maintenance of highways, streets, and roads in Virginia are currently under the management of two levels of government. The Virginia Department of Highways has jurisdiction over all highways within the 171 municipalities which have populations of less than or equal to 3,500. This amounts to over 50,000 miles of highways. The remaining 10,000 miles of roadways are within the jurisdiction of the cities with populations of over 3,500, which also includes the counties of Arlington and Henrico. There are 50 municipalities and two counties which design, construct, and maintain their own highways. The Department of Highways works with these municipalities in this endeavor.

In Virginia, the cities must meet the design standards of the Virginia Department of Highways if they wish the Department to participate in the maintenance of their roads. Therefore, most of the streets and roads in Virginia comply with Highway Department standards. Even with this restriction placed upon the cities, there are still lacunal areas within the design, construction and maintenance of roads not under the jurisdiction of the Department of Highways. This is evidenced by the fact that last year 51% of the highway accidents occurred on the roads not under the jurisdiction of the Highway Department; yet, city streets constitute only about 11% of the highway system.

In order to eliminate the accident problem within the cities, the Highway Safety Division plans to work with the cities in establishing programs in hazardous areas. Programs in pavement skid resistance, the elimination of hazardous fixed objects, the use of breakaway structures for signs, and signals and lighting will be developed by consulting firms. In addition the state plans to work with consultants in programs to improve hazardous railroad grade crossings and to improve maintenance procedures.

Programs for installing guardrails at hazardous locations and for the updating of guardrails will be developed.

It is anticipated that the state will employ structural engineers for the inspection of all bridges within the cities.

The cities responsible for their own roads have various programs to ensure that existing streets and highways are maintained in a condition that promotes safety and ensures that any capital improvements either to modernize roads or to provide new facilities meet approved safety standards. These cities also are seeking to protect motorists from accident involvement at highway construction sites and are seeking to reduce accidents caused by overhead and sight distance restrictions. To implement these programs, the cities plan to install electronic warning devices near overhead obstructions and to remove sight distance obstructions where accident experience has been great. Steps are also being taken to improve street lighting and street paving in certain locations, and to study hazardous locations. The cities also plan to hire additional personnel and provide proper training and equipment.

In addition, a data system is being developed to enable the cities to evaluate their programs more effectively.

HIGHWAY SAFETY PROGRAM 1. State of Virginia ANNIAI. SHREILEMENT DLAN	5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna	EFFECTIVENESS No. of Accidents at Improved TCD Locations		OUTPUT VNo. of TCD Locations Improved	RESP. 8. STD. 9. TASKS & MILESTONES	HSD 313 1. Personnel A. Hire traffic engineering consultants to work with the cities unable to justify a full-time engineer HSD 313 2. Work with consultants to develop programs in the	following areas. A. Inventory of all traffic control devices in cities B. Priority program to upgrade and install TCD for safety and for conformance with approved standards	10. DESCRIPTION in Virginia those municial palities not under the jurisdiction of the Virginia in Department of Highways install and maintain all raffic control devices and apply traffic control devices and app	12.	In order to reduce the number of accidents	es	rithin the cities local officials, with guidance TO LOCALITIES from the Virginia Department of Highways,
2. TITLE						work with engineer in the	in cities II TCD pproved	. 1				
	1971 FY-2		DATA	:					14		14	14
Traffic Control Devices (Cities)	19 72 FY-1		Y TON A						18		18	18
ol es)	FIS 1st Q		DATA NOT YET AVAILABLE			Contract Contract Contract Contract Con- Consult. Devel. Devel. Devel. Devel. Devel. Devel.	Program Prog.	25	30		30 0	30
3.	FISCAL YEAR 19 2nd Q 3rd Q		ABLE			Contract C		25	30		 30 C	30
CD-73-361 NO-46-73-13-01	~					Contract C	Prog.	25	ro.	•		
1-361 13-01	ith Q					Contract (Prog. P	25	5		2	
4	TOTAL					t Contract Devel.	Prog.	100	115	0	115	115
DATE 4	19 74 FY+1					Con- tract Devel.	Prog.	100	120	9	09	60
4-1-72	19 75 FY+2					Con- tract Devel.	Prog.	100	125	62.5	62.5	62.5

HIGHWAY SA	HIGHWAY SAFETY PROGRAM		1. State of Virginia 2.	TITLETraffic	raffic C	Control Devices		3. NO.4	$\frac{\text{CD-73-361}}{\text{NO}\underline{46-73-13-02}}$	2	DATE4-1-72	-1-72
ANNOAL SO			5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna	19. FY	19 <u>71</u> 19 <u>72</u> FY-2 FY-1		FISCA 1st Q 2nd	FISCAL YEAR 19 73	19 <u>73</u> Q 4th Q	TOTAL	19 74 FY+1	19 <u>75</u> FY +2
6a. EFFEC	EFFECTIVENESS											
6b. OUTPUT	T.	C										
					+							
7. RESP.	8. STD.	9. TASK 2. (Con C. D.	(Continued) C. Study roadway systems to determine where traffic engineering improvements can contribute to safety. D. Development of before and after studies (program by consultants) E. Establishment of a TCD maintenance program for	bute ogram m for		·				·		
,	1		ties lop program for									
HSD	313	s. A.	Training A. Training session for traffic engineers at VPI (No. trained)	ı 50	25	0 		0 25	0	22	30	0 8
		œ œ			······			1 0	•	87	7	03
will assure the full and proper application of modern traffic engineering principles and uniform standards for traffic control. At the present time many of our municipalities not under the jurisdiction of the Virginia Byartment of Highways are unable to justify a full-time traffic engineering staff thus leaving a lacuna in the area of traffic engineering services.	will assure the full and proper application of nodern traffic engineering principles and uniform standards for traffic control. At the present time many of our municipalities to under the jurisdiction of the Virginia Department; of Highways are unable to justify a full-time traffic engineering staff thus leaving a lacuna in the area of traffic engineering services.	per applic inciples a of our m he Virginic tify a full- a lacuna i	and uniform 3. Training unicipalities la Department3 -time traffic in the area	41		18		2, 5	2.5	15	20	25
Programs that will be i. Safety Division will include: 1. The hiring of traffic eng those jurisdictions unabtraffic engineering staff. 2. Establishment of a training.	Programs that will be initiated by the Highway ety Division will include: The hiring of traffic engineers to work with those jurisdictions unable to justify a full-time traffic engineering staff. Establishment of a training program for upgrading	tiated by the reers to we to justify program f	the Highway ork with y a full-time for upgrading the Highway I.2. TOTAL COST I.3. TOTAL COST I.4. TOTAL COST I.5. TOTAL SHARE I.5. TOTA									

Traffic Control Devices (Cities) $\frac{\text{CD-}73-361}{46-73-13-03}$ DESCRIPTION: (Cont.)

the skills of practicing engineers, and provision of basic instruction in traffic engineering techniques to subprofessionals and technicians.

- 3. Establish a program for a complete inventory of all TCD in every city to determine needs and deficiencies.
- 4. A periodic review of existing traffic control devices, including a systematic upgrading of substandard devices to conform with standards issued or endorsed by the FHWA.
- 5. Establish a maintenance program to insure proper operations and timely repair of control devices, including daytime and nighttime inspection.
- 6. Initiate programs utilizing traffic engineering manpower.

Several communities are presently installing Opticom, which should reduce the amount of time required by fire department vehicles and ambulances to reach the emergency situation and at the same time prevent congestion and hazardous conditions at major intersections.

The Traffic Records Committee continues to work on a state comprehensive traffic records system that will enable us to evaluate our programs more effectively.

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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

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Yield signs 4	Yield signs Automatic stop and go signals 7	Yield signs Automatic stop and go signals Stop sign or signal	Yield signs Automatic stop and go signals Stop sign or signal Slow sign 33	Yield signs4Automatic stop and go signals7Stop sign or signal39Slow sign33Traffic officer1
	3. Automatic stop and go signals 7	3. Automatic stop and go signals 7 4. Stop sign or signal 39	3. Automatic stop and go signals 7 4. Stop sign or signal 39 5. Slow sign 33	3. Automatic stop and go signals 7 4. Stop sign or signal 39 5. Slow sign 33 6. Traffic officer 1
Stop sign or signal Slow sign Traffic officer No passing lines	Slow sign Traffic officer No passing lines 58	Traffic officer No passing lines 58	No passing lines	

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. CD-73-361	Date	19 67	19 68		H	Fiscal Year	1969		19 70	19 71
46-73-13-06 Traffic Control Devices (Continued)	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
9. Railroad gates or signals10. No control present11. One way street1.		3 156 16	0 159 12	8 204 12					2 170 11	
Total accidents at traffic control locations	tions	5,414	56, 328					61,799	64,291	, , , , , , , , , , , , , , , , , , , ,
Total fatalities at traffic control locations	ıtions	734	748					1, 111	771	
4.									,	
5.										
.9										

	Ī	T_						10 0 10 0 0
4-1-72	19 <u>75</u> FY+2	250	NA 250		3 3 1 195 340 50	12	4,000	5,845 0 *5,845 0
DATE	19 74 FY+1	200	NA 200		3 1 190 330 45	10	3,600	5,250 0 *5,250 0
7	TOTAL	130	NA 150		3 1 185 320 40	3	3, 200	4,622 *4,622 0 0
CD-73-362 46-73-13-01	73 4th Q		NA		3 1 1 185 320 40	0 4	800	1,155.5 0 1,155.5 0
NO. 4	EAR 19 3rd Q		NA		3 1 1 185 320 40	7 7	800	1,155.5 0 1,155.5 0
.63	FISCAL YEAR 19 73		NA		3. 1 1 185 320 40	2	800	1,155.5 0 1,155.5 0
col FHWA)	F) 1st Q		NA		3 1 1 185 320 40	7 7	008	4,239 1,155.5 1 0 0 0 *4,239 1,155.5 0 0 0 0 402 Federal finds
Traffic Control Devices VDH (FHWA)	$\frac{1972}{\text{FY-1}}$			Imple.	3 1 1 180 310 35	2 10	3,000	4,239 *4,239 0 402 Fed
TITLE Devic	$\frac{1971}{\text{FY-2}}$			Design	3 1 170 302 30	0 0	2,800	3,866 *3,866 *Not 0
1. State of Virginia 2.	5. DRAFTED BY Jesse Bullock (WLH) APPROVED BY John T. Hanna	No. of accidents at improved traffic signal locations since 1969	C % of traffic signal locations improved since 1969 V No. of traffic signal locations improved	AS .	A. Traffic Eng. "A" (\$12,500) B. Traffic Eng. "C" (\$14,500) C. Clerk Steno "C" (\$6,500) D. Maintenance Per sonnel E. Pavement Marking (No. of Personnel) F. Traffic Signal Personnel (No.)	3. Equipment (Procurement)A. Paint Trucks (\$25,000)B. Pickup Trucks \$4,000)	standard area is to reduce the number of accidents including fatalities, personal injuries and property damage due to lack of and/or improper control devices throughout the state. We plan to improve our program by continuing to improve and update all traffic control devices as need demands. It is our policy, upon notice of a high accident location, to improve out the state of energial accident location, to improve and update all traffic control devices as need demands. It is our policy, upon notice of a high accident location, to	ly trained peak recommendations accordingly. Breakaway signs are now installed at all new sign locations and also where replacements have to be made. The Virginia Department TO LOCALITIES
HIGHWAY SAFETY PROGRAM	T N STREET	EFFECTIVENESS	TT	8. STD. 313	23 25 26 27	313	IPTION: Our is to reduce titles, persona lack of and/c ut the state, ntinuing to in devices as in tice of a high location with	somel, and in reaks way signed and a cations and a be made. The
HIGHWAY SAFETY PROGRAM	ANNOAL SOL	6a. EFFEC	6b. OUTPUT	7. RESP. VDH	Н Q А	νрн	standard area including fatali damage due to vices througho program by control policy, upon no imogram ponicy, upon no imogram of the policy, upon no imogram of the policy, upon no imogram of the solicy of the so	ly trained personal accordingly. Eall new sign lo ments have to

