

COMMONWEALTH OF KENTUCKY DEPARTMENT OF TRANSPORTATION

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FRANKFORT, KENTUCKY 40601

BUREAU OF HIGHWAYS
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COMMISSIONER
November 15, 1973

WENDELL H. FORD GOVERNOR

H.3.46

MEMORANDUM TO: J. R. Harbison

State Highway Engineer

Chairman, Research Committee

SUBJECT:

Research Report No. 378; "Traffic Accident Reporting in Kentucky,"

KYP-72-46; HPR-1(9), Part III

The report attached covers a study of accident data usage and documents, in an advocative way, the need for Uniform Accident Reporting legislation and channelization of accident data.

Respectfully submitted,

Jas. H. Havens

Director of Research

JHH: dw Attachment

cc's: Research Committee

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This study reviews the organi	zational structure and processing proce	edures used in accident	
surveillance. Consideration was giv	en to the techniques that various state	governmental agencies	
use in their analysis of accident re	eports and statistics. It was concluded	that Kentucky should	
enact uniform accident reporting l	egislation. A standard form should be	prescribed for use by	
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Research Report 378

TRAFFIC ACCIDENT REPORTING IN KENTUCKY KYP-72-46, HPR-1-(9), Part III

by

Donald R. Herd Research Engineer Associate

Division of Research
Bureau of Highways
DEPARTMENT OF TRANSPORTATION
Commonwealth of Kentucky

The contents of this report reflect the views of the author who is responsible for the facts and the accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the Bureau of Highways.

This report does not constitute a standard, specification, or regulation.

INFORMATION AND BACKGROUND

Traffic deaths and injuries are rising even though accident rates, in terms of miles traveled, have subsided. Congress enacted the Highway Safety Act of 1966 and charged each state to establish and maintain a highway safety program. The purpose of this program is to decrease accident frequency and especially to reduce accidents which result in death and severe injuries.

The U.S. Secretary of Commerce was initially given the authority for implementing the Highway Safety Act of 1966. Shortly thereafter, Congress enacted legislation creating the Department of Transportation. Responsibility for the highway safety program was then shifted to the Secretary of Transportation. In order to administer the program, the National Highway Safety Agency was established; this agency is now called the National Highway Traffic Safety Administration. Each state's program must be approved by the Secretary of Transportation and must conform with uniform standards. Eighteen safety standards (1) currently in effect are related to:

- 1. motor vehicle inspection,
- 2. motor vehicle registration,
- 3. motorcycle safety,
- 4. driver education,
- 5. driver licensing,
- 6. traffic codes and laws,
- 7. traffic courts,
- 8. alcohol in relation to highway safety,
- identification and surveillance of accident locations,
- 10. traffic records,
- 11. emergency medical services,
- 12. highway design, construction, and maintenance,
- 13. traffic control devices,
- 14. pedestrian safety,
- 15. police traffic services,
- 16. accident cleanup,
- 17. pupil transportation safety, and
- 18. accident investigation and reporting.

The 1966 Act defined the role of states in implementing the safety program. The Governor is responsible for its administration, and the state is to authorize political subdivisions to conduct their own highway safety programs. These programs must be approved by the Governor and comply with the standards. Federal aid funds have been linked to the standards by Policy and Procedure Memorandum 21-16 (PPM 21-16), which directs that a program of safety projects be carried out in addition to highway construction.

Identification of factors contributing to accidents is imperative. Manufacturers of vehicles are regulated by safety standards which are continually updated to incorporate the latest proven safety features into vehicle design. States have taken steps to upgrade vehicle safety by enacting vehicle inspection laws. Improved vehicle safety may not significantly reduce frequency of accidents because of driver errors and roadway defects. However, the death rate and severity of injuries might be affected measurably. It may be debated whether the driver or the roadway is the principal cause of accidents. Even though a driver may cause an accident, some highway features may increase its severity. Selective police enforcement at high accident locations tends to encourage drivers to behave cautiously. Driver problems may be improved through education and periodic reexamination, but these may not exert as much influence as increased enforcement. If increased severity can be attributed to roadway features, then it is imperative to correct hazardous locations and improve highway design.

Success of a highway safety program depends upon the identification and analysis of problem locations. Analysis is accomplished by professional judgement, and accurate analysis must include an analysis of accident histories. Accident statistics and histories are of value only when the reporting is comprehensive and complete. When identification procedures are applied on a statewide basis, the capability should exist to analyze accident histories for large numbers of locations. The task can be accomplished most efficiently by utilizing a computerized accident records system.

The study reported herein issued from the highway safety program and addresses the need for uniform reporting and processing of accident records. Both the Divisions of Traffic and Planning have responsibilities in that area, and the Division of Research frequently analyzes accident records to discover causes and relationships. In the past, each division has handled records separately, with some duplication of efforts. If accident data were handled by a single agency, greater efficiency might result.

Extensive discussions were held with representatives from both the Divisions of Traffic and Planning concerning records maintenance techniques and accident data needs. There was also consultation with the Division of State Police, Department of Public Safety. Close contact was maintained with the Joint Committee for Uniform Accident Reporting (JCUAR). This ad hoc committee designed a uniform accident report form and advocates enabling legislation. Letters of inquiry were sent to other states to gain information concerning accident reporting.

PRESENT REPORTING PROCEDURES

Kentucky does not require uniform reporting from police jurisdictions investigating accidents. Uniform reporting refers to the procedure of reporting all traffic accidents to a central agency for processing on a statewide basis. Motorist involved in accidents wherein total property damage is \$200 or more must submit written reports to the Department of Public Safety (2). Similarly, fatal accidents investigated by a police officer must be reported to the Department of Public Safety. Those reports and ones completed by the Kentucky State Police are processed centrally by the Department of Public Safety. Many urban, non-fatal accidents may be reported (by local police agencies) and processed only on the local level. Motorists' reports may be biased when compared to police reports. Consequently, motorists' reports are of little value to an engineer except to indicate that an accident occurred. Some have even suggested that motorists' reports be eliminated and that police investigate all accidents regardless of damage (3). Lack of complete accident reporting handicaps the highway safety effort.

Local authorities may pinpoint trouble spots in their areas because local accident reports are readily available to them. The statewide highway improvement program, however, suffers because urban area reports are not readily available to the state planning agency. Therefore, it would be helpful if all accident reports were forwarded to a central processing agency.

The Department of Public Safety is responsible for central processing of accident reports submitted by motorists, State Police, and local police (fatal accidents only). The proceeding 10-year trend for accidents is shown in Figure 1. Projected accident estimates for 1975 and 1980 are 112,000 and 138,000 respectively. Figure 2 compares total accidents and police-investigated accidents for the same 10-year period. Total number of accidents was determined from the number of motorists' reports filed each year; police-investigated accidents included State Police reported accidents and fatal reports only. Police-investigated accidents are those that are now centrally processed. If all police accident reports were centrally filed, the work load of central processing would nearly triple.

CURRENT PROCESSING PROCEDURES

KENTUCKY

Accident records are handled separately by each state agency. All are dependent on the Department of Public Safety for basic information. Agencies requiring

accident data are:

- A. Department of Transportation
 - 1. Bureau of Highways
 - a. Division of Traffic
 - b. Division of Planning
 - c. Division of Research
 - 2. Bureau of Vehicle Regulation
- B. Department of Public Safety, Division of State
- C. Department of Health.

Each uses the data differently and some are dependent upon others for additional information.

Figure 3 traces the accident record processing from completion of the report through use of information by each agency. When an accident occurs, usually a policeman is called to investigate. If the investigating officer is a state policeman, his report is reviewed at the local post and then transmitted to the Department of Public Safety and reviewed in Central Records. Fatal accident reports from the other police agencies and reports from the motorists are also received. Name cards are prepared and the reports are forwarded to the Bureau of Highways, Division of Planning, where milepost numbers and highway system codes are added. When returned to Public Safety, the reports are coded, keypunched, and microfilmed. Information from punched cards of police and motorists' reports are transferred to magnetic tapes. Summaries and reports are issued. Beginning in 1972, an annual report including accident summaries is published by Public Safety. A copy of the magnetic tape containing State Police and fatal accident reports is forwarded to the Department of Transportation.

In the Department of Transportation, the tape is used as a source for the creation of a 24-month, on-line file. Both the Bureau of Highways and Bureau of Vehicle Regulation are interested in this information. Presently, only the Bureau of Highways makes extensive use of the files. The Division of Traffic uses the on-line file to identify high accident locations in an attempt to determine hazardous locations. A monthly listing is obtained of high accident locations, defined as a 0.1-mile section of roadway where one fatality and(or) three accidents occurred in the preceeding 12 months. Traffic Division central office and district engineers carefully screen all accident rpeorts for these locations. If from this analysis it is believed that the site has some roadway deficiencies, then a field inspection is conducted. Field inspections are performed by a multidisciplinary team composed of traffic and maintenance engineers and police personnel. Afterwards, the team will formulate recommendations, which in many cases results in minor highway improvement of the location. According to Agent (4), improvements of high accident locations can be credited with a 25-percent reduction in accidents; benefit-cost ratios are generally greater than 1.0.

The Division of Planning uses accident data to determine where and on what types of facilities accidents are occurring. The source of that information is the accident reports forwarded from the State Police. Table TA-l is prepared for the Federal Highway Administration and a publication titled **Kentucky Fatal Accident Facts** is issued. Figure 4 is a copy of TA-l for 1971. This report summarizes mileage, travel, and accidents according to highway system.

The Division of Research obtains a duplicate of the Department of Transportation accident tape. Accident information is used in conjunction with various research activities such as evaluation of high accident location improvement programs and establishing relationships between accidents and skid resistance of pavements (Standard 12). Accident records are considered indispensable.

The Department of Health requires information regarding location of traffic accidents to comply with Standard 11 for concentrating emergency medical services near dangerous locations. The Bureau of Vehicle Regulation require accident records for driver licensing purposes.

OTHER STATES

In some states, computerization of accident records is the responsibility of a single governmental agency. In others, various agencies are involved in accident report processing and computerization. Many states have completed traffic records systems, as defined by Standard 10, while others merely maintain accident files. Most agree that roadway inventory and traffic volumes are necessary inputs to accident records analysis. Illinois' accident records system is a good model. That system is outlined briefly in APPENDIX A.

Table 1 summarizes the status of other states with respect to uniform reporting. In 45 states, investigating officers are required to file reports of accidents with a central agency. Georgia does not require uniform reporting but does obtain reports on a voluntary basis. Maryland and Illinois receive uniform reports from all jurisdictions except their largest city. Kentucky and Mississippi do not have uniform reporting. It is apparent that 39 states utilize a uniform report form, while seven do not. Four states failed to respond.

SUGGESTED REPORTING PROCEDURES

In March 1973, the Joint Committee for Uniform Accident Reporting (JCUAR), composed of policemen

and engineers, was formed. JCUAR's purpose is to secure passage of legislation requiring investigating officers to file uniform reports with a central agency. The committee's first task was to devise a uniform traffic collision report form for use by all law enforcement agencies. The recommended form is shown in Figure 5. The form is currently being used on an experimental basis by the Lexington Metropolitan Police Department.

Uniform reporting of all traffic accidents would:

- provide a larger data base for identifying accident causes and would cover a wider variety of driving conditions,
- 2. provide accident data from all areas of the state and, therefore, would assist in identification of high accident locations,
- 3. assist in evaluation of new and existing traffic control devices,
- provide local governmental jurisdictions with periodic computer printouts and summaries of accident data and thereby assist in their highway safety efforts,
- 5. achieve compliance with federal accident reporting requirements, and
- provide an atmosphere for more accurate reporting with appropriate training of police officers (the Traffic Institute at Eastern Kentucky University is suited for this task).

Problems might include:

- The work load of central processing will increase because the number of police reports would nearly triple.
- Local authorities may oppose uniform reporting fearing that more time will be required for completing and duplicating reports and sending them to central processing.
- 3. It will also require training of investigators. The Traffic Institute plans to provide such training whether or not uniform accident reporting legislation is adopted.

The agency designated to collect and process accident information, referred to here as the Accident Records Unit (ARU), would be responsible for meeting all needs of state government for accident statistics. Governmental agencies requiring ARU services might include:

- Department of Public Safety, Division of State Police -- summary reports.
- 2. Department of Transportation, Bureau of Highways, Division of Planning -- Table TA-1 (FHWA), fatal accidents facts book, etc.
- 3. Department of Transportation, Bureau of Highways, Division of Traffic -- assist in the highway improvement program, listings of

3

high accident locations, programs for setting priorities for hazardous location improvements. Other listings such as accidents at railroad crossings, etc., might be useful.

- Department of Transportation, Bureau of Highways, Division of Research -- aid in correlation of accidents with various highway design elements or parameters, etc.
- Department of Transportation, Bureau of Vehicle Regulation, Division of Driver Licensing -- financial responsibility data (if a financial responsibility law is passed).
- 6. Department of Health accident concentration listings to aid in assignment of emergency medical services.

The ARU would also be responsible for providing political subdivisions with information on concentration of accidents, for example, listing of accidents per street, at intersections, etc., within their jurisdictions.

With uniform accident reporting and creation of ARU, accident reports may flow as shown in Figure 6. Officers' reports would be reviewed locally and then forwarded to the ARU for review. Motorists' reports would arrive by mail. The ARU would check milepost numbers or assign them if they are not on the report and add highway system codes. Reports would then be coded, keypunched, and microfilmed. Information would then be loaded into an on-line accident records file within a central computer facility from which information may be extracted for use by various agencies.

Careful consideration should be given to the method of referencing accident locations. In rural areas, the milepost scheme would be adequate. For urban areas, however, a referencing system must be selected and implemented. The milepost system could be extended into the urban areas by mileposting each street. Another approach would be to index streets and intersections in each urban area and record a measured distance from the intersection to the accident location. A third approach might involve establishment of an involved link node system for the entire state. It is recommended that the rural milepost scheme be continued and that an urban indexing technique be devised.

Besides accident reports, other inputs will be required by the ARU. Detailed, computerized roadway inventories and traffic volume files will be necessary and will need continual updating. Hazardous location identification methods, such as the rate quality control procedure preferred by Jorgenson (5), require traffic volume input. The roadway inventory could ease reporting tasks of investigating officers. ARU could determine physical features of roadway and the accident report form could be simplified.

The ARU creation and maintenance should be overseen by an Advisory Committee. This committee should be composed of individuals who have direct interests in the use of accident data. Membership may consist of:

- 1. one representative from each of the Division of Planning, Division of Traffic, and Division of Research from the Department of Transportation, Bureau of Highways,
- 2. one representative of the Division of Driver Licensing from the Department of Transportation, Bureau of Vehicle Regulation.
- 3. one representative of the Kentucky State Police,
- 4. one representative of local governments to be appointed by the Governor,
- 5. one representative to be a law enforcement officer (local) appointed by the Commissioner of Public Safety, and
- 6. one representative of the Department of Health.

The committee should give strong consideration to the needs of the ARU, such as manpower requirements. Table 2 compares the manpower now used to estimated requirements of the ARU. It was difficult to make estimates of present personnel requirements because many of the individuals charged with these responsibilities perform other functions. It must also be noted that the ARU will be handling many more reports than are now processed. Figure 7 is a suggested organization chart for the ARU, and APPENDIX B describes each individual position.

RECOMMENDATIONS

From a survey of accident reporting in other states and consideration of advantages and disadvantages of uniform accident reporting, it is recommended that:

- Kentucky adopt uniform accident reporting legislation to become effective January 1, 1975. A universal accident form should be utilized. The form should contain an accident number so that police and motorist reports could be matched. The police form should duplicate itself so that officers can detach a copy for the Accident Record Unit's use.
- An Accident Records Unit, as described herein, be established.
- An advisory committee be established to coordinate the creation and operation of the ARU.
- 4. The Department of Transportation provide the ARU with computerized traffic volumes and roadway inventories that will be compatible with the location scheme adopted for use with accident records.
- Local governmental agencies receive data from ARU.

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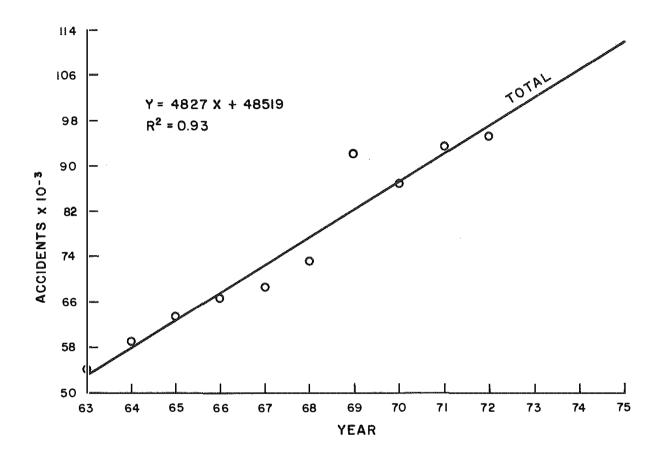


Figure 1. Accident Trend in Kentucky.

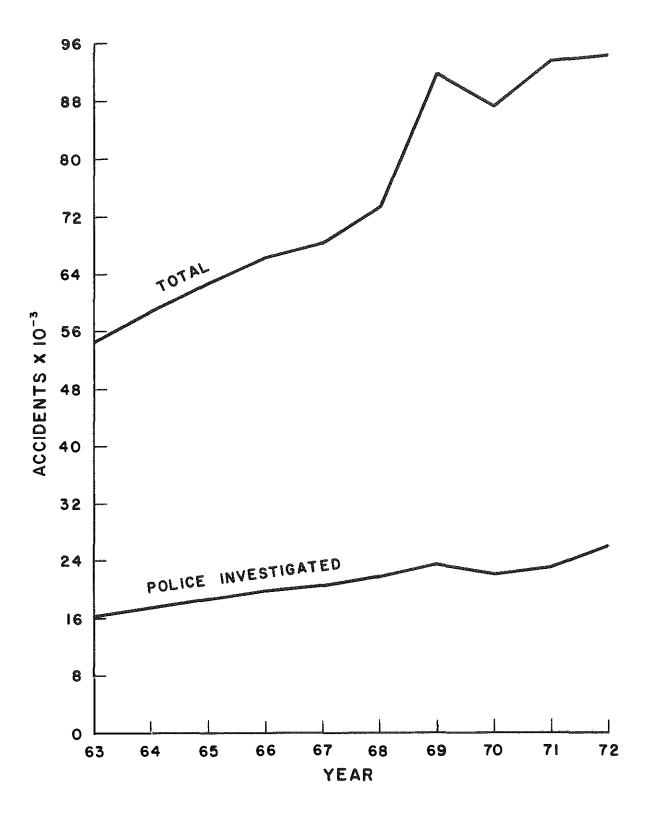


Figure 2. Total Accidents Compared to Investigated Accidents.

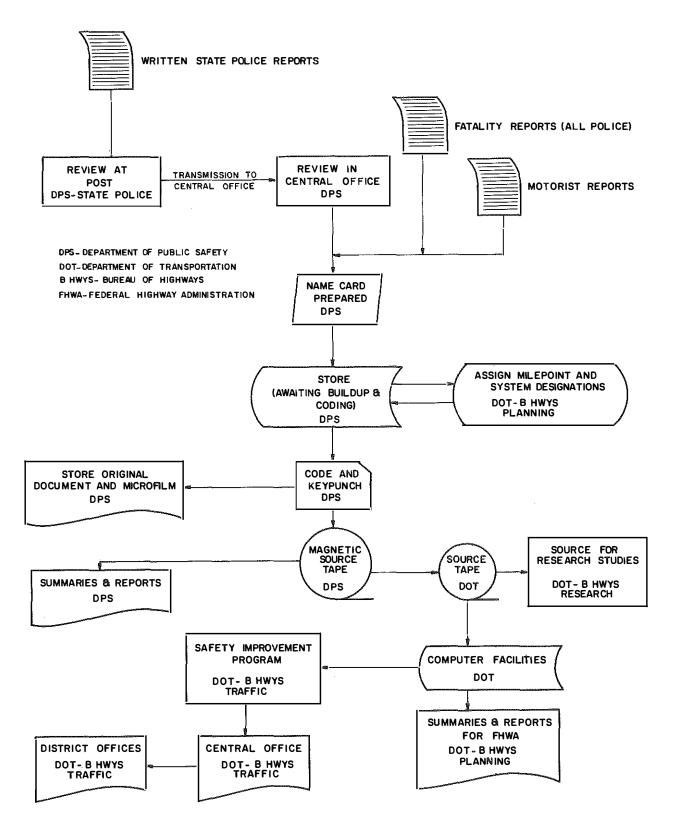


Figure 3. Current Flow of Accident Reports and Statistics.

Table TA-1 - Statewide mileage, travel, and non-fatal end fatal injury accidents, 1971

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Subtocial RAS rural* Subtocial RAS urban* 325.69 0.47 695 3.23 5.846 19 2.73 21 3.02 1,024 147.3 1,467 Subtocial RAS* 14,920.43 21.56 4.933 22.94 9.96 284 5.76 300 6.89 4,779 96.9 7.546 Subtocial RA, rural 18,578.67 26.85 11,921 55.44 1,758 596 5.00 698 3.86 8,797 73.8 14,838 Subtocial RA, urban 794.45 1.15 3,845 17.99 13,260 97 2.52 114 2.96 5,317 138.3 7,938 Subtocial RA* 19,373.22 28.00 15,766 73.33 2,230 693 4.40 812 5.15 14,114 89.5 22.706 (2011) 0 Other State rural 3/ (49.93) (0.62) (427) (1.99) (2.723) (10) (2.34) (11) (2.89) (13) (2.25) (10) (2	141 180 372 115															
Subtotal PAS*	6,059 143	8.6	88.	3,755	7.53	319	6.25	265	796	19,71	4,238	21.09	14,594.74	Subtotal FAS rural*		
Subtotal FA, rural Subtotal FA, rural Subtotal FA, urban Subtotal Orban Subtotal orban Subtotal orban Subtotal orban Subtotal I State urban or Municipal Subtotal all State urban or Municipal Subtotal I S		- 1		1					L L			l				
Subtotal FA, urban Subtotal FA* 19,373,32 28,00 15,766 73,33 2,230 693 4,40 812 5,15 14,114 89,5 22,706 09 Other State rural 3/ (7011) (7011) 10 Other State Hmicipal 4/ 341,07 (0,62) 8ubtotal eli State rural 12/ 8ubtotal eli State rural 13/ 8ubtotal eli State rural 13/ 8ubtotal eli State rural 13/ 8ubtotal eli State rural 14/ 8ubtotal eli State rural 1,096,76 1,58 4,775 8ubtotal eli State 24,938,91 35,04 17,609 81,93 81,				 									· · · · · · · · · · · · · · · · · · ·	-		
09 Other State rural 3/ (7011)	7,870 204													Subtotal FA, urban		
(7011) (499.33) (0.62) (427) (1.99) (2,725) (10) (2.34) (11) (2.58) (134) (31.4) (21.1) (2.58) (134) (31.4) (21.1) (2.58) (134) (31.4) (21.1) (2.58) (2.51)	_		+	1			_	$\overline{}$								
10 Other State Municipal 4/ 341.07 0.49 808 3.76 5.490 18 2.23 19 2.35 1.026 127.0 1.501 Subtotal other State 7,095.05 10.25 2.176 10.12 840 60 2.76 66 3.03 1.711 78.6 2.605 Subtotal all State rural 23,842.15 34.66 13.044 60.66 1.499 634 4.86 740 5.57 9.335 71.6 15.712 Subtotal all State when or Municipal 1.096.76 1.58 4.757 21.29 11.428 114 2.49 132 2.89 6.243 136.5 9.233 136.04 17.619 81.95 1.936 748 4.25 872 4.95 15.578 88.4 24.952 11 Local rural 2/ 12 Local Municipal 4/775.89 6.90 2.408 11.20 1.931 60 2.49 65 2.70 3.903 162.1 5.353 12 80 60 60 80 5.96 1.480 128.7 2.991 12 Local Municipal 5/ 4.775.89 6.90 2.408 11.20 1.931 60 2.49 65 2.70 3.903 162.1 5.353 12 80 9.433.16 57.00 1.996 6.49 9.73 5.228 80 5.05 1.667 13.83 151.3 7.747 12 12 12 12 12 12 12 12 12 12 12 12 12																
Subtotal all State rural Subtotal all State rural Subtotal all State urban or Nunicipal Subtotal all State urban or Nunicipal Subtotal all State 24,938,91 36,04 17,619 81.95 1,936 11,428 11 Local rural 24,938,91 37,942,46 54,85 1,150 5.35 88,46 24,938 11 Local Municipal Subtotal local 4,7718,99 8,900 8,	1,501 185	7.0	127.	1,026	2,35	19	2,23	18	6,490	3.76	808	0.49	341.07	10 Other State Municipal 4/		
Subtotal all State urban or Namicipal 24,938,91 36.04 17,619 81.95 1,936 748 4.25 872 4.95 15,578 88.4 24,948. 11 Local rurel 27 37,942,46 54,83 1,150 5.35 83 6,9 6.00 80 6.96 1,480 128.7 2,399 12 Local Hunicipal 9/ 4,775.89 6.90 2,408 11.20 1,381 60 2,49 65 2.70 3,903 162.1 5,354 Subtotal non-State urban or Namicipal 42,718.33 61.75 3,558 16.55 228 129 3.63 145 4.08 5,383 151.3 7,748 15.05 1	2,609 119 15,715 120												23,842,15			
11 Local rural 2/2 37,942,46 54,88 1,150 5.35 83 69 6.00 80 6.96 1,480 128.7 2,399 12 Local Municipal 5/2 4,775.89 6.90 2,408 11.20 1,381 60 2,49 65 2,70 3,903 162.1 5,350 8 8 8 8 8 8 8 8 8	9,230 201	6.5	136.	6,243			2.49	114	11,428	21.29	4,575	1,58	1,096.76	Subtotal all State urban or Municipal		
12 Local furth							4.25	748	1,936	81.95	17,619	36,04	24,938,91			
Subtotal non-State rural 39,433.16 57;00 1,395 6.49 97 73 5.28 85 6.09 1,527 116.6 2,627 Subtotal non-State urban or Municipal 4,814.65 6.96 2,486 11.56 1.415 61 2.45 66 2.65 4,003 161.0 5,499 Subtotal non-State urban or Municipal 4,814.65 6.96 2,486 11.56 1.415 61 2.45 66 2.65 4,003 161.0 5,499 Subtotal non-PA rural 44,696.44 64.61 2,518 11.71 154 111 4.41 127 5.04 2,165 85.0 145.1 8,115 Subtotal non-PA rural 5,116.96 7.39 3,216 14.96 1,722 78 2,43 84 2.61 4,929 153.3 6,857 Subtotal non-PA urban or municipal 5,116.96 7.39 3,216 14.96 1,722 78 2,43 84 2.61 4,929 153.3 6,857 Subtotal rural* 49,813.40 72.00 5,734 26.67 315 189 3.30 211 3.68 7,094 123.7 10,356 (Full control of Access)* (21.99) (0.03) (40) (0.19) (4.984) (3] (7.50) (4.100.00) (25) (62.5) (42.62 5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (4.100.00) (25) (62.5) (25) (25) (25) (25) (25) (25) (25) (2	2,391 207 5,356 222								1.381					IL LOCAL YUTAL .		
Subtotal non-State urban or Municipal 4,814.65 6.96 2,486 11.56 1.415 61 2.45 66 2.65 4,003 161.0 5,491 Subtotal non-FA rural 44,696.44 64.61 2,518 11.71 154 111 4.41 127 5.04 2,165 86.0 3,495 Subtotal non-FA rural 5,116.96 7.39 3,216 14.96 1,722 78 2.43 84 2.61 4,929 153.3 6,857 Subtotal non-FA urban or municipal 4,696.44 64.61 2,518 11.71 154 111 4.41 127 5.04 2,165 86.0 3,495 Subtotal non-FA urban or municipal 49,813.40 72.00 5,734 26.67 315 189 3.30 211 3.68 7,094 123.7 10,356 (Full control of Access)* (21.99) (0.03) (40) (0.19) (4.984) (3] (7.50) (4.10.00) (25 (62.5) 4.00 (62.5) (4.10.00) (25 (62.5) 4.00 (62.5) (4.10.00) (4	7,747 217	1.3	151.	5,383	4.08	145	3,63	129	228	16,55	3,558	61.75	42,718.35	Subtotal local		
Subtotal non-PA rural	5,497 221	1.0	161.	4,003	2,65	66	2,45	61	1,415	11.56	486 2	6.96	4,814.65			
Subtotal non-FA urban or municipal 5,116,96 7.39 3,216 14.96 1,722 78 2.43 64 2.61 4,929 153.3 6,857 Subtotal non-FA (49,813.40 72.00 5,734 26.67 315 189 3.30 211 3.68 7,094 123.7 10,356 (7011 control of Access)* 63,275.31 91.46 14,439 (67.15 625 707 4.90 825 5.71 10,962 75.9 18.337 (7011 control of Access)* 5,911.41 8.54 7,061 32.85 3,273 175 2.48 198 2.80 10,246 145.1 44,727 (7011 control of Access)* (33.92) (0.05) (448) (2.09) (36,185) (7) (1.56) (8) (1.79) (3911 (87.3) (87.3) (70.00) (8,119 209 3,499 139															
Subtotal rural* (Full control of Access)* (21.99) (0.03) (40) (0.19) (4.94) (31 (7.50) (4)(10.00) (25) (62.5) (14.72) (52.11) (62.5) (14.72) (14.72)	6,857 213	3.3	153.	4,929	2.61	84	2,43	78	1,722	14.96	3,216	7.39	5,116.96	Subtotal non-FA urban or municipal		
(Full control of Access)* (21,99) (0.03) (40) (0.19) (4,984) (3) (7.50) (4) (10.00) (25) (62.5) (4.7) (10.00) (25) (62.5) (4.7) (10.00	10,356 180	3.7	 		3,68			-		26.67	5,734	72.00	49,813.40	Subtotal non-FA		
Subtotal urbain* 5,911.41 8,14 7,061 32.85 3,273 175 2.48 198 2.80 10,246 145.1 14,727 (33.92) (0.05) (448) (2.09) (36,185) (7) (1.56) (8) (1.79) (391) (87.3) (33.96) (488) (2.28) (2.28) (2.29) (3.	18,337 127 (47) (117												63,275,31			
Total (Full control of Access)* (69,186.72 100.00 21,500 100.00 7 851 882 4.10 1,023 4.76 21,208 98.6 33,064 (55.91) (0.08) (488) (2.28) (23,913) (10 (2.05) (12) (2.46) (416 (85.2) (580 Minus 10 10 10 10 10 10 10 10 10 10 10 10 10	14,727 208	5.1	145.	10,246	2.80	198	2.48	175	3,273	32.85	7,061	8.54	5,911.41	Subtotal urban*		
Companies	533)(119) 153,064															
Vehicles registered, thousands Annual miles per vehicle Motor fuel, million gallone Gallone per vehicle Motor fuel, million gallone Gallone per vehicle 1,859 1,859 1,850 1,859 1,610 871 Per thousand Vehicles Population, thousands Licensed drivers, thousande Licensed drivers, thousande Licensed drivers, thousande Licensed drivers, percent population Persons per vehicle 1,620 1,	(580) (118		1	1		'								(Full control of Access)*		
Annual miles per vehicle Notor fuel, million gallone						Rates								Related data for 1971		
Hotor fuel, million gallone Gallons per vehicle Milee traveled per gallon Population, thousands Licensed drivers, thousande Licensed drivers, percent population Persons per vehicle 1,619 871 Per thousand vehicles 1,28 Per thousand 0,474 Per thousand 0,269 Population 0,269 Population 0,269 0,312 0,312 0,46 0,07	153,8			98.6		4.76		.10		Per 100 vehicle	l E:			Vehicles registered, thousands Annual miles per vehicle		
Miles traveled per gallon 13,28 vehicles										1	1,619			Motor fuel, million gallone		
Population, thousands Licensed drivers, thousande Licensed drivers, precent population Licensed drivers, precent population Licensed drivers, precent population 1,626 49,34 1.77 1.77 1.77 1.77 1.77 1.77 1.77 1.7	17.79			11,41		.550		474						Gallons per vehicle Milee traveled per gellon		
Licensed drivers, chousands Licensed drivers, percent population 1.77 Persons per vehicle 1.000 1.000 0.87	10.07			6 4.4		310		260			3,282					
Persons per vehicle	20.07			0,40		1216		-05	on y	populati	49.54			Licensed drivers, thousande		
														Persons per vehicle		
Annual travel per capita, mites 6,551 Per thousand									sand	Per thou	6,551					
Travel per licensed driver, miles 11censed drivers 0,542 0,629 13.04 20.35	20,33			13.04		.629	•	542		licensed	12 212					
cludes 12.02 mf. on 1-264 in Status Group 2 2/Federal Aid Urban-14.71 mi44 million vehicle mi. 2/Federal Aid Urban-6,70 mi19 million vehicle mi. 2/Federal Aid Urban-6,70 mi95 million vehicle mi. 2/Federal Aid Urban-6,70 mi95 million vehicle miles 5/Urban Type II-47.12 mi95 million vehicle miles 5/Urba	ion vehicle	m 1 11	119 m	n-8,70 m	id Urba	ral A	5/Fede	m1.	lon vehicle	1 -66 mf 11	-14 71 -	id Urban	IJ _{Federal} A	cludes 3.40 mi. on I-65 in Status Group 2		

Figure 4. Example of FHWA TA-1 Summary Report.

COMMONWE	EALTH O	F KENT	UCKY	,	
N.C.I.C. NO.	CE TRAFFIC C	OLLISION RE	PORT	PAG	E 0F
DATE OF COLLISION DAY COUNTY	TIME (USE 240		REAR END	TURNIN	G FROM WRONG
MO. DAY YR.	,	1 A 550	TURNING FROM OPPOSING LANE RIGHT ANGLE	LANE OTHER	
Z SECTOR / BEAT RESIDENTIAL DINDUSTRIAL BUSINESS SCHOOL	L □PARK □RURAL	m	·		
MILES S E W IN OF		2			
D	ECTING WITH STREET OR	ROAD UNO.		■NO. №	RITY
BETWEEN DISTANCE AND DIRECTION FROM REFERENCE, CROSS STREE MILES S OF OFF	T OR MILEPOST	STREET HM.P.		PROP	NJURED ERTY DAMAGE EHIGLE DISABLING DAMAGE
MOTOR VEHICLE VS:MOTOR VEHICLEPEDESTE	RIAN RAILROAI	TRAINOTHE	R OBJECT		FUNCTIONAL DAMAGE
TOTAL NO, OF PARKED VEHICLE BICYCLIS VEHICLES FIXED OBJECT ANIMAL	ST RAN OFF	·	- COLLISION		OTHER DAMAGE NO DAMAGE
OBJECT STRUCK (NAME OF OBJECT STRUCK AND OR	WNER'S NAME)	LOCATION		STRUCK N S E	W OF RD. EDGE
DRIVER'S NAME - LAST FIRST MI	IDDLE DRIVER'S	NAME - LAST	FIRST		MIDDLE
PRESENT STREET ADDRESS	PRESEN	STREET ADDRESS			· · · · · · · · · · · · · · · · · · ·
CITY STATE ZIP CODE	PHONE NO. CITY		ATE	ZIP COD	E PHONE NO.
OPERATOR'S NO. / S. S. NO. STATE SEX DATE OF	BIRTH AGE Z OPERATO	R'S NO. / S.S. NO.	STATE	SEX DATE C	F BIRTH AGE
OCCUPATION BUSINESS ADDRESS	PHONE OCCUPATION	ION BUSINE	SS ADDRESS		PHONE
CODES (3) CLASS (4) SEAT BELTS (5) EJE	ECTION COL	FLOT GLASS	(4) SEAT	BELTS (5) E	JECTION
NATURE OF INJURIES	NATURE INJURIE	S			
FROM SCENE BY: TO VEH. YEAR MAKE MODEL STYLE	FROM	CENE BY:	TO	JSTYLE	
VEH. COLOR LIC. PLATE NO. STATE / YR. TRAILER PLATE NO.	Bears	LOR LIC. PLATE NO.	_		NO, STATE / YR
TOWED BY TAKEN TO	TOWED		TAKEN TO		
REGISTERED OWNER LAST FIRST	MIDOLE - W REGISTE	ED DWNER - LAST		FIRST	MIDDLE
ADDRESS OF OWNER	ADDRESS	OF OWNER			
NAME AND ADDRESS OF INSURANCE CO. OR AGENT	NAME A	ND ADDRESS OF INSUR	ANCE CO. OR	AGENT	
CHARGE CITATION NO.	ENFORCEMENT O	HARGE		CITA	TION NO.
NAME, ADDRESS & INJURIES OF PERSO			CODES	2 2	3 4 5
NAME	DOB		SEX AGE STATE	IN VEH SEAT	NJ. SEAT CLASS BELT EJECT.
ADDRESS			-		
MATURE OF	REMOVED FROM		1	0	<u> </u>
NAME	DOB		<u> </u>		
ADDRESS NATURE OF	REMOVED FROM		<u> </u>		
NATURE OF INJURIES	SCENE BY		<u> </u>	TO I	
ADDRESS			1		
NATURE OF CHINDERIES	REMOVED FROM SCENE BY		1 1 1	10	k 1 l
NAME	DOB				
ADDRESS NATURE OF INJURIES	IREMOVED FROM				
	SCENE BY	SI	(4) SEAT BI	TO	ECTION
3. PEDESTRIAN 4. 1 (BUS - MOTORCYCLE) 4. BICYCLIST 7. 5. 2. 9. POSITION UNKNOWN	I, NO. INJURY 2. DEAD AT SCENE	5. DISABLING INJURY 6. NON-DISABLING (EVIDENT) INJURY 7. POSSIBLE INJURY	1. NOT INSTAL 2. NOT IN US 3. IN USE 4. UNKNOWN	LED I. NOT E 2. TOTA 3. PART	EJECTED LLLY EJECTED JALLY EJECTED OWN IF EJECTED
5. OTHER 6. WITNESS	, old in nostrial		5. FAILED	4. SIRRIY	

Figure 5. JCUAR Police Collision Report.

INSTRUCTIONS: 2. SHADE AREA OF MOST SEVERE IMPACT 3. DRAW ARROW (S) TO SHOW PRINCIPAL DIRECTION OF FORCE. (1) 10 9 8
(ii) io 9 8
DAMAGED VEHICLE NO. (USE THIS SPACE FOR SKETCHING DAMAGE TO) DAMAGED VEHICLE NO. 2
2 3 4 5 15.8000
FRONT 13 14 15 REAR 15. TRUNK
12 10 9 8 17 OVERTIEN
INDICATE NORTH SY ARROW
ASSISSING APPENUATIONS
OFFICER'S OBSERVATIONS
·
POSITION BEFORE COLLISION ON STREET OR HIGHWAY TOWARD NO. OF THRU POSTED! ADVIS LEGALLY WAS VEH.
NO. N S F W INCREASING DECREASING LANES IN ONE DIRECTION DISCRETION
2 NOVING OR STORED OR STREET OR HIGHWAY FROM (N.E. CORNER TO S.E. CORNER) OR (E. TOW) PEDESTRIAN OR CROSSING STREET OR HIGHWAY FROM N.E. CORNER TO S.E. CORNER) OR (E. TOW)
PEDESTRIAN WAS USING: I. SIDEWALK 2. WALKWAY 3. SHOULDER 4. MARKED CROSSWALK 5. UNMARKED CROSSWALK 6. OTHERS
ROAD WEATHER ROAD CHARACTER LIGHT CONDITIONS CONTRIBUTING CIRCUMSTANCES VEHICLE CONDITION (CHECK ONE) (CHECK ONE)
ICHECK TWO) DRIVER DRIVER VEHICLE
II DRY II CLEAR II C CLEVEL II DAWN II C ALCOHOIN BROSE OF 18 C CLOSSILY TOO II C DEFECTIVE BRAKES
2 WET 2 RAINING 2 ON GRADE DUSK 2 APPARENTLY ASLEEP 9 WRONG SIDE OF 2 UPFECTIVE HEADCIGHTS
2 WET 2 RAINING 2 ON GRADE 2 DUSK 2 APPARENTLY ASLEEP 9 WRONG SIDE OF 2 DUSK 1 OF THE PRODUCT
2
2 WET 2 RAINING 2 ON GRADE 2 DASK STREET 2 DASK STREET CIGHTS ON CONTROL BY C
2 MET 2 RAINING 2 ON GRADE 3 SOON GRADE 3 SO
2
WET 2 RAINING 2 ON GRADE 3 SNOWING 3 ON GRADE 3 SNOWING 3 ON GRADE 3 ON GRADE 3 SNOWING 3 ON GRADE 3
2
2
2
2
2
2
2 MET 2 RAINING 3 ON GRADE 3 ON GRADE 3 OARK—STREET 1 OARK—STREET

Figure 5. (continued)

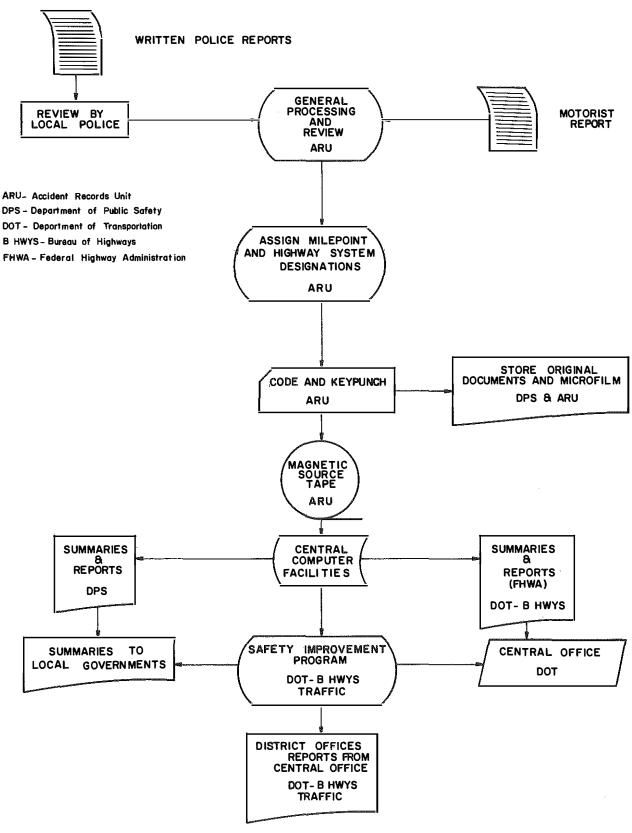


Figure 6. Proposed Flow of Accident Reports and Statistics (with Uniform Accident Reporting).

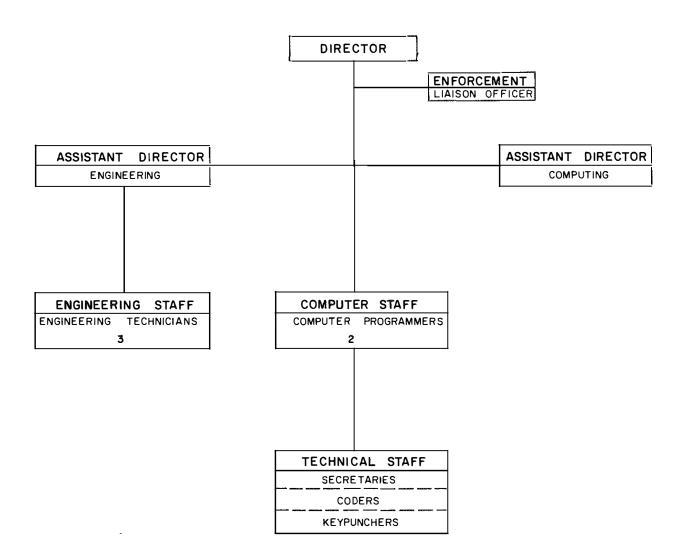


Figure 7. Accident Records Unit Organization Chart.

TABLE 1
SUMMARY OF REPORTING IN OTHER STATES

Alaska Alabama Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii	Yes Yes Yes Yes Yes	Yes Yes	10 days	·
Arizona Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii	Yes Yes			
Arkansas California Colorado Connecticut Delaware Florida Georgia Hawaii	Yes	W.	24 hours	
California Colorado Connecticut Delaware Florida Georgia Hawaii		Yes	10 days	
Colorado Connecticut Delaware Florida Georgia Hawaii	Vac	Yes	10 days	
Connecticut Delaware Florida Georgia Hawaii	1 62	Yes		
Delaware Florida Georgia Hawaii	Yes	Yes	5 days	
Florida Georgia Hawaii	Yes	Yes	5 days	
Georgia Hawaii	Yes	Yes		
Hawaii	Yes	Yes	10 days	
	No	No		Uniform reporting on a voluntary basis
* 1 1	Yes	Yes	10 days	Honolulu Form used throughout
Idaho	Yes	No	10 days	One jurisdiction does not use form
Illinois	No	No	10 days	Uniform reporting except for Chicago
Indiana	Yes	Yes	10 days	
Iowa	Yes	Yes	10 days	
Kansas	Yes	Yes	5 days	
Kentucky	No	No		
Louisiana	Yes	?	6 days	
Maine	Yes	Yes	48 hours	
Maryland	No	No		Uniform reporting except for Baltimore
Massachusetts	Yes	Yes	15 days	
Michigan	Yes	Yes	10 days	
Minnesota	Yes	Yes		
Mississippi	No	No		
Missouri	Yes	Yes		
Montana	Yes	Yes	10 days	
Nebraska	Yes	?	10 days	
Nevada	Yes	Yes	10 days	
New Hampshire	Yes	Yes	10 days	
New Jersey	Yes	Yes	10 days	
New York	Yes	Yes	10 1	
New Mexico	Yes	Yes	10 days	
North Carolina	Yes	Yes	24 hours	
North Dakota	Yes	? Vos	10 days	
Ohio	Yes	Yes	5 days	
Oklahoma	Yes	Yes	Forthwith	
Oregon	Yes	Yes	10 days	
Pennsylvania	Yes	Yes	Mana	
Rhode Island	Yes	? V	None	
South Carolina	Yes	Yes	24 hours	
South Dakota	Yes	Yes	12 hours	
Tennessee	Yes	Yes	10 days	
Texas	Yes	Yes	10 days	
Utah	Yes	Yes	10 days	
Vermont	Yes	Yes	10 days	
Virginia Washington	Yes	Yes	10 days	
Washington	Yes	Yes	10 days 10 days	
West Virginia Wyoming	Yes Yes	Yes No	10 days 10 days	All reports not on same
Wisconsin	Yes	Yes	10 days	form

TABLE 2

ACCIDENT RECORDS PERSONNEL

PRESENT		WITH ARU				
State Police		Director	1			
Computer Operator	1	Assistants	2			
Data Varifiers	5	Police Liaisons	1			
Keypunchers	1	Engineers	3			
Coders	9	Computer Programmers	2			
	1	Coders & Keypunchers	15			
DOT Bureau of Highways		Secretaries	3			
Division of Traffic]	Engineer Technicians	3			
Engineers	2					
Computer Consultant	1					
Technicians	2					
Division of Planning						
Engineer	1					
Technicians	3					
TOTAL	25		30			

APPENDIX A

THE ILLINOIS METHOD

The state of Illinois requires uniform accident reporting from all law enforcement jurisdictions with the exception of Chicago. Report forms used have matching numbers; the police report corresponds to the motorist's report. Responsibility for receiving and processing reports has been vested in the Department of Transportation. Their accident records system was established over a period of 11 months. The system has an on-line file which contains data spanning 6 months and a permanent tape storage (off-line). Illinois is in the process of converting to a milepost reference system for both rural and urban highways. The time lapse involved from the time of an accident to the completion of the permanent record is 53-60 days.

When a law enforcement officer investigates an accident, he files a report and requests the driver to complete a report bearing matching accident numbers. Both types of reports are forwarded to the Department of Transportation. As police and motorist's reports are received by the responsible unit, a skeleton file is created containing form number, name, and accident number. The reports are then placed into a paper file where motorists' and police reports are matched. After this matching, statistical data are taken from the reports and added to the skeleton file to create the accident records file.

The final function of the unit is statistical analysis of the data. Summaries are prepared and detailed accident listings are sent to municipalities. The unit also provides output summaries and listings required by all levels of state government, including the Secretary of State (driver licensing responsibility), law enforcement officials, and the Department of Transportation.

APPENDIX B

ARU PERSONNEL

Manpower required by the ARU includes:

- Director -- He will coordinate all work carried out by the unit. He should be a competent computer programmer with a working knowledge of both engineering and police needs of accident statistics. He should be an equally competent statistician.
- 2. Two Assistant Directors -- Both should have a working knowledge of programming. One should be an engineer and be responsible for engineering needs within the unit. He should be in close contact with the three divisions of the Bureau of Highways that use accident records and be aware of any innovations in the engineering application of accident statistics. He should be considered the chief engineer of the Engineering Staff.

The second Assistant Director should be a competent computer programmer and be in charge of technical aspects of the computerization functions of the unit. His job title could be Chief Programmer.

- Enforcement Liaison Officer -- He should be a policeman who would coordinate all police functions of the unit and maintain close contact with the Kentucky State Police.
- 4. Engineering Staff -- The staff should consist of two assistant or associate engineers to aid the chief engineer in his coordination of the engineering functions of the unit. Also under their direction should be three engineering technicians who would be unitized for assigning milepoint numbers and highway system codes to accident records.
- 5. Computer Staff -- The staff should consist of two competent computer programmers responsible to the Chief Programmer.
- Technical Staff -- The size of this staff should be more closely examined by the advisory committee to meet secretarial, coding, and keypunching needs.