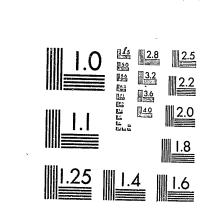
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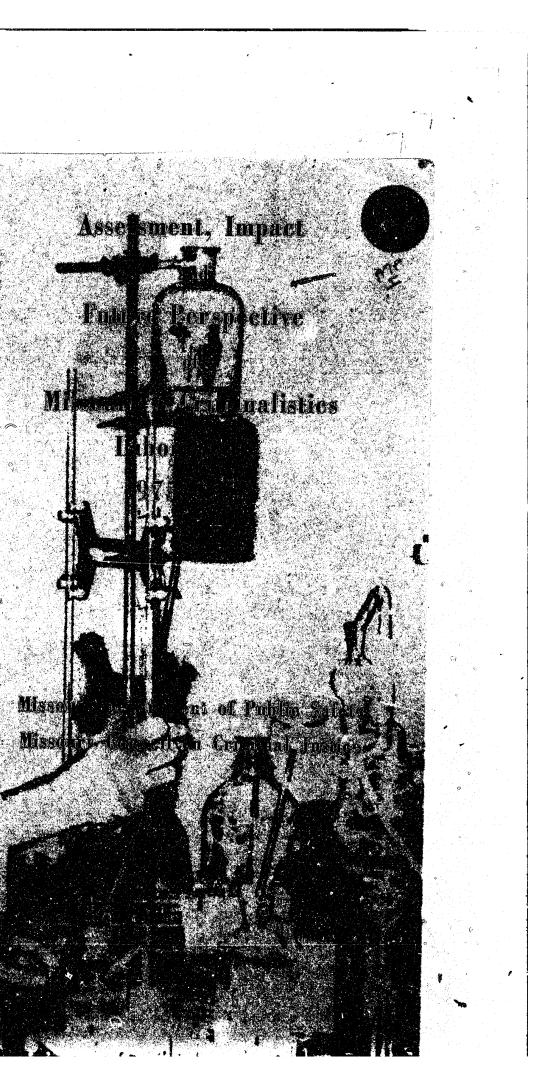
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ASSESSMENT, IMPACT, AND FUTURE PERSPECTIVE OF

MISSOURI'S CRIMINALISTICS LABORATORIES 1975-1978

> GARY P. MADDOX EVALUATOR

JOSEPH D. RYAN MCCJ EVALUATION, AUDIT, MONITORING CHIEF

Published By:

MISSOURI COUNCIL ON CRIMINAL JUSTICE 621 East Capitol, P.O. Box 1041 Jefferson City, Missouri 65102

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MCCJ Evaluation Unit

Jay Sondhi

MCCJ Executive Director

NCJRS BUL 1 1981 ACQUISITIONS An impact evaluation study is not completed by just one or two individuals. It requires the cooperation and effort of many. I would like to thank Mr. F. M. Wilson, Director of the Missouri Department of Public Safety, and Mr. Edward L. Downs and Mr. Jay Sondhi, Chairman and Executive Director of the Missouri Council on Criminal Justice, for their support of the MCCJ Evaluation Unit.

The study could not have been completed without the Directors and staffs of Missouri's Criminalistics Laboratories and we extend a special thanks to them. We also wish to thank the sheriffs, police chiefs, and prosecuting attorneys who took time from their busy schedules to complete our survey.

Finally, I wish to acknowledge the MCCJ staff, who each in their own way contributed to the development and completion of this project: John Kelly Morehead, Nola Beckham, Vicki Frame, David Rost, Michael Kerns, and Gary P. Maddox.

ACKNOWLEDGEMENTS

to yhd ayan

Moseph D. Ryan MCCJ Chief of Evaluation, Audit, Monitoring

Technical Lab. MSHP Jefferson City, MO

Satellite Lab, MSHP Macon, MO

....

Satellite Lab, MSHP Willow Springs, MO

Satellite Lab, MSHP St. Joseph, MO

Kansas City Regional Crime Lab Independence, MO . . .

St. Louis Metro Police Lab St. Louis, MO

. . . Springfield Regional Crime Lab Springfield, MO

. . . St. Louis County Crime Lab

Clayton, MO . . . MSSC Regional Crime Lab

Joplin, MO * * *

NMSU Regional Crime Lab Kirksville, MO * * *

SEMO Regional Crime Lab Cape Girardeau, MO

September 14, 1979

Gary Maddox MCCJ 621 East Capitol Jefferson City, Missouri 65101

Dear Garv:

MISSOURI

Enclosed find the response to the survey from the Missouri Association of Crime Lab Directors. We feel that this is representative of the position taken by the association from the very beginning and, as you know, has been instrumental in the success across the state.

We would like, if possible, this response to be included early in the report so as to set the stage as to the initial position of the association and all the laboratory directors involvement.

Association of Crime Laboratory Directors

Sincerel C./Briner

President

kjr

Enclosure

RESPONSE PREPARED BY MISSOURI ASSOCIATION OF CRIME LABORATORY DIRECTORS TO THE CRIME LAB EVALUATION

The Missouri Association of Crime Lab Directors (MACLD) has been in formal existance for 3 years. The group has been meeting for a total of 8 years with the primary objective of coordinating and improving the crime laboratory delivery system within the state of Missouri. It is our opinion and the opinion expressed All of the labs involved here, as a matter of fact, operated under somewhat

by many others that we have progressed toward providing law enforcement agencies within the state of Missouri with better service. It also is the position of this organization that the only function of the crime laboratory is to provide service and all activities (both technical and administrative) should be directed toward that end. With this in mind, the organization was instrumental in initiating and appreciates the evaluation of the program in an attempt to improve the system. limited funds. The maximization of these funds has been accomplished in all locations by many and varied methods. Much of the efforts of this organization were fulfilled by the passage of Senate Bill 202 which authorizes state funding for the crime laboratories. It is now our ope to continue to pursue standardization in reporting, operations, procedures, and record keeping to better evaluate the impact of the crime laboratory on the criminal justice system within the state of Missouri. These objectives are presently in the bylaws of MACLD, a state chartered ogranization and were first presented more than 8 years ago. Mush of this standardization could be accomplished by funding of the proposed crime laboratory computer grant presently before MCCJ which is to be funded from 1980 money. This is only a beginning, however, toward standardization and record keeping and makes the implementation of the program more than 2 years away.

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However, this is a beginning and represents the only possible approach for a small (2 to 4 man) laboratory; as much record keeping by hand would require additional staff personnel and the computer approach would appear to be more cost effective.

The organization has also adopted the approach that the crime laboratories within a given region be responsive to and reflective of the crime profile index of that area. That is to say, provide service only as the need arises. The primary function of the organization has been to provide a useful approach to a very diversified set of problems within the state. Much success has been accomplished; however, much more can be accomplished. The organization feels that the evaluation of the crime laboratories using the recommendations as goals is one step toward this. We feel that the cooperation reflected in this organization is not found in may states across the country and is perhaps our strongest point. We intend to use the cooperating effort of all the labs to pursue and accomplish the overall objectives of the crime laboratories which is to provide service to law enforcement agencies. And all efforts both collective and individual should be directed toward that end.

The organization has been and is committed to the upgrading of the laboratory personnel, both by cross training and interaction between all laboratories within the state. Members of MACLD and personnel have been and are involved with national organizations to continue to improve the "Missouri system."

The only standardization which the state of Missouri possesses is the Missouri Action Plan for Public Safety (MAPS). The standards of this document concerning crime laboratories were written on their entirety by this association.

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> Region I, Kansas City Region II, Springfie:

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In recent years criminalistics laboratories have become an increasingly more During their years of MCCJ support, the crime laboratories have gained the Senate Bill 202 provides for the creation of a "Missouri Crime Laboratory

integral part of the criminal justice system throughout the United States. In the State of Missouri, the Missouri Council on Criminal Justice (MCCJ) has been a prime supporter of criminalistics laboratories. MCCJ's state and regional councils have aided in the creation and development of most of Missouri's crime laboratories. increased backing of state and local elected officials and law enforcement professionals. In the 80th General Assembly, Senate Bill 202 was introduced and passed. On August 2, 1979, the bill was signed by Governor Joseph P. Teasdale. Assistance Program" to be administered by the Department of Public Safety. The bill further provides for partial or complete funding of all operational costs

incurred by Missouri's crime laboratories. (Attachment I-A)

This report is intended to be a comprehensive reference document within which is contained historical and statistical data, analytical recommendations and conclusions, and finally, a proposed model management system for all Missouri crime laboratories.

All of the criminalistics laboratories of concurn to this study are operational and are providing requested services. Most of the laboratories are still, however, in the developmental stage and, as might be expected, some problems do appear in their general management. A crime laboratory network does not exist. What does exist are twelve individual laboratories, each of which functions under a different parental organization, conducts daily business in an individualized style, and answers primarily to only the parental organization.

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VOLUME I

MISSOURI CRIMINALISTICS LABORATORIES EVALUATION STUDY

EXECUTIVE SUMMARY

Introduction

Since there are recognized laboratory standards and good management principles that can be used as an aid to develop a degree of consistency among Missouri's laboratories, and since the passing and signing of Senate Bill 202 requires the State of Missouri to assume some or all of the operating expenses of these agencies, it seems that the time is at hand to provide the guidelines which will lead to an improved overall administration of our crime laboratories.

It is the evaluator's opinion that better compliance with standards might have been expected. In all fairness to the laboratory staffs, however, they had other responsibilities such as providing crime evidence analysis. Nonetheless, the State of Missouri needs to insure uniform adherence to laboratory standards, records maintenance, overall procedural and activities documentation and accountability. The management model proposed is but one alternative; however, it does provide for an initial approach by which a response can be made to some problem areas found during the course of this study. The problem area of this study was to compose a comprehensive, in-depth overview of Missouri's criminalistics laboratories from a trilogy of perspectives including a historical observation, a review of Missouri's current laboratory status, and finally a postulation regarding the future course and the resultant directional and/or managerial considerations to be made for all crime laboratories in Missouri.

The purpose of this study was basically twofold. Primary research interest was devoted to the existing need for, the extent to which, and the options available to the State of Missouri for the development and implementation of a model management system for Missouri's criminalistics laboratories. Of additional interest was the ultimate creation of a descriptive reference treatise indicating the degree to which crime laboratories have evolved in Missouri and the consequential capabilities that exist within the state for analysis and identification of criminal evidence materials.

3

STATEMENT OF THE PROBLEM

PURPOSE OF THE STUDY

The forensic sciences have long been, and are becoming ever more so, a needed component of our criminal justice process. Since 1927, law enforcement agencies in Missouri have recognized the value and the impact that laboratory analysis and testimony on evidence can have upon case outcome. With the rise in crime rates, improved methods for committing crimes, and continually expanding court dockets, the critical need for high quality and technologically sound capabilities for evidence analysis and identification are acknowledged by all within the system. Until 1970, due possibly to the fact that laboratories have historically been an expensive and specialized type of service operation, only four laboratories

-St. Louis Police Department since 1927 -The General Headquarters of the Missouri State Highway Patrol since 1933, originally in Rolla, but now in Jefferson City -Kansas City Police Department since 1938 -St. Louis County Police Department since 1966 In 1970, with the assistance of the state and regional councils of the Missouri

The location, first year of operation, MCCJ region, and parent organization of each of the additional eight laboratories 3 as follows: -Cape Girardeau - 1970 - MCCJ Regions VI, VII, VIII - Southeast -Independence - 1972 - MCCJ Region I - Kansas City Police Department (replaced the 1938 Police Laboratory) -Joplin - 1972 - MCCJ Region IX - Missouri Southern State College -Springfield - 1972 - MCCJ Region II - Springfield Police Department -Columbia - 1973 - MCCJ Region III - University of Missouri-Columbia -Kirksville - 1975 - MCCJ Region IV - Northeast Missouri State College -Willcw Springs - 1975 - Highway Patrol Satellite at Troop G -Macon - 1977 - Highway Patrol Satellite at Troop B -St. Joseph - 1977 - Highway Patrol Satellite at Troop H

HISTORICAL OVERVIEW OF MISSOURI'S CRIMINALISTICS LABORATORIES AND SIGNIFICANCE OF THE STUDY

Council on Criminal Justice, the geographical development of crime laboratories

The support received from the Missouri Council on Criminal Justice has been a major contributing factor toward the achievement of the fact that Missouri has several criminalistics laboratories providing services to the state's user agencies. Each of the laboratories discussed in this study has received funds from MCCJ. The federal intent of the financial assistance received is that of providing start-up or seed money with the understanding that upon becoming an integral part of the system, local funding sources would assume operating expenses.

This federal intent is being met in Missouri with the passage and signing of Senate Bill 202.

The State of Missouri will thus assume all or part of the laboratories' operating expenses and the Department of Public Safety (DPS) will play a coordinating role in the disbursement of state funds. In so doing, the state and DPS will discover the laboratories to be independent agencies currently answerable only to their own parental organizations. Different procedures, policies, definitions of operational terms, staffing patterns, and equipment needs do exist in each independent laboratory setting.

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In Volumes II and III of this study the reader will find all of the information which has led to the construction of the model presented in this volume. Volume II, Chapter I, provides the reader with the study hypotheses, necessary definitions of terms, limitations of the study, basic study assumptions, and data collection procedures.

In Volume II, Chapter II, are located the previously referenced recognized laboratory standards. The chapter discusses the standards according to the level of each standard's significance to laboratory management and administration, operating procedures, and activities. Recommendations and conclusions for effecting compliance with each standard are also provided. The evaluator has further added two general response statements, one following the discussions of laboratory organization management and operations and the other following the laboratory activities information. The chapter also discusses information provided by a sample taken from Missouri's laboratory user agencies with regard to agency requirements for laboratory analysis services and laboratory capability needs as determined by the user agencies. Chapter II closes with an overall concluding statement.

Volume III of this study provides the reports completed for each of the twelve laboratories considered in this study and response comments of all individual laboratory directors who offered statements regarding the report compiled for their individual laboratories.

STUDY OVERVIEW

In this section are presented various considerations that should be addressed in a Criminalistics Laboratory Management Model.

The State of Missouri is presently serviced by twelve criminalistics laboratory facilities. The location of these facilities is geographically appropriate to meet the needs of user agencies. There does not appear to be a need for any additional laboratory facilities. (See Attachment I-B)

During the course of this study the evaluator became aware that many user agencies make use of up to five of the state's twelve criminalistics laboratories. This does not appear to be a cost efficient method. It is therefore suggested that the state be partitioned into service areas and that all user agencies be assigned to a particular primary laboratory in their respective area. (See

Most of Missouri's laboratories are not equipped to offer full service capabilities and such capabilities are not nonded on a statewide basis. The data indicates that overall, 48 percent of all analysis conducted is in the discipline of narcotics and drugs. As indicated by Table I-1, Breakdown of Major Types of Evidence Received, 88 percent of all evidence processed by Missouri's crime laboratories involves 14 case types or evidence desuriptions, most of which is chemical analysis in nature or within the scope of a limited service laboratory's capabilities. In an effort to clearly specify individual laboratory roles, it is recommended that the Missouri Criminalistics Laboratory Network consist, for the present time, of four full service laboratories, while all other laboratories remain limited service in purpose. The four laboratories of full service capability should be the following: Independence, to provide full and support service to the northwestern, western, and southwestern side of the state;

MISSOURI CRIMINALISTICS LABORATORY MANAGEMENT MODEL

EXTERNAL CONSIDERATIONS AND RECOMMENDATIONS

Laboratory Locations

User Agency Assignment

Full Service/Limited Service

Missouri State Highway Patrol Central, Jefferson City, to provide full and support services to north central, central, and south central Missouri; and St. Louis County and St. Louis City laboratories, to provide full and support services to the St. Louis metropolitan area, northeast, eastern, and southeast Missouri. All other laboratories, being limited service in purpose, would then route all evidence requiring analysis beyond their scope to their respective assigned full service support laboratories. To arrange the system in such a manner naturally calls for a definition of full service and limited service; therefore, the following definitions are recommended:

> Full Service Laboratory - A laboratory capable of, and responsible for, the analysis of all types of physical evidence including material comparisons, identification of unknowns, firearms identification and projectile comparisons, fingerprint processing utilizing both powder and chemical means, photographic processing of both black and white and color prints, identification of toolmarks and other striations. The full service analysis capabilities are to include not only complete wet laboratory services, but also complete dry laboratory services (document examination, etc.).

Limited Service Laboratory - A laboratory capable of, and responsible for, the processing of physical evidence to include material comparisons, identification of unknowns, firearms identification and projectile comparisons, fingerprint processing utilizing both powder and chemical means, photographic processing of both black and white and color prints. The limited service aboratory should be restricted to wet laboratory or chemical analysis capabilities primarily.

This arrangement should provide for a more cost efficient use of Missouri's laboratories by strengthening the highly technical areas of forensics in just a few locations rather than in all twelve laboratories, while at the same time allowing each laboratory to place more concentration on the major bulk of evidence types received and analyzed within their respective facilities. The implementation of these proposals and other corresponding details should be the responsibility of the Director of the Department of Public Safety or his assigned staff.

The mean annual average caseload for Missouri's laboratories, excluding the St. Louis City Laboratory which defines and records cases differently than the others, is 1,784 cases. Eight of the twelve laboratories handle less than 1,000 cases per year as indicated by Table I-2, Breakdown of Overall Activities and Funding Averages. This reflects that overall, the average annual caseload per laboratory analyst is 292 as shown in Table I-3, Relationship of Analysts to Activities Volume and Cost Per Case. A recommended simple formula for determining proper laboratory professional staff size then is: Total Average Annual Cases : 292 = Recommended Professional Staff Size, In applying this formula to the eleven laboratories concerned, it is found that four laboratories are potentially understaffed, five laboratories are potentially overstaffed, and two laboratories are within close range of the recommended formula. Additionally, in order to provide a common data gathering base, it is recommended that all laboratories adhere universally to the following definition of case:

The average overall turnaround time for laboratory cases was found to be 20.4 days. Obviously, different types of evidence will take more or less time to analyze; however, the data indicated that the reception of difficult types of evidence is not necessarily a good defense for higher than average turnaround time figures. (Table I-4, Comparison of Caseloads to Turnaround Time) A good example of this is the Independence Laboratory. With an average caseload of 8,905 cases, 74.2 percent of which is evidence other than narcotics and drugs, the laboratory turns out cases in the least amount of time, 6.6 days. In contrast, the Kirksville Laboratory, with an average annual caseload of 81 cases, has the highest turnaround time of 39.6 days. It is recommended that, under the direction of the laboratory system, laboratories maintain documentation of turnaround time and that adjustments be made, where necessary, in manpower and/or instrumentation so as to enable laboratories to maintain a ceiling on the average turnaround time of no more than 21 days. Furthermore, due to the inherent problem of diverse laboratory terminology definitions, it is recommended that all laboratories adhere to the following definition of turnaround time:

8

Caseload and Personnel

Case - All evidence received pertaining to one crime or occurrence.

Case Turnaround Time

Turnaround Time - The number of calendar dates that elapse between the date that evidence is submitted and the date that the completed analysis/identification report is typed or otherwise prepared for return to the submitting agency. If, instead of days, the actual turnaround time is a question of minutes or hours, it should be recorded as such.

Laboratory Nonexpendable Equipment Worth

The average worth of nonexpendable equipment per laboratory is \$143,233.00. Six of the laboratories were found to have at least \$150,000.00 worth of equipment. The data in Table I-2, Breakdown of Overall Activities and Funding Averages, indicates that there is no direct correlation between caseload size and total equipment worth. The evidence here suggests that some laboratories may be over-equipped while others may be under-equipped. The recommendation here is that equipment allocations be made according to caseload size and evidence type. This would reduce the dormant time for many specialized types of equipment on hand in laboratories that have minimal opportunities to use such equipment, thus decreasing total costs and increasing efficiency in other laboratories.

Standardized Evidence Categories and Terminologies

A major point of confusion encountered in the analysis of data regarding laboratory activities in this study involved the wide variance of evidence description labels and examination definitions. Each laboratory, excluding the four MSHP laboratories, maintains activities tota? according to their own evidence category definitions. This was found to be extremely confusing and nonuniform. Perhaps the most impressive labeling categories, in terms of comprehensive eviderice breakdowns, were found within the Independence and the St. Louis City Laboratories. It is recommended that the network of laboratories adhere to one uniform list of evidence types or labels and that all activities be documented in accordance with such labels. The suggested list, which was compiled primarily from the Independence and the St. Louis City Laboratories, is as follows:

- 1. Accident (auto)
- 2. Arson (liquids and solids)
- 3. Assault (aggravated)
- 4. Assault (common)
- 5. Auto Theft
- 6. Blood

Bomb Threats 9. 10. Bullets & Shells 11. Burglary 12. Carrying a Concea Weapon 13. Destruction of Pr & Vandalism Death Investigati 14. 15. Documents 16. Driving While Int 17. Exhibitionism 18. Firearms 19. Forgery 20. Fraud Gambling 21. 22. Hit & Run Accider 23. Homicide 24. Incest 25. Kidnap 26. Larceny 27. Latent Fingerprints 28. Liquor & Beer 29. Marijuana

8.

This should eliminate any confusion regarding comparative laboratory statistics. In addition, to provide a universal reference for terminologies, it is recommended that all network laboratories adhere to the following definitions for evidence and examination:

> Evidence - Any property of a physical nature that is submitted to the laboratory for analysis or identification.

Examination - The arrival at one positive statement about the evidence from having conducted one or a series of tests.

Of critical importance to the question of the administration and management of a Missouri Crime Laboratory System is that of costs. Between 1975 and 1978, Missouri's crime laboratories expended an approximate total of \$6,085,190.00. Presently, the approximate average annual dollar total for operating all laboratories is \$1,521,298.00. It is important to note that these figures represent non-inflationary dollars and that such costs as rental space, utilities, janitorial, maintenance, etc., are included only within the annual budget of the Independence Laboratory. The contention of this evaluator is that if the State of

Blood Alcohol	30.	Misdemeanors
Bombs & Incendiaries	31.	Missing Persons
Bomb Threats	32.	Molestation
Bullets & Shells	33.	Narcotics & Drugs
Burglary	34.	Other Sex
Carrying a Concealed	35.	Polygraph
Weapon	36.	Powder & Gunshot Residue
Destruction of Property	37.	Prostitution
& Vandalism	38.	Rape
Death Investigation	39.	Recovered Property
Documents	40.	Robbery
Driving While Intoxicated	41.	Shooting
Exhibitionism	42.	Sodomy
Firearms	43.	Suicide
Forgery	44.	Theft From Auto
Fraud	45.	Trace Evidence
Gambling		a. Fibers
Hit & Run Accident		b. Glass
Homicide		c. Hair
Incest		d. Metal
Kidnap		e. Paint
Larceny		f. Soil
Latent Fingerprints		g. Other

Laboratory Costs

Missouri is to assume the responsibility for administering and managing the crime laboratory network, then more representative figures for annual laboratory budgets should be provided. Therefore, for the eleven laboratories where rent, utilities, and other expenses were not provided, the following formula was applied to determine the projected annual budgets indicated in Table I-2, Breakdown of Overall Activities and Funding Averages:

(x) + (x)

x = Total laboratory square footage

- \$6.00 = Average rental costs per square foot per year in Missouri State Buildings
- \$0.90 = Average utilities cost per square foot per year in Missouri State Buildings
- \$0.60 = Average janitorial costs per square foot per year in Missouri State Buildings

The results, indicated in Table I-2, reveal that the projected non-inflationary total annual laboratory system costs would be approximately \$1,657,728.00. This figure is inclusive of staff salaries, equipment purchases, limited maintenance, travel, supplies, rental space, and utilities. Further information regarding the comparative analysis of Missouri's crime laboratories may be found by referring to the following tables:

> Table I-5 - Average Annual Expenditures Per Laboratory v. Average Cases Received Annually

This table indicates an understandably positive correlation between average costs per laboratory and caseload size.

> Table I-6 - Relationship of Average Annual Expenditures and Total FTE to Average Cases Received Annually

This table indicates the degree of correlation between total budgets, staff size, and work output. For the most part, it is clear that all three are directly proportionate; however, there is some concern regarding dollar investment and work output in the Cape Girardeau and the MSHP Troop B Laboratories. High dollar investment in return for comparatively low work output is, as previously mentioned, adverse to cost efficiency and should be regarded as a substantial argument favoring outside control of the laboratory system.