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1-1-72	19_75 FY+2					2 0 0 4		12	270	. e.		
DATF 4-1-72	19 <u>74</u> FY+1					2004	4	12	250	6	.550	
4.	TOTAL					2 0 2 7	1 41	12	217	en	.500	
CD-73-362 46-73-13-02	73 4th Q			1		000,		က	54.25		.125	
NO. CD-7						0 1 0		က	54. 25	,	.125	
3.	FISCAL YEAR 19 2nd Q 3rd Q			+		н н о ғ	+	က	54. 25 5.		. 125	
rol H (FHWA)	FIS 1st Q					770-	1	က	54.25 5		.125	
Traffic Control	19 72 FY-1					8008	ာက	12	509		ນູ້ ພ	
	19.71 FY-2			+		4 to 0 to	ာက	12	32	9 0	, ç	
LAM 1. State of Virginia 2. TITLE	5. DRAFTED BY Jesse Bullock (WLH) APPROVED BY John T. Hanna		٥	A	9. TASKS & MILESTONES	3. Equipment C. Electrical Trucks (\$10,000) D. Sign Trucks(\$6,000) E. Pole Trucks (\$35,000) F. Pole Trucks	G. Compressor (105 cfm \$8,000)	4. Department OperationsA. Supplies (pencils, paper, etc.)B. Rent(No. Months)C. Travel	of Highways has complete control over all traf- fic control devices within 4ts jurisdiction. 3. Feminment	ties. 4.	also plan to work with the Traffic Records Committee to develop a more effective evaluation of our program by keeping records on traffic signals	We anticipate more effective evaluation of our program upon completion of the state's new traffic records data system. TO LOCALITIES TO LOCALITIES
HIGHWAY SAFETY PROGRAM	ANNUAL SUBELEMENT FLAN	EFFECTIVENESS	F		8. STD.	313		313	has complete c	es all but two c	It has minited authority in the cities. Itso plan to work with the Traffic Record nittee to develop a more effective evaluation program by keeping records on traffic	n installed or e more effectiv n completion o lata system.
HIGHWAY SA	ANNUAL SUE	6a. EFFEC	ж оптрит	- 1	7. RESP.	ΑΩН		ΛОН	of Highways	which include	also plan to mittee to dev	that have been installed We anticipate more effec program upon completion fic records data system.

HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN	LAM		rginia		2. TITLE		Traffic Control Devices VDH (FHWA)	col 'HWA)	6,	NO. 46-7	CD-73-362 46-73-13-03	4-	1 1	4-1-72
		5. DRAFTED BY APPROVED BY	D BY	Jesse Bullock (WLH) John T. Hanna		19.71 FY-2	19.72 FY-1	F] 1st Q	SCAL Y	FISCAL YEAR 1973	3 4th Q	TOTAL	19.74 FY+1	19 <u>75</u> FY +2
EFFECTIVENESS														
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STD.	9. T.	TASKS & MILESTONES	ONES		`									
	2	Training (on the job) (no	e job) (n	io cost)			<u> </u>							
		A. Traffic Sign B. Painters	n Mainte	Traffic Sign Maintenance (no cost) Painters		50 25	50 30					35 35	55	60 45
		C. Signs (installation) D. Signals F. Signal Installations	ullation)			010 %	10					10	9	15
	•	ئب	raffic C	Control Devices	-	r	-							
		A. Primary1. Signs at \$30 each2. Signals at \$7,500 each	t \$30 eac at \$7,50	ch 10 each	14	14,000 1 40	15,000					15, 500	16,000 16,500 90 100	16, 500
***************************************		B. Interstate 1. Signs at \$300 each	t \$300 e2	ach		009	650					002	800	006
		z. Signals	at \$1,3	uu each		1	8					-	7	7
		1	11. CO	COST BY TASK \$(000)										
			6. In	6. Install Traffic Control Devices Primary Signs				116.25	116.25	116.25		465	480	495
			Ţ	Signals Interstate Signs	300						131.25	525		810
			i	Signals	-	က္	3.9	.325		325		1.3	က	1.3
		T	12. TO LO STA	TOTAL COST LOCAL SHARE STATE SHARE FEDERAL SHARE										
			TO	O LOCALITIES	-									-
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4. DATE ₄₋₁₋₇₂	TOTAL FY+1 FY+2					50	17 20 24 15 20 25	Imple. Imple		
trol 3. NO. CD-73-362 HWA) NO. 46-73-13-04	FISCAL YEAR 19 73 Q 2nd Q 3rd Q 4th Q									
TITLE Traffic Control Devices VDH (FHWA)	19 71 19 72 FY-2 FY-1					20 30		Devel.		
1. State of Virginia 2. TITL	5. DRAFTED BY Jesse Bullock (WLH) APPROVED BY John T. Hanna				TASKS & MILESTONES 7. Studies made by Traffic and Safety Division A. Railroad grade crossings B. Studies to design and recommend highway illumination - No. of sites approved C. Traffic signals		F. Flashing beacons G. Railroad flashing light signals	• Development of a data system to effectively evaluate our program	11. COST BY TASK \$(000)	12. TOTAL COST LOCAL SHARE STATE SUADE
HIGHWAY SAFETY PROGRAM	E LEMENT FLAN	EFFECTIVENESS	S	T	8. STD. 9. 7			310 8.		
HIGHWAY SA	AINNOAL SUB	6a. EFFECT		6b. OUTPUT	7. RES P. VDН		.	Tranic Records Committee		

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		TOTAL	4.622																									- •				-		-			
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	0	TASKS	TOTAL 1 2 3 4 5 6 7 8 9 10	TOTAL 1 2 3 4 5 6 7 8 9 10	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,201.3	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,201.3 ons	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 sons ons	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,201.3 so ons ls ons l	TOTAL 1 2 3 4 5 6 7 8 9 10 ons as a second s	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,201.3 so ons s s s s s s s s s s s s s s s s s s s	4,622 3,200 217 3.5 1,201.3 10 10 10 10 10 10 10 10 10 10 10 10 10	TOTAL 1 2 3 4 5 6 7 8 9 10 ons and a state of the state o	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 £2013 sons sons ons ons	A, 622 3, 200 217 3.5 4, 201.3 10 10 10 10 10 10 10 10 10 10 10 10 10	A, 622 3, 4 5 6 7 8 9 10 ons some state of the state of t	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 £2013 ons is is ons is ons is	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 ons s ons s ons s s s s s s s s s s s	Ons ons so the following state of the followi	A,622 3,200 217 3.5 1,201.8 10 10 10 10 10 10 10 10 10 10 10 10 10	A,622 3,200 217 3.5 1,201.8 10 10 10 10 10 10 10 10 10 10 10 10 10	A, 622 3, 200 217 3.5 1, 2013 Solutions Ons Solution Ons Ons Solution Ons Solution Ons Ons Ons Ons Ons Ons Ons	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 ons is is ons is ons is is is is is is is is is is is is is	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 ons so so so so so so so so so so so so so	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 Solutions	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 ons is is is is is is is is is is is is is	A, 622 3, 200 217 3, 5 1, 2013 Since the state of the st	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 singles s	Ons Single Signature (Control of the control of the	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 1,2013 sin and a	TOTAL 1 2 3 4 5 6 7 8 9 10 4,622 3,200 217 3.5 £201.3 Solution	TOTAL 1 2 3 4 5 6 7 8 9 10 1 4,622 3,200 217 3.5 1,2013 Substitute of the state o

FFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. CD-73-362	Date	19 67	19 68		H	Fiscal Year	1969		1970	19 71
46 -73-13-06 Traffic Control Devices	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS					,					
Number of accidents and deaths at improved traffic signal location.	mproved	,								
•	,									
Number of accidents at traffic control locations	rol locations	18,908	21, 248	23,752					24,578	
2. Yield Signs		1,142	1,222	1,285					1,451	
<u>ښ</u>		2,985	3,471	4,034					4,458	
2. 4. Stop sign or signal	·;	5,379	5,762	6,512					6,06,7	
5. Slow sign		1,389	1,357	1,416					1,358	
6. Traffic officer		181	165	194					223	
7. No passing lines		2,695	2,778	2, 792					2,818	
8. Railroad watchman		9	O)	ø,						
3. 9. Railroad gates or signals		92	3	87					09	
10. No control present		18,006	19,567	21,052					21, 128	
		199	089	199					705	
				* 1988 (* 1842)						
4.								-		
Fatalities			707	Z OX	3				439	
2 Vield Sime		4	67	4					0	
	a]	E-	4	90						
4. Stop sign or signal		39	36	47					e 1	
		33	35	23					90	
6. Traffic officer		г ч	r-4	•					03	
7. No passing lines	-	58	72	19					61	
6. 8. Railroad watchman		•	r d	0					•	
				Ţ			,			

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. CD-73-362 -	Date	19 67	19 68		H	Fiscal Year	1969		19_70	19 71
46-73-13-07 [Traffic Centrel Devices (Continued)	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	F'Y+2
6a. EFFECTIVENESS		·								
Fatalities 9. Railread gates or signal 10. No control present 11. One way street		3 156 16	0 159 12	8 204 12				,	2 170 11	
Total Accident at traffic control locations	ations .:	5,414	56, 328					61,799	64, 291	
Total fatalities at traffic control locations	ations	734	748					1, 111	771	
3.										
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TRAFFIC CONTROL DEVICES

Section 46.1-173 of the Code of Virginia authorizes the State Highway Commission to classify, designate, and mark state highways and provide a uniform system of marking and signing such highways, and provides that such system of marking and signing shall correlate with and so far as possible conform to the system adopted in other states.

Section 46.1-187 of the Virginia Code provides that traffic signs erected on and after January 1, 1959, and traffic signals and markings placed or erected on and after January 1, 1969, by local authorities shall conform in size, design, and color to those erected for the same purpose by the State Highway Department. Also, Section 33-36 of the Virginia Code provides that all markings and traffic signals installed or erected by towns on primary roads maintained by the State Highway Department shall first be approved by the State Highway Commission.

The Virginia Manual of Uniform Traffic Control Devices for Streets and High-ways conforms in all major respects to the current manual on Uniform Traffic Control Devices for Streets and Highways (as prepared by the National Joint Committee on Uniform Traffic Control Devices), and applies to all traffic control devices erected on the state highway system.

In Virginia, the major problem with the traffic control devices program lies with the municipalities not under the jurisdiction of the Virginia Department of Highways. Many of the localities lack sufficient funds for the development of a program that would eliminate these problems. There is also a lack of qualified traffic engineers to carry out the necessary programs for uniform traffic control devices.

In order to alleviate this problem, the HSD plans to hire consultants to work with those municipalities unable to justify a full-time traffic engineering staff. Provisions

for upgrading the skills of practicing traffic engineers, and providing basic instruction in traffic engineering techniques to subprofessionals and technicians will also be a part of the highway safety program.

The traffic control devices program at the local level will include:

- (1) An inventory of traffic control devices.
- (2) Periodic review of devices.
- (3) A maintenance schedule adequate to ensure the proper operation and timely repair of control devices, including daytime and night-time inspections. Additional programs (as funds permit) will be developed by the consultants.

The Virginia Department of Highways is in compliance with the standards as they apply to traffic control devices. Below are statements reflecting this compliance.

Standard I. "The program shall provide, as a minimum, that:

A. There is a method:

- 1. To identify needs and deficiencies of traffic control devices."

 The identification and surveillance phase of PPM21-16 established an identity means of determining locations and necessary improvements for traffic control devices. Locations reflected as needing attention on this program are investigated and corrective action taken through installation or changes to existing control devices. In addition, the Department has traffic engineers assigned to its eight construction districts who are in daily contact with specific locations, and corrections are often initiated prior to problems developing.
- 2. "To assist in developing current and projected programs for maintaining, upgrading, and installing traffic control devices."

The traffic engineers assigned to the construction districts maintain a record of all traffic control devices which show dates of installation, changes and maintenance data. These field engineers have a comprehensive sign maintenance program which provides records indicating cleansing and clear-coating information including the next scheduled maintenance operation.

Standard I. "B. Existing traffic control devices on all streets and highways are upgraded to conform with standards issued or endorsed by the Federal Highway Administrator."

A program has been under way for a number of years to upgrade all traffic control devices in accordance with the standards issued and endorsed by the FHWA. The upgrading program is well under way in the state, and, of course, will be further implemented to conform with the latest manual on Uniform Traffic Control Devices issued by the Department of Transportation.

Standard I. "C. New traffic control devices are installed on all streets and highways, based on engineering studies to determine where devices are needed for safety. Such devices conform with standards issued or endorsed by the Federal Highway Administrator."

As previously stated, all new traffic control devices are installed based on engineering studies of the operational characteristics of the location to afford maximum safety and capacity. All such devices conform to the manual of Uniform Traffic Control Devices.

Standard I. "D. There are programs for preventive maintenance, repair, and daytime and nighttime inspection of all traffic control devices."

The previously stated program of maintaining traffic control devices under Roman Numeral, I., A., 2., under this standard applies to this element. In addition, nighttime inspections are conducted on a scheduled basis of all control devices to determine their effectiveness through reflectorization, etc., under actual operational conditions.

Standard I. "E. Fixed or variable speed zones are established, at least on expressways, major streets and highways, and through streets and highways, based on engineering and traffic regulations."

The establishment of speed zones on all highways in the state of Virginia is controlled by the Va. Code Ann., Section 46.1-193. This section requires that any changes in speed limits as established by law shall be based on a traffic and engineering investigation. This investigation encompasses the use of radar speed samples, engineering review, roadway width, alignment and condition, shoulder width and condition, and roadside development. The State Highway Commissioner reviews and approves each speed zone change and records are maintained in the Central Office of the Highway Department.

The Highway Department also sends its engineers to training schools and participates in traffic engineering seminars.

1/72	19 <u>75</u> FY +2				-	600 6 12	80 16 3.9	101. 65 0 50. 83 50. 83 50. 83
DATE 4/1/72	1974 FY+1					009	75 15 3.9	103. 7 0 51. 85 51. 85
4	TOTAL			Imple.	H	009	50 14 3.9	92. 70 0 46. 35 46. 35
PS-73-161 46-73-14-01	3 4th Q			Imple.	H	150	3.5	16.0 0 8.0 8.0 8.0
NO. PS 46-7	FISCAL YEAR 1973 2nd Q 3rd Q			Imple.	H	150 0 0	12.5 3.5	24. 0 0 12. 0 12. 0
SA) 3.	ISCAL Y			Imple.	-	150 6 7	12.5 3.5 3.9	19.90 0 9.95 9.95
ety (NHT	F 1st Q			Imple.		150 Bids Bids	12.5 3.5	32.8 0 16.4 16.4 16.4
trian Saf	$\frac{1972}{\text{FY}-1}$			Devel. Imple.		ശ	37. 2	45.2 0 8.0 37.2 37.2
TITLE Pedestrian Safety (NHTSA)	19 <u>71</u> FY-2		su	Study				
1. State of Virginia 2.	5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna	See Effectiveness Supplement to the Subelement	C% of Political Subdivisions Conducting Ped. Safety Programs VNo. of cities, towns, and counties conducting Ped. Safety Programs.	9. TASKS & MILESTONES 1. Public Information Program (continuation and expansion)	2. PersonnelA. Full-time pedestrian safety officer to coordinate state program	 3. Bicycle safety program A. Lite-a-bike kits (nighttime riding) B. Bicycle testing machines \$150 each (safety check) C. Talking bicycles (sets) (Provides safety message to the young) 	10. DESCRIPTION In 1970, Virginia had 2,466 vehicle-pedestrian related crashes in which 240 pedestrians were killed. This represents 19.5% of the total traffic deaths in Virginia. The figures are higher for the rural areas of the state with 142 pedestrians killed compared to 88 in urhan areas. An interesting contraction program 2. Personnel 3. Bicycle safety program 3. Bicycle safety program 4. Interesting compared to 88 in urhan areas.	that there were 66 fatalities in rural areas while crossing not at an intersection. This figure represents the greatest number killed at any location. There were 34 persons killed while walking rural highways.
HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN		EFFECTIVENESS Se	UT	8. STD. NHTSA 314	Dept. of Educ. NHTSA 314	NHTSA 314	DESCRIPTION 970, Virginia had 2,466 ed crashes in which 240 This represents 19.55 s in Virginia. figures are higher for ate with 142 pedestrians are with a reas. An interest and a reas.	are 66 fatalities at an intersectic greatest number were 34 persons iighways.
HIGHWAY S		6a. EFFE	6b. OUTPUT	7. RESP. HSD	Dept. of Educ	HSD Localities	10. DESCRIPTIC In 1970, Virginic related crashes in killed. This repre deaths in Virginia. The figures are the state with 142.	that there were 66 far crossing not at an int presents the greatest tion. There were 34 along rural highways.

HIGHWAY SAFETY PROGRAM	ETY PROGRA		1. State of Virginia	irginia		2. TITI	E Pedest	TITLE Pedestrian Safety (NHTSA)	y (NHTSA	3,	NO. PS-73-161 46-73-14-02	PS-73-161 6-73-14-02	4	DATE 4/1/72	1/72
		5.	5. DRAFTED BY APPROVED BY	¥	W. L. Howard J. T. Hanna		19 71 FY-2	19 72 FY-1	FIS 1st Q	FISCAL YEAR 1973 2nd Q 3rd Q	3rd Q	4th Q	TOTAL	1974 FY+1	19 75 FY+2
6a. EFFECTIVENESS	VENESS														
6b. OUTPUT		C													
7. RESP. 8	8. STD. NHTSA 314	9. TASI 4. Safe	TASKS & MILESTONES Safety magic shows to	TONES	PASKS & MILESTONES Safety magic shows to elementary children (No cost)	Vo cost)			10	0	10	0	20	30	30
Departments N	NHTSA 314	5. Ped	Pedestrian safety films \$175 each	ety films \$	\$175 each				20	0	0	0	20	10	10
HSD Localities NHTSA 314	HTSA 314	6. Tra A. B.	Training (No cost) A. School crossing guards B. Safety patrols	ost) sing guard ols	σ	· · · · · · · · · · · · · · · · · · ·									
HSD	314	7. Hot	Hot Dots Program (millions)	am (milli	ons)			н	1.5	0	1.5	0	က	H	0
10. DESCRIPTION continued. In pedestrian-vehicle related collisions, 127 pedestrians between the ages of 15 and 64 were killed and 1,085 were injured. 20 children under the age of 4, 52 persons between the ages of 5	rion continued. vehicle related coen the ages of 1 were injured. 2 persons between	nued. ed collision of 15 and l. 20 chillere	ons, 127 1 64 were Idren under ges of 5	11. CO6 5. Fi 7. Ho	COST BY TASK \$(000) Films Hot Dots Program			0 %	8.75	0 0	0 8	0	8.75 16.0	1.75 8.0	1.75
and 14, and 41 persons over the age of 65 were killed.	ersons over	the age of	f 65 were	i				·							
drinking. The long-term goal of our Pedestrian Safety Program in Virginia is to reduce the number of vehicle-pedestrian related accidents, with emphasis on the rural areas.	n the penestranged of our ginia is to recan related acral areas.	Pedestria duce the n cidents, v		12. TOT. LOC. STAT FEDI TO	TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

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Pedestrian Safety (NHTSA)
$$\frac{PS-73-161}{46-73-14-03}$$
 DESCRIPTION: (Cont.)

In accomplishing this goal, the Highway Safety Division of Virginia plans to work with local political subdivisions in developing programs that will help reduce the number of pedestrians killed on our highways.

The first area of concentration will be a public information program for the purpose of educating pedestrians, from preschool age to the elderly, as well as drivers. This program will include television spot announcements, posters, radio spots, motion picture films, exhibit material, billboards, bus and mail truck type cards, coloring books, hot dots, and lite-a-bike kits.

At this time pedestrian safety is taught in Virginia schools beginning in the first grade. Safety patrols are formed to assist school children walking to and from school. In addition, adult school crossing guards are employed and stationed at high traffic volume intersections where children must cross.

It is anticipated that a full-time pedestrian safety education coordinator will be hired to work with the cities and towns in developing good safety programs to improve the pedestrian safety program for the entire state.

We also propose to build safety towns to help teach pedestrian safety to everyone.

We will continue our bicycle safety programs, which include reflectorized lite-a-bike kits that make bicycles visible at night, the purchasing of several bicycle testing machines to test bikes for safety features and thus determine whether they are safe enough to be on the streets and highways, and the procurement of bicycles that include a recording of two bicycles talking to each other about bicycle safety.

The HSD, AAA, State Department of Education and persons at the local levels are working together to provide the state with the very best program possible.

The effective evaluation of the program will be available upon completion of the state's new traffic records system being developed by the Traffic Records Committee.

HIGHWAY SAFETY PROGRAM	GRAM	1. State	State of Virginia	nia			2. TITLE	1	Pedestrian Safety (NHTSA)	Safety		3. No.46	No.46-73-14-04 4. DATE 4/1/72	4/1/72
SUBELEMENT SUPPLEMENT				-		[TASKS	-		-	_			
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EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

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40-70-14-05 4/1/72 Pedestrian Safety	72 FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS									
Number of pedestrian-vehicle related injuries Urban Rural	1,774 1,774 740	1,817		•			1,751	1,833	
Number of pedestrian-vehicle related deaths Urban Rural	ths 84	95					94	98	
Number of pedestrian-vehicle related deaths among: 1. Individuals (0-4 years) (5-14 years) (15-64 years) 3. (65+ years)	ths 15 42 120 120 40	20 46 119 47					15 34 138 53	20 52 127 41	
2. Drinking pedestrians Urban Rural	10	14					14 40	15	
Bicyclists injuried — Age 1. 0-4 years 2. 5-9 years 3. 10-14 years	3 83 139	1 85 129					2 86 114	5 94 103	
4. 15-19 years 5. 20-24 years 6. 25-34 years 7. 35+ years 6.	35 7 7 5	31 2 0 2					21 2 1 5	27 4 5 8	

EFFECTIVENESS SUPPLEMENT
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Date	4/1/72		Total			-																			
Title and No. PS-73-161	40-13-14-00 Pedestrian Safety	ca. EFFECTIVENESS	Bicyclists Killed	Age:	1. 0-4	2, 5-5	1. 3. 10-14	4. 15-19	5. 20-24	6. 25-34	7.	2.	Nightrime pedestrian deaths	Daytime pedestrian deaths					o <mark>n</mark> Spirit			•••			•0

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	NO. 46-73-162	۳.	4th Q				Imple.		. •	Imple.	Imple.		N00 0 N	0000
	NO. PS-7	FISCAL YEAR 19 73	3rd Q	NA	NA		Imple. before	& after studies	0	Imple.	Imple.		NOO 0 N	0000
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	y (FHWA)	4	1st Q				Hire Consult.	Study	Bids	Contract Devel.	Contract Devel.		8 % & & & & & & & & & & & & & & & & & &	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	TITLE Pedestrian Safety (FHWA)	19 72	FY-1	ns					87				58.2	0 0 58.2 58.2
	LF Pedest	1971	FY-2	· Locati				***************************************						
	1. State of Virginia 2.	5. DRAFTED BY W. L. Howard	APPROVED BY 9. 1. namna	EFFECTIVENESS Reduction in Accidents at Identified and Corrected High Ped. Acc. Locatipns	C% of High Ped. Acc. Locations Identified and Corrected V No. of High Ped. Acc. Locations Identified and Corrected	STD. 9. TASKS & MILESTONES	1. Identification of high pedestrian accident locations. (develop and implement program) Hire consultant.		314 2. Safety towns	314 3. Manual on pedestrian safety standards in roadway	4	5. Develop data system	10. DESCRIPTION: The long-term goal of our ber of accidents including fatalities, personal injury and property damage attributed to poor walking habits and/or attitudes, the lack of areas of high volume pedestrian traffic. The municipalities in Virginia plan to establish a program to identify high vehicle-pedestrian related accident locations. Construct additional	sidewalks in the vicinity of schools and other needed areas and install lighting in areas of high pedestrian volume. To assure the proper high pedestrian crossings we intend TO LOCALTIES
	HIGHWAY SAFETY PROGRAM	ANNOAL SUBELEME		6a. EFFECTIVENE	6b. OUTPUT	7. RESP. 8. S'	HSD FHWA 314		HSD FHWA 314	HSD FHWA 314	HSD FHWA 314		10. DESCRIPTION: The long-term goal pedestrian safety program is to reduce the of accidents including fatalities, perinjury and property damage attributed to walking habits and/or attitudes, the lack sufficient sidewalks and the proper light areas of high volume pedestrian traffic. municipalities in Virginia plan to establi program to identify high vehicle-pedestrial lated accident locations. Construct additional program to construct addition	sidewalks in the vicinity of schools and on needed areas and install lighting in areas high pedestrian volume. To assure the permaintenance of pedestrian crossings we in an internal crossings we in the permaintenance of pedestrian crossings we in the permaintenance of pedestrian crossings we in the permaintenance of pedestrian crossings we in the permaintenance of pedestrian crossings we in the permaintenance of pedestrian crossings we in the permaintenance of pedestrian crossings are in the pedestrian crossings are in the pedestrian crossings are in the pedestrian crossings are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian crossing are in the pedestrian c

Pedestrian Safety (FHWA)
$$\frac{PS-73-162}{46-73-14-02}$$
 DESCRIPTION: (Cont.)

development of a manual on pedestrian crossing markings. This manual will be distributed to all local jurisdictions. Safety towns have proven to be very successful in Virginia. There is presently one completed safety town near Richmond, Virginia. Authorities of the Henrico Police Department, who conduct the course, say that their safety town has been most beneficial in the reduction of pedestrian accidents among the young. Because of the success of the safety town in Henrico the H.S.D. plans to continue funding additional safety towns in other areas of high construction.

A data system is being developed by the traffic records committee which will enable us, upon its completion, to evaluate our pedestrian safety program more effectively.

AM 1. State of Virginia 2. TITLE Pedestrian Safety FHWA 3. No.46-73-14-03	NT	TOTAL 1 2 3 4 5 6 7 8 9 10		53.0	က	35.5 10 17.5 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	35.5 10 17.5 3				Co	gations	tions				es	gations	tions			cs	Sations	tions			COS	Sations	5	7			
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HIGHWAY SAFETY PROGRAM	SUBELEMENT SUPPLEMENT		13. D Standard: 314	I Total \$(000)	S Federal		R Prev. Obligations	New Obligations	I Standard:	B Total	U Federal	T To Localities	I Prev. Obligations	O New Obligations	N Standard:	Total	Ľ.	To Localities		1	S Standard:	Ŀ	N To Localities		1	ĭ	ī	D To Localities		14. Local Costs by Object	Den Diem and Trans	Contracts	Fonjowept	

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

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EFFECTIVENESS SUPPLEMENT
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PEDESTRIAN SAFETY

Perhaps because the number of pedestrian fatalities has decreased over the last generation, programs to minimize traffic safety hazards to the pedestrian have traditionally been assigned low priority in the states. Nationwide 150,000 people were injured in vehicle-pedestrian accidents in 1970. Virginia in 1970 experienced 2,466 vehicle-pedestrian traffic crashes in which 240 pedestrians were killed. Nearly every pedestrian who is struck sustains an injury. These facts make it imperative that the driver maintain the greatest vigilance to protect pedestrians.

On a national level far more pedestrians are injured in urban areas than in rural areas, probably because of the much greater population density in the urban areas. But, a pedestrian struck in a rural area is more likely to be killed because of the generally greater speeds involved. Virginia, having predominantly a rural highway system, reverses the national figures: in 1970 more accidents occurred in rural rather than in urban areas.

The goal of the Pedestrian Safety Program in Virginia is to permanently reduce the number of vehicle-pedestrian accidents. The reduction of rural pedestrian injuries is the first priority. It is felt the major thrust of the program should be educationally and informationally oriented so as to ease the overwhelming job of protecting the pedestrian; a duty relegated for the most part solely to the driver. Though the education of pedestrians has advanced, efforts to change maladaptive behavior patterns have been less than successful.

Current Programs

The budget for fiscal year 1972 allocated funds for the improvement of pedestrian safety in three areas: informational, educational, and environmental.

The informational campaign in Virginia will be keynoted in 1972 by a steppedup emphasis on informing the public as to the scope of the problems of a pedestrian
in an automobile-oriented society and exactly what the individual can do to alleviate
these problems. It is anticipated that this program will be implemented by widespread dissemination of advertising material and talks given by highway safety personnel to local citizen groups. The program also includes demonstrations, news
conferences, news stories and public service announcements on radio and television.
A full-time pedestrian safety officer will be needed for these efforts. It seems clear
that the success of these efforts will depend more on the individual initiative of persons at
the grass roots level than it will on the aggregate total allotment of funds. The Highway
Safety Division is particularly intent on showing the disproportionate rural involvement
in vehicle-pedestrian accidents in the Commonwealth by using public information
techniques.

Organizationally similar to the information dissemination program is the educational campaign designed to improve pedestrian safety. The sub-program could be characterized as merely different in degree from the information program. Basically it seeks to inform the public of the dangers to pedestrians from vehicle traffic, but focuses on those who are already in an educational environment. It also attempts to focus more directly on the task, hopefully it can determine through testing exactly how much the audience learns. Elementary school children throughout the state will be treated to safety magic shows which graphically illustrate what can happen to a pedestrian when he tangles with a moving automobile. It is felt that impressing upon the younger age groups the precautions needed to be taken by a pedestrian will decrease accident invovlement in future years. The behavior patterns of youths are also more easily modified by psychological training than rigid habits of middle-aged citizens.

Pedestrian safety films to be distributed to schools and civic organizations throughout the state are designed to accomplish the same end as magic shows but to an older audience. These films will probably be most extensively utilized in driver education classes in the high schools.

A novel idea of the Highway Safety Division of Virginia is the establishment of safety towns for use by elementary age school children. Safety towns are reconstructed simulated street patterns designed to facilitate the presentation of basic pedestrian problems in situations as close to the real world as possible. The Police Department of the surrounding jurisdiction educates the area children between the ages of 4 and 8 years by a program divided into five one—hour sessions on consecutive days. At the end of the weekly period the children participate in written tests and practical problems on the safety town site. 7,000 1st graders in the state have completed a similar two—hour program which emphasizes pedestrian safety, school bus safety, bicycle safety, railroad safety and child molestation. The program also utilizes visual aids in teaching the students about pavement markings and playing safely near streets and intersections. The only fully operational safety town is located in Henrico County. Other safety towns are either in the planning or construction stage in Fairfax County, Chesterfield County and Virginia Beach.

The Commonwealth's pedestrian safety program has a further goal in minimizing environmental hazards to protection of the pedestrian. This task must necessarily begin by identification of high pedestrian accident locations. In cities, where it is easier to identify these high risk areas, spot maps are the technique likely to be used. After the high risk areas are identified it will be easy to use that information to develop a manual on pedestrian safety standards. The manual will include recommendations based on the analysis of accident situations and locations by experts who then decide

on necessary physical changes for the sites. These standards should be applicable throughout the state. The physical characteristics to be standardized include visibility, clearances, traffic regulation devices, shoulders and sidewalks.

The long standing program to structure traffic flow and pedestrian movements (particularly as related to elementary school children) will be continued at an increased participatory level. The school safety guards employed by the local police direct traffic flow during school ingress and egress periods while the school patrols (comprised of upper elementary school students) control student pedestrians approaching and leaving the school area.

A new statewide program is designed to improve the visibility of pedestrians to motorists driving at night. The program utilizes reflective stick-on circles called Hot Dots. These dots are attached to books or clothing by pedestrians to increase their visibility to passing drivers. One million Hot Dots have already been distributed by service stations in the urban areas of Virginia. It is anticipated that the program will spread rapidly to other less accessible areas of the state. Field tests of the Hot Dots have shown that they are visible to motorists at distances greater than 500 feet. An experimental group of school children in Richmond not using the Hot Dots were lost in the darkness at about 200 feet. The impetus for the program was stated recently by John Hanna, Director of the Highway Safety Division of Virginia, "The pedestrian is the most ill-equipped of all persons using the highways. Yet this slow, unprotected road user is the only one allowed on public roads at night without a light or reflectorized material."

A part of the Commonwealth's pedestrian safety program utilizes a series of teaching devices designed to decrease accidents between vehicles and bicycles. Experimental studies showing the probability of accidents between automobiles and

bicycles that cause injury have been rare. The problem is complicated by the lack of a rational nationally accepted code that regulates the operation of bicycles. But it seems clear that a significant percentage of the population has at one time or another been involved in an automobile-bicycle collision. The Department of the Interior has documented an increased interest in bicycling expected to continue over the coming decade. It has concluded that bicycling will enjoy a 32% growth rate from 1965 to 1980 and that bicycling has shown the greatest increase of all outdoor sports since 1965. It seems that the anticipated major growth in the use of bicycles should warrant an added administrative effort toward improving bicycle safety.

Virginia will seek to inform that section of the public most likely to be riding bicycles (school age children between the ages of 6 and 14) of the dangers inherent in operating slow moving unprotected bicycles in an automobile-oriented transportation system. This will be accomplished by animated talking bicycles calculated to be both entertaining and educational to the children. It is hoped that redirecting behavior at such an early age will result in safety gains for years to come. The state also will purchase bicycle testing machines which determine whether a bicycle has any safety hazards such as faulty braking systems, unbalanced wheels or loose construction. After training the bicycle rider to operate his bicycle in a safe manner, it is imperative to remove physical impediments (such as faulty, hazardous bicycles) to the goal of accident-free enjoyable bicycle-riding. A "Hot Dots" program for bicycles in the form of Lite-A-Bike Kits will be distributed by the Highway Safety Division throughout the state. They basically furnish reflectorized material to apply to bicycles to improve their roadside visibility.

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HIGHWAY SAFETY PROGRAM	AM 1.	. State of Virginia	/irgini	la 2.	1 1	TITLE Police Traffic Services	Services	3.	NO. PT-73-471 46-73-15-01	3-471 3-15-01	77	DATE	4-1-72
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6b. OUTPUT	C No. of V No. of	C No. of Roadways Within Five V No. of Citations Issued For M	Tthin I	C No. of Roadways Within Five Min. of Cruising Patrol Car V No. of Citations Issued For Moving Violations	ol Car								
7. RESP. 8. STD.	9. TASI	TASKS & MILESTONES	FONES					-		······································			
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ditional problems faced by our cities and towns.	our cities	and towns.		LOCAL SHARE	22,213		22, 994, 25, 89, 25	6,608	5689.75	5689.75	23,677.2		26,367
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HIGHWAY SAFETY PROGRAM	1. State of	State of Virginia	æ	2. TITLE	Police Traffic Services	services		NO. 46-	PT-73-471 46-73-15-02	4.	DATE 4-1-72	-1-72
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7. RESP. 8. STD. 9. T Local 315 Political Subdivisions	Person B. C.	rTONES n Going] n (cities al and re rtrained	SKS & MILESTONES Personnel - On Going Program A. Policemen (cities and counties) B. Additional and replacement C. Specially trained records analyst	4, 500 400 4	4,700 400 8	5,000 500 12	5,000 500 12	5,000 500 12	5,000 500 12	5,000 500 12	5, 300 600 6	5,800 700 8
10. DESCRIPTION: 200 hour training for all new recruits; (2) refresher traffic training and in-service training courses will be made available to officers performing traffic duties; (3) additional training for supervisory personnel in the fundamentals of organization and administration training techniques and in the use of records; (4) the development of traffic sections	ining for all training and be made avail-c duties; (3) adpersonnel in and administre use of affic sections	11. C. 2. P	COST BY TASK \$(000) Personnel	19,983	20, 443	5, 228	5, 22.8	5, 228	5, 228	20,912	21,394	21,700
within the police departments; (5) traffic records systems; and (6) additional training in all phases of traffic investigation. To further accomplish this goal the cities and counties in Virginia will be hiring additional personnel, purchasing new equipment, and establishing better communications systems for their police work.	traffic records ng in all phases ar accomplish a Virginia will rchasing new r communica-	12. T L S:	TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES									·

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1. State of Virginia 2.	5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna		C	9. TASKS & MILESTONES 3. Equipment (Continued) G. Polaroid cameras \$170 H. VHF-FM Radios \$800 I. Battery chargers \$200 each J. Measuring wheels \$80 K. Accident kits \$50 L. Motorcycles \$4,000 each M. Tape recorders \$200	11. COST BY TASK \$(000) G. Cameras H. Radios I. Chargers J. Wheels K. Accident kits L. Motorcycles M. Recorders M. Recorders STATE SHARE FEDERAL SHARE FEDERAL SHARE TO LOCALITIES
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). State of Virginia	5. DRAFTED BY W. L. Howard APPROVED BY J. T. Hanna			TASKS & MILESTONFS Communications A. Police communicating cousoies with tape recording \$48,000 each B. Walkie-Talkies \$200 each C. Two-way radios \$700 each D. Console equipment \$7,950 E. Miscellaneous radio equipment (betteries, frequency hands, etc.)	11. COST BY TASK \$(000) 4. Communications A. Police communications B. Walkie-Talkies C. Two-way Radio C. Two
HIGHWAY SAFETY PROGRAM	ANNUAL SUBELEMENT PLAN	6a. EFFECTIVENESS	6b. OUTPUT V	7. RESP. 8. STD. 9. T. Local 315 4. Political Subdivisions	10. DESCRIPTION

HIGHWAY SAFETY PROGRAM	M 1. State of Virginia	irginia		2. TIT	L-Folice 7	TITL Police Traffic Services	rvices	3.	NO. 46-7	PT-73-471 46-73-15-07	7	DATF 4	4-1-72
ANNOAL SOBELEMENT FLAN	5. DRAFTED BY APPROVED BY	ED BY VED BY	W. L. Howard J. T. Hanna		19 71 FY-2	$\frac{19}{\text{FY-1}}$	FB 1st Q	FISCAL YEAR 19 2nd Q 3rd Q		73 -4th Q	TOTAL	19 74 FY+1	19 75 FY+2
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	G. Base Stations \$20,000 each	\$20,000	each		10	10	Bids	ιG	0	0	2	2	ည
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EFFECTIVENESS SUPPLEMENT
TO THE SUBELLEMENT

Title and No. PT-73-471	Date	1967	1968			r lbr	1969		19_70	19. 21
Police Traffic Services	4-1-72			1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	,	
6a. EFFECTIVENESS										
1. Violations by Drivers (1) Accidents A. Urban B. Rural		55,326 47,566	58, 702 51, 792	,				65,935	67, 189 58, 999	
(2) Fatalities A. Urban B. Rural		249	246 712					220 795	240	
2. % of Fatal Accidents Where Pedestrian Wolated Law	strian	43.2	33.1					35.6	40.1	
က်										
3. Speed Violations — All Crashes A. Urban B. Rural		5,257	5, 190 11, 145					5,514	5, 494 12, 385	
Fatal Crashes A. Urban B. Rural 5.	ø	99 348	106 365					102	115 374	
9.										

ANNITAL SITRELEMENT PLAN	ANNIAL SITELLEMENT PLAN	/irginia	TITLE Se	Services-State	ate	3.	N() 46-73-15-01	-15-01	4	DATE 4	4-1-72
	5. DRAFTED BY APPROVED BY	ID BY Major J. S. Pearson ED BY J. T. Hanna	$\frac{19 \cdot 71}{\text{FY}-2}$	$\frac{19}{\text{FY}-1}$	FI 1st Q	SCAL YE	FISCAL YEAR 19 73 2nd Q 3rd Q	I 4th Q	TOTAL	19 74 FY+1	19.75 FY+2
6a. EFFECTIVENESS	Miles of highway per trooper	trooper	61.1	9.09	9.09	60.7	2.09	60.8	80.8	61.1	52.1
	C Number of troopers	S.	826	846	846	846	846 8	846	846	8.46	966
6b. OUTPUT	V Miles of highway under State	under State Police jurisdiction	50, 500	51,300	51,300	51,400	51,400 5	51, 500	51,500	51,700	51,900
7. RESP. 8. STD.	9. TASKS & MILESTONES	TONES	· · · · · ·								
State Police 315	1. Personnel										
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	B. Captains	Ç.	9 :	9 5	9 5	<u> </u>	9 5	9 5	9 5	9 5	9 [
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-		00 (21:23	. 4	43	- 1	43	43	. .	43	43	93
			826	846	846	978	846	846	846	846	966
	2. Equipment A. Helicopters at	ipment Helicopters at \$131,410 Each	67 6	G	c	c	c	c	c	c	C
		Noticet Operating Costs and Insurance	2 61	1 01	1 61	1 01	1 01	1 01	4 44	1 23	9 69
	3. Training Helicopter Filots	opter Filots			41				4		!
10. DESCRIPTION The State Police in Virginia render many ser-	render many ser-	. •	12, 435.3	12,	3,7	2,881.9	2,881.9	2,881.9 12,357.1	12, 357. 1	12,	16,
vices in the reduction of motor vehicle crashes involving fatalities, personel injuries and property damage. Services include: (1) the well-rounded	or vehicle crashes injuries and property (1) the well-rounded	 Equipment Training Helicopter Pilots 	415.0	140.0	71.0	23.0	23.0	23.0	140.0 16.6	105.0	105.0
enforcement of trailic laws, (2) the investigation of motor vehicle crashes, (3) the surveillance of	(2) the investigation the surveillance of										
nignways and traitic for adverse conditions, (4)the directing and controlling of traffic, and (5) the	rse conditions, (4) the raffic, and (5) the	12. TOTAL COST \$(000)	12,850.9	2,850.912,805.5	3,799.0	2,904.9	2,904.9	2, 904.9	12, 513.7	12, 462.1	16,941.8
providing of emergency assistance to the motoring mublic.	stance to the motoring	LOCAL SHARE	12, 435, 9	2, 435, 9 12, 665, 5 3, 711, 4 2, 881, 9 2, 881, 9	3,711,4	881.9		2,881.9	12,357.1	12, 462.1	16,941.8
The immediate goal is to increase the strength of the Department to more adequately carry out	increase the strength lequately carry out		415.0	140.0	87.6	23.0		23.0	156.6		

1405

Police Traffic Services – State $\frac{PT-73-472}{46-73-15-02}$ DESCRIPTION: (Cont.)

throughout the State according to the basic assignment factors of: (1) traffic volumes, (2) miles of highway, and (3) motor vehicle crashes. Increases in these factors dictate a need for additional manpower.

It is felt that the use of two recently acquired helicopters to supplement existing methods and facilities will materially aid in fulfilling the Department's primary mission of reducing death, injury, and property damage on the highways of Virginia.

According to arrest statistics, 96.5% of the Department's activity is directly related to the highways.

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1. State		TOTAL		12,513.7	156.6 0	0 0	156.6																													
HIGHWAY SAFETY PROGRAM	SUBELFMENT SUPPLEMENT			10tal \$(000)	Federal	Drow Obligations	New Obligations	Standard.	Total	Federal	To Localities	Prev. Obligations	New Obligations	Standard:	Total	Federal	To Localities	Prev. Obligations	New Obligations	Standard:	Total	Federal	To Localities	Prev. Obligations	new Obligations	Federal .	To Localities	Prev. Obligations	Local Costs by Object	Salarics	Per Diem and Travel	Contracts	Equipment	Supplies	Maintenance and Operations	Total
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POLICE TRAFFIC SERVICES

Police agencies in the state of Virginia are readily divided into two groupings: local law enforcement agencies of the counties, cities, and towns, and state law enforcement agencies, the largest of which is the State Police Department. Below is a description of the structure of the local law enforcement agencies, an examination of the personnel and budgetary resources of the local law enforcement agencies, a discussion of present training and equipment resources, and a description of the present communication system between the state, county, and local law enforcement agencies.

Local Law Enforcement Agencies

The enforcement of the law in Virginia is primarily the responsibility of law enforcement officials in the counties, cities, and towns.

For those unfamiliar with the Virginia system of local government, it must be kept in mind that the Virginia city is completely separate from and independent of adjacent counties. However, this separation is not true of the towns, which remain an integral part of the county. Among other things, this means that the county sheriff has no jurisdiction within a city, the major exception being "cities of the second class" (populations of less than 10,000) which share the sheriff with the adjacent county.

Counties

Each of the 96 counties in the state has a sheriff who is a constitutional officer and, according to the size and population, various numbers of deputy sheriffs working directly under him. The sheriff is elected by the voters of the jurisdiction and he and his deputies and some employees are charged with the responsibility of enforcing all of the criminal laws within the jurisdiction as well as certain other duties such as

serving civil papers and the operation of the jail. The state of Virginia contributes two-thirds of the funds necessary for the operation of the sheriff's office, and the State Police patrol the highways in those counties where there are no organized county police forces.

The sheriffs in the Counties of Prince George, Prince William, Roanoke and York have a special police department whose members enforce the criminal laws. Because of the size and density of population, the counties of Arlington, Chesterfield, Fairfax, and Henrico maintain a police department separate from the sheriff's office.

Cities

There are 29 cities of the first class within the Commonwealth which have a constitutional officer called the city sergeant whose duties include that of acting as a jailor and process server, but rarely include actual law enforcement. The nine cities of the second class share the sheriff with the surrounding county. The city sergeant has various numbers of deputy city sergeants and some employees under his command whose authority is the same as that of a deputy sheriff.

There are 38 cities within the state of Virginia which have organized police departments. Their authority for enforcing the criminal laws is Section 15.1-138 of the Code of Virginia and the provisions contained in the special act charters granted to each city by the state legislature.

Each of these police departments is headed by a chief of police who reports to a director of public safety, or a city manager. The police officers in these cities are confined to the enforcement of state law and local ordinances within the boundary of the jurisdiction.

Towns

Of the 195 towns within the Commonwealth there are 154 which maintain either a small organized police department headed by a chief of police or a police officer designated as a town sergeant. The authority for providing law enforcement in these jurisdictions is the same as that for cities. The chiefs of police or town sergeants, whichever applies, report directly to the mayor or town manager. The remaining 41 Virginia towns depend on the county sheriff or county police force for law enforcement.

Resource Inputs to Local Police Agencies

During 1968, cities, towns, and counties in Virginia expended approximately \$44 million on police agencies. These expenditures ranged from a low of \$1,035 for the New Castle Town Police to a high of approximately \$4 million for the Richmond Police Department. During this period there were three counties with a police budget of over \$1 million and a force of over 100 men, and six counties with budgets less than \$10,000 and with three or less men. Eight cities in Virginia had police budgets of more than \$1 million, and 11 cities had a police force of greater than 100 men. During the same period, there were 55 towns with police budgets less than \$10,000 and seventy towns with police forces of exactly one man.

The wide variation in sizes and budgets of local police agencies, and concomitant discrepancies in the quality of training and equipment, make the problem of interaction and cooperation very difficult.

The responsibility for the investigation and disposition of crimes which are not within the capability of any one local law enforcement agency is in general vested in the Department of State Police.

The Police Traffic Services Program in Virginia seeks to reduce the number of accidents, including fatalities, personal injury and property damage, caused by individuals violating traffic laws, with particular attention directed toward the repeat violator. Problem areas include lack of sufficient enforcement at high accident locations as well as lack of training in handling all aspects of enforcement. The police departments are improving officer training and are establishing better communications systems in order to cope with accidents and traffic violators.

To accomplish this goal, the cities and towns throughout Virginia plan to develop and implement the following programs: (1) establishment of a 200-hour minimum training program for all new recruits; (2) refresher and in-service training courses for officers performing traffic duties; (3) setting up additional training for supervisory personnel in the fundamentals of organization and administration training techniques and in the use of records; (4) development of traffic sections within the police departments; (5) establishment of traffic records system; and (6) setting up additional training in all phases of traffic investigation.

The police departments also plan to hire additional personnel, purchase new equipment and establish better communications systems. The Highway Safety Division will provide funding for additional police equipment, communications and training.

The law enforcement officer's training standards commission is presently developing a visual file that will contain information pertaining to all police officers in the state and the amount and type of training they have had. This system will be available for use in the evaluation of the police traffic services program. A data system is also being developed by the Traffic Records Committee that will enable the Highway Safety Division to evaluate the police traffic services more effectively.

State Police

The Department of State Police is a law enforcement agency charged with the powers and duties to enforce all of the criminal laws of the Commonwealth of Virginia (Section 52.8, Code of Virginia) as follows:

The powers and duties of the Department of State Police are to enforce criminal laws and investigate aircraft accidents. The superintendent of State Police, his several assistants, and police officers appointed by him are vested with the powers of a sheriff for the purposes of enforcing all the criminal laws of this state and for investigating any aircraft accident which occurs in the state, and it shall be the duty of the superintendent, his several assistants and police officers appointed by him to use their best efforts to enforce the same.

Nothing in this section shall be construed as relieving any sergeant or sheriff, commissioner of the revenue, police officer or any official now or hereafter invested with police powers and duties, state or local, from the duty of aiding and assisting in the enforcement of such laws within the scope of his authority and duty.

The Department was established with the functions of patrolling highways, operating police schools, operating the State Police radio and communications system, supervising inspection stations and inspectors of motor vehicles, promoting highway safety, adopting standards for motor vehicle appliances and safety devices, and registering machine guns. Other statutory functions are a State Police teletype system and a joint state and local radio and teletype system operated for the benefit of the state and local police agencies throughout the state.

In accordance with the description stated above in Section 52.8 of the Code, the Department of State Police is also authorized to enforce all criminal laws of the state and to stand ready to assist any and all local law enforcement agencies in carrying out their responsibilities with manpower and other resources such as armored cars, polygraphs, scuba divers, airplanes, training facilities, and many investigative aids.

Officers of the State Police have concurrent jurisdiction in all of the localities of the state. The State Police, however, do not routinely patrol the streets of cities and towns in the Commonwealth where there are duly organized police departments, but instead, are confined to rural areas. In case of riots or other disturbances, the State Police, when requested by local authorities, are sent to troubled areas and assume concurrent jurisdiction with the local officers.

As in all other branches of law enforcement, expenditures of this Department are increasing due to increased numbers of rural highways, increased motor vehicle registrations, increased numbers of motor vehicle crashes, extension of mileage of interstate highway systems, and increased crime both statewide and in rural Virginia. According to projections of this Department, the Department of Highways, and the Division of Motor Vehicles, rural miles traveled, motor vehicle registrations, and motor vehicle crashes will increase 5% annually. These increases will demand more and more efficient services from this Department. Such services, of course, will demand a greater expenditure of funds. The fact that the Department of State Police is basically a service organization is best seen in the maintenance and operation budget request for 1970-71, which shows that salaries are 63.89% of the total.

An added obligation of the State Police has been brought about by the continuing increase in serious crimes, and <u>habeas corpus</u> proceedings brought about by recent United States Supreme Court decisions. Investigations of <u>habeas corpus</u> proceedings, although a function of the Attorney General's office, must be handled by the Department of State Police since the Attorney General has no investigative force and must rely on the State Police for assistance upon request of city, town, and county police departments in investigations, as well as handling the investigation of matters brought directly to their attention.

The State Police also render many services in a continuing effort to reduce motor vehicle crashes involving fatalities, personal injuries and property damage. These services include: (1) complete enforcement of traffic laws, (2) investigation of motor vehicle crashes, (3) surveillance of highways and traffic for adverse conditions, (4) directing and controlling traffic, and (5) providing emergency assistance to the motoring public.

An immediate concern of the Department is the need for additional manpower, due to an increase in traffic volume, highway mileage and the number of motor vehicle accidents. More troopers are required to enable the State Police to continue to provide traffic services which will result in a reduction of motor vehicle crashes. According to arrest statistics, 96.57% of State Police activity is directly related to the highways. An increase in manpower is necessary for State Police to continue its vital function of highway patrol.

To supplement traditional methods in fulfilling the Department's primary mission of reducing death, injury and property damage on Virginia highways, State Police have recently acquired two helicopters. These helicopters will enable State Police to further reduce reaction time in responding to accident calls and will also provide a method of response for calls from inaccessible areas. The helicopters will supplement existing methods of monitoring traffic flow and will aid in determining traffic volume.

-1-72	19_75 FY+2	110	90 150,000		Review Review	400	10	30	626.5	526.5	0	100	100
DATE 4-1-72	19 <u>74</u> FY+1	160	85 90 135,000 150,000		Review	300	10	30	616.5	466.5	0	150	150
4	TOTAL	06	83 125,000			250	0	30	009	545	0	55	55
NO. 46-73-16-01	73 4th Q					63	 0	7.5	7.5	,	0	7.5	6.7
NO. 46-	FISCAL YEAR 19 73					63	.0	7.5				7.5	
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dnu	1st Q					62	0	7.5	7.5	0	•	7.5	
Accident Cleanup	19 <u>72</u> FY-1	85	71 100,000		Devel. & Dist.		32	0	32	0	0	32	70
TITLE Accid	19 71 FY-2	80	68 90,000		Study		œ	0	00	0	•	00 00	,
1. State of Virginia 2.	5. DRAFTED BY W. L. Howard APPROVED BY John T. Hanna	Crashes involving previous crash debris or blockage	C % of crash sites cleaned of debris within 20 minutes V No. of crash sites cleaned of debris within 20 minutes	. TASKS & MILESTONES	1. Manual on uniform accident cleanup procedures	 Training A. Train cleanup personnel on accident cleanup manual (No. trained) 	±		- 12.		P		s and provide for
HIGHWAY SAFETY PROGRAM	ODE LEMENT FLAN	EFFECTIVENESS Cra	I	8. STD.	316	316	10. DESCRIPTION There are approximately 85 crashes involving previous crash debris in Virginia coch was Mith the number of car registra-	gina each year. With the number of car registra- tions and licensed drivers increasing this figure could also increase. It is our goal in Virginia to reduce the number of accidents including fatalities, personal injuries	and property damage attributed to these secondary and chain reaction collisions and conditions hazard	ous to the driving public by providing for a rapid,	orderly and safe removal from the roadway of	wreckage, spillage and debris from motor vehicle	To eliminate these crashes and provide for
HIGHWAY	ANNOAL	6a. EFF	6b. OUTPUT	7. RESP.	HSD	HSD	10. DESC 85 crashes i	ginia each year. Wi tions and licensed dr could also increase. It is our goal in of accidents includin	and propert and chain re	ous to the d	orderly and	wreckage, a	Toelin

HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN	CRAM	1. State of Virginia	Virgi	nia 2.	TITLE Accident Cleanup	scident C	leanup		3. NO.	NO. 46-73-16-02		4. DAT	DATF4-1-72	72
		5. DRAFTED BY APPROVED BY	ED BY	W. L. Howard Y John T. Hanna	19.71 FY-2	1 19 72 2 FY-1	1 1st	`` &	FISCAL YEAR 19 73 2nd Q 3rd Q	19 73 Q 4th Q	Q TOTAL	19 74 AL FY+1		$\begin{array}{c} 19 & 75 \\ FY + 2 \end{array}$
6a. EFFECTIVENESS														
6b. OUTPUT	C													j
RESP. 8	6	TASKS & MILESTONES	TONE	S										1
Local 316 Political Subdivisions	. S.	Procure equipment A. Heavy duty trucks	ent trucks	; \$25,000 each	*NA	NA	Bids		ۍ	0		2	က	
			\$13, 50 is \$10,	00 each 000 each	N N N	A N Z	Bids		400	000	4 10		10	10
		D. Electronic defection de E. First aid kits \$10 each	ts \$10	Electronic defection devices \$2000 each First aid kits \$10 each	A N	N A	Bids	s 300			300			009
					*Not available	ple								
10. DESCRIPTION rapid and safe removal from our roadways a contract has been let for the	oid and sa ntract has	fe removal been let for the	11. 3.	COST BY TASK \$(000) Equipment					· · · · · · ·		·- <u>·</u>			
review of the accident cleanup program in Virginia. A manual will be midlished and distributed to all	anup progr	am in Virginia.			0	0	0	125			125			75
political subdivisions explaining proper cleanup	aining pro	ser cleanup		B. Tow trucks C. Crash trucks	0 0	- c	- c	100			100		67.5	67.5
echniques. At the present time wrecker services	it time wre	cker services				0	0						50	30
In most cities and counties throughout the State are required to cleanup all accident sites they work.	s throughous sident sites	it the State are		E. First aid kits					3			3	9	
The Virginia Department of Highways has available special crews for debris cleanup in emergency situations as well as continuous cleanup of dead animals and trash from the highways. Four regional training courses are proposed which would train appropriate local officials in the	rent of High rebris cl ell as cont from the h ; courses a late local c	nways has leanup in tinuous cleanup iighways.	12.	TOTAL COST \$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										{

HIGHWAY SAFETY PROGRAM ANNUAL SUBELEMENT PLAN	"	Virginia	2. TITLE		Accident Cleanup		3.	NO. 46-	DC-73-281 46-73-16-03	4	DATE 4-1-72	1-72
	5. DRAFTED BY APPROVED BY	ED BY W. L. Howard VED BY J. T. Hanna		$\begin{array}{c c} 19 \hline 71 \\ FY-2 \end{array}$	19 72 FY-1	FI 1st Q	FISCAL YEAR 1973 2nd Q 3rd Q	3rd Q	4th Q	TOTAL	1974 FY+1	19.75 FY+2
ပ >												
6.	TASKS & MILESTONES	TONES										
4	Comi A. B.	Communications A. Radio base stations (\$1,000 each) B. Radio consoles(\$800) C. Highway emergency alarms and vehicle status		NA NA	NA NA	Bids	10	0 0	0 0	10	10	10
	equipment, so that di other departments an had from one console D. Two-way radios(\$400	equipment, so that direct communications with other departments and radio frequencies may be had from one console, \$25,000 per unit) Two-way radios(\$400 each)	with may be			Bids	10	0 0	0 0	10	100	10
ng an is en nt cl	10. DESCRIPTION handling and disposition of hazardous materials as well as encouraging a uniform procedure for accident cleanup.	ÖĦ	0		0	0	10	0	0	10	10	10
eloj er (lent	Work continues on the development of a state traffic records system that after completed will enable us to evaluate our accident cleanup programs more effectively.	b. Consoles C. Alarms D. Two-way radios	0 0		0 0	0 0	250 20	000	000	4 250 20	8 250 40	8 250 40
		12. TOTAL COST\$(000) LOCAL SHARE STATE SHARE FEDERAL SHARE TO LOCALITIES										

3. No. 46-73-281 1. DATE 4/1/72																																				
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HIGHWAY SAFETY PROGRAM	SUBELEMENT SUPPLEMENT		Standard: 316		F		Prev. Obligations	New Obligations	Standard:	Total	Federal	To Localities	Prev. Obligations	New Obligations	Star	Total				New Obligations	Stan	Total	Federal	To Localities			l Otal Federal		Local Costs by Object	Salaries	Per Diem and Travel	Contracts	Equipment	Supplies	Maintenance and Operations	Total
HIGHWA	SUBELE		13. D	I	S	H	R			В	Ω	T	-	0	Z		, i	я ;	-		l w	L	A	Z	Q	°	₹ ≃		14. L	x		_		S:	<u> </u>	

EFFECTIVENESS SUPPLEMENT
TO THE SUBELEMENT

Title and No. DC-73-281	Date	1970	19 71		je,	Fiscal Year	. 72		19 73	19_74
Accident Cleanup	4-1-72	FY-2	FY-1	1st Qt.	2nd Qt.	3rd Qt.	4th Qt.	Total	FY+1	FY+2
6a. EFFECTIVENESS										
Crashes Involving Previous Crash Debris	bris									
or Blockage		75	8					85	6	100
2.										
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ACCIDENT CLEANUP

Each local political subdivision, in cooperation with the state, is developing a program which provides for the rapid, orderly and safe removal from the roadway of wreckage, spillage and debris resulting from motor vehicle accidents. Rapid cleanup should reduce the likelihood of secondary and chain-reaction collisions, and conditions hazardous to the public health and safety. A study has been completed of the accident cleanup program in Virginia to help eliminate automobile crashes by providing for a rapid and safe removal of accident debris from the highways. The study, conducted by Wilbur Smith and Associates, Consulting Engineers of Richmond, involved highway safety incidents and a determination and evaluation of the existing methods utilized to control debris caused by accidents. The study resulted in a manual of recommended procedures and operational guidelines to restore an accident scene to its original condition. It identifies the important state government resources and personal contacts which may be used for assistance.

The procedure manual is indexed and categorized and is designed for use by local and state officials including police, medical services personnel, civil defense units, traffic engineers, rescue squads and other appropriate groups. All known resources and capabilities for restoring the accident sites to safe conditions are listed with administrative officials who need to be notified for site restoration.

An important result of the study is the familiarization of each governmental agency and contributory group with its responsibility in the area of debris hazard control and cleanup. Various organizations, such as police, medical engineers, and others, including citizens, are apprised of their areas of functional responsibility. Hopefully, this manual and follow-up meetings between agencies will increase the level of coordination and will assure a more thorough understanding by public officials of the importance of debris control and cleanup.

The debris control and cleanup project initiated last year has identified all available resources and capabilities (private, local and state) which can be utilized. The deficiencies in the program have been pointed out. The new operational procedure manual provides for:

- (a) Enabling rescue and salvage equipment personnel to get to the scene of accidents rapidly and to operate effectively upon arrival;
- (b) extricating trapped persons from wreckage with reasonable care;
- (c) warning approaching drivers and detouring them with reasonable care past hazardous wreckage or spillage;
- (d) safe handling of spillage or potential spillage;
- (e) removing wreckage or spillage from roadways so as to facilitate the resumption of safe, orderly traffic flow.

In short, efforts have been made to ensure a uniform and effective statewide program of debris hazard control and cleanup.

At present, wrecker services in most cities and counties throughout the state are required to cleanup all accident sites. The Virginia Department of Highways also has available special crews for debris cleanup in emergency situations as well as continuous cleanup of dead animals and trash from the highways.

Four regional training courses are proposed which would train appropriate local officials in the handling and disposition of hazardous materials as well as encouraging a uniform procedure for accident cleanup.

Work continues on the development of a state traffic records system which should enable the Highway Safety Division to evaluate the accident cleanup programs more effectively.

PART V

AGREEMENT PROVISIONS

RESPONSIBILITY FOR WORK. The State, through its Governor, will implement the attached Annual Work Program for fiscal year and will perform, or by formal agreement with appropriate officials of a political subdivision or State agency, cause to be performed under its supervision the work covered by such Program in accordance with the detailed plans and specifications annexed thereto and made a part hereof by reference.

BASE YEAR CRITERIA. The State will maintain the aggregate expenditure of funds of the State and political subdivisions thereof, exclusive of Federal funds, for highway safety programs at a level which does not fall below the average level of such expenditures for its last two full fiscal years preceding the date of enactment of the Highway Safety Act of 1966 (September 9, 1966).

MAINTENANCE.

- 1. National Highway Traffic Safety Administration. Facilities and equipment acquired under this agreement for use in highway safety standard areas administered by the National Highway Traffic Safety Administration shall be used and kept in operation for highway safety purposes by the State, or the State, by formal agreement with appropriate officials of a political subdivision or State agency, shall cause such facilities and equipment to be used and kept in operation for highway safety purposes. Costs incurred under the terms of this agreement for necessary maintenance, repair, or upkeep of the facilities and equipment which neither add to the permanent value of the facility or equipment nor appreciably prolong its intended life, shall be eligible for reimbursement of the Federal share payable. Where facilities or equipment acquired in connection with a task subject to this agreement are not used and kept in operation for highway safety purposes, the Secretary shall withhold further reimbursement under 23 USC 116(c). When a task is subject to an agreement between the State and a political subdivision, or a State agency, the sanction shall apply only to such political subdivision or State agency.
- 2. Federal Highway Administration. The State will use and maintain, or by formal agreement between the State and appropriate officials of a political subdivision or State agency, cause to be used and maintained, for highway safety purposes, any facilities and equipment acquired in connection with this agreement for use in highway safety standards administered by the Federal Highway Administration. Costs incurred for necessary maintenance, repair, or upkeep of such facilities and equipment are not eligible for reimbursement of the Federal share payable. It is understood that the sanctions prescribed in 23 USC 116(c) shall apply separately to each task of the agreement. Where facilities and equipment are acquired in connection with a task subject to an agreement between the State and a political subdivision or State agency, as referred to above, the Secretary's withholding of further reimbursement under 23 USC 116(c) shall apply only to such political subdivision or State agency.

NONDISCRIMINATION PROVISION. The State agrees that, as a condition to receiving any Federal financial assistance under this agreement, it will comply with all applicable laws, regulations, executive orders, policies, and procedures relative to the assurance of equal opportunity without regard to race, religion, color, sex or national origin.

The State hereby agrees that it will incorporate or cause to be incorporated into any contract for construction work, or modification thereof, as defined in the rules and regulations of the Secretary of Labor at 41 CFR Chapter 60, which is paid for in whole or in part with funds obtained from the Federal Government or borrowed on the credit of the Federal Government pursuant to a grant, contract, loan, insurance or guarantee, or undertaken pursuant to any Federal program involving such grant, contract, loan, insurance or guarantee, the following equal opportunity clause:

"During the performance of this contract, the contractor agrees as follows:

- 1. The contractor will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment without regard to their race, color, religion, sex, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising; layoffs or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the State setting forth the provisions of this nondiscrimination clause.
- 2. The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex or national origin.
- 3. The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice to be provided by the State advising the said labor union or workers' representative of the contractor's commitments under this equal employment opportunity clause and shall post copies of the notice on conspicuous places available to employees and applicants for employment.
- 4. The contractor will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations and relevant orders of the Secretary of Labor.
- 5. The contractor will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records and accounts by the State, the National Highway Traffic Safety Administration, the Federal Highway Administration, and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations or orders.
- 6. In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations or orders, this contract may be canceled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts or Federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246

of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation or order of the Secretary of Labor, or as otherwise provided by law.

7. The contractor will include the provisions of this equal employment opportunity clause in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the State or the National Highway Traffic Safety Administration and the Federal Highway Administration may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided however, that in the event a subcontractor becomes involved in, or is threatened with litigation with a subcontractor or vendor as a result of such direction by the Administrations, the contractor may request the United States to enter into such litigation to protect the interests of the United States, and, in addition, the contractor may request the State to enter into such litigation to protect the interest of the State".

The State further agrees that it will be bound by the above equal opportunity clause with respect to its own employment practices when it participates in federally assisted construction work; However, the above equal opportunity clause is not applicable to any agency, instrumentality or subdivision of the State which does not participate in work on or under the contract.

The State also agrees:

- (1) To assist and cooperate actively with the Administrations and the Secretary of Labor in obtaining the compliance of contractors and subcontractors with the equal opportunity clause and the rules, regulations, and relevant orders of the Secretary of Labor.
- (2) To furnish the Administrations and the Secretary of Labor such information as they may require for the supervision of such compliance, and that it will otherwise assist the Administration in the discharge of the Administration's primary responsibility for securing compliance.
- (3) To refrain from entering into any contract or contract modification subject to Executive Order 11246 of September 24, 1965, with a contractor debarred from or who has not demonstrated eligibility for, Government contracts and federally assisted construction contracts pursuant to the Executive Order.
- (4) To carry out such sanctions and penalties for violation of the equal opportunity clause as may be imposed upon contractors and subcontractors by the Administrations or the Secretary of Labor pursuant to Part II, Subpart D of the Executive Order.

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In addition, the State agrees that if it fails or refuses to comply with these undertakings, the Administrations may take any or all of the following actions:

- (a) Cancel, terminate, or suspend this agreement in whole or in part;
- (b) Refrain from extending any further assistance to the State under the program with respect to which the failure and refusal occurred until satisfactory assurance of future compliance has been received from the State;
- (c) Refer the case to the Department of Justice for appropriate legal proceedings.

ADDITIONAL PROVISIONS

U.S. DEPARTMENT OF TRANSPORTATION National Highway Traffic Safety Administration Federal Highway Administration

FEDERAL-AID ANNUAL WORK PROGRAM AGREEMENT (Volume 103)

The State, through its Governor, having complied, or hereby agreeing to comply, with the terms and conditions set forth in Chapter 4 of Title 23, United States Code, the provisions of Office of Management and Budget (OMB) Circular No. A-87, issued May 9, 1968, and the regulations, rules, policies and procedures issued pursuant thereto as well as all other applicable Federal laws and requirements, and the National Highway Traffic Safety Administration and the Federal Highway Administration having authorized certain work to proceed as evidenced by the date entered opposite the specific part of the program, Federal funds are obligated not to exceed the amounts applicable to the National Highway Traffic Safety Administration part of the program and the Federal Highway Administration part of the program shown herein, the balance of the estimated total cost being an obligation of the State. Such obligation of Federal funds extends only to those costs incurred by the State after authorization has been given to proceed with the particular part of the program involving such costs. The Federal funds obligated shall be subject to availability of Federal obligational authority and any other limitations as may be prescribed by statute, administrative action, or conditions of approval.

Program	Effective date of	Estimated total	Federa	l Funds
	authorization	cost of program	FY	FY
National Highway Traffic Safety Administration	August 5,1971*	\$ 72,000,000		1,378,415
Federal Highway Adminis- tration	August 5,1971*	423,000,000		122,500
Total		\$495,000,000		1,500,915

* P&A and continuing projects authorized as of July 1, 1971
The State further stipulates that pursuant to said Title 23, regulations, and policies and procedures, and as a condition to payment of the Federal funds obligated, it accepts and will comply with the provisions set forth on the reverse side hereof.

National Highway Traffic Safety
Administration Och
By forther hillhouse
Cetri Regional (afirimitrator, Proprie III
Date 10-7-71
Federal Highway Administration
By Geraud School
l Federal Highway Administrator
(Title)
Date 10-1-71
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Form HS-62 (Revised 6/71)

U.S. DEPARTMENT OF TRANSPORTATION National Highway Traffic Safety Administration Federal Highway Administration MODIFICATION OF FEDERAL-AID ANNUAL WORK PROGRAM AGREEMENT (Volume 103)

The Annual Work Program Agreement entered into between the undersigned parties and executed on October 1 , 1971, is hereby modified as follows:

Program	Effective date of	Estimated total	Feder a	l Funds
	authorization	cost of program	FY 1972	FY 1971
National Highway Traffic Safety Administration Former Amount	8-5-71	\$72,000,000	\$1,378,415	
Revised Amount	10-14-71	72,000,000	1,476,244	\$10,835
Federal Highway Adminis- tration Former Amount	8-5-71	423,000,000	122,500	
Revised Amount	10-14-71	423,000,000	131,300	
Total Former Amount	8-5-71	495,000,000	1,500,915	
Revised Amount	10-14-71	495,000,000	1,607,544	10,835

This modification is made for the following reasons: Additional funds available for obligation.

All other terms and conditions of the Annual Work Program Agreement will remain in full force and effect.

This modification is effective as of the 14thday of October 1971.

	National Highway Traffic Safety Administration
State of Virginia	Ву
(Wame of Official Authorized by the Governor)	Regional Administrator, Region III (Title) Date
(Title)	Federal Highway Administration By
Date	<u>Pederal Highway Administrator, Region 3</u> (Title)
Form HS-62a Nov. 1971	Date

V-6

ANALYSIS OF COSTS

ANNUAL WORK PROGRAM — FISCAL YEAR 1972

STATE OF Virginia (42)

Part A - NHTSA

		Management of the Control of the Con		
SEP Number	Total Costs	State Share	Federal Share	Federal Share to Localities
PA72-001 VI72-101 VR72-201 WS72-301 DE72-401 DE72-401 CL72-601 TC72-701 AL72-801 TR72-007 EM72-101 PS72-401 PT72-501	477,825 368,000 8,018,000 12,312,100 156,200 4,054,500 1,747,883 43,000 50,000 930,000 1,298,995 54,400 23,924,000 12,789,493	290,450 368,000 8,018,000 10,000 12,042,365 91,600 1,716,600 1,716,600 1,716,600 1,716,600 2,000 1,071,442 27,200 23,660,160 12,665,500	187,375 -0- -0- 10,000 269,735* 64,600 177,500 13,000 31,283 41,000 50,000 50,000 227,553 27,200* 263,840 123,993 -0-	10,000 238,500 13,000 31,283 41,000 27,200 263,840
Totals (per AWP Agreement)	\$66, 267, 396	\$64,780,317	\$1,487,079	\$789, 206 (53%)

*Funds transferred in the amounts of \$6,835 and \$4,000, respectively, from last year's projects.

ANALYSIS OF COSTS

ANNUAL WORK PROGRAM — FISCAL YEAR 1972

STATE OF Virginia (42)

Part B - FHWA

SEP Number	Total Costs	State Share	Federal Share	Federal Share to Localities
IS72-609	43,436	21,718	21,718	21,718
HD72-201	42,976,650	42,951,825	24,825	24,825
CD72-301	7,476,136	7,449,488	26,648	4, 200
PS72-401	116,218	58,109	58,109	58,109
	·			
Totals (per AWP Agreement)	\$50,612,440		\$131,300	\$108,852 (82.9%)