Table I-7 - Comparison of Individual Laboratory Expenditures, Equipment Worth, and FTE

This table offers a simple means by which one laboratory's overall resources might be compared equally to the resources found in other laboratories.

MISSOURI DEPARTMENT OF PUBLIC SAFETY ADMINISTRATIVE INTERNAL CONSIDERATIONS AND RECOMMENDATIONS

I. the fundamental control of a laboratory network.

Recommendation 1:

Recommendation 2:

General guidelines covering the operation of Missouri's crime laboratories II. and their relationship to the Department of Public Safety should be established prior to the disbursement of any General Revenue funds.

Recommendation:

General administrative responsibility has been placed under the Director of Public Safety. The Director should be afforded the discretion to assemble the necessary DPS agency, council, or committee whose immediate responsibility will be that of developing, monitoring, and maintaining

> A staff member of the Department of Public Safety, or one of its agencies, be given the prime staff responsibility of implementing and coordinating the necessary activities to insure compliance with recognized standards. Further, that the staff develop, implement, and coordinate the means by which state funds are requested and disbursed and that services are reported. The procedures and forms used by the Missouri Council on Criminal Justice, Forms MCCJ D-1 and MCCJ PCL-1 are examples of forms that could be used (Attachments I-D and I+E). Both forms should be submitted at the time of drawdown requests.

An advisory committee be established to insure proper compliance and coordination. The committee should be composed of a cross-section of laboratory users and laboratory directors. The committee chairman and the aforementioned DPS staff should work closely together and both report to the Director of Public Safety.

Assigned DPS coordinator should develop all necessary operational procedures to be implemented upon approval of advisory committee and DPS Director.

III. There will be an on-going need to monitor the fiscal, operational, and administrative functioning of the laboratories to insure proper use of State General Revenue funds.

Recommendation:

The assigned DPS coordinator should monitor each laboratory's fiscal, operational, and administrative activities on, at a minimum, a semi-annual basis. All reports should be maintained in the DPS office.

GENERAL CONCLUSION TO MANAGEMENT MODEL CONSIDERATIONS

The information contained within this volume addresses the very specific components of Missouri's crime laboratories that must be considered when attempting to effect a network of uniform crime laboratories. The recommendations, or ultimate variations thereof, which were provided with respect to each of these areas are critically important to the reasonable implementation of a sound, well-planned, and efficiently productive management model.

Narcotic and Drug Law Firearms, Toolmarks, (and Carrying a Conce Burglary and Fingerpri Traffic Accident and H Liquor Law Violations Arson Driving While Intoxica Trace Evidence (Paint,

Metal, Putty, Dust, Blood, Urine, and Toxi Homicide and Rape Assault (Aggravaded and Death Investigation Larceny

Robbery

14

TABLE I-1

BREAKDOWN OF MAJOR TYPES EVIDENCE RECEIVED IN ALL LABORATORIES 1975-1978

Violations	47.92%
Gunshot Residue, ealed Weapon	9.84%
ints	5.10%
lit & Run	4.30%
	3.66%
	3.44%
ted	2,90%
Hair, Fiber, Glass, etc.)	2.58%
cology	2,31%
	1.60%
d Common)	1.29%
	1.14%
	1.05%
	0,56%
	87.69%

TABLE 1-2

BREAKDOWN OF OVERALL ACTIVITIES AND FUNDING AVERAGES

	Average Cases Annually 1975-1978	Average Examinations Annually 1975-1978	Average Annual Mileage 1975-1978	Average Annual Court Appearances 1975-1978	Average Turnaround Time In Days	Total Full Time Employees	Approximate Nonexpendable Equipment Worth	Approximate Expenditures 1975-1978	Approximate Average Annual Expenditures 1975-1978	Projected Com- plete Annual Operating Expenses	MCCJ Funds Provided 1975-1978
Independence	8,864 .	24,728	Not Available	232 (Avg Annual Hours)	6.6 1-1-77/ 12-31-78	19	\$155,000	\$1,719,913	\$ 429,978	\$ 429,978	\$ 466,869.00
5pringfield	750	Not Available	Not Available	Not Available	17.4 (1977-78)	. 3	200,000	211,413	52,855	60,203	163,505.00
University of Mo Columbia	225	3,273	Not Available	20	27.8 4-1-78/ 12-31-78	1	200,000	151,181	37, 395	51,295	134,380.00
NEMSU Kirksville	81	484	Not Available	Not Available	39.6	0	3 1 ,000	Not Calculable	Not Calculable	11,250 (rent, utilities, janitorial only)	7,500.00
St. Louis County	5,497	33,300	207 (1977-78)	225	30.2 (1977-78)	10	83,000	624,000	156,000	177,547	84,758.00
SEMO Cape Girardeau	752 *	2,181 *	Not Available	33	12.3 (1977-78)	3	250,000	497,081	124,270	136,520	259,734.00
MSSC Joplin	743	2,469	Not Available	57	11.1 (1977-78)	o	94,500	176,570	44,142	55,392	148,569,00
MSHF Central Jefferson City	1,984	55,098	67,200 (1977-78)	195	18.7 (1977-78)	15	341,000	1,075,584	268,896	283,896	199,166,00
MSHP Troop B Macon	78 (10-77/12-78)	657 (10-77/12-78)	2,910 (10-77/12-78)	7 (10-77/12-78)	19.0 (10-77/6-78)	2	50,000	169,264	42,316	46,816	120,016.00
MSHP Troop G Willow Springs	- 285	4,418	9,318	59	24.5 (1977-78)	2	84,500	60,635	15,159	19,044	4,557,00
MSHP Troop H St. Joseph	329 (1977-78)	3,284 (1977-78)	4,759 (1977-78)	38 (1977-78)	13.3 (1977-78)	3	50,600	183,373	45,843	51,093	98,672.00
St. Louis City	15,957	Not Available	Not Available	455	Not Calculable	22	179,200	1,216,176	304,044	334,644	56,905.00
TOTALS	35, 545	129,890	84,394	1,321	20.04	80	\$1,718,800	\$6,085,190	\$1,521,298	\$1,657,728	\$1,744,631.00

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* July - December,)978 figures not included

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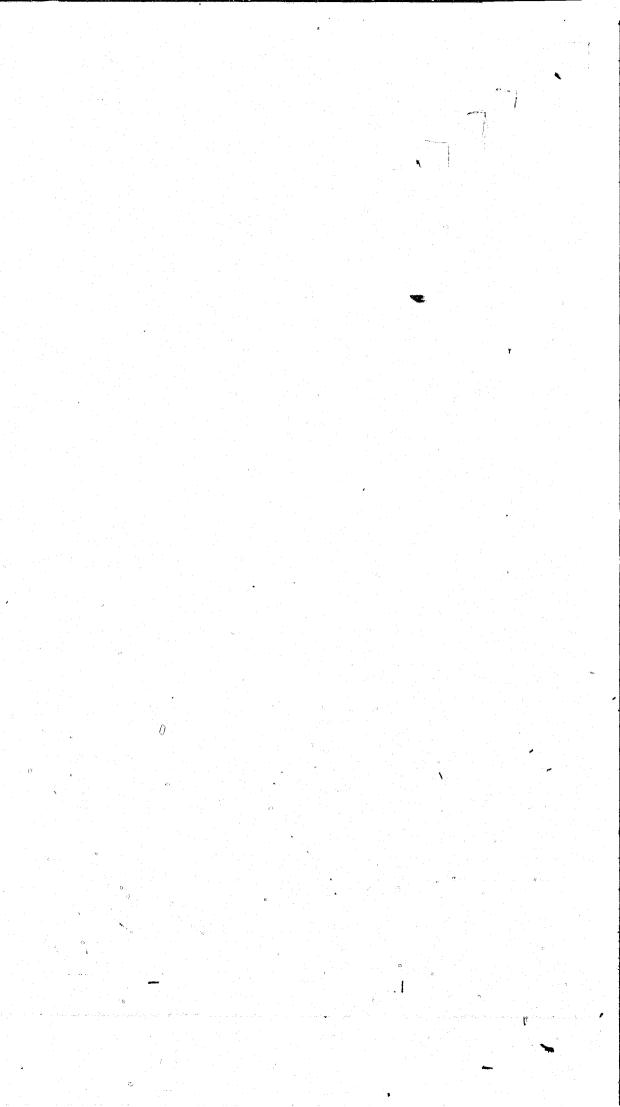
TABLE I-3

RELATIONSHIP OF ANALYSTS TO ACTIVITIES VOLUME AND COST PER CASE

	Total Professional Positions of Analyst	00000 101	Average Cost Per Case Received
Independence Springfield Univ of Mo-Columbia	12 FTE 2 FTE 1 FTE	742.08 375.00 112.50	\$ 52.32 70.47 152.25
Kirksville St. Louis County	l PTE 2 PTE 9 FTE	40.50	N.C.*
SEMO, Cape Girardeau MSSC, Joplin	2 FTE 1 FTE 2 PTE	376.00 247.66	32.90 145.94 60.30
MSHP Central MSHP Troop B	2 FTE 11 FTE 1 FTE	180.36 78.00	135.53 337.91
MSHP Troop G MSHP Troop H	1 FTE 2 FTE	285.00 164.50	53.18 127.08
St. Louis City	13 FTE 1 PTE	1,139.00	18.66
AVERAGE TOTALS	5	362.61	\$107.86
FTE = Full Time Equivalent PTE = Part Time Equivalent		Excluding St. Louis City	\$ 86.08 Less MSHP Troop B

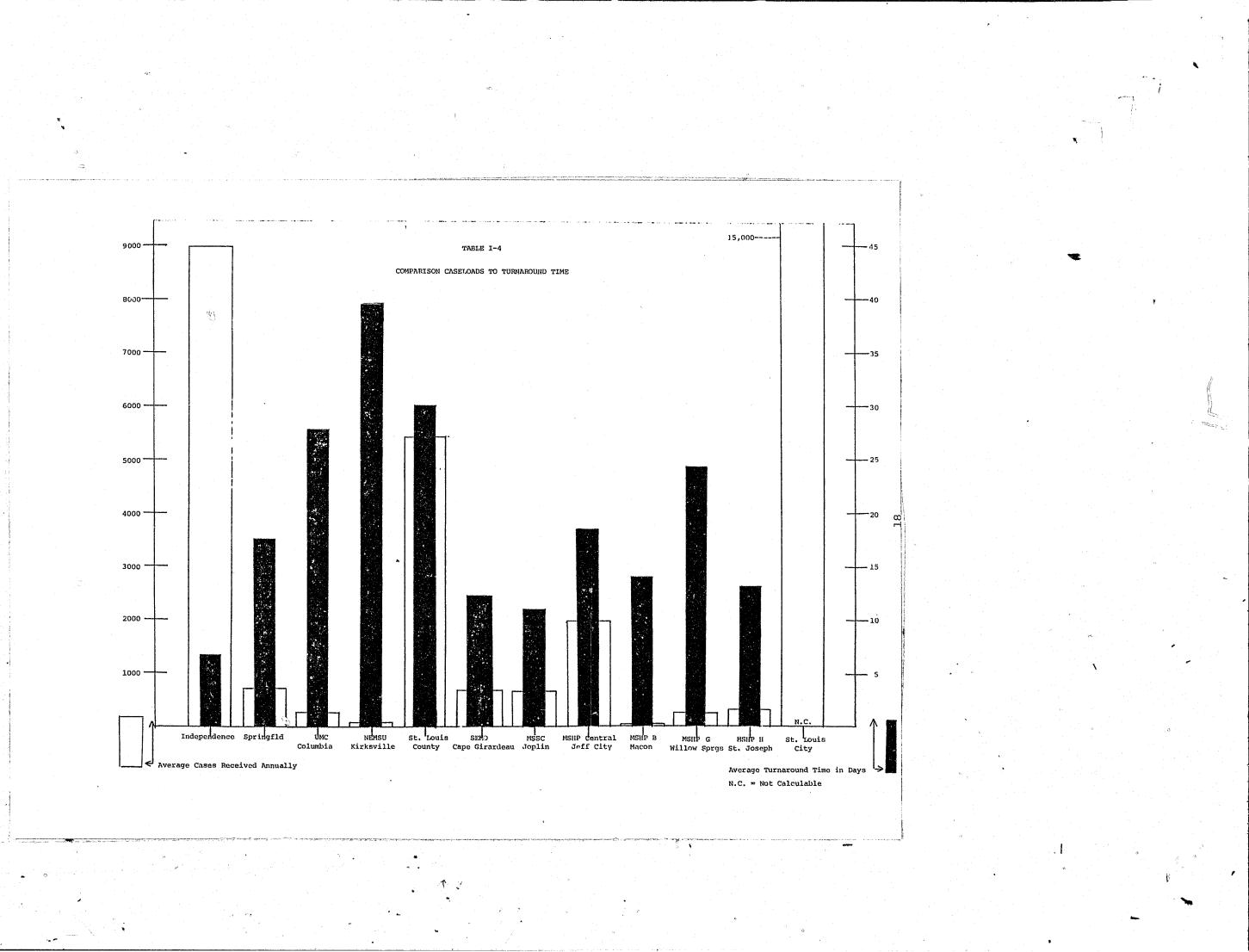
*N.C. = Not Calculable

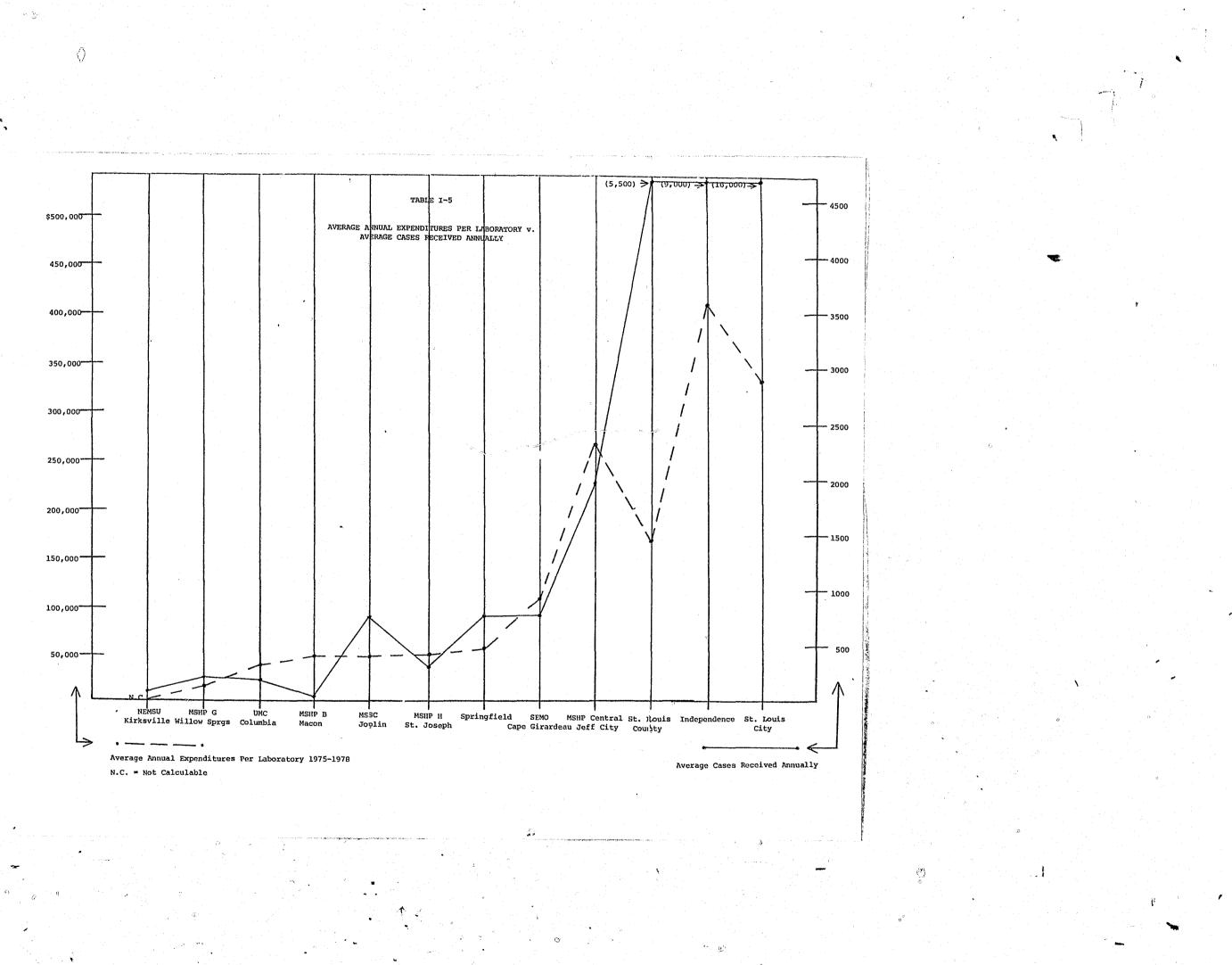
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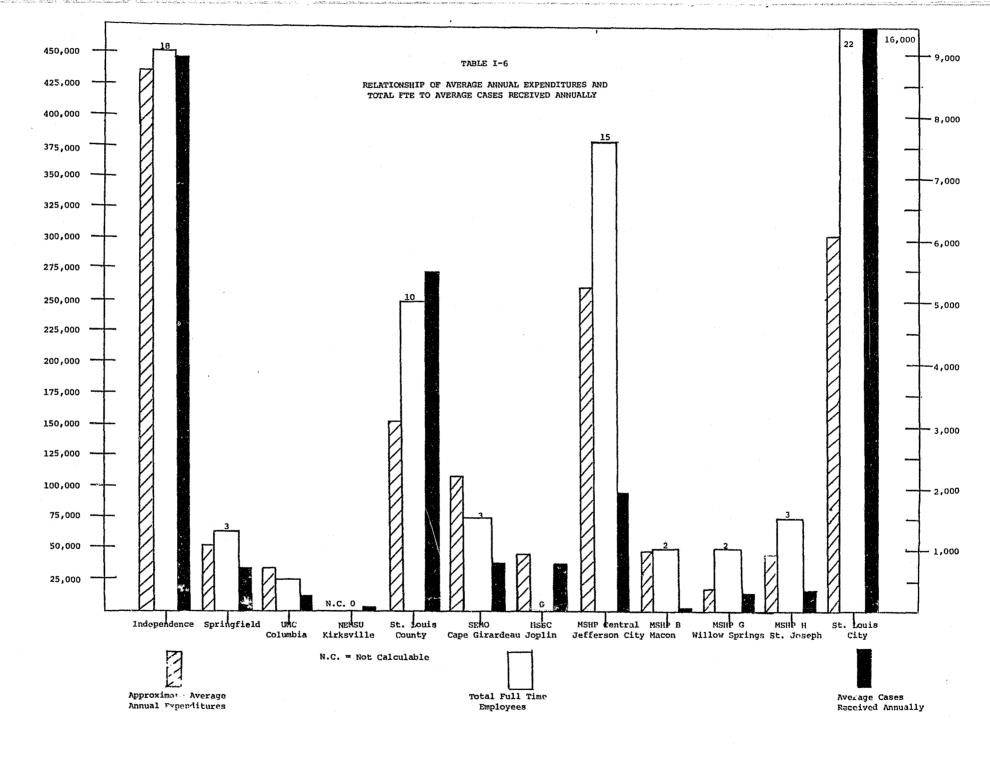


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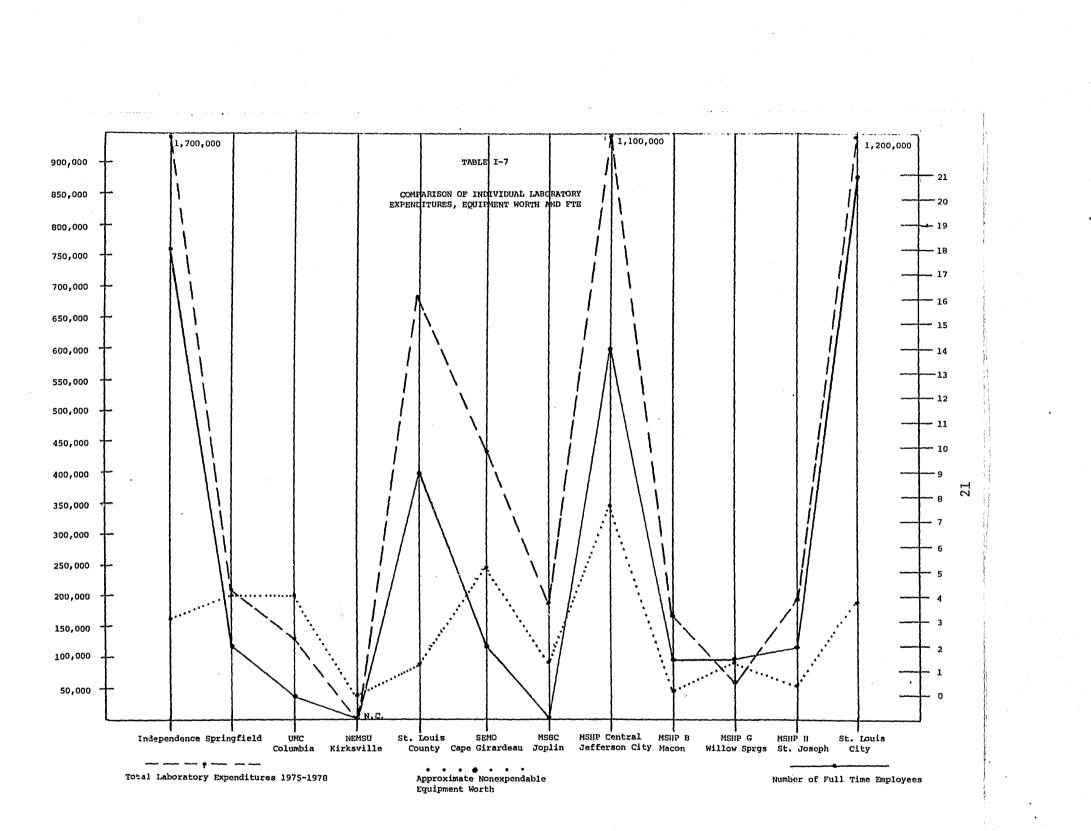




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N.C. = Not Calculable

3 context: 4 6 7 8 lic Safety; 9 10 federal government.

ATTACHMENT I-A

FIRST REGULAR SESSION SENATE BILL NO. 202

80TH GENERAL ASSEMBLY

INTRODUCED BY SENATORS BRADSHAW, DENNIS, AND MERRELL. Pre-filed December 1, 1978, and 1,000 copies ordered printed.

VINITA E. RAMSEY, Secretary.

AN ACT

Relating to Missouri crime laboratories.

Be it enacted by the General Assembly of the State of Missouri, as follows: Section 1. The following , rds shall have the following 2 meanings unless a different meaning clearly appears from the

(1) "Crime Laboratories" means those crime laboratories 5 established to serve given regions of the state as determined by the Department of Public Safety.

(2) "Department" means the Missouri Department of Pub-

(3) "Local funds" means any funds not provided by the

Section 2. There is hereby created the "Missouri Crime 2 Laboratory Assistance Program" within the Department of Pub-3 lic Safety. The purpose of this program is to provide state finan-

S. B. 202

2

4 cial assistance to defray all or part of the operational costs in-5 curred by crime laboratories.

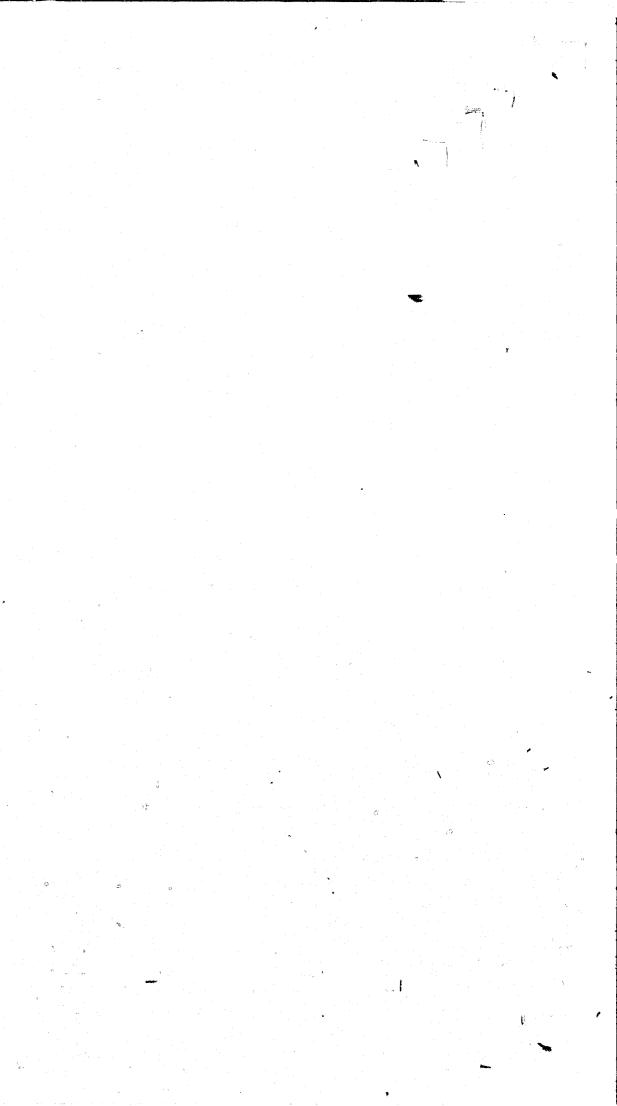
Section 3. Funds for this program shall be appropriated 2 to the Department.

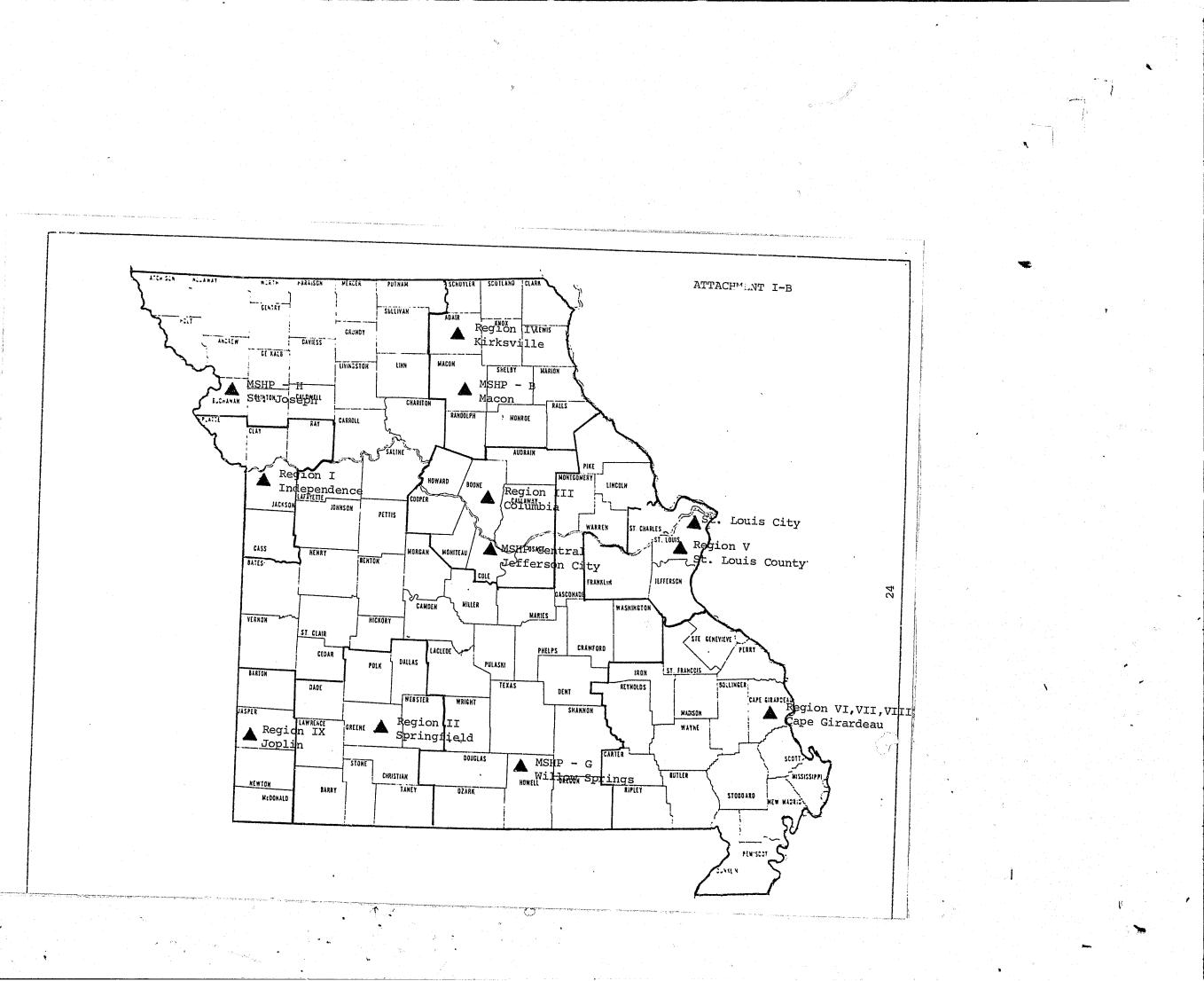
Section 4. Distribution of these state funds shall be by contractual arrangement between the Department and each respective laboratory providing the service. Terms of the contract shall be negotiable each year. The state auditor shall audit from

5 time to time all crime laboratories receiving state funds.

Section 5. Nothing in this act shall prohibit any crime 2 laboratory from receiving federal or local funds should such 3 funds become available.

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CRIME LABORATORY USERS INDEX

Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
Adair Co Coroner							F			x		
Adair Co Sheriff							G	x				
Advance P.D.				x			U					
Air Force Intelligence			x				R E					
Albany P.D.							S					x
Alcohol Safety Action	x						N					
Altamont, KS, P.D.						x	0					
Amazonia City P.D.							<u>T</u>					x
Anderson P.D.						x	P					
Andrew Co Sheriff	x						R O					
Annapolis P.D.				x			V					
Arnold P.D.		x					— I D					
Ash Grove P.D.					x		Е					
Ashland P.D.		x				1	D					
Atchison Co Sheriff												x
Audrain Co Coroner		x				i						
Aurora P.D.					x	x						
Auxvasse P.D.	[x			
Ava P.D.									x		x	
Avondale P.D.	x											
Barry Co Bd of P & P					x							
Barry Co Sheriff					x							
Barton Co Sheriff						x						
Bates Co Sheriff	[×						
Baxter Sprgs, KS, P.D.	1			1		x						
Belton P.D.	x								1			
Berkley P.D.		x										

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Collected from UMC Columbia Independe**nce** laboratory records, this list indicates the agencies that each laboratory has served. AGENCY Bernie P.D. Bethany P.D. Bismarck P.D. Blue Springs P.D. х Bolivar P.D. Bollinger Co Coroner Bollinger Co Sheriff Boone Co Pros Atty x Ponne Terre P.C. Boonville P.D. x Bourbon Co, KS, Sheriff Bourbon P.D. Breckenridge Hills P.D. х Bridgeton P.D. х Brookfield P.D. Buchanan Co Sheriff х Buckner P.D. x Buffalo P.D. Butler Co Coroner Butler Co Sheriff х Butler P.D. x Cabool P.D. Caldwell Co Sheriff х California P.D. Callaway Co Sheriff x Camden Co Sheriff x Camdenton P.D.

ATTACHMENT I-C

CRIME LABORATORY USERS INDEX

THE	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Losis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
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. CRIME LABORATORY USERS INDEX

Collected from laboratory records, this list indicates tha agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	Joseph
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Cape Girardeau P D.		x		x			N					<u> </u>
Carl Junction P.D.						x	0					<u> </u>
Carroll Co Sheriff	x						<u>T</u>				x	
Carter Co Coroner							P				x	
Carter Co Sheriff							R		x		×	<u> </u>
Carterville P.D.						x	V					
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Caruthersville P.D.				x	· ·		E					<u> </u>
Cass Co Sheriff	x						Ð					
Cassville P.D.					x	x					kanati Aldaratape	
Cedar Co Coroner										-	x	
Cedar Co Sheriff					x	x						
Center P.D.			x									
Centralia P.D.		x										
Chaffee P.D.				x								
Chariton Co Coroner		Í								x		
Chariton Co Sheriff										x		
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Chillicothe P.D.						x			x			x

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Collected from UMC Columbia Independence laboratory records, this list indicates the agencies that each laboratory has served. AGENCY Christian Co Sheriff Clarence P.D. Clark Co Coroner Clay Co Invest Squad х Clay Co Juv Ct X Clay Co Med Examiner x Claycomo P.D. x Clay Co Pros Atty х Clay Co Sheriff x Clayton Fire Marshal Clever P.D. Clinton Co Sheriff х Cole Co Sheriff х Columbia P.D. x Columbus, KS, P.D. Commerce, OK, P.D. Concordia P.D. х Cooper Co Pros Atty х Crawford Co Cir Ct Crawford Co, KS, Sheriff Dade Co Sheriff Dallas Co Sheriff Daviess Co Sheriff x DEA No Central Lab х DEA SW Reg Lab х DeKalb Co Sheriff х Dent Co Sheriff

MSHP Troop St. Joseph

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ATTACHMENT I-C

CRIME LABORATORY USERS INDEX

St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
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CRIME LABORATORY USERS INDEX

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De Soto P.D.xFxxDexter P.D.xGIDiamond P.D.xVRSpringfield Medical LabxEIDr. Quinn-ButlerxSIDouglas Co CoronerxNxDouglas Co SheriffIOxDouglas Co SheriffIOxDouglas Co SheriffIIODrug Enf AdminxXPDrug Enf AdminxXPDrug Enf Admin-Task Forp xIODenweg P.D.XVDunAlin Co CoronerXVDunAlin Co SheriffXEEldon P.D.XIEldon P.D.XXEldon P.D.XXEldor P.D.XIEldor P.D.XIElington P.D.XIElington P.D.XIEric, KS, P.D.XIExcelsior Springs P.D.XIFarmington P.D.XIFarmington P.D.XIFarmington P.D.XIFarmington P.D.XIFederal Prison SystemXIFire DepartmentsIXFire DepartmentsII	Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	Jefferson City	Macon	Willow Springs	MSHP Troop H St. Joseph
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Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
Flat River P.D.				x			F		x			
Florissant P.D.		x					E G					
Florissant Valley Coll			x				U			,		
Fordland Honor Camp					x		R E					
Ft. Leavenworth, KS	x						S					
Ft. Scott, KS, Fire Dep	 C					x	N					
Ft. Scott, KS, P.D.						x	0					
Franklin Co Sheriff		x	x				T					
Franklin P.D.			x				P					
Fredricktown P.D.	***************************************		-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	x			- R - 0					
Freedonia, KS, P.D.						x	V					
Fulton P.D.		x					– I D		x			
Galena,KS, P.D.			- 4			x	E					
Gallatin P.D.					<u></u>		Ð					x
Garden City P.D.	x											
Gentry Co Sheriff							- <u></u>					x
Gerald P.D.							······		x			
Girard, KS, P.D.						x			+			
Gladstone P.D.	x											
Golden City P.D.						x						
Goodman P.D.					*****	x				~~~		
Grandview P.D.	x											
Green City P.D.									x			
Greene Co Coroner											x	
Greene Co Sheriff	х	x			x	x					x	
Greenfield P.D.					x							
Greenwood P.D.	x								·			

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. CRIME LABORATORY USERS INDEX

Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSEP Central Jefferson City		MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
Jackson Co Med Exam	x		~				F					I
Jackson Co Prosecutor	x						<u>+</u>					a namena a sun C. Tai Ann
Jackson Co Public Def	X						G U					and the subscription of th
Jackson Co Sheriff	 X	x					R					and American Constrant
Jackson P.D.				x			ES					
Jasper Co Coroner						x				-		an a
							<u>N</u> 0					
Jasper Co Juv Office						x	<u>T</u>					
Jasper Co Prosecutor						x	P		ant an gritten at the			
Jasper Co Sheriff				ļ		x				a an an inclusion of the second		
Jasper P.D.						x	0					
Jefferson City P.D.		x		ļ			V I		x			
Jefferson Co Sheriff			x				D					
Johnson Co City/Co Inve	5 X						E D					
Johnson Co, KS, Sheriff	x					!						
Johnson Co Sheriff	х											
Joplin Health Dept		1		1		x					¥	a a
Joplin Juv Ct						x						1
Joplin P.D.	h.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		1	[x	<u> </u>			Çari anadanası İ]	And the second sec
Joplin Water Works		<u> </u>				x	1	<u> </u>				
Junction, KS, P.D.						x	<u> </u>	1			1	
Juvenile Offices		1		1		1		1	X			X
K.C. Correc Inst	x	1	<u> </u>	1		1	1	1			1.1.51/#5399899 AP	
K.C. Fire Dept	x	1		1	<u> </u>	1	 	1	<u> </u>		**************************************	alanan meneran S
K.C., KS, P.D.	x	1		1	<u> </u>	1	1	1	 		1	1
K.C. Liquor Control	x	1									1	1
K.C., MO, P.D.	x	-	<u> </u>	+		1	1	1	1		1	1
Kansas Highway Patrol	x	1	<u> </u>	+		x		<u> </u>		1	<u>+</u>	1

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Grundy Co Sheriff	x						F					_x
Hannibal Juv Office							I G			x		
Hannibal P.D.							Ŭ	x	x	x		
Harrison Co Sheriff							- R E					x
Harrisonville P.D.	x						S					
Hartville P.D.							N				х	
Hayti P.D.				x			0]
Hermann P.D.			1				<u>T</u>		x			
H ckory Co Sheriff					x		P				x	
Hillsboro P.D.							R O		x			
Holden P.D.							V		x			
Holt Co Sheriff	x						T D					x
Houston P.D.							E		x		x	
Howard Co Sheriff		x			ni at Canala ng Prasta		Ð					
Howell Co Coroner			يېنى بىكىنىپ يېزىر			Í					x	
Howell Co Juv Office	1										x	
Howell Co Prob/Parole											x	
Howell Co Sheriff									x		x	
Huntsville P.D.								x	x			
Illmo P.D.				x	,							
Independence P.D.	x	x			•••••••••						· · ·	
Internal Revenue Serv	x						,) 					
Iron Co Coroner				x								
Iron Co Sheriff		x		x							-	
Ironton P.D.				x								
Jackson Co Jail	x											
Jackson Co Juv Court	x											

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Independence

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Collected from

AGENCY

Lincoln Univ, Jeff City

Livingston Co Sheriff

Licking P.D.

Linn P.D.

Macon P.D.

Malden P.D.

Mansfield P.D. Maries Co Coroner Maries Co Juv Office Marion Co Sheriff

Marshall P.D.

Metro Squad

Marshfield P.D. Maryville P.D.

McDonald Co Coroner McDonald Co Sheriff Mercer Co Sheriff Metro Drug Squad

Mexico Dept of Pub Safety

Miami Co, KS, Sheriff

Miller Co Sheriff

Madison Co Sheriff

Linn Co Coroner

Louisiana P.D. Lowry City P.D. Macon Co Coroner Macon Co Juv Office

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Kearney P.D.	x						F					
Kennett P.D.				x			Ğ		x			
Keytesville P.D.						-	U R	x				
Kickapoo Juv Office					x		E					
Kirksville P.D.							S	x	x	x		
Knox Co Sheriff							N	x		x		
LaBette Co, KS, Sheriff						х	0					
Laclede Co Sheriff		x			x		T					
I uDue P.D.							P		x			
Lafayette Co Sheriff	x						R O					
Lake Lotawana P.D.	x						V					
Lake Ozark P.D.							D		x			
Lake Lapawingo P.D.	x						E					
Lake Waukomis P.D.	x						┣╼╼╼┣					
Lake Winnebago P.D.	x	1				[
Lamar P.D.	1					x			x			
LaPlata P.D.							 			x		
Lathrop P.D.		1										х
Lawrence Co Prosecutor		1				x						
Lawrence Co Sheriff		1		1	x	x						· · · ·
Lawrence, KS, P.D.	x	1										
Leadwood P.D.		1		x								
Lebanon P.D.		1							x			
Lee's Summit P.D.	x	x										
Lenexa, KS, P.D.	x	1		1								
Liberal P.D.		1				x	 					
Liberty P.D.	x	1								1		

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UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jeffer on City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
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Collected from MSHP Troop G Willow Springs MSHP Trcop St. Joseph NEMSU Kirksville SEMO Cape St. st. Joplin MSHP Central Jefferson City Independence Columbia Springfield S laboratory records, ŝ con this list indicates Louis Louis the agencies that each Troop Girardeau laboratory has served. County city В Η AGENCY \mathbf{F} Miner P.D. x Mississippi Co Coroner G x U Mississippi Co Sheriff х х Missouri Atty General \mathbf{E} х S Mo Boat Patrol x Mo Bureau of Narcotics & Dangerous Drugs х Ν 0 Mo Conservation Dept х x х х Mo Dept of Revenue х P Mo Div of Corrections х х Mo Div of Family Serv х 0 V Mo Div of Health х Mo Div of Insurance х D Mo Div of Liquor Control x E х х х х х MSSC Security x Mo State Fire Marshal х x x х х х x х MSHP-GHQ х х MSHP Troop A х х MSHP Troop B х х х MSHP Troop C \mathbf{x} х x MSHP Troop D х х х х х MSHP Troop E х х х х MSHP Troop F х х MSHP Troop G х х х MSHP Troop H х MSHP Troop I X x х Mo State Prob/Parole х х х х х х Mo State Water Patrol х х х

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CRIME LABORATORY USERS INDEX

Collected from UMC Columbia Independence laboratory records, this list indicates the agencies that each laboratory has served. AGENCY Mo Western College Security Moberly P.D. Monett P.D. х Monroe City P.D. Monroe Co Sheriff Montgomery City P.D. Montgomery Co Sheriff x Mountain Grove P.D. Mountain View P.D. Mt. Vernon P.D. National Park Service Naval Intelligence NEMSU Safety & Security Neosho P.D. Nevada P.D. Newburg P.D. New Madrid Co Coroner New Madrid Co Sheriff New Madrid P.D. Newton Co Coroner Newton Co Juv Officer Newton Co Sheriff Nixa P.D. Nodaway Co Sheriff х Noel P.D. North K.C. P.D. х Northmoor P.D. х

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St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Josefh
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Collected from MSHP Central Jefferson City MSHP Troop G Willow Springs MSHP Troop H St. Joseph MSSC Joplin NEMSU Kirksville St. S t SEMO Cape Springfield Macon Columbia Independence laboratory records, this list indicates Louis Louis Girardeau the agencies that each Тгоор В laboratory has served. County City AGENCY F Odessa P.D. х Oran P.D. G x U Oregon Co Coroner x Oregon Co Sheriff Е х х S Oronogo P.D. х Osage Beach P.D. х Ν 0 Osage Bend P.D. х Osteopathic Hosp (Ind) x P O'wego, KS, P.D. х Overland Park, KS, P.D. х 0 V Overland P.D. х Ozark Co Coroner D х Е Ozark Co Pros Atty х Ozark Co Sheriff x х Ozark Nat'l Scenic Waterways х Ozark P.D. х Pacific P.D. х Palmyra P.D. х х х Parkville P.D. x Parma P.D. х Parsons, KS, P.D. x Pemiscot Co Sheriff x x Perry Co Sheriff Perry P.D. х Perryville P.D. х Pettis Co Sheriff x х Phelps Co Juv Off

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Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
Phelps Co Memorial Hosp		x					F					
Phelps Co Pub Defender							Ğ		x			
Phelps Co Sheriff							U R		x		x	
Piedmont P.D.				x			E					
Pittsburg, KS, P.D.						x	S					
Platte City P.D.	x						N					
Platte Co Juv Ct	x						0 					
Platte Co Sheriff	x											
Platte Woods P.D.	x						P 					
Pleasant Hill P.D.	x						0					
Pleasant Valley P.D.	х						V ——I					
Polk Co Sheriff					x		D					
Poplar Bluff P.D.		x		х			E					-
Portageville P.D.				x								
Potosi P.D.						1			x			
Prairie Village, KS, P.	D.X											
Princeton P.D.]		x	<u> </u>		
Private Atty-Hannibal								x		<u> </u>		
Private Atty-Keytesvill	9							x				
Private Police Agency	x											
Public Defender	x											
Pulaski Co Sheriff		x										
Putnam Co Sheriff		1								x		
Quincy P.D.			x									
Randolph Co Coroner										x		
Randolph Co P.D.								x				
Ray Co Sheriff	x											

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Independence

													Cuerco - 17.5			
Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Trocp G Willow Springs				Collected from laboratory records, this list indicates the agencies that eac laboratory has served AGENCY	
Raymore P.D.	x						F								St. Louis City P.D.	
Raytown P.D.	x						Ğ								St. Louis Co Fire Mars	shal
Region I Crime Lab		x					U								St. Louis Co P.D.	
Region II Lab					x	x	E R				x			•	St. Peters P.D.	
Region III Narcotics					, x		S								St. Robert P.D.	
Reg Cntr Criminal Just	x					1	N		[Salem P.D.	_
Republic P.D.					x	[0		1						Saline Co Sheriff	x
Reynolds Co Sheriff				x			<u>├──</u> ┲─				x		i.		Sarcoxie P.D.	
Richland P.D.						1	P		x			1			Schuyler Co Sheriff	
Richmond P.D.	x					1		1							Scott City P.D.	
Ripley Co Coroner				x		1	v	1		1		1			Scott Co Coroner	
Ripley Co Sheriff		1		x		1			1	1	1				Scott Co Sheriff	
Riverside P.D.	x	x		1		1	E	1	1	1				11 - 14 - 14	Secret Service	×
Rock Hill P.D.	}	x	<u> </u>			1	₽	1	1	1					Sedalia P.D.	x
Rolla P.D.	<u> </u>	+					1		x		x	1		a di Alama	Sedgewick Co, KS, Sher	:iff
St. Charles Co Sheriff		x	1	1		<u> </u>	1	-			 	1			Seneca P.D.	
St. Charles P.D.				1		x	1	+	1	<u> </u>	1				Seymour P.D.	
St. Charles Co Sheriff	}		x			<u> </u>		+	<u>†</u>	1	1	1			Shannon Co Pros Atty	
St. Clair P.D.	<u> </u>	+	x		Ì	1	<u>†</u>	+	1	1	1	1			Shannon Co Sheriff	
Ste Genevieve Co Sherif	<u> </u>	+		x		1	<u></u>		<u> </u>		<u> </u>				Shawnee, KS, P.D.	x
Ste Genevieve P.D.	F	-{		x		- Second Constant	 								Shelby Co Coroner	
St. Francois Co Coroner		+		x		+				+				.	Shelby Co Sheriff	
St. Francois Co Sheriff	<u> </u>	+		x					+	┼───					Sikeston P.D.	
St. James P.D.				<u> </u>	<u> </u>			+	x		<u> </u>	<u> </u>		•	Smithville P.D.	x
	<u> </u>			 		+		1	+				1		SEMO Lab	1
St. John's Hosp Securit	Ť			+	×				+				4		SEMO Univ Sec	
St. Joseph Fire Dept	+				<u> </u>				+		┼	x			SMSU Security	1
St. Joseph P.D.	x	×	<u> </u>	_L	<u> </u>		<u> </u>		x	1		x	1			

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UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop St. Joseph
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CRIME LABORATORY USERS INDEX

Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
Sparta P.D.					x		F					
Springfield City Law De	pt				x		G					
Springfield Fire Dept					x		Ŭ					
Springfield P.D.					x		R E		x			
Springfield Pub Schools					x	1	S					
Stanberry P.D.							N		x			x
Steele P.D.				x			0	·				
Stewartsville P.D.							<u>T</u>					x
Slockton P.D.					x		P					
Stoddard Co Coroner				x			R O					
Stoddard Co Sheriff				x			V					
Stone Co Sheriff					x		D D					
Sugar Creeek P.D.	x						E					
Sullivan Co Sheriff					· · · · · · · · · · · · · · · · · · ·		Ð	x	یکی ڈندم ہوا ہے۔ یہ ب			
Sullivan P.D.		×										
Taney Co Sheriff					x	x						
TASC	x											
Texas Co Coroner											x	
Texas Co Sheriff					x				x		x	
Thayer P.D.											x	
Trenton P.D.			:		- i				х	x		x
Tri-Co Health Facility					x							
Troy P.D.			x						x			
Union P.D.		x				-			x			
U.S. Air Force	x					-						
USAF-Richard Gebaur	x											
US Bureau of Alcohol, Tobacco & Firearms	x						i.					

Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
U.S. Civil Service	x						F					
U.S. Coast Guard	x						G					
U.S. Court	x						U 					
U.S. Federal Med Cntr					x		E					
U.S. Marines	x				,		S					
U.S. Navy	x						N			ļ		
U.S. Penitentiary Leavenworth, KS	x						0 					
U.S. Postal Inspectors				x	x				x			
U S. Treasury	x						P			<u> </u>		
University City P.D.		x					0			ļ		
Univ of Mo-Columbia		x					V	ļ	x			
UMSL-Security			x				D		-	ļ		
Vernon Co Sheriff						x	E					
Versailles P.D.									x			<u> </u>
Viburnum P.D.				x		1			<u> </u>		<u> </u>	
Warrensburg P.D.									x			
Washington P.D.			x				ļ		x	<u> </u>	<u> </u>	ļ
Washington Univ Securit	Į.		x					ļ	<u> </u>	ļ	ļ	ļ
Wayne Co Coroner				x			<u> </u>		ļ		<u> </u>	ļ
Wayne Co Sheriff				x						ļ	<u> </u>	<u> </u>
Waynesville P.D.								ļ	x	<u> </u>	x	ļ
Weatherby Lake P.D.	x			1			<u> </u>		ļ	<u> </u>	<u> </u>	<u> </u>
Webb City P.D.					***	x	<u> </u>		ļ		<u> </u>	ļ.
Webster Co Sheriff					x		<u> </u>	<u> </u>	<u> </u>		ļ	ļ
Webster Groves P.D.	1977 - 1977 -	x							<u> </u>		<u> </u>	
Wellsville P.D.									x	1	<u> </u>	
Western Mo Mental Healt	hx									1		···

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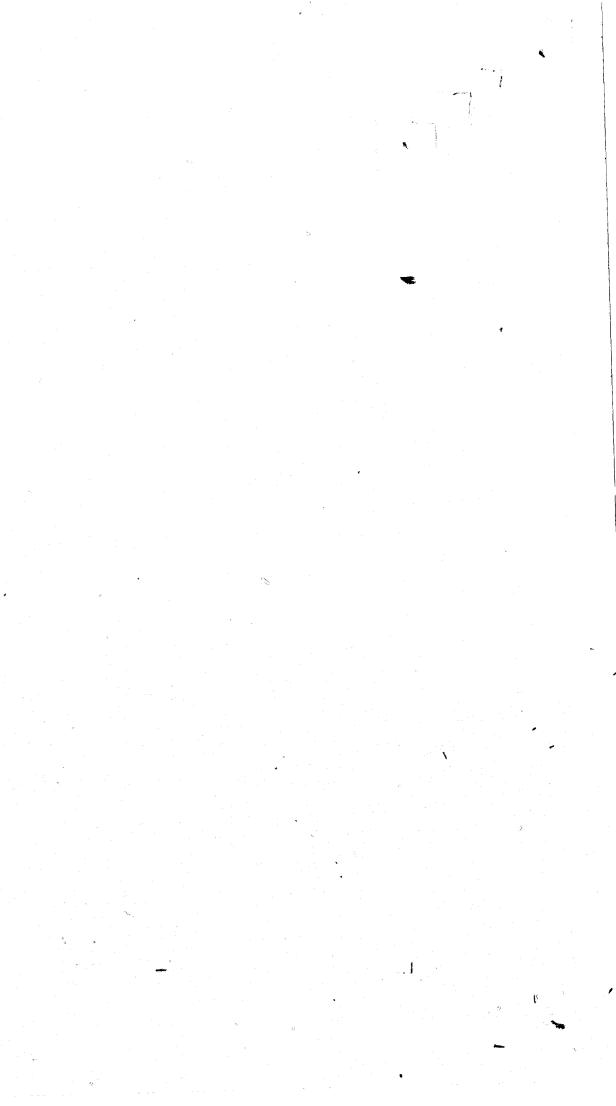
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Collected from laboratory records, this list indicates the agencies that each laboratory has served. AGENCY	Independence	UMC Columbia	St. Louis County	SEMO Cape Girardeau	Springfield	MSSC Joplin	St. Louis City	NEMSU Kirksville	MSHP Central Jefferson City	MSHP Troop B Macon	MSHP Troop G Willow Springs	MSHP Troop H St. Joseph
Weston P.D.	x						F					
West Plains Fire Dept							G				x	
West Plains P.D.	x						υ		x		x	
Whiteman AFB	x						R E					
Willow Springs P.D.							S		x		x	
Wenona P.D.							N		x		x	
Worth Co Sheriff							0					x
Wright City P.D.			×				T					
Wright Co Coroner							P				x	
Wright Co Sheriff			********				R O		x		x	
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MCCJ Form D-1 (Revised 10/1/76)

MCCJ D-1

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	SECTION I							
(1) Project No.:	(2) Grant Award: \$	(3) Funding Ratio: F						
(4) Project Title:	(5) S	Subgrantee:						
(6) Grant Period: From	To (7) R	Report Quarter Ending: (8)						

	(9) Approved Budget		(10) Peric	d Expenditures	(11) Cumulative Expenditures		
Budget Category	Federal	Non-Federal	Federal	Non-Federal	Federal	Non-Federal	
a. Personnel							•
b. Travel							
c. Equipment							
d. Supplies							
e. Contractual							
f. Construction							
g. Other Costs							
h. TOTALS							

CCJ D-1					N CRIMINAL JUSTICE REQUEST FOR FUNDS			
				SECT	10% I			
) Project No.:						(3) Funding Ratio: Fed% Local (8) Final Report		
Project Title: Grant Period: From	······				5) Subgrantee:			
				······································				
				SECT	ION II			
	(9) Appro	oved Budget	(10) Peri	od Expenditure	s (11) Cumulati	ve Expenditures (12) Obligations		
Budget Category	Federal	Non-Federal	Federal	Non-Fed	eral Federal	Non-Federal	Federal	Non-Federal
a. Personnel							•	•
b. Travel	*********							
c. Equipment	· .							
d. Supplies								
e. Contractual								
f. Construction								
g. Other Costs								
-			l					
h. TOTALS			[1	
							 Fringe Benefi 	its Only
		SECTION III				SECTION I	v	
13) Status of Federal Funds (cumulative):				1	(14) Request for Funds:			
a. Federal Funds Received								
b. Less: Fed. Funds Expended								
	<u></u>				lustify any extraordinary requ	•		
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				(15) SE	CTION V	50°		
		(Signature of Au	thorized Official)		(Signature of Re	alonal Director)		Date)
Date		(oightatai o oi Au	menzoe omolaly		(Oignature of No		-/-	

		n en		
PCL-1	ATTACHMENT I-E	Date of Report		
Criminalistic Instruc A. Crime Laboratory Name:	s Laboratory Statistical Cal tions on back of this sheet	rd		
 C. Number of agencies served during calendar 1. Prosecuting Attorneys 2. Police Departments 3. Sheriffs Departments 	4. Mo. State Highway Patrol [5. Coroners [6. Other [AND RECO
 D. Number of cases not yet processed and per E. Number of cases in process from previous of F. Number of new cases received during calen G. Total number of cases processed during cal H. Total number of cases not yet processed and I. Total number of cases in process and carrier J. Total number of court appearances during calenda L. Total number of miles driven during calenda L. Total number of full-time professional position M. Total number of part-time professional position M. Total number of full-time support positions in O. Total laboratory operating budget 	calendar year dar year endar year d carried forward to the next cale d forward to the next calendar ye alendar year r year ons in laboratory ons in laboratory	endar year	pro	Contained within Chapte ns of study hypotheses, a cedures, and procedures f Chapter Two contains a sidered in this study and
 P. Total number of cases processed by category I. Part I Offenses: Criminal Homicide Forcible Rape Robbery Aggravated Assault Burglary-breaking or entering Larceny-Theft Motor Vehicle Theft I. Part II Offenses: Other Assaults (simple) Arson Forgery and Counterfeiting Fraud Embezzlement Stolen property, buying, receiving Vandalism 	8. Weapons, car 9. Prostitution at 10. Sex Offenses 11. Narcotics Drug 12. Gambling	nst Family and Children		

VOLUME II

ACADEMIC APPROACH OGNIZED STANDARDS APPLIED IN THE STUDY

Introduction

er One of this volume are the basic academic considerastudy limitations, basic assumptions, data collection for treating the data.

discussion of the recognized laboratory standards nd accompanying recommendations and conclusions.

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- administration, and operation.
- graphic areas.

Crime laboratory will be used synonymously throughout this study with criminalistics laboratory and laboratory to mean a technical laboratory in which the processing of evidence collected in relation to a criminal offense is conducted. The degree and the depth to which evidence analysis services are conducted within each individual laboratory is subject to further, more precise definition in Volume I of this report.

Other terminologies such as case, evidence, examination, and turnaround time were each defined by the individual laboratory directors (Volume III) and are also further addressed in Volume I of this report.

CHAPTER I

Hypotheses

The basic hypotheses of this study are as follows:

1. Missouri's crime laboratories are functionally void of both in-house and overall uniform procedures for laboratory organization, management,

2. Missouri's crime laboratories are presently not capable of reacting uniformly to new and/or increasing demands upon manpower, instrumentation, and facilities by user agencies or the ever-developing technical methodologies of forensics analysis.

3. The needs for, and the comprehensiveness of services requested or required by user agencies in certain geographic areas of the state do not necessarily correlate with the capabilities and evidence analysis services offered by the crime laboratories in those same respective geo-

4. In the near future the realization of diminished laboratory budget allocations as a result of either fiscal reductions or inflationary increases, combined with increased demands for services, will dictate that a means be employed whereby Missouri's crime laboratories will be enabled to consistently continue to offer the highest quality of service at the most reasonable cost with the funds available.

Definition of Terms

Limitations of the Study

The findings and conclusions reached, and the subsequent recommendations made, throughout this report are limited insofar as:

- 1. The areas covered and the parameters within which the standardized sets of guidelines for crime laboratories used within this report can be applied to the managerial, administrative, and operative functions of Missouri's crime laboratories.
- 2. The reliability, comprehensiveness, and accuracy of the data collected from each laboratory was dependable.

Insofar as the research base for this study is concerned, only the twelve laboratories which have, or are currently receiving MCCJ funding are discussed. This is not to suggest, however, that the ultimate conclusions and recommendations of this report do not, or should not apply to other existing or future crime laboratories in Missouri, or other states for that matter.

Basic Assumptions

It was assumed in this study that:

- 1. Crime laboratories do operate in accordance with some sort of procedural guidelines or regulations.
- 2. Demands for both laboratory services and improvement of analysis techniques are increasing.
- 3. The various user agencies in different geographical areas of the state do require more or less types of certain evidence analysis capabilities.
- 4. The availability of funds for crime laboratories in Missouri is, and will continue to decline.

Procedures for Collecting Data

The information compiled for this report was collected via three major methods -- questionnaire surveys, interviews, and statistical records.

Questionnaire Surveys

Laboratory Data. - Was gathered from questionnaires individually completed by all laboratory directors and employees serving in a criminalist capacity. (Refer to Attachments II-A and II-B for Director and Criminalist Questionnaires.)

Laboratory Users Data. - Was gathered from questionnaires distributed to and returned from police agencies, sheriffs agencies, and prosecuting attorneys throughout the State of Missouri. (Refer to Attachment II-C for Laboratory Users Questionnaire.)

Interviews

Each crime laboratory was visited by the evaluator whereupon directors and criminalists were interviewed to clarify any real or potential confusion regarding the questionnaires, to observe the administrative and operational components of the laboratory, and to explain the impetus behind this study.

Statistical Records

Activities records for such things as cases received annually, examinations conducted annually, agencies served annually, court appearances annually, miles traveled annually, and case turnaround time were gathered, where possible, from each laboratory.

The data obtained from each laboratory was compared, averaged, and evaluated equally. Information gathered by the laboratory questionnaires, interviews, and statistical records was all analyzed and compared to each individual laboratory's degree of compliance or noncompliance with three sets of recognized standards for the organization, administration, and management of crime laboratories. Included in these sets of standards are The National Advisory Commission on Criminal Justice Standards and Goals (NAC): Crime Laboratories; The American Society for Crime Laboratory Directors (ASCLAD): Standards for Crime Laboratories; and The Missouri Action Plan for Public Safety (MAPPS): Standards for Crime Laboratories. The laboratory users questionnaires were distributed to 150 Missouri police departments, 114 Missouri sheriffs' departments, and 114 Missouri prosecuting attorney offices. Of the total of 378 surveys mailed out, 196 surveys were returned for a 51.85 percent response. The activities records were collected, where documentable, from each laboratory for the period of operation covering 1975 through 1978 inclusive. These activities were then averaged at an annual rate or figure for each laboratory. Turnaround time figures were obtained via samples of from 0.5 percent to 100 percent, depending upon annual caseload size and the accessibility of evidence receipt and analysis completion dates, taken from each laboratory and averaged by the number of years sampled.

Procedures for Treating Data

The evaluation design around which this study was planned, organized, and carried out can be referred to in Attachment II-D.

The standards, along with the subsequent recommendations and conclusions discussed in this chapter, are directly related to the findings disclosed on Table II-1, Non-Compliance with Standards for Management and Operations, and Table II-2, Non-Compliance with Activities Documentation. This information offers what are believed to be the best solutions or alternatives to each of the individual problem areas. It should be noted that each letter/number distinction indicated on Table II-1 also corresponds with the same letter/number distinction for each standard discussed. Furthermore, with respect to the individual standards, the evaluator has taken the liberty of assigning major, medium, and minor levels of importance to the respective standards. These labels signify which standards should receive the most emphasis regarding compliance and which standards should be implemented into each laboratory's operations on a timegradated basis of standard importance.

A-4 MAPPS Standard. - All crime laboratories should be standardized to improve the evidence analysis process, decrease case backlogs, and compile technical data which could be exchanged between laboratories to reduce the time required for evidence analysis.

Recommendation. - One of the major observations made throughout this study was the fact that Missouri's crime laboratories do not uniformly record data, define terminologies, or administer their laboratory operations. This standard implies that through the total compliance with the three components of the standard, laboratory administrative, operational, and analytical methods can be improved upon. Standardization of Missouri's crime laboratories is essential to the effective and efficient disbursement of state financial assistance funds.

CHAPTER II

LABORATORY STANDARDS FOR ORGANIZATION, MANAGEMENT AND OPERATIONS

FINDINGS AND RECOMMENDATIONS

LABORATORY ORGANIZATION AND MANAGEMENT

Major Stand. :ds

By standardizing all laboratory administrative and operational functions, the state should realize an upgrading of laboratory methodologies, a reduction of analysis costs, a savings in turnaround time for evidence submitted, better inter-laboratory communication, and more readily served user agencies.

Conclusion. - To enable compliance with this standard, an organizing or regulatory body must be given the responsibility to see that the proper steps and actions are taken and maintained. This would suggest that an independent, overseeing figure or assemblage be appointed to carry out that function.

Medium Standards

A-2 ASCLAD Standard. - All laboratories should have a stated list of objectives which is communicated to and understood by all employees.

Recommendation. - Seven laboratories produced clearly written, long-term, and apparently well understood objectives for their individual operations. The five non-compliance laboratories should determine the same types of objectives for their own long-range operations.

Conclusion. - A concern of specific note here is that even though seven laboratories did possess sets of objectives, the objectives differed in composition and quantifiability, yet the desired outcomes of those objectives were primarily similar. This situation, coupled with a lack of objectives in other laboratories, suggests the need for a more uniform laboratory system whereby all laboratories will have objectives, and wherein those objectives will be universally applicable and quantifiable to specific and overall laboratory operations.

A-3 ASCLAD Standard. - All laboratories should have access to and use a formalized training program and a formalized employee development program.

Recommendation. - Six laboratories have extensive, thorough formal training programs. This type of training must be made available, if not mandatory, for all laboratory analysts. Only two laboratories offer a formal development program for employees. Additionally, just as basic training is vital to quality laboratory analysis, so is the ongoing training of those same individuals of extreme importance to quality work output. Therefore, employee development programs should also be made available to laboratory staff members.

Conclusion. - The interesting situation existing here is that the formal training and development programs are available only within those laboratories of appreciable budgets. Basic and ongoing training programs are expensive, time consuming, and cannot be adequately afforded or feasibly maintained by the smaller laboratories. What is needed in Missouri is a stipulation that activities such as training and employee development be required in each laboratory as an in-service function of each laboratory.

A-1 ASCLAD Standard. - Laboratories should possess an organizational chart depicting not only the span of management within the laboratory, but also the placement of the laboratory within the structure of the parental organization. Recommendation. - Nine laboratories met this standard by having ready access to clear, distinct, and definite charts of organization indicating precisely the span of management within the laboratory and the complete structural hierarchy above and/or below the laboratory. The three non-compliance laboratories should

develop, or restructure as the case may be, organizational charts of like detail for their own purposes.

Conclusion. - The fact that nine laboratories have well-plotted organizational charts while three laboratories do not is an indication of a potential need for a more uniform laboratory system, especially if this lack of adequate organizational charts is due to the particular laboratory's or parental organization's inability to produce such an organizational tool.

nizations.

B-1 ASCLAD Standard. - Every laboratory should possess written technical procedures for each of its disciplines. Recommendation. - The nine non-compliance laboratories should develop or obtain such procedures for the disciplines carried out in their particular orga-

Conclusion. - The implication of this standard is that documentation of procedures will lead to better accountability of analysis procedures, more clearly defined analysis methods, and some distinct, clear cut steps for evidence analysis.

Minor Standards

LABORATORY OPERATIO'IS

Major Standards

Many laboratory directors contend that techniques must be adapted to the individual analyst; however, from a purely cost efficient, laboratory systems point of view, written technical procedures for laboratory disciplines, at least to the extent that is possible for such disciplines, offer a viable and favorable solution. The implementation and regulation of such a set of written disciplines would, once again, need to be the responsibility of an overseeing body.

<u>B-2 ASCLAD Standard</u>. - Every laboratory should have a well understood and preferably written procedure on:

- a. Handling of evidence
- b. Preparation, storage, and destruction of case records or reports
- c. Control of materials and supplies
- d. Maintenance of equipment
- e. Normal duty hours
- f. Extra duty hours
- g. Leave time
- h. Job requirements or descriptions
- i. Personnel evaluations and goal setting
- j. Employee grievances

<u>Recommendation</u>. - Each component of the standard is representative of a moderate to critical concern of any laboratory. All laboratories should have well understood and written procedures for each of these components.

<u>Conclusion</u>. - Procedures dictating personnel matters were found to be dealt with primarily at the parent organization level. The voids in procedural documentation and/or understanding were found to exist mostly at the laboratory decision-making level, thus leading this evaluator to conclude that some important procedural concerns are being avoided or ignored by the laboratories of non-compliance. The implementation of an independent control mechanism to introduce and maintain such policies could greatly improve the universal compliance to, and understanding of, all of the components of the standards by staff members.

Minor Standards

B-3 NAC Standard. - Every laboratory director should design and implement a reporting system that provides data relevant to its involvement in:

- a. Reported crimes
- b. Investigated crimes
- c. Suspects identified or located
- d. Suspects cleared
- e. Suspects charged
- f. Prosecutions
- g. Acquittals
- h. Convictions

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<u>Recommendation</u>. - Some laboratories were found to be in compliance with components a, b, and c; however, all other components of this standard were not addressed. The evaluator contends that such items of information as those listed in components d through h may not be available to the laboratories and are apparently of no real worth to individual laboratory operations. It is possible that such data could be maintained by an outside body with more time and interest in the total picture of Missouri's crime laboratory effects upon the criminal justice system than that found in the individual laboratories. It is for this reason, therefore, not recommended that the individual laboratories comply with the compilation cf data for components d through h.

<u>Conclusion</u>. - The most sure means of effecting universal compliance with the standard is through the implementation of a regulating or overseeing body. In order for all of the components of this standard to provide accurate comparative data in relation to that of other laboratories, they must be similar or identical in design and be implemented into laboratory operations in the same manner throughout all laboratories.

Overall Response to Laboratory Standards Regarding Organization, Management, and Crerations

The standards discussed here represent some very serious approaches by which Missouri's crime laboratory situation can be rendered less problematic. Many of these standards for which problems in compliance were found were developed in part or in total by some of Missouri's own crime laboratory staff members; however, in all fairness, such concerns should not necessarily be the fault of the laboratory staffs as they have been primarily involved strictly with the efforts of evidence analysis and not with concentrated practices of management, operation, and standardization outlined by the standards. The contention of the evaluator is that the standards are not being met primarily because:

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- A. No system exists whereby the standards can be applied equally to all laboratories.
- B. A crime laboratory network by which such standards could be administered, monitored, and adjusted according to the needs of the system is not available.
- C. No vehicle exists for the management of such an important regulatory and administrative function.

In light of this situation, the evidence seems to indicate a critically important demand for the development of a stratagem or model by which these needs are addressed in such a way as to create or determine the necessary system, network, and/or managerial vehicle for universal and consistent standards compliance assurability.

LABORATORY ACTIVITIES

The purpose of the information provided by Table II-2, Non-Compliance with Activities Documentation, is to present specific areas of the laboratory activity record keeping function which are presently, or which have in the recent past (1975-1978) been neglected, inadequately maintained, or not documented at all. It should be noted that while not directly referred to within the ASCLAD Standards, the importance of complete, well documented laboratory records, of which activities is certainly a major contributor, is suggested within those standards. Therefore, the reader is advised to bear this thought in mind while proceeding through the following laboratory activities information. As is indicated on Table II-2, some aspects of laboratory activities records maintenance are believed to be more important than others. Activities of major importance have been so designated on the table while activities of less importance, yet still essential and therefore important to documentation purposes, have been indicated on the table as being of minor importance.

Overall Recommendation

Serious voids in activity records documentation and maintenance were obvious for each activity and within every laboratory. Keeping in mind the suggested tone of the ASCLAD Standards, all laboratories are advised to maintain accurate, well documented records for each of the activities and services mentioned in this section. The dispersal of available funds in the future is certain to be based, in part, upon the laboratory services provided and the activities documented by each laboratory. Accountability will play a vital role in this process.

The conclusion made from all of this is that every laboratory should record all activities completely; however, the actual task will not be nearly as simple as was the conclusion. A main reason for this difficulty lies in a variance of definitions to like terminologies used in all laboratories. Such common laboratory words as evidence, case, examination, and turnaround time were discovered to be used differently in many laboratories. (See Activities Section of Volume III.) As a result, records representing those particular activities were maintained as per each particular definition of the term used by the individual laboratory. A case, as defined by one laboratory, may in fact represent two cases in another laboratory. One examination as defined by a particular laboratory may represent more than one, or no examinations, in another laboratory. Another complication found to this conclusion was that evidence descriptions and/or case types are labeled differently throughout the laboratories. A marijuana case in one laboratory might be labeled as a drug or narcotics case in another laboratory. A rape case in one laboratory may, in another laboratory, be broken down into such label descriptions as semen, blood, hair, clothing, etc. Thus, while complete, accurate documentation of laboratory activities is critically important, the need for uniformity in definitions and methods, across the board, is equally as important.

To accomplish such a prodigious task, a superintending mechanism whereby guidance, direction, regulation, and consultation may be imposed and/or offered should be created. It cannot be assumed that this sort of universality will be worked out adequately without the necessary "idance and moderation.

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Overall Response to Laboratory Activities

LABORATORY USERS ASSESSMENT OF MISSOURI'S CRIMINALISTICS LABORATORIES

This information was complied by the survey questionnaires that were distributed to Missouri police departments, sheriffs'departments, and prosecuting attorney's offices. The majority response to each question is indicated separately for police agencies, sheriffs' agencies, and prosecuting attorneys. Recommendations and conclusions follow the responses to the whole set of questions.

1.4.7

 Question - Additional regional laboratory services are needed to handle present demands for evidence analysis.

<u>Response</u> - The majority of police respondents said no to this question while the majority of sheriffs' agencies and prosecutors said yes.

2. <u>Question</u> - Additional regional laboratories will be needed to handle future demands for evidence analysis.

Response - All three groups responded in majority agreement to this question.

3. <u>Question</u> - Additional capabilities in the form of instrumentation, equipment, personnel, and training are needed now and will be needed in the future.

Response - All three groups responded in majority agreement to both present and future needs.

4. <u>Question</u> - Do you anticipate your agency's demand for laboratory services to change in the immediate future?

Response - Each of the three groups indicated a majority response of no to this question.

5. <u>Question</u> - How important is the availability of criminalistics laboratory services to your needs?

Response - All three groups responded that criminalistics laboratory services are indispensable to their needs. User agencies in Missouri were found to believe that additional laboratory services are, and will continue to be, an ongoing need in the state. While this evaluator does not recommend that additional laboratories be constructed, it is felt that Missouri's present resources can be more efficiently utilized to meet the present and projected service needs of the us gradgencies.

Overall Recommendation

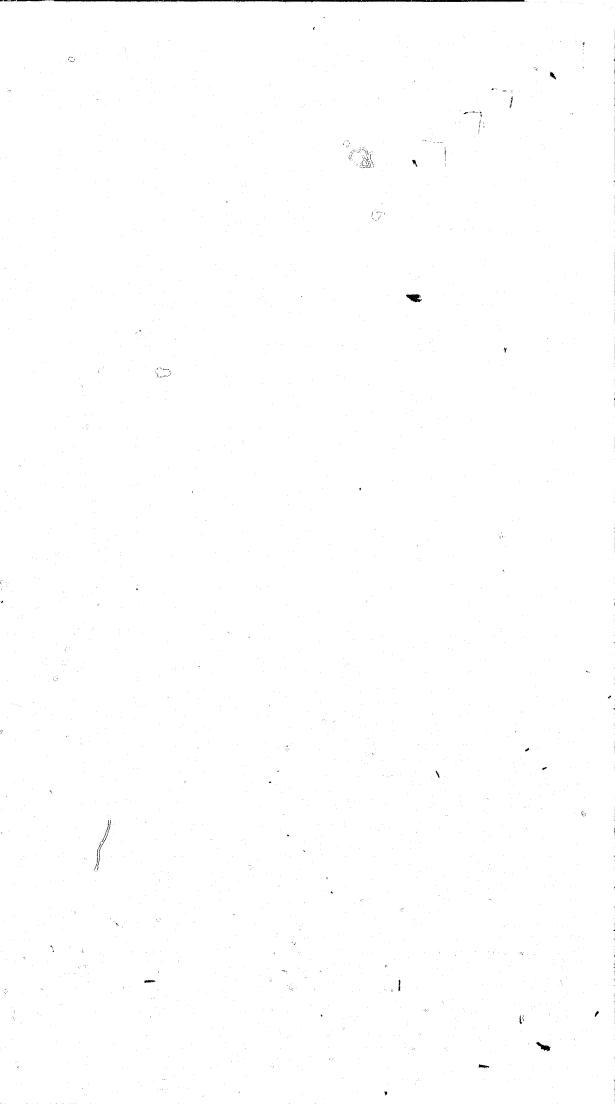
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GENERAL CONCLUSION TO VOLUME II

The satisfaction of today's and tomorrow's demands for laboratory services appears to depend not upon the continued construction of new laboratories or the physical and instrumental expansion of all of our present laboratories, but rather the solution seems to be one of effecting an overall organization and utilization of our present facilities, manpower, and instrumentation in such a way as to provide for a selective laboratory reinforcement of any or all of these entities on the basis of such things as laboratory caseload size, types of cases that constitute the bulk of analysis in a laboratory's geographic area, the volume of area service demands, and comprehensive laboratory operational efficiency. Missouri's crime laboratories cannot continue to function in this confusing arrangement of independent institutions which determine all of their own rules for administration, management, and operation. The evidence presented in this chapter overwhelmingly suggests that a Missouri crime laboratory network should be designed, implemented, and placed in the control of an administrative body with the authority to regulate such a network and the ability to maintain a responsive knowledge and insight into the real or potential needs of each particular laboratory and/or its service area. Senate Bill 202 assigned this responsibility to the Missouri Department of Public Safety.

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				NON-COMPLIANCE W MANAGEMENT AN	WITH STANDARDS FOR ND OPERATIONS			ана станулар 1970 — Салан Салан Салан (танулар) 1971 — Салан Салан (танулар)	
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		ASCLAD Standard A-i Organizatic ol Chart	ASCLAD Standard A-2 Written Objectives	ASCLAD Standard A-3 Trng & Develop.	MAPPS Standard A-4 Standardization	ASCLAD Standard B-1 Written Tech. Procedures	ASCLAD Standard B-2 Written Procedures Sections a, b, c, d, e, f, g, h, i, j	NAC Standard B-3 Reporting System Sections a, b, c, d, e, f, g, h	
•	Independence			X Training X Develop. Prog.	х. Х.,			X-d, e, f, g, h	
-	Springfield	X	x	X Training X Develop. Prog.	x	x	X-c	X-a, b, c, d, e, f, g, h	
•	University of Mo Columbia	x	x	X Training X Develop. Prog.	x		X-a, b, c, d	X-a, b, c, d, f, g, h	
-	NEMSU Kirksville		X	X Training X Develop. Prog.	X	x	X-a, b, d, e, f	X-a, c, d, e, f, g, h	
-	St. Louis County				x	x	X-c, d	X-a, b, c, d, e, f, g, h	
-	SEMO Cape Girarđeau	x	X	X Training X Develop, Prog,	x	x		X-b, d, e, f, g, h	
	MSSC Joplin			X Training X Develop. Prog.	X		X-a, b, c, d	X-a, c, d, e, f, g, h	
	MSHP Central Jefferson City			X Develop. Prog.	x	x	X-d	X-a, b, c, d	
	MSHF Troop B Macon			X Develop. Prog.	x	x	X-c, d	X-c, d, e, f, g, h	
	MSHP Troop G Willow Springs			X Develop. Prog.	x	x	X-c, d	X-b, c, d, e, f, g, h	
-	MSHP Troop H St. Joseph			X Develop. Prog.	x	x	X-c, d	X-c, d, e, f, g, h	
	St. Louis City		X		x	x		X-a, b, c, d, e, f, g, h	
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TABLE II-2

NON-COMPLIANCE WITH ACTIVITIES DOCUMENTATION

	Incomplete Records for No. of Cases Received Annually	No Breakdown of Case Totals By Case Type	No Records for Examina- tions Conducted Per Year	No Records of Case Turnaround Time	Incomplete or No Records for Agencies Served Annually	No Records for Total Examina- tions by Evidence Type
Independence				x		X
Springfield		x	X	x		x
Univ of Mo Columbia	•			x		X
NEMSU Kirksville		x	•	x		
St. Louis County		x	۰., ۰	x	x	
SEMO Cape Girardeau				X		x
MSSC Joplin				x		x
MSHP Central Jefferson City				X	x	x
MSHP Troop B Macon				x		x
MSHF Troop G Willow Springs				x		x
NSHP Troop H St. Joseph		11				x
St. Louis City			x	x		x

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Incomplete or No Records for Annual Mileage Traveled	No Records for Annual Court Appearances
x	
x	X
x	
x	x
x	
x	
x	
x	
x	

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1. By whom are you normally funded?

	Funding Source
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Totals	

2. Please complete the following manning table:

Laboratory		Salary Range					
Position Title	Autho	orized	Actu				
	Full-Time	Part-Time	Full-Time	Part-Time	Min. \$	Max. \$	
				•			
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ATTACHMENT II-A

GENERAL CRIME LABORATORY SURVEY (To be completed by Director)

1975	1976 ·	1977	1978
Ş	ş.	Ş	\$
\$	Ş	Ş	\$

3. How many newly authorized laboratory positions have been created in your organization in the past four years?

Newly Authorized		Anticipated				
Position Title	75	76	77	78	79	80
				· ·		

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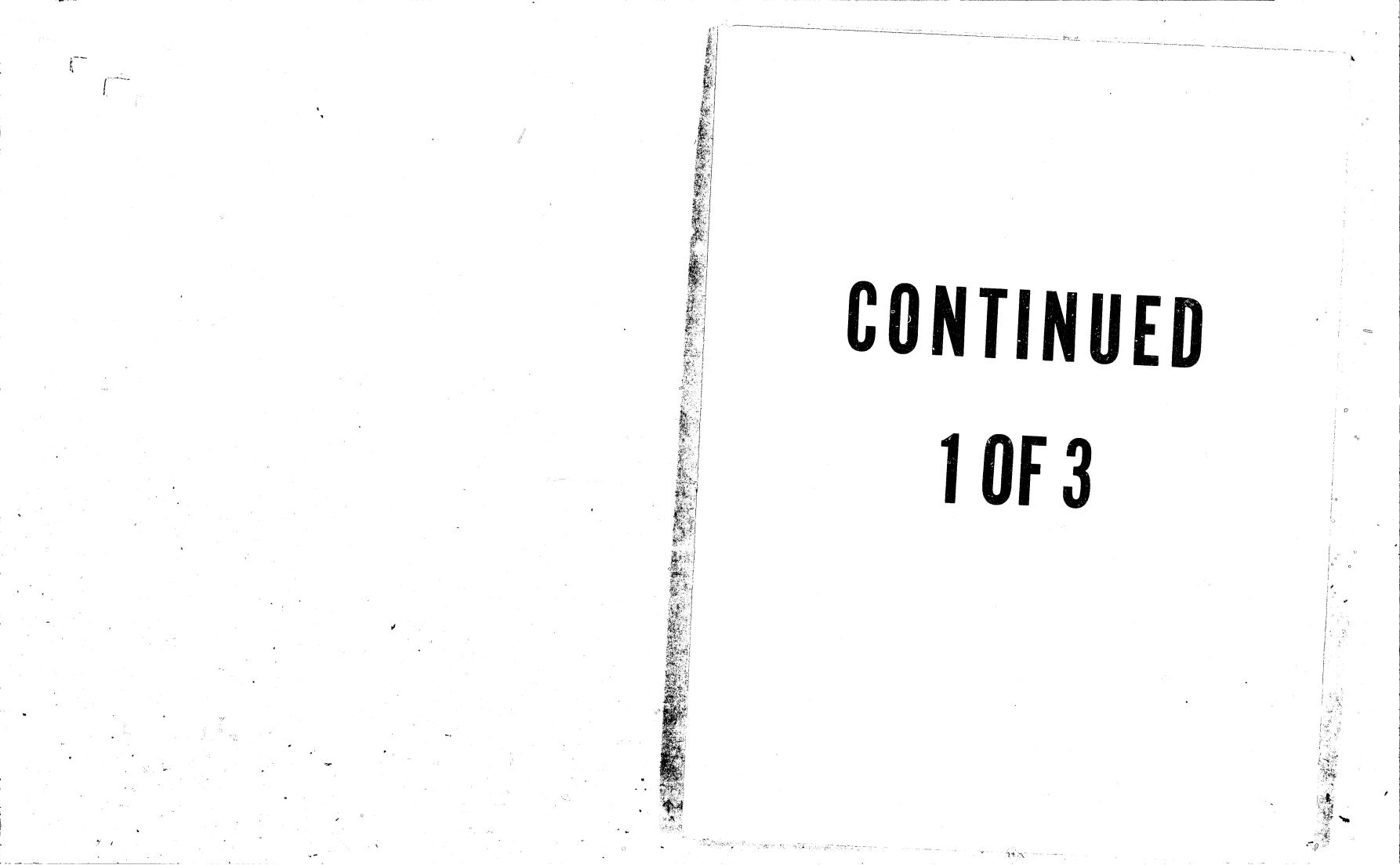
- 4. On an annual basis, what is the average number of analyst (professional) positions vacated in your agency because of transfers, resignations, dismissals, retirements, and deaths? 1 2 3 4 5 6 7 8 or more
- 5. Is the quantity and quality of the following items of equipment adequate or inadequate?

Equipment Type	Equipment		Equipment	Quality	Not	
Едитршенс туре	Adequate	Inadequate	Adequate	Inadequate	Available	
Microscope						
Spectrophotometer						
Chromatographs						
Balance					1.	
Camera/Enlarger						
Other (Specify)						
				•		

- 6. Do you utilize consultants for examinations?
  - A. Yes No
  - B. If "yes", in what analytical areas or for what types of cases?

	-3-
7.	If you perform laboratory work for other laboratories, in what analytical areas or for what types of cases?
8.	If your laboratory conducts research, please indicate the type of projects/ activities involved.
9.	What are the minimum education, training, and experience standards for promotion in your laboratory?
0.	If you also have minimum standards for your technical support level personnel, please list.
1.	What of the following benefits are offered to your laboratory employees?
	Vacation Days or Weeks Per Year
	Holidays Number of Days Per Year
	Sick Leage Number of Days Per Year
	Hospitalization
	Major Medical
	Accident Insurance
	Life Insurance
	Professional Meetings
	Dues Paid to Professional Organizations
	Retirement Plan
2.	Are any of the laboratory employees providea any of the following:
	Car Overtime Pay
	Car Allowance High Hazards Pay
3.	Do you conduct on-the-job training for your laboratory personnel: 🗌 Yes 🗌
4.	In your opinion, what are the significant problem areas facing the criminalistics profession?
10	
đ	

y i serve sure Andrew		-5
	-4-	21. Does the crime laboratory provide training to other agencies? If "yes", what is the scope of that training?
14.	Is there a formal on-the-job (OJT) training program for new employees?	
		22. What instruments, tests, or expertise do you consider to be somewhat unique to your laboratory?
15.	Does the laboratory have and use a formalized training program other than OJT?	23. What computer facilities, if any, does your laboratory have access to?
16.	Does the laboratory have a formalized employee development program?	24. What procedural manuals, if any, do you use (or have you used) in conjunction with which analyses?
17	Are there promotional opportunities with a clear delineation of the qualifica-	
*** •	tions needed? Yes No Comments:	25. Is every regional laboratory receiving from all agencies using its services partial annual support based on the number of sworn personnel employed by each agency rather than on case costs?  Yes  No Comments:
18.	A. In what areas are lab staff regarded as experts by the courts?	
	B. What criteria was used by the courts to make this determination?	26. Is there a clerical pool capable of handling all clerical needs available at the laboratory? Yes No Comments:
	C. Typically, what types of cases require appearance at: (1) Preliminary hearings:	27. Does your crime laboratory have full service capabilities in the form of instruction, manpower, and facilities? Yes No Comments:
•	(2) Trial:	28. Are all crime laboratories standardized to improve the:
	D. In what types of cases are depositions and/or written reports regularly admitted without personal appearance?	Yes No Evidence analysis process Yes No Decrease case backlogs Yes No Compile technical data which could be exchanged between labora
a.		tories to reduce the time required for evidence analysis?
19.	Are crime laboratory staff journalistically recognized? If "yes", please indicate articles, publications, topics, and dates.	29. Does the laboratory have a stated list of objectives? Yes No 30. Have the objectives been communicated to all employees? Yes No
		31. Does the laboratory possess written technical procedures for each of its disciplines?
20.	Are educational allowances in the form of either time off, tuition, and/or travel reimbursement provided to laboratory professional staff?	
: . :	66	67



. •	-6-	ng mana at in the data part of the first of the transformer of the data part	•	-7-
32.	Does the laboratory test new technical procedures thoroughly to prove their efficiency in identifying evidence materials? Yes No Comments:	na mana da mana ana ana ana ana ana ana ana ana a	41.	Does a system exist to ensure that each analyst reviews all pertinent literature? Yes No Does the laboratory participate in proficiency testing programs conducted by
33.	Does the laboratory use controls and standards to ensure the validity of the testing parameters? Yes No Comments:	تلكام على المراجع المراجع	42. 43.	Does the laboratory conduct intra-laboratory proficiency testing using known standards or some other technique?
34.	Does the laboratory routinely check the reliability of its reagents, where the reagent/s reliability is important in precluding false conclusions?	i je voj 10. je draženje u se vrojeko je vrod te vrod kon se vrod	44.	Does the laboratory have written procedures to protect evidence from experiencing deterious change? Yes No
35.		ى تەرىپىيە بىرىمە بىرىمە بىرىمە بىرىمەت	46.	Does the laboratory utilize a written chain of custody record with all necessary date? Yes No Is all evidence marked for identification? Yes No
36.	If the laboratory has an indication of a technical problem, do they immediately initiate a review and take any corrective action required?	م م داده باز زیاد موافر می بازد. م داده باز	48.	Is evidence stored under proper seal? Yes No Is evidence protected from loss, transfer, and/or contamination? Yes No
37.	Comments: Does the laboratory have a well understood and preferably written procedure on: Yes No Handling of evidence Yes No Preparation, storage, and destruction of case records or reports Yes No Control of materials and supplies Yes No Maintenance of equipment		49.	Has every crime laboratory director designed and implemented a reporting system         that provides data relative to its involvement in:         Yes       No         Reported crimes       Yes         Yes       No         Investigated crimes       Yes         Yes       No         Suspects identified/located       Yes         Yes       No         Suspects cleared       Yes         Yes       No
•	Yes       No       Inventory of equipment         Yes       No       Normal duty hours         Yes       No       Extra duty hours         Yes       No       Leave time         Yes       No       Job requirements or descriptions         Yes       No       Personnel evaluations         Yes       No       Employee grievances		50 <b>.</b> 51.	Does the manner in which evidence is submitted regularly prohibit indepth analysis because of cross contamination or other difficulties? Yes No Comments:
38.	Are clear vertical channels of communications present within the laboratory?		and the second	
<b>39.</b> 40.	Are staff meetings a routine function? Yes No Does the forensic library contain books, journals, etc., dealing with each area	ê e	المعيمان المعاصف مناطبات والمحافظ والمحافظ المحافظ المح	
	of expertise provided by the laboratory to its users? Yes No		and the second sec	

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1. Please indicate your formal education background:

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Course	Description
	•

- activities?
  - A. Administration
  - B. Supervision
  - C. Laboratory Analysis Examinations, Comparison:
- D. Report Writing
- E. Official Travel

Β.

- F. Court Appearances
- upon to testify.
  - A. _____
- 5. A. In your criminalistics laboratory employment are you: A sworn officer

  - C. If sworn, were you:

    - Hired directly for the laboratory

#### ATTACHMENT II-B

#### RATORY PROFESSIONAL STAFF QUESTIONNAIRE

Year	Degree	Major Courses of Study

2. Please indicate any significant forensic science courses taken at any time:

Year	Conducted By (Inst. or Org.)

3. Approximately what percent of your time is spent in the following criminalistics

	%	G.	Present Findings to Other Agencies (Police, Pros. Atty, Coroner)	%
		H.	Research	%
ıs	%	I.	Scientific Training	%
	%	J.	Other Instructional Training	%
	%	к.	Other (Specify)	%

4. Please list (in order of frequency) the topics on which you are most often called

C. D._____

A civilian

B. If "sworn", have you completed the standard basic police or deputy training prescribed by your agency?

Transferred to the laboratory from police or deputy duty

6. How would you rate the following in your criminalistics organization?

		Outstanding	Good	Fair	Poor
Supporting Personnel	•				
Physical Plant					
Size of Work Area	•				, 🔲
Instruments					
Other Equipment					
Supervision					
Library Facilities					
Other (Specify)					

-2-

7. What can be done to raise the level of understanding and acceptance of criminalistics by outside groups?

8. A. Are your meetings with counsel adequate to prepare you for court presentation? Yes No No B. If "no", in what ways can this be improved?

- 9. Please indicate briefly what you believe should be the minimum standards for education, training, and experience for individuals entering your forensic speciality.
- 10. In your field, what areas (i.e., management training, technical, etc.) are most in need of research?
- 11. Please list any of your memberships in professional organizations, licenses, certifications that you consider to be significant to your criminalistics profession.

12. Is there a formal written job description for your work as a criminalist? Yes No No

71

•

13. What do you believe should be the minimum education, training, and experience standards or qualifications for individuals entering the field as criminalists?

-3-

14. List any of your publications (in your forensic speciality) for the years 1975-78 that you consider significant. Include title, journal, volume, and date.

- A.

Β.

C.

15. In what areas of criminalistics is research most needed?

				iminal Justice ry User Survey			
expe supp the	pose: The following info actations of what service olied will be used to imp delivery of criminalist questions is greatly app	es a crim: prove the ics servio	inalistics existing c ces. Your	laboratory shou riminalistics ]	ild provide Laboratory	e. Informatinetwork and	
ces	ructions: Please response. Certain question wers of individual respon	s are pres	sent for de	mographic purpo			
<u>.</u>	Which of the following a	agencies 1	oest repres	ents your affil	Liation?		
	A. Municipal police	e departmo	ent 🗍	C. Prosecuting			
	B. County sheriff'	s departme	ent				
2A.	What criminalistics la (Select the appropriate					y basis?	
	Primary laboratory		Seco	ndary laboraton	у 🗌		
na na mangang mangang na mangang m	<ul> <li>a. MSHP Central Labora</li> <li>b. MSHP Satellite Labora</li> <li>c. MSHP Satellite Labora</li> <li>d. MSHP Satellite Labora</li> <li>e. Independence Regiona</li> <li>f. St. Louis City Pola</li> <li>Laboratory</li> </ul>	oratory Tr oratory Tr oratory Tr nal Labora	coop B coop G roop H atory tment	i. Region 9 MS j. SEMO Regior k. Region III	l Police De SSC Regiona nal Laborat Laboratory	epartment Lab al Laboratory	oratory
.в.	Explain your reasoning secondary basis.	for the s	selection o	f these laborat	tories on a	a primary and	
A ALA ALA ANA ANA ANA ANA ANA	Primary laboratory:	يود الله بالله المراجع المراجع					
يرد ، هو المعالمين المحالمين المحالمين المحالمين المحالمين المحالمين المحالمين المحالمين المحالمين المحالمين المحالم	Secondary laboratory:						
au distant Walance	Are there frequent sch criminalistics laborate						
and a standard and a standard	Primary laboratory:	1 Never	2 Seldom	3 Sometimes	4 Often	5 Always	
an an ann an Anna an Anna Anna Anna Ann	Secondary laboratory:	1 Nover	2 Soldom	3 Semantimore	4	5	
The second second second		Never	Seldom	Sometimes	Often	Always	
laplation of the second second	Are laboratories genera probable cause hearing						in
ماماد تريم جانب المالية المراجع المالية	Primary laboratory:	1 Never	2 Seldom	3 Sometimes	4 Often	5 Always	
and the second	Secondary laboratory:	1 Never	2 Seldom	3 Sometimes	4 Often	5 Always	

ATTACHMENI	TT-C

MISSOURI DEPARTMENT OF PUBLIC SAFETY

2	3	4	5
Seldom	Sometimes	Often	Always
2	3	4	5
Seldom	Sometimes	Often	Always

2	3	4	5
Seldom	Sometimes	Often	Always
2	3	4	5
Seldom	Sometimes	Often	Always

5. Do the primary and secondary laboratories provide quick, timely results for the State in preliminary hearings?

-2-

Primary laboratory:	l	2	3	4	5
	Never	Seldom	Sometimes	Often	Always
Secondary laboratory:	l	2	3	4	5
	Never	Seldom	Sometimes	Often	Always

6. Are existing laboratory scientific capabilities usually sufficient to accommodate your evidentiary analytical needs?

Primary laboratory:	1	2	3	4	5
	Never	Seldom	Sometimes	Often	Always
Secondary laboratory:	l	2	3	4	5
	Never	Seldom	Sometimes	Often	Always

7A. The "Speedy Trial Law", excepting the sanctioned delays, says in effect that the arraignment of a defendant shall be held within 10 days from the filing of an indictment or information and that upon the entering of a plea of not guilty at the arraignment, the trial shall commence within 180 days. What impact, if any, do you see the implementation of this law having on your needs for the analysis of physical evidence?

- A. No effect on any of my analytical needs.
- B. Some effect on some of my analytical needs.
- C. Some effect on all of my analytical needs.
- D. Drastic effect on some of my analytical needs.
- E. Drastic effect on all of my analytical needs.
- 7B. If responses B-E in 7A are selected, please describe the type of effect and the types of evidence or cases affected.

	And the second second second	
3.	Which Y N	of these situations most accurately reflects your opinion.
	ΔĈ	Additional regional laboratories are needed to handle present demand for evidence analysis.
		Additional regional laboratories will be needed to handle <u>future</u> demand for evidence analysis.
		Additional capabilities in the form of instrumentation, equipment, personnel, and training are needed to accommodate the present demand for evidence analysis.
		Additional capabilities in the form of instrumentation, equipment, personnel, and training will be needed to accommodate the <u>future</u> demand for evidence analysis.

	-3-
Ĭ,	N Both additional laboratories and expanded capabilities are needed to meet the present demands for evidence analysis.
	Both additional laboratories and expanded capabilities will be needed to meet the <u>future</u> demands for evidence analysis.
	you anticipate your agency's demand for services changing in the immediate uture for any reason?  Yes  No
	yes, please explain why and, if possible, estimate the increase or decrease terms of cases involved.
ev fr	at is the maximum turnaround time (time which elapses from the submission of dence to the laboratory until the time when the results are received back om the laboratory) for you to be adequately prepared for preliminary hearings other purposes?
a.	Preliminary hearings days
Ъ,	Other purposes, specify:
	days
If	a primary and secondary basis? Yes No yes, what factors should be considered in the assignment?
L If	Not applicable yes, please indicate the name and address of the major case squad spokesman.
	Not applicable
	Not applicable yes, please indicate the name and address of the major case squad spokesman. ease list the type of cases for which you normally request laboratory analyses.
	Not applicable yes, please indicate the name and address of the major case squad spokesman. ease list the type of cases for which you normally request laboratory analyses. D. E.
	Not applicable yes, please indicate the name and address of the major case squad spokesman. ease list the type of cases for which you normally request laboratory analyses. D. E.
Р1 А. В. С.	Not applicable yes, please indicate the name and address of the major case squad spokesman. .ease list the type of cases for which you normally request laboratory analyses. D E F w important is the availability of criminalistics laboratory services to your needs? 1 2 3 4 5 Not Some Moderate Highly Indispensable
P1 A. B. C. Ho In ca	Not applicable yes, please indicate the name and address of the major case squad spokesman. .ease list the type of cases for which you normally request laboratory analyses. D E F w important is the availability of criminalistics laboratory services to your needs? 1 2 3 4 5 Not Some Moderate Highly Indispensable

- Statement of Hypotheses Ι.

  - ologies of forensics analysis.
- II. Assumptions

  - niques are increasing.
- General Areas of Inspection and Evaluation Elements for III. Each Crime Laboratory
  - A. Organization and Management
    - 1. Organizational structure
      - a. Organizational chart
    - 2. Written job descriptions
    - Training requirements з.
    - 4.
  - Written laboratory records 5.

# ATTACHMENT II-D

# EVALUATION DESIGN

MISSOURI CRIMINALISTICS LABORATORIES

A. Missouri's crime laboratories are functionally void of both in-house and overall uniform procedures for laboratory organization, management,

B. Missouri's crime laboratories are presently not capable of reacting uniformly to new and/or increasing demands upon manpower, instrumentation, and facilities by user agencies and increasingly technical method-

C. The needs for and the comprehensiveness of services requested or required by user agencies in certain geographic areas of the state do not necessarily correlate with the capabilities and evidence analysis services offered by the crime laboratories in those same respective geo-

D. In the near future the realization of diminished laboratory budget allocations as a result of either fiscal reductions or inflationary increases, combined with increased service demands, will dictate that a means be employed whereby Missouri's crime laboratories can uniformly continue to offer the highest possible quality of service to user agencies at the most reasonable cost with the funds available.

A. Crime laboratories do operate as per some sort of procedural guidelines

B. Demands for both laboratory services and improvement of analysis tech-

C. The various user agencies in different geographical areas of the state do require more or less types of certain evidence analysis capabilities.

Written laboratory personnel policies

a. Adequacy of record keeping procedures

- 6. Budgetary records
  - a. Fiscal year 1978 budget
  - b. Staff salary ranges
  - c. Expenditures 1975-1978
- B. Operations
  - 1. Written operational procedures
    - a. Extent of operational procedures
  - 2. Access to equipment
  - 3. Analysis limitations
- C. Laboratory activities
  - 1. Individual laboratory terminology definitions
  - 2. Activities records
    - a. Annual cases received 1975-1978
    - b. Examinations conducted per year 1975-1978
    - c. Number of miles traveled per year 1975-1978
    - d. Total number of court appearances annually 1975-1978
  - 3. Breakdown of activity statistics
    - a. Total case types
    - b. Percentage case types
    - c. Examination types
    - d. Turnaround time
- D. Laboratory Users Assessment of Individual Laboratory Performance
  - 1. Reasons for laboratory choice
    - a. Police
    - b. Sheriffs
    - c. Prosecuting Attorneys
  - 2. Cooperation by laboratories
    - a. Police
    - b. Sheriffs
    - c. Prosecuting Attorneys

Ouestions Related to the Standards Established by the American Society IV. of Crime Laboratory Directors - per laboratory location

- A. Laboratory organization and management
  - 1. Planning:
    - a. Objectives:

- b. Managerial Authority: defined? 3. Administrative Procedures: procedure on: --normal duty hours --extra duty hours --leave time 4. Communication: the lab? B. Operations 1. Controlling: all necessary data? g. i. procedures on: --handling evidence records or reports

1) Does the laboratory have a stated list of objectives? 2) Have the objectives been communicated to all employees? 1) Is the basis for the laboratory manager's authority well 2. Training and Development of Subordinates: a. Does the laboratory have and use a formalized training program? b. Does the lab have a formalized employee development program? a. Does the lab have a well understood and preferably written -- job requirements or descriptions --personnel evaluations and goal setting a. Are clear vertical channels of communication present within b. Are horizonal and diagonal channels encouraged? a. Does the lab participate in proficiency testing programs conducted by an independent agency? b. Does the lab conduct intralin proficiency testing using the blend or reexam technique? c. Does the lab conduct intralab proficiency testing using the known standards technique? d. Does the lab have written procedures to protect evidence from experiencing deterious change? e. Does the lab utilize a written chain of custody record with f. Is all evidence marked for identification? Is evidence stored under proper seal? h. Is evidence protected from loss, transfer, and/or contamination? Does the laboratory have well understood and preferably written --preparation, storage, and destruction of case --control of materials and supplies --maintenance of equipment --inventory of equipment

- 2. Technical Procedures and Standards
  - a. Does the laboratory possess written technical procedures for each of its disciplines?
  - b. Does the laboratory test new technical procedures thoroughly to prove their efficacy in identifying evidence materials?
  - c. Does the lab insure that the conclusions and expert testimony of its examiners are reasonable within the constraints of forensic knowledge?
  - d. If the lab has an indication of a technical problem, do they immediately initiate a review and take any corrective action required?

#### C. Activities

- 1. Laboratory Activities Records Questions
  - a. Total number of cases processed during calendar year
  - b. Types of cases that constitute the workload of the laboratory
  - c. Number of agencies served during calendar year and breakdown
  - d. The number of miles traveled to provide court testimony per calendar year.
  - e. The number of court appearances in a calendar year.
  - f. Average turnaround time for evidence submitted to the laboratory
  - g. What kind and type of evidence kits are developed and disseminated to criminal justice agencies?
  - h. Briefly define the following terms as your laboratory uses them:
    - 1) Case
    - Examination 2)
    - 3) Evidence
    - Turnaround time 4)
    - 5) Full service laboratory
- Ouestions Related to Crime Laboratory Standards Established in the Missouri Action Plan for Public Safety (MAPPS)
  - A. Laboratory Organization and Management
    - 1. Are all crime laboratories standardized to improve the evidence analysis process, decrease case backlogs, and compile technical data which could be exchanged between laboratories to reduce the time required for evidence analysis?
- VI.

v.

- Questions Related to Crime Laboratory Standards Established by the National Advisory Committee on Criminal Justice Standards and Goals (Standard 12.2)
  - A. Laboratory Organization and Management
    - 1. Does the state have an established consolidated criminal laboratory system composed of local, regional, or state facilities capable of providing the most advanced forensic science services to police agencies?

- evidence through either:
  - ous drugs?
  - local agencies?
  - facilities?
- B. Operations
  - - a. Reported crimes
    - b. Investigated crimes

    - d. Suspects cleared e. Suspects charged
    - f. Prosecutions

2. Does every police agency have access to at least one laboratory facility capable of timely and efficient processing of physical

a. A local laboratory that provides analysis for high volume, routine cases involving substances such as narcotics, alcohol, and urine; routine analysis and processing of most evidence within 24 hours of its delivery; immediate analysis of certain types of evidence such as narcotics, where the detention or release of a subject depends upon the analysis; and qualitative field tests and quantitative follow-up tests of narcotics or danger-

b. A regional laboratory (serving an area in excess of 500,000 population where at least 5,000 Part I offenses are reported annually) that provides more sophisticated services than the local laboratory, is within 50 miles of any agency it routinely serves, can process or analyze evidence within 24 hours of its delivery, and is staffed with trained teams of evidence technicians to assist in complex investigation beyond the scope of

c. A centralized state laboratory that provides highly technical analyses that are beyond the capabilities of local or regional

#### 3. Does every crime laboratory provide that:

a. Every employee responsible for the completion of scientific analyses or testing hold at least an earned baccalaureate degree in chemistry, criminalistics, or closely related field from an accredited institution and have a thorough working knowledge of laboratory procedures?

b. Every employee performing supervised basic scientific tests or duties of a non-scientific nature meet the agency's requirements for employment of regular sworn or civilian personnel?

c. The laboratory director be familiar with management techniques necessary to perform his administrative functions satisfactorily?

d. Civilian personnel be used regularly so sworn personnel may be more appropriately deployed in other assignments, but provide that qualified sworn personnel be used when their abilities or expertise cannot be found elsewhere?

e. A clerical pool capable of handling all of the clerical needs of the laboratory be maintained?

1. Has every crime laboratory director designed and implemented a reporting system that provides data relative to its involvement in:

c. Suspects identified or located

- g. Acquittals
- h. Convictions

VII. Missouri Council on Criminal Justice Evaluation Design Organization

- A. Individual Laboratory Studies
  - 1. Data collection
  - 2. Areas of noncompliance with standards
  - 3. Users assessment
- B. Overall Missouri Crime Laboratory Evaluation
  - 1. Conglomerate observation of noncompliance with standards
  - 2. Statistics and supportive data
  - 3. Overall assessment of user agencies
- C. Model Management System Component Options
- D. Development of Ideal Management Model

Independence Regional Crime Lab	
St. Louis City P.D. Laboratory	
St. Louis County P.D. Laboratory	
MSHP Central Laboratory	
MSHP Troop B Laboratory	
MSHP Troop G Laboratory	
MSHP Troop H Laboratory	
SEMO Regional Laboratory	
MSSC Laboratory Joplin	
Springfield P.D. Laboratory	
NEMSU Kirksville	
UMC Columbia	

Z

### Evaluation Standards

# Professional Standards from

- A. American Society of Crime Laboratory Directors - Proposed Laboratory Standards Laboratory Management and Operations
  - 1. Planning
  - 2. Organizing
  - 3. Directing
  - 4. Controlling
- B. <u>Missouri Action Plan for Public Safety</u>, <u>MAPPS</u>, Criminal Justice Goals, Standards and Action Plan for the State of Missouri

21.2 Crime Laboratory Standardization

C. <u>Police</u>: National Advisory Commission on Criminal Justice Standards and Goals, Chapter 12, Support Services

12.2 The Crime Laboratory

The purpose of this volume is to provide the reader with an overview of the managerial, administrative, operative, and functional activities components of individual Missouri criminalistics laboratories. The data used in the compilation thereof, was gathered via questionnaire surveys of all laboratory directors and employees serving in a criminalist capacity; questionnaire surveys completed by and staff members; statistical information collected regarding each laboratory's activities; and finally, by the personal observations of the evaluator. The report is constructed around a four-year time frame which includes manalaboratories between the years 1975 and 1978 inclusive. The guidelines used to evaluate the collected and analyzed individual laboratory data were obtained from three sets of currently recognized standards of administration, management,

of this report, and the basis for the subsequent findings and recommendations Missouri's laboratory user agencies; personal interviews of laboratory directors gerial and administrative information pertaining to, and activities of the and operation for criminalistics laboratories. These sets of standards are:

-The	American	Society
	for Crime	Laborato
-The	National	Advisory
	(NAC): S	tandards
	Missouri	
	Laborator	ies - Sec
-		

One of the inherent difficulties encountered throughout this entire study was the individuality with which Missouri's laboratories administer, operate, and, of primary concern here, define certain of their functions. Variations of definitions for common universal laboratory terminologies were discovered throughout Missouri's crime laboratories which, in turn, cause procedures and practices to vary likewise. With specific reference to the Activities Section of each laboratory report, the reader must be cognizant of some specific termi-

#### VOLUME III

#### INTRODUCTION

### Individual Studies of the Criminalistics Laboratories of Missouri

of Crime Laboratory Directors (A	SCLAD): Standards
ries	
Commission on Criminal Justice	Standards and Goals
for Crime Laboratories - Section	12.2
lan for Public Safety (MAPPS):	Standards for Crime
tions 21.1, 21.2, 21.3	

nology definitions as they are applied to the activities of each individual laboratory. Therefore, such definitions have been provided in their specific locations and are printed as given by the particular director of the laboratory within which each separate definition is found.

Reports on each laboratory found in this volume have been forwarded to the respective laboratory directors. Their review and response was requested and if a written response was received, it was included in this volume.

The reader will find each laboratory identified by region or regions. These are the MCCJ regions in which each laboratory is located.

#### REGION I, KANSAS CITY REGIONAL CRIMINALISTICS LABORATORY

The Region I Criminalistics Laboratory is a division of the Criminal Investigation Bureau of the Kansas City Police Department and is located at the Department's Regional Center for Criminal Justice in Independence, Missouri. The laboratory staff is directed by Mr. Gary Howell, who reports to the Director of the Department's Criminal Investigations Bureau and ultimately is responsible to the Director for Investigations of the Kansas City Police Department. The organizational chart indicates a clear delineation of authority and span of management. (Refer to Organizational Chart, Appendix A-1.)

With the assistance of MCCJ funding, the regional laboratory became operational in 1972. Located in a free-standing structure at the Regional Center for Criminal Justice, the laboratory was found to be situated with approximately 8,000 square feet of space, perhaps 5,000 square feet of which is working bench space. A staff of eighteen full time employees maintains the five sections of the laboratory which services an average of 142 agencies per year. (Refer to the Crime Laboratory Users Index, Page 25.)

Clear, apparently accurate, written job descriptions do exist for all staff members as per Departmental policy. The indication and observation was that all employees were aware of, understood, and governed their professional activities according to such policies.

Training and educational requirements for all analysts include an on-the-job training program. All Chemistry Section Examiners are further required to hold a relevant baccalaureate degree.

The Director and three Section Chiefs are responsible for all immediate formal and informal supervision within the laboratory.

The Kansas City Police Department determines all written personnel policies that apply to the laboratory staff. The staff expressed an awareness and understanding of such policies.

1 2

SECTION I

#### Organization and Management

Records for the laboratory are maintained by both manual and computerized methods. This highly sophisticated procedure enables the laboratory to maintain ready access to any of a number of types of extraneous data. This record keeping procedure is to be commended in terms of its appropriateness to the laboratory's volume of work.

For FY 1977, the laboratory reflects a total operating budget of \$409,973.00. Included within this total is a minimum dollar amount for staff salaries of \$175,552.00, or 43 percent of the identified budget. The annual salary range for staff members is:

Laboratory Position Title	No. of Positions	Minimum Annual	Maximum Annual
Director	1	24,132.00	30,792.00
Chief Forensic Chemist	1	19,860.00	26,628.00
Chief Firearm & Toolmark Exam.	1	19,860.00	26,628.00
SgtField Operations	1	18,588.00	21,576.00
Forensic Chemist II	3	15,552.00	20,844.00
Forensic Chemist I	1	12,816.00	17,160.00
F.A. & T.M. II	2	15,552.00	20,844.00
F.A. & T.M. II (LE)	1	12,012.00	17,712.00
Fingerprint & Photo Tech (LE)			
Color Processor	1	11,640.00	14,808.00
Evidence Coordinator	1	9,108.00	12,216.00
Police Secretary	2	8,280.00	11,640.00
Police Typist	1	8,152.00	10,044.00
Minimu	m Total	175,552.00	

Other expenses for the laboratory include equipment purchase and maintenance, supplies, travel, and utilities. It should be noted that a major source of income for the laboratory is derived from analysis fees charged to individual user agencies according to incremental laboratory analysis rime spent on evidence submitted by those agencies. Between 1975 and 1978 the laboratory expended an approximate total of \$1,719,913.00, of which \$466,869.00 was provided by the Missouri Council on Criminal Justice. (Refer to Appendix A-2 for Four-Year Funding History)

### Findings and Recommendations for Section I, Organization

Finding 1:	i
Recommendation 1:	
Finding 2:	

Recommendation 2:

Finding 1:

This finding pertains to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II.

Procedures within the laboratory regarding evidence receipt, handling, flow, analysis, and security are well written and apparently clearly understood by the staff. The laboratory does utilize a written chain of custody record for all necessary data and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination. The laboratory's staff members have access to approximately \$155,000.00 worth of nonexpendable laboratory and office equipment. As defined by the NAC Standards, the potential for full service capabilities does exist at the laboratory. The only analysis limitation within the laboratory, according to the Director, is that of questioned documents which the laboratory is incapable of processing.

> Findings and Recommendations for Section II, Operations The Director has not designed or implemented a reporting system that provides data relevant to the laboratory's involvement in:

According to the Director, the laboratory has no formal on-the-job training or employee development program.

As per the ASCLAD Standards, the laboratory should explore the possibility of obtaining a more formal type of forensics training, as well as the implementation of a formal employee development program. The indication of the Director is that laboratories are not standardized to:

-Improve the evidence analysis process -Decrease case backlog -Compile technical data which could be exchanged between laboratories to reduce analysis time

#### SECTION II

#### Operations

-Suspects cleared -Suspects charged -Prosecutions -Acquittals -Convictions

Recommendation 1:

Finding 2:

Recommendation 2:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II. According to the Director, the laboratory does not develop or disseminate evidence kits. As per increased public relations and improved evidence gathering techniques, the laboratory should explore the possibility of developing certain types of evidence gathering kits for dissemination to area agencies.

#### SECTION III

#### Activities

Case - As indicated by the Director, the laboratory uses the Uniform Crime Reporting (U.C.R.) definition which dictates that a case includes evidence submitted in connection with: criminal homicide, forcible rape, robbery, aggravated assault, burglary, larceny, auto theft, assaults, arson, forgery or counterfeiting, fraud, embezzlement, stolen property, vandalism, weapons, prostitution and vice, sex offenses, narcotic drug laws, gambling, offenses against the family and children, driving under the influence, liquor laws, drunkenness, disorderly conduct, vagrancy, all other offenses, suspicion, curfew and loitering laws, and runaways.

Evidence - As defined by the Laboratory Director, is items examined in the laboratory utilizing the physical sciences which have the potential for courtroom testimony.

Examination - As defined by the Director is an examination of evidence where one positive statement is made from either one or from a series of tests conducted in order to make that statement.

Turnaround time - As defined by the Director is time from the date that evidence is submitted until the date that analysis is complete and the report is finished.

Turnaround time figures for the laboratory were calculated from the caseload records of two sections of the laboratory, the Chemistry Section and the Firearms and Toolmarks Section. Each section of the laboratory (Chemistry; Firearms and Toolmarks; and Fingerprints and Photographs) keeps its own records and file system regarding evidence types, receipt dates, and release dates. Some items of evidence are sent to more than one section of the laboratory for analysis; therefore, in many cases it would not be possible to accurately record turnaround time per evidence item. Furthermore, the Fingerprints and Photographs Section of the laboratory operates, by and large, on a one day in-one day out basis and represents a more specialized function than is found at the other Missouri crime laboratories. For this reason, it was decided that the Chemistry Section and the Firearms and Toolmarks Section would be included independently in an attempt to estimate turnaround time. These figures were made in terms of the average number of days taken to meet the turnaround time requirements for each type of case as defined by the Region I Laboratory. The figures for the Chemistry Section are indicative of a five percent systematic sample of all evidence received by that section from January 1, 1977, through June 30, 1978. The figures for the Firearms and Toolmarks Section are indicative of a five percent systematic sample of all evidence received by that section from January 1, 1977, through December 31, 1977.

Year	Cases	% Increase or Decrease
1975 1976	8,385 8,604	+3.0%
1977 1978	8,831 9,638	+3.0% +8.0%

A total of 35,458 cases were received over the four-year period for a yearly average of 8,864 cases. Laboratory records indicate a 14 percent increase in cases received between 1975 and 1978.

Total Number of Cases Received Annually

### Examinations Conducted Per Year

Year	Examinations	<pre>% Increase or Decrease</pre>
1975	22,883	
1976	21,794	- 5.0%
1977	27,389	+20.0%
1978	26,846	- 2.0%

A total of 98,912 examinations were conducted over the four-year period for a yearly average of 24,728 examinations. Laboratory records indicate an annual average increase of 13.5 percent in examinations conducted between 1975 and 1978.

## Number of Miles Traveled Per Year

### Not available

# Total Number of Court Appearances Annually (In Hours)

Court records for the Region I Laboratory are maintained by total court hours spent, rather than by total number of individual appearances. The average yearly number of court hours for laboratory staff over the four-year period is 926.5 hours. This figure averages out to 115.8 total working days or an average of 29 days per year.

Activity	7
Caseload,	E
and	1

· · ·		Total	al   Average Turnaround		
		% of	Exami-	Time in	
	Total	Total	nations	Chemistry	Firearms &
Type of Case	Cases	Cases	by Type	Section	Toolmarks Sect.
	1975-78	1975-78		1-1-77/6-30-78	1-1-77/12-31-78
Narcotics & Drugs	9,164	25.8%		5.9	18.0
Burglary	5,201	14.6%	N	4.4	4.5
Traffic	2,535	7.1%	0	1.0	Not Sampled
Aggravated Assault	2,449	6.9%	t	3.7	10.5
Firearms	1,631	4.5%		Not Sampled	4.1
Robbery (Also Attempted)	1,589	4.4%	r	2.6	13.4
Forgery	1,388	3.9%	е	Not Sampled	Not Sampled
Other	1,315	3.7%	С	Not Sampled	Not Sampled
Carrying Concealed Weapon	1,300	3.6%	0	Not Sampled	3.4
Dead on Arrival	1,126	3.1%	r	Not Sampled	Not Sampled
Rape (Also Attempted)	985	2.78	đ	19.4	5.0
Homicide	898	2.5%	е	8.3	4.3
Liquor	845	2,3%	đ	9.0	Not Sampled
Hit and Run	712	2.0%		4.3	Not Sampled
Fraud	698	1.9%	b	Not Sampled	Not Sampled
Arson	697	1.9%	У	36.2	7.0
Auto Theft	541	1.5%	-	1.0	2.0
Larceny	504	1.4%	t	5.6	Not Sampled
Suicide (Also Attempted)	459	1.2%	У	8.7	11.6
Destruction of Property	318	0.8%	p	4.2	Not Sampled
Misdemeanors	225	0.6%	e	Not Sampled	Not Sampled
Recovered Property	216	0.6%		1.0	3.7
Internal Matters	124	0.3%		Not Sampled	Not Sampled
Accidental Shooting	84	0.2%		9.0	Not Sampled
Theft from Auto	79	0.2%		Not Sampled	Not Sampled
Misc. REGIS	69	0.1%		Not Sampled	Not Sampled
Bombing	61	0.1%		Not Sampled	Not Sampled
Sodomy	52	0.1%		4.0	Not Sampled
Common Assault	48	0.1%		1.0	7.8
Molestation	32	0.09%		Not Sampled	Not Sampled
Bogus Check	27	0.07%		Not Sampled	Not Sampled
Missing Persons	20	0.05%		Not Sampled	Not Sampled
Kidnap	17	0.04%		Not Sampled	Not Sampled
Bomb Threat	10	0.02%		Not Sampled	Not Sampled
Gambling	10	0.02%		Not Sampled	Not Sampled
Vending Machines	8	0.02%		Not Sampled	Not Sampled
Incest	7	0.01%		Not Sampled	Not Sampled
Pay Phones	4	0.01%		Not Sampled	Not Sampled
Prostitution	4	0.01%		Not Sampled	Not Sampled
Exhibitionism	3	0.008%		Not Sampled	Not Sampled
Other Sex	3	0.008%		Not Sampled	Not Sampled
TOTALS	35,458	97.0%*	98,912	6,47	6.8

*3% due to rounding error

vity Statistics for Breakdown of ad, Examination Totals, Case Type and Turnaround Time 1975-78

Of the 35,458 cases received from 1975 through 1978, 21,540 involved seven types of evidence and represented an average of 60.5 percent of the overall caseload for the four-year period of operation.

In general, the laboratory's activities records management is superior; however, as per the ASCLAD standards and proper management techniques, some attention should be given to the following concerns and/or findings for purposes of future accountability and possible funding allocations:

Finding 1: Recommendation 1:

Finding 2:

Recommendation 2:

Of the police respondents, nine agencies utilize the laboratory on a primary basis while one agency utilizes the laboratory on a secondary basis. Of the composite of reasons given by police agencies for using the laboratory, the most significant were:

The police agencies never encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

#### Findings and Recommendations for Section III, Activities

The laboratory has no records of annual mileage. The laboratory should record monthly or annual miles traveled, if and when personal vehicles are used. Breakdowns of annual examinations by evidence type were not available.

The laboratory should begin compilation of examination totals by evidence type.

#### SECTION IV

### Laboratory Users Assessment of the Region I, Kansas City Regional Criminalistics Laboratory

#### Police

-Geographic proximity -High quality analysis -Promptness

### Sheriffs

Of the sheriff respondents, two agencies utilize the laboratory on a primary basis while two others utilize the laboratory on a secondary basis. Of the composite of reasons given by sheriffs' agencies for using the laboratory, the most significant were:

### -Geographic proximity -Comprehensive analysis -Dependability

The sheriffs' agencies sometimes encountered conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

# Prosecuting Attorneys

Of the prosecuting attorneys who responded, three of them utilize the laboratory on a primary basis while three others utilize the laboratory on a secondary basis. Of the composite of reasons given by prosecuting attorneys for using the laboratory, the most significant were:

> -Geographic proximity -High quality analysis -Experience

The prosecutors seldom encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

> Photographic and Fingerprint Unit

3.7

Chemistry Biology & Trace Analysis Unit

Board of Police Commissioners Chief of Police Director for Investigations Criminal Investigations Bureau Criminalistics Division Laboratory Supervisor of Director ----Field Operations Firearms Evidence & Tool-Control mark Unit Unit

Clerical

Staff

APPENDIX A-1

# ORGANIZATIONAL STRUCTURE

# Regional Criminalistics Laboratory

#### APPENDIX A-2

#### FEDERAL AND LOCAL FUNDING HISTORY FOR THE REGION I CRIMINALISTICS LABORATORY

MCCJ Grant Number	1975	1976	1977	1978
75-ACD2-S001	F 2,000.00 L 249.00			
75-ACD2-A014	F 150,000.00 L 194,483.00			
76-ACD2-A023		F 142,152.00 L 17,598.00		
76-ACD2-S003		F 3,200.00 L 3,200.00		
77-ACD2-S002			F 3,722.00 L 4,784.00	
77-ACD2-A020			F 82,427.00 L 10,116.00	
77-ACD2-ML27			F 1,191.00 L -0-	
78-ACD2-A012				F 80,144.00 L 8,905.00
78-ACD2-S012				F 1,532.00 L 171.00
78-ACD2-A036				F 501.00 L 175.00
TOTALS	346,732.00	166,150.00	102,240.00	91,428.00

#### OTHER FUNDING SOURCES FOR THE REGION I CRIMINALISTICS LABORATORY

	1975	1976	1977	1978
Project Income KCPD	6,352.00 194,959.00	81,821.00 172,497.00	135,654.00 172,079.00	Not Available Not Available
TOTALS	201,311.00	254,318.00	307,733.00	250,000.00 (Estimated)

YEARLY TOTAL	548,0	43.00	420	,468.00	409	,973.00	341,428.00 (Estimated)
		GRAND	TOTAL	\$1,719,9	13.00		

2100 NORTH NOLAND ROAD

Mr. Gary P. Maddox Police Evaluation Specialist MCCJ P.O. Box 1041 621 E. Capitol Jefferson City, Missouri 65102

Dear Gary;

I think this is an excellent and accurate evaluation, and I appreciate your having to spend a lot of time to produce such a document.

The only portion I have a problem with is in Section II, finding 2. We have had our wires crossed some where. The Regional Criminalistics laboratory has disseminated approximately 30 complete evidence kits and have stocked several more in the area. We continually re-stock the evidence kits at a no charge basis to the agencies in our region. The Regional Criminalistics Laboratory inventories 102 separate items at a cost in excess of \$4000.00 a year.

Please make this correction, and I am sorry about the mixup.

GRH:sm

95

**REGIONAL CRIMINALISTICS LABORATORY** Regional Center for Criminal Justice -816-836-4800

INDEPENDENCE, MISSOURI 64051

September 10, 1979

Sincerely,

Gary R. Howell Director



The Region II Criminalistics Laboratory is a unit of the Springfield Metropolitan Police Department and all staff members are under the ultimate direction of Mr. Gordon Loveland, Chief of Police. The Laboratory Director, Mr. Donald Smith, is the immediate supervisor of the laboratory. No organizational chart exists which depicts the structure of the laboratory or its placement within the total department.

With the assistance of MCCJ funds, the laboratory became operational in April 1971. Located in the basement portion of the Springfield Police Department Headquarters Building, the laboratory is housed within physical space dimensions of approximately 980 square feet, of which 480 square feet is actual bench space. The laboratory also has access to, and keeps some equipment in, a 240 square foot room in the Chemistry Building on the Southwest Missouri State University campus in Springfield. A staff of three full time employees maintains the laboratory which serviced an average of 56 agencies per year during 1977 and 1978. There were no records that would indicate agencies served during 1975 or 1976. (Refer to the Crime Laboratory Users Index, Page 25)

Employees of the laboratory were found to have accurate written job descriptions dictating their laboratory activities and duties. It was indicated and observed that staff members were aware of such job descriptions, that they understood them, and that they governed their professional activities accordingly. Professional training for staff members consists only of on-the-job type training. The laboratory does require that the professional examiners possess a relevant baccalaureate degree.

The City of Springfield determines all written personnel policies that affect the laboratory staff. Staff members indicated a knowledge of such policies and an understanding of how the policies affect and apply to them.

#### REGION II, SPRINGFIELD CRIMINALISTICS LABORATORY

SECTION I

#### Organization and Management

Laboratory records are maintained manually; however, the laboratory does have access to the Department's computer system. The manual system is considered to be adequate, according to the evaluator, for the size of the laboratory operation.

For calendar year 1978, the laboratory reflects an identified budget of \$60,351.00. Included in this total is a minimum dollar amount for professional staff salaries of \$35,102.12, or at least 58 percent of the identified budget for the year. Annual salary ranges for professional laboratory staff members are:

Title	Minimum Annual	Maximum Annual
Director Forensic Chemist I	\$19,240.69 15,861.43	\$23,387.09
Minimum Total	\$35,102.12	

Other expenses for the laboratory include equipment, supplies, maintenance, travel, and capital improvements. Between 1975 and 1978 the laboratory expended a total of \$211,412.00, of which \$163,505.00 was provided by MCCJ. (Refer to Appendix B-1 for Four-Year Funding History)

# Findings and Recommendations for Section I, Organization

The primary assessment of the laboratory's organization and management provokes concern about the lack of certain basic organizational tools and management pro-

Finding 1:

Recommendation 1:

The laboratory does not possess and apparently is not a part of any type of organizational chart. As per the ASCLAD Standards, a clear, concise, and well understood organizational chart should be developed depicting the placement of the laboratory within the department. This should also establish the basis for the Director's authority, which he indicates is presently not well established. The laboratory has no written or stated list or set of objectives.

Finding 2:

Recommendation 2: The lature underst function Finding 3: Accord: have a program Recommendation 3: As per be give improve develop science nature. Finding 4: The ind

Recommendation 4:

This finding pertains to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II.

# 2

Procedures within the laboratory as they apply to evidence receipt, handling, flow, analysis, and security are primarily complete and thorough. A written chain of custody record is utilized by the laboratory for all necessary data and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination.

The laboratory's three staff members have access to approximately \$200,000.00 worth of nonexpendable laboratory and office equipment. Limitations to laboratory analysis capabilities were determined by the Director to be not necessarily in a particular field or evidence type as much as the laboratory is restricted by inadequate manpower, instrumentation, and facilities.

The laboratory should develop a set of clear, well understood operational objectives upon which to function.

According to the Director, the laboratory does not have a formalized training or employee development program.

As per the ASCLAD Standards, consideration should be given to possible options for upgrading and improvement of current methods of training and development of employees, especially as the forensic sciences are becoming more and more exacting by nature.

The indication of the Director was that laboratories are not standardized to:

> -Improve the evidence analysis process -Decrease case backlog -Compile and exchange technical data between laboratories to reduce analysis

time

SECTION II

#### Operations

	Findings and Recommendations for
	Section II, Operations
Finding 1:	According to the Director, the laboratory does
	not possess written technical procedures for each
	of its disciplines.
Recommendation 1:	As per the ASCLAD Standards, the laboratory should
	develop or obtain written procedures for each of
	its disciplines.
Finding 2:	According to the Director, the laboratory does
	not participate in proficiency testing by indepen-
	dent agencies or by using either the blend or the
	re-exam technique.
Recommendation 2:	As per the ASCLAD Standards, proficiency testing
	practices involving different techniques and/or
	through the use of outside agencies should be
	explored.
Finding 3:	The laboratory has no written procedures for con-
	trol of materials and supplies.
Recommendation 3:	As per the ASCLAD Standards, the laboratory should
	develop written procedures for control of materials
	and supplies.
Finding 4:	The director has not designed or implemented a
	reporting system that provides data relevant to
	the laboratory's involvement in:
	-Reported crimes
	-Investigated crimes -Suspects identified
	-Suspects identified -Suspects cleared
	-Suspects charged
	-Prosecutions
	-Acquittals -Convictions
<u> </u>	
Recommendation 4:	This finding pertains to an NAC Standard and is

Case - As defined by the Laboratory Director is all evidence, parties, and suspects pertaining to one particular incident. Evidence - As defined by the Laboratory Director is all physical items received by the laboratory for analysis. Examination - As defined by the Laboratory Director is a particular disciplinary test that is performed upon the evidence. One examination is synonomous with one test.

written and typed.

Turnaround time figures for the laboratory were calculated from caseload records beginning on January 1, 1977, and ending on December 31, 1978, inclusive. These calculations were made in terms of the average number of days taken to meet the turnaround time requirements for each type of case as defined by the Region II Laboratory Director. The figures are indicative of 25 percent of the entire caseload for each of the respective years indicated above as 25 percent of all cases received during the two-year period was sampled.

# Total Number of Cases Received Annually

Year	Cases	<pre>% Increase or Decrease</pre>
1975 1976	Not Available 464	
1977 1978	1,080 707	+58% -35%

A total of 2,251 cases was received between 1976 and 1978 for a yearly average of 750 cases. The above shows the respective yearly percentage increase/decrease in cases received.

These records are not maintained by the laboratory.

The Laboratory Director indicated these figures were not available.

100

Re

nd is addressed to all laboratories as a whole in Volume II.

### SECTION III

#### Activities

Turnaround Time - As defined by the Laboratory Director is the time elapsing between when evidence is entered in the log (received) and when the report is

#### Examinations Conducted Per Year

#### Number of Miles Traveled During Calendar Year

#### Total Number of Court Appearances Annually

The Laboratory Director indicated these figures were not available.

#### Activity Statistics for Breakdown of Caseload, Examination Totals, Case Percentage, and Turnaround Time

	Total	% of Total	Total Exami-	Avg. Turn-		
Type of Case	Cases	Cases	nations by	around Time		
	1977	1977	Type 1977	in Days		
Narcotic & Drug Violation	775	71.00%		9.03		
Miscellaneous (Includes	61	5.60	N	52.51		
shooting incidences			0			
homicides/suicides)			t			
Burglary	55	5.00		29.64		
Arson	30	2.50	r	53.95		
Blood	28	2.00	е	13.75		
Liquor Law Violation	28	2.00	С	10.47		
Rape	21	1.90	0	25.61		
Assault	12	1.00	r	3.75		
Destruction of Property	10	.90	đ	Not Sampled		
Hit and Run	10	.90	е	Not Sampled		
Robbery	10	.90	đ	Not Sampled		
Homicide	9	.80		1.4.50		
Accident	8	.70	b	Not Sampled		
Suicide	7	.60	У	8.80		
Investigation of Death	6	.50		64.00		
Firearms Ident (Ballistics)	4	.30	t	Not Sampled		
Larceny	3	.20	У	7.20		
Forgery	1	.09	p	Not Sampled		
Fraud	1	.09	e	42.00		
Poisoning	1	.09		Not Sampled		
TOTALS	1,080	98.00%*				
	Sampled	Only During 19	78			
		plete Totals)				
Vandalism	6	}		18.83		
Bombs	5			77.60		
Gunshot Residue	3			35.35		
Paint	3			79.00		
Glass	2	1		1.50		
Fingerprints	1		1	1.00		
Hair	1			46.00		
Metal	1			24.00		
Sodomy	1			1.00		
	1977 & 1978 OVERALL AVERAGE TURNAROUND TIME IN DAYS 17.40					

*2% due to rounding error

Of the 1,080 cases received in 1977, 888 involved four types of evidence and represented 80 percent of the overall caseload.

Section III, Activities Finding 1: The evidence for the laboratory overwhelmingly indicated that efforts to maintain basic laboratory activities statistics have, in the past, been seriously neglected. In each of the activity components of concern to this report, partial or complete components of entire years of records were not available or were not maintained. Recommendation 1: As per the ASCLAD Standards and proper management practices, the laboratory must begin complete compilation efforts with regard to annual caseload totals and breakdowns, examinations conducted per year, and court presentations and miles traveled per year. It is also suggested that the laboratory begin to maintain records of annual or monthly turnaround time for each evidence type category. These types of records are vital in their relationship to future efforts to determine laboratory activity accountability and funding allocations.

12 .

Of the police respondents, four agencies utilize the laboratory on a primary basis while four agencies utilize the laboratory on a secondary basis. Of the composite of reasons given by police agencies for using the laboratory, the most significant were:

The police agencies sometimes encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

# Findings and Recommendations for

#### SECTION IV

Laboratory Users Assessment of the Region II, Springfield Metropolitan Police Department Criminalistics Laboratory

#### Police

### -Geographic proximity -Dependability

## Sheriffs

Of the sheriff respondents, four agencies utilize the laboratory on a primary basis while four others utilize the laboratory on a secondary basis. Of the composite of reasons given by sheriffs' agencies for using the laboratory, the most significant were:

### -Geographic proximity -Quick service

The sheriffs' agencies seldom encountered conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

### Prosecuting Attorneys

Of the prosecuting attorneys who responded, four of them utilize the laboratory on a primary basis while four others utilize the laboratory on a secondary basis. Of the composite of reasons given by prosecuting attorneys for using the laboratory, the most significant were:

#### -Geographic proximity -Dependability

The prosecutors sometimes encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

MCCJ Grant Number	1975	1976	1977	1978
75-ACD2-B017	F 44,254.00 L 6,083.00			
76-ACD2-B005		F 47,044.00 L 8,555.00		
77-ACD2-B006			F 34,340.00 L 5,986.00	
78-acd2-b002				F 37,867.00 L 15,484.00
TOTALS	\$50,337.00	\$55,599.00	\$40,326.00	\$53,351.00

#### OTHER FUNDING SOURCES FOR THE REGION II CRIMINALISTICS LABORATORY

Source	1975	1976	1977	1978
State of Mo. (Buy-In)				7,000.00
SMSU		4,800.00		
	GRAND TOTAL	\$211,413.00		

APPENDIX B-1

#### FEDERAL AND LOCAL FUNDING HISTORY FOR THE REGION II CRIMINALISTICS LABORATORY



September 17, 1979

Mr. G. P. Maddox Evaluation Specialist Department of Public Safety Missouri Council on Criminal Justice 621 E. Capitol -- P. O. Box 1041 Jefferson City, MO 65102

Dear Mr. Maddox:

Attached you will find the response to your findings of the Region II, Springfield Criminalistics Laboratory, as per your request in your letter of August 31, 1979.

Sincerely yours,

GORDON LOVELAND CHIEF OF POLICE by

Don Smith, Director 1 ST Region II Criminalistics Laboratory

DS/kw/700

Enclosure

Police Headquarters 321 East Chestnut Expressway Springfield, Missouri 65802 Phone 862-2222

HTP18 RECTO

# REPLY TO MISSOURI CRIMINALISTICS LABORATORY STUDY

Section I

Finding 1 - Job responsibilities are clear. The chemist and laboratory aide report to the director. The director reports to chief of police. Basic functions: span of control, delegation of authority, assignment of responsibility, are all in perspective.

Finding 2 - There is no resource committment to permit internal

- laboratory objectives. Objectives of the laboratory are: 1. In integrated part of the Police Department (logistical
  - procedure)
- 2. MACLD (philosophically)

Finding 3 - Insufficient resources to provide formalized training (personnel and funding). Every available workshop, seminar, or cross training session available is utilized.

Finding 4 - Insufficient staffing to provide this data. The guidelines provide for technical data exchanged with MACLD, FBI, and ASCLD.

Section II

- Finding 1 Nationally and internationally unavailable. Several alternative methods are provided the analyst. He seeks those he is most comfortable with.
- Finding 2 FSF has poor laboratories as witnessed by poor national participation. LEAA has published findings out of context and established bad recognition in the laboratories. There are no good proficiency testing facilities available. Some interchange of sampling within the state has been the most effective.
- Finding 3 Only two people working behind locked door have access to the supplies. A notebook is kept to re-order; and unlike colleges or universities, no one else has access to our supplies.

Don Smith kw/a/3141

The Region III Criminalistics Laboratory is a section of the University of Missouri - Columbia Research Reactor facility and the Environmental Trace Substance Center in Columbia, Missouri. All staff members are under the immediate supervision of Dr. J. Steven Morris, Ph.D., who reports to Dr. Robert M. Brugger, Research Reactor Director. (Refer to Laboratory Organizational Chart, Appendix

With the assistance of MCCJ funding, the laboratory became operational in 1970. Located in two separate facilities of the University, the laboratory utilizes a total of 1,800 square feet of space for both routine evidence analysis and neutron activation analysis. Both facilities also contain other laboratories which can be, and are, utilized at times for evidence analysis.

Staffed by one full time and four part time employees, the crime laboratory services an average of 36 agencies per year. (Refer to the Crime Laboratory Users Index, Page 25)

Clear, accurate job descriptions were found to exist for all staff members. It was indicated and observed that the staff was aware of and understood such written descriptions and that they governed their on-the-job activities accordingly.

Training and education for staff members consists only of on-the-job training The University of Missouri determines all written personnel policies that

and a required relevant baccalaureate degree for the examiners. affect laboratory staff. The staff indicated an awareness and understanding of such policies.

Laboratory records are maintained manually; however, the laboratory does have access to the University's computer system. Manual procedures are considered by the evaluator to be adequate for this size of operation.

# REGION III, UNIVERSITY OF MISSOURI CRIMINALISTICS LABORATORY

# SECTION I

# Organization and Management

For the year 1978, the laboratory had an identifiable budget of \$29,900.00. Included in this total is 10 percent of the Director's salary, 100 percent of the full time criminalist's salary, 5 percent salary for two consultants, and 15 percent salary for the secretary, or 57 percent of the identified budget. Annual salary ranges and percent of time for laboratory staff are as follows:

Title	Minimum Annual	Maximum Annual
Director (10% time) Two Consultants (5% time) Forensic Chemist (100% time) Secretary (15% time)	\$ 1,850.00 1,280.00 13,500.00 1,000.00	Not Avail. Not Avail. \$14,500.00 Not Avail.
Minimum Total	\$17,630.00	

Other expenses include travel, equipment, and supplies. Between 1975 and 1978, the laboratory expended a total of \$151,181.00, of which \$134,380.00 was provided by MCCJ. (Refer to Appendix C-2 for Four-Year Funding History)

# Findings and Recommendations for Section I, Organization

Finding 1:

While there was an organizational chart depicting the hierarchy of laboratory members within the laboratory, no chart was available to indicate the placement of the laboratory within the overall research reactor or university structure. Recommendation 1: As per the ASCLAD Standards, an organizational chart should be constructed depicting the placement of the laboratory within the research reactor and/or the entire university structure. Finding 2: The laboratory has no long range set or list of objectives. Recommendation 2: As per the ASCLAD Standards, a clearly written and well understood set of long range objectives should be developed for laboratory operations. Finding 3: According to the Director, the laboratory has no formalized training or employee development program. Recommendation 3: As per the ASCLAD Standards, the laboratory should consider the available options for improvement and upgrading of current methods of training and employee Finding 4:

Recommendation 4:

Procedures within the laboratory as they apply to evidence receipt, handling, flow, analysis, and security were found to be rather incomplete. This evaluator found that while written policies did exist for equipment inventory (through university policy), other written operational procedures within the laboratory were seriously lacking. No written procedures existed concerning the handling of evidence; preparation, storage, and destruction of case records or reports; control of material and supplies; or maintenance of equipment. The laboratory further was found to have no written procedures to protect evidence from experiencing deterious change; however, the Director advised and the evaluator's inspection revealed that the laboratory does not receive evidence which falls into this category. It was determined that the laboratory does utilize a written chain of custody record for all necessary data and that all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination.

The laboratory's three staff members have access to approximately \$200,000.00 worth of nonexpendable laboratory and office equipment (this excludes the analysis components of the reactor facility itself). Limitations to the laboratory's analysis/identification capabilities, according to the Director, lie mainly with the fact that the laboratory is capable primarily of only drug analysis and trace elements.

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development.

The indication of the director was that laboratories are not standardized to:

- -Improve the evidence analysis process -Decrease case backlog
- -Compile technical data which could be exchanged between laboratories to reduce analysis time

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II.

### SECTION II

### Operations

# Findings and Recommendations for Section II, Operations

have written procedures on:

Finding 1:

According to the Director, the laboratory does not participate in proficiency testing programs conducted by an independent agency.

Recommendation 1:

As per the ASCLAD Standards, the availability and efficiency of proficiency testing programs involving outside and/or independent agencies should be explored. According to the Director, the laboratory does not

Finding 2:

-Handling of evidence -Preparation, storage, and destruction of case records or reports -Control of materials and supplies -Maintenance of equipment

Recommendation 2:

Finding 3:

As per the ASCLAD Standards and proper management principles, the laboratory should develop well understood written policies regarding the operational components listed in Finding 2. The Director has not designed or implemented a reporting system that provides data relevant to the laboratory's involvement in:

> -Reported crimes -Investigated crimes -Suspects identified or located -Suspects cleared -Prosecutions -Acquittals -Convictions

Recommendation 3:

Finding 4:

Recommendation 4:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II. According to the Director, the laboratory does not develop or disseminate evidence kits. Positive public relations and improved evidence gathering techniques would be realized through the development and dissemination of evidence collection kits to area law enforcement agencies.

Case - As defined by the Laboratory Director is that collection of evidence samples received having to do with a particular crime or set of crimes committed by the same person or group acting as one. Evidence - As defined by the Laboratory Director is item(s) upon which one could potentially make an analytical determination. Each unique part or piece of evidence is considered separately. Examination - As defined by the Laboratory Director is any unique determination or analysis of a particular piece of evidence. Turnaround Time - As defined by the Laboratory Director is that time which elapses between when evidence is submitted and the time when the requesting agency is informed of the results of the examination(s), normally by telephone. This does not include the time that it takes to write and type the report which is usually within one day.

Turnaround time figures for the laboratory were calculated from laboratory records consisting of copies of letters sent to submitting agencies with regard to evidence analysis results from April 1, 1978, to December 31, 1978. It was found that the only documentation of "in-out" time in days for evidence received over the four-year period was by the dates reflected in some of these letters. The following figures are therefore not indicative of the entire caseload and could only be collected for the 1978 year of operation.

Year	Cases	<pre>% Increase or Decrease</pre>
1975 1976 1977 1978	587 248 None 65	- 42% -161% (from 1976)

A total of 900 cases were received over the four-year period for a yearly average of 225. The above table indicates the respective yearly decreases in cases received.

It should be noted that after September 1976, the Statewide Neutron Activation Analysis Program was discontinued and the Region III Crime Laboratory was

### SECTION III

# Activities

# Total Number of Cases Received Annually

left virtually inactive until April 1, 1978; however, records do indicate that the laboratory did receive funds from MCCJ for fiscal year 1977.

Examinations Conducted Per Year

Year	Examinations	<pre>% Increase or Decrease</pre>
1975	6,400	
1976	2,660	-59%
1977	None	
1978	760	-72%
		(from 1976)

Four-year totals for examinations reveal that the laboratory conducted 9,820 examinations from 1975 through 1978. The average yearly number of examinations conducted by the laboratory for the three years of operation was 3,273. The above table shows the respective yearly decrease in examinations over the three active years.

# Number of Miles Traveled During Calendar Year

These records are not kept by the laboratory.

### Number of Court Appearances Annually

The average yearly number of court appearances for the laboratory staff

is 20.

Activity Statistics for Breakdown of Caseload Totals, Percentages, and Turnaround Time

Case Types 1975-1978	Total Cases 1975-78	% of Overall Caseload 1975-78	Indívidual Examinations 1975-1978	Average Turnaround Time in Days 4/1/78-12/31/78
N.A.A. Gunshot Residue Hair Paint Glass Metal Putty Dust Drugs	590 22 6 4 2 1 1 104	65.0% 2.4 .6 .4 .2 .1 .1 11.5	N o t r e c o r	21.0 108.0 Not Sampled 102.5 6.0 Not Sampled Not Sampled 29.8
Marijuana Alcohol	155 15	17.2 1.6	d e	16.0 11.3
TOTALS	900	99.1%*	đ	27.8

*.9% due to rounding error

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Of the 900 cases received from 1975 through 1978, approximately 93 percent involved analysis activities of two major types of evidence.

The overall assessment of laboratory activities record keeping is average. As per the ASCLAD Standards and proper management techniques, some areas of concern and/or findings where attention should be directed for purposes of future accountability and possible funding allocations are:

Finding 1:

Finding 2:

Finding 3:

Recommendation 1:

Statistics regarding the above findings and all other aspects of the laboratory's activities, including average turnaround time and total examinations by type of evidence, should be maintained.

Of the police respondents, there were no agencies using the laboratory on either a primary or secondary basis.

Of the sheriff respondents, one agency utilizes the laboratory on a primary basis while two agencies utilize the laboratory on a secondary basis. Of the composite of reasons given by sheriffs' agencies for using the laboratory, the most significant were:

# Findings and Recommendations for Section III, Activities

- Annual mileage records are not maintained by the laboratory.
- Analysis completion dates are not maintained by the laboratory.
- Examination totals are not maintained by evidence type.

# SECTION IV

# Laboratory Users Assessment of the Region III, University of Missouri Criminalistics Laboratory

### Police

# Sheriffs

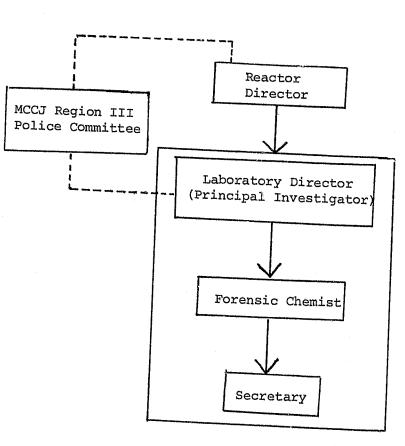
-Geographic proximity -Quick service

The sheriffs' agencies never encountered conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is sometimes responsive to urgent or emergency analysis needs situations.

# Prosecuting Attorneys

Of the prosecuting attorneys who responded, none of them use the laboratory on either a primary or secondary basis.

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APPENDIX C-1

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ORGANIZATIONAL STRUCTURE

Region III Criminalistics Laboratory

University of Missouri's Research Reactor Facility and Environmental Trace Substances Research Center

# APPENDIX C-2

# FEDERAL AND LOCAL FUNDING HISTORY FOR THE REGION III CRIMINALISTICS LABORATORY

MCCJ Grant Number	1975	1976	1977	1978
75-ACD2-C014	F 12,942.00 L 1,901.00			
75-ACD2-MU01	F 44,685.00 L 5,000.00			
76-ACD2-MU02		F 45,000.00 L 5,900.00		
77-ACD2-C024			F 5,268.00 L 585.00	
78-ACD2-C011				F 26,485.00 L 3,415.00
TOTALS	64,528.00	50,900.00	5,853.00	29,900.00

The Region IV Criminalistics Laboratory is a section of the Department of Law Enforcement and Corrections at Northeast Missouri State University (NEMSU) in Kirksville, Missouri. The laboratory director, Dr. Matthew Eichor, has both immediate and ultimate supervisory responsibility of the laboratory as he is also the Director of the Department of Law Enforcement and Corrections. No organizational chart was available.

In operation since July 1973, the laboratory is located in the Science Hall of the Northeast Missouri State University campus. The laboratory is accommodated with 1,500 square feet of physical space, of which approximately 1,300 square feet is bench space.

The laboratory is staffed by three part-time employees who serve an average of 14 agencies per year according to 1975-1977 figures. (Refer to the Crime Laboratory Users Index, Page 25)

No written job descriptions were found to exist for laboratory staff members. Training and educational requirements for staff members include on-the-job training for new employees and a required, relevant baccalaureate degree.

The administrative function of Northeast Missouri State University determines all written personnel policies that affect laboratory staff. The staff indicated that they were aware of and understood such policies.

Laboratory records are maintained in a manual fashion; however, the laboratory does have access to the University computer facilities. The belief of this evaluator is that the manual system is very adequate for the laboratory's opera-

For FY 1978, the laboratory reflects an approximate identifiable budget of \$18,500.00. Included in this total is 40 percent and 50 percent respectively of the two professional staff salaries which is the total time spent in the laboratory. Annual salaries for staff members are:

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# REGION IV, NORTHEAST MISSOURI STATE UNIVERSITY CRIMINALISTICS LABORATORY

# SECTION I

# Organization and Management

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Title	Minimum Annual	Maximum Annual
Director	\$25,000.00 x 40%	
	time + \$500 for di	recting laboratory
Chemist	10,000.00 x 50%	Unknown
	time	
Secretary	Unknown 10%	Unknown
	time	
Minimum Total	\$18,500.00	

Other known expenses include supplies for the laboratory. The total budget for the laboratory is figured into the total Law Enforcement Department budget and therefore exact laboratory expenditures could not be determined. MCCJ funds were awarded to the laboratory only during FY 1977. No complete four-year funding history could be offered or calculated. (Refer to Appendix D-1 for MCCJ Funding Chart)

# Findings and Recommendations for Section I, Organization

The fundamental assessment of administrative and organizational practices within the laboratory is one which causes immediate and critical concern over several major deficiencies in this area which include:

laboratory.

Finding 1: Recommendation 1: No organizational charts exist for the laboratory. As per basic principles of management, the laboratory should develop an organizational chart depicting not only the delineation of members within the laboratory, but also clearly indicating the placement of the laboratory within the overall departmental and University organizational framework.

Finding 2:

Recommendation 2:

Finding 3:

As per the ASCLAD Standards, the laboratory should develop a clearly written, well understood set or list of objectives by which to operate. According to the Director, no formal training or employee development program is available at the laboratory.

No written objectives were found to exist for the

Recommendation 3: Finding 4: Recommendation 4: Finding 5:

Recommendation 5:

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II.

Although seemingly well understood, procedures within the laboratory were, for the most part, not written with regard to evidence receipt, handling, flow, analysis, security, and disposition. The laboratory does utilize a written chain of custody record for all necessary data and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination.

Department equipment.

of chemical analysis.

As per the ASCLAD Standards, the laboratory should explore the availability and the possibility of obtaining a formal training and employee development program for professional staff.

The laboratory does not operate on a distinct, clearly discernable, independent budget.

For purposes of future accountability and as per proper management techniques, the laboratory should be operated on a distinct, well documented and accurate budget, preferably independent from the Department of Law Enforcement's operating budget.

The director indicated that crime laboratories are not standardized to:

-Improve the evidence analysis process -Decrease case backlog

-Compile technical data which could be exchanged between laboratories to reduce analysis time

### SECTION I.I

### Operations

The laboratory's three part-time staff members have access to \$31,000.00 worth of equipment in the Law Enforcement Department and an unknown amount of Science

Limitations to laboratory analysis capabilities were determined, by the Director, to be that the laboratory is restricted in function, primarily, to that

# Findings and Recommendations for Section II, Operations

Finding 1:

According to the Director, the laboratory does not possess written technical procedures for each of its disciplines.

Recommendation 1:

As per the ASCLAD Standards, the laboratory should develop or obtain written procedures for each of its disciplines.

Finding 2:

The laboratory does not have written procedures on:

-Handling of evidence -Preparation, storage, and destruction of case records and reports -Maintenance of equipment -Normal duty hours -Extra duty hours

Recommendation 2:

Finding 3:

As per the ASCLAD Standards, the laboratory should develop clearly written, well understood procedures for each component listed in Finding No. 2. The Director has not designed or implemented a reporting system that provides data relevant to the laboratory's involvement in:

-Reported crimes -Suspects identified/located -Suspects cleared -Suspects charged -Prosecutions -Acquittals -Convictions

Recommendation 3:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II.

# SECTION III

### Activities

Case - As defined by the Director is all evidence submitted regarding one incident.

Evidence - As defined by the Director is any real or physical tangible item that is related to a criminal incident. Examination - As defined by the Director is to look at one item of evidence and to make one particular statement about that item. Turnaround Time - As defined by the Director is the time which elapses from the date of receipt of evidence to the date the report is typed and sent to the submitting agency.

Turnaround time figures were calculated from caseload figures beginning on January 1, 1975, and ending on May 30, 1978, inclusive. These calculations were made in terms of the average number of days taken to meet the turnaround time requirements for each type of case as defined by the Region IV Laboratory Director. The figures are indicative of the entire caseload where receipt dates and completion dates were available. Some dates were missing from records over the sample period and could not, therefore, be used in the sample.

Year	Cases	% Increase or Decrease
1975 1976 1977 1978	50 66 126 82	+25% +52% -35%

A total of 324 cases were received over the four-year period for a yearly average of 81 cases. The above table indicates the respective yearly percentage increase in cases received.

Year	Examinations	% Increase or Decrease
1975 1976 1977 1978	294 508 686 447	+43% +36% -35%

A total of 1,935 examinations were conducted over the four-year period. Yearly increases/decreases are shown above.

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Total Cases Received Annually

# Examinations Conducted Per Year

Number of Miles Traveled During Calendar Year

Records not maintained by the laboratory.

Total Number of Court Appearances Annually

Not provided

# Activity Statistics for Breakdown of Caseload, Examination Totals, Case Type and Turnaround Time

Type of Case 1975-1978	Total Cases 1975-78	% of Total Cases	Total Exami- nations by type 1975-1978	Avg. Turn- around Time in Days 1/1/75-5/31/78
Narcotics & Drug Law Viol. Arson Blood Alcohol Gasoline Toxicology Hit & Run Breaking & Entering Miscellaneous	N p orto v i d e d	N a o v t a i a b l e	1,706 15 38 90 86	37.9 95.5 104.6 16.1 14.0 Not sampled 131.0 Not sampled Not sampled
TOTAL	324		1,935	39.6

# Findings and Recommendations for Section III, Activities

The overall assessment of the laboratory's activities record keeping procedures indicates some areas of concern. As per the ASCLAD Standards and proper management techniques, areas of findings and the subsequent recommendations for improvement for purposes of future accountability and possible funding allocations are:

Finding 1:

Complete, well documented activities records were either not available or not provided for Miles Traveled During Calendar Year and Number of Court Appearances Annually.

Recommendation 1:

Accurate, up to date and well documented activities records should be maintained on a monthly and/or annual basis for all activities components outlined in this section. Further, accurate receipt and completion dates should be maintained for all cases submitted to the laboratory as several cases were found to be entered into the case log between 1975 and 1978 yet no indication was made within the log, or elsewhere, that would indicate dates of analysis completion and/or case disposition.

Of the police respondents, one agency utilizes the laboratory on a primary basis and one agency utilizes the laboratory on a secondary basis. The only reason given by the police agencies for using the laboratory is:

The police agencies seldom encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is always responsive in urgent or emergency analysis needs situations.

Of the sheriff respondents, two agencies utilize the laboratory on a primary basis and one agency utilizes the laboratory on a secondary basis. The reasons given by the sheriffs' agencies for utilizing the laboratory were:

The sheriffs' agencies seldom encounter conflicts in scheduling expert testimony for the examiners and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

Of the prosecuting attorneys who responded, only two of them utilize the laboratory and always on a primary basis. The only reason given by the prosecutors for using the laboratory was:

The prosecutors sometimes encounter conflicts in scheduling expert testimony of the examiners and they indicated that the laboratory was often responsive to urgent or emergency analysis needs situations.

# SECTION IV

Laboratory Users Assessment of the Region IV Northeast Missouri State University Criminalistics Laboratory

# Police

-Geographic proximity

# Sheriffs

-Geographic proximity -Quick analysis of small or simple evidence

# Prosecuting Attorneys

# -Geographic proximity

# NORTHEAST MISSOURI STATE UNIVERSITY

FEDERAL AND LOCAL FUNDING HISTORY FOR THE REGION IV CRIMINALISTICS LABORATORY

MCCJ Grant Number	1975	1976	1977	1978	1979
77-ACD2-D024		-	F 7,500.00 L 833.00		
TOTAL	and a start for the start of the start of		8,333.00		
		GRAND TOTA	L \$8,333.00		

September 14, 1979

Gary Maddox Missouri Council on Criminal Justice 621 East Capitol - P.O. Box 1041 Jefferson City, MO. 65102

Dear Sir:

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1 :

Enclosed please find the responses to the evaluation of the Northeast Area Criminalistic Laboratory. I appreciate the opportunity for a response.

I also appreciate you and your agencies continual concern about improving service to area Law Enforcement and Criminal Justice agencies.

Sincerely,

Matt Eiler

Matt Eichor, PhD. Director, Northeast Area Criminalistics Laboratory

ME/cs Enclosure Kirksville, 63501

RESPONSE TO CRIME LABORATORY REPORT NORTHEAST AREA (MCCJ Region IV) LABORATORY

The Crime Laboratory located on the Northeast Missouri State University campus is a direct result of area law enforcement agencies request for criminalistics service. Prior to 1973, several approaches were made to the University and finally in 1973, a laboratory was started. Cases were being processed in late 1973 and have continued to be processed on an on-going basis.

The laboratory has dedicated physical facilities and additionally has the use of all of the sophisticated equipment in the Science Division. Security is maintain-The primary objectives of the laboratory is that of providing service to area

ed for all evidence via controlled access and an elaborate alarm system. criminal justice agencies. These services should be available regardless of population density and size of the agency. Further, laboratory services should be involved at the investigatory stages was well as the prosecution. Implementation of this investigatory aid requires that the laboratories be more accessible and responsive to area needs.

Every other activity (i.e. administrative function, acitivity records, training, gathering of statistics, etc.) that a laboratory is involved in must be a secondary objective and a support activity for the services that are rendered to investigators and criminal justice agencies.

At the same time it is recognized that principles of management are necessary for proper functioning and accountability. However, when any secondary support activity becomes a deterrent to the provision of services then this activity must be carefully evaluated and reassigned its proper priority.

# Overview

It should be mentioned that from the beginning of the evaluation to present at least two separate MCCJ staff members have been involved, and over one year has elapsed. The second MCCJ evaluator, talked to the Northeast Missouri State Univerity laboratory Director at most, 45 minutes via telephone.

Northeast Missouri State University takes pride in its service to area Law Enforcement and Criminal Justice agencies. Thus it is our hope that this evaluation will be the beginning of a continual effort to upgrade our services and hopefully it will not be viewed as a final document on crime laboratories in Missouri.

The remaining portion of this response will be in the same format as that used in the evaluation. The finding will be repeated and then the response to that finding.

# Findings and Responses for Section I, Organization

Finding 1:

Response 1:

No organizational charts existed for the laboratory. Having an organizational chart for a two man laboratory serves an extremely limited function. Individual position's are well understood. Responsibilities within the laboratory are well understood. With two individuals communication is well understood. The placement within the University structure is also well understood.

Finding 2:

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No written objectives were found to exist for the laboratory

Response 2:

# Finding 3:

Response 3:

Finding 4:

Response 4:

Though previously not written, the laboratory objectives have always been well understood. The objectives as indicated earlier will be adopted as our written objectives: It should be pointed out that the "ASCLAD standards" referred to in the recommendation are not standards of any organization but are the result of a committee report, as of this date no action of any kind has been taken on these recommendations. According to the Director, no formal training or employee development program is available at the laboratory.

No formal written employee development program does exist. In FY 1978-79, the two employees at the laboratory participated in six separate schools including such topics as gunshot residue analysis, liquid chromatography, management, serology, and electrophoresis In-service training has been, is, and will continue to be an important part of the laboratory.

The laboratory does not operate on a distinct, clearly discernable, independent budget.

All expenditures (laboratory or otherwise) are distinct, well documented and available. It would, however, be difficult to account for instrument time usage. There is no objection to having a different budget arrangement if this will enhance our primary mission.

Grant assistance for the laboratory through MCCJ has always been handled per this recommendation. The director indicated that crime laboratories are not standardized to:

> -Improve the evidence analysis process -Decrease case backlog -Compile technical data which could be exchanged between laboratories to reduce analysis time

Response 5:

Finding 5:

This finding is correct. It should be pointed out that the MAPPS recommendation was one that crime laboratory people were instrumental in having included in the Missouri Action Plan for Public Safety. The Missouri Council on Criminal Justice currently has a proposal before them to fund a grant project to assist with this finding and recommendation.

# Section II

# Operations

It must be remembered that the laboratory is a two man operation. The Director-Chemist and Chemist have constant contact. Evidence receipt, handling, flow, analysis, security and all matters regarding the evidence are well understood. All legal concerns are well understood and properly handled.

The laboratory's staff has access to well over \$300,000 worth of equipment, not \$31,000 as indicated by the evaluator.

Findings and Responses for Sections II, Operations Finding 3:

Finding 1:

Response 1:

Finding 2:

Response 2:

nical need. The la

As has been pointed out previously the laboratory is a two man operation. All of the above procedures are <u>well understood</u>. It is recognized that written procedures would be desirable and the laboratory will strive to accomplish this.

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The Director has not designed or implemented a reporting system that provides data relevant to the laboratory's involvement in:

According to the Director, the Laboratory does not possess written technical procedures for each of its disciplines.

This finding is correct however, the evaluator(s) failed to understand that technical procedures are generally not available anywhere for performing the required analysis. Indeed the scientific community needs to be able to adapt the latest advances in science to forensic problems. Detailed written technical procedures do not necessarily accomplish this need.

The laboratory does not have written procedures for:

-Handling of evidence -Preparation, storage, and destruction of case records and reports -Maintenance of equipment -Normal duty hours -Extra duty hours

-Reported crimes -Suspects identified/located -Suspects cleared -Suspects charged

# -Prosecutions -Acquittals -Convictions

Response 3:

The above finding is correct. The laboratory would be anxious to be involved in providing this data as it would be important to evaluate the laboratories role in this area.

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The Missouri Council on Criminal Justice will undoubtedly be anxious to fund a project for each laboratory that will allow this data to be extracted.

# Section III

# Activities

Activity statistics were provided as the report suggests. Though the data would be difficult to extract, the responder must question the data on turn around. This is also completely contrary to the user survey information. Finally it does not take into account the way the laboratory assists in the investigation phases.

# Findings and Responses for Section III, Activities

Finding 1:

Complete, well documented activities records were either not available or not provided for Total Cases Received Annually, Miles Traveled during Calendar year, and Number of Court Appearances Annually.

Response 1:

Activity records were provided. It is agreed that better records should be maintained. Part of the concern of incomplete records is again a failure of the evaluators to understand the laboratory's role in the early stages of an investigation.

### REGION V, ST. LOUIS COUNTY CRIMINALISTICS LABORATORY

The Region V St. Louis County Criminalistics Laboratory is a section of the Bureau of Criminal Identification for the St. Louis County Police Department. The laboratory is under the immediate supervision of the Director, Mr. Robert Roither, who is ultimately responsible to the Assistant Bureau Director of the Forensics Unit of the St. Louis County Police Department. (Refer to Organizational Chart, Appendix E-la and E-1b)

In operation since 1966, the laboratory is located within the basement of the St. Louis County Police Department building in Clayton, Missouri, and is accommodated with approximately 2,873 square feet of physical space, of which approximately 2,500 square feet is working bench space. A staff of ten full time employees maintains the laboratory which served 86 agencies during 1978; however, no records were available to document agencies served in other years. (Refer to the Crime Laboratory Users Index, Page 25.)

Employees of the laboratory were found to have clearly written, apparently accurate job descriptions dictating their laboratory activities. The indication and observation was that the staff was aware of and understood such descriptions and governed their professional activities accordingly.

Professional training and education for staff members consists of on-the-job training and a required, relevant four-year baccalaureate degree.

The St. Louis County Police Department determines all written personnel policies that affect laboratory staff. Laboratory employees expressed an awareness and an understanding of all such written regulations.

Laboratory records are maintained in manual fashion; however, access to the Police Department's Records Section computers is available. The opinion of this evaluator is that the volume of work handled by the laboratory suggests that a computerized records system would be markedly more dependable and efficient than is the current method.

### SECTION I

# Organization and Management

For FY 1978, the laboratory reflects an identifiable budget of \$205,274.00. Included in this figure is a minimum dollar amount for staff salaries of \$133,296.00, or at least 65 percent of the identified budget for FY 1978. Annual salary ranges for laboratory staff members are:

Title	Minimum Annual	Maximum Annual
Laboratory Director (Supervisor)	\$ 16,045.00	\$ 20,643.00
Four Criminalist III	14,575.00	18,560.00
Two Criminalist II	12,705.00	16,045.00
Two Firearm & Toolmark Examiners (Police Officers)	12,705.00	16,045.00
One Clerk Typist	8,131.00	9,695.00
Minimum Total	\$133,296.00	

Other expenses include equipment purchases and maintenance, supplies, and travel. Between 1975 and 1978, the laboratory expended a total of approximately \$624,000.00, of which \$84,758.00 was provided by MCCJ. Other funding sources include only St. Louis County. (Refer to Appendix E-2 for Four-Year Funding History)

# Findings and Recommendations for Section I, Organization

The organizational and administrative components of the laboratory are basically sound and seemingly efficient. Areas where attention to potential problems and/or findings should be directed are:

Finding 1:

Finding 2:

Recommendation 1:

other than those written into the MCCJ grants. As per the ASCLAD Standards and proper management principles, the laboratory should develop a clearly written, well understood list or set of long term objectives by which to direct its operations. The indication of the director was that laboratories are not standardized to:

The laboratory has no written list of objectives

-Improve the evidence analysis process -Decrease case backlog -Compile and exchange technical data between laboratories to reduce analysis time Recommendation 2:

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II.

Procedures within the laboratory with regard to evidence receipt, handling, flow, analysis, security, and disposition are all clearly written and apparently well adhered to. A written chain of custody record is maintained for all necessary data and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination. The ten staff members have access to approximately \$83,000.00 worth of nonexpendable laboratory and office equipment. Limitations to laboratory analysis/identification capabilities, according to the Director, are in the area of questioned documents which the laboratory is incapable of processing.

	Findings
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Finding 1:	Ac
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Recommendation 1:	As
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Finding 3:	Th
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# SECTION II

# Operations

# and Recommendations for tion II, Operations

cording to the Director, the laboratory does not ossess written technical procedures for each of its isciplines.

s per the ASCLAD Standards, the laboratory should evelop or obtain written technical procedures for ach of its disciplines.

coording to the Director, the laboratory does not ave written procedures for control of materials and supplies or for maintenance of equipment. Is per the ASCLAD Standards, the laboratory should evelop written procedures for both the control of aterials and for the maintenance of equipment. The Director has not designed or implemented a eporting system that will provide data relevant to the laboratory's involvement in:

-Reported crimes -Investigated crimes -Suspects identified/located -Suspects cleared -Suspects charged -Prosecutions -Acquittals -Convictions

Recommendation 3:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II.

# SECTION III

# Activities

Case - As defined by the Director is one occurrence or crime from which any evidence is collected.

Evidence - As defined by the Director is anything physical that is brought into the laboratory for analysis or examination.

Examination - As defined by the Director is anything that the laboratory does with the evidence. Examination and analysis are used synonomously in the laboratory (e.g., one analysis is one examination).

Turnaround Time - As defined by the Laboratory Director is the time from when the evidence is submitted until the time that the analysis report is written and sent out.

Turnaround time figures for the laboratory were calculated from caseload records compiled between January 1, 1977, and December 31, 1978, and are representative of a five percent sample of the overall caseload for those two years. It should be noted that where cases involve misdemeanors of marijuana or liquor from St. Louis County, turnaround time figures can be distorted in that unless the offender in each case pleads not guilty, the case is not assigned a number until such time as an opportunity is made available to analyze the evidence which may amount to days, weeks, or months that the evidence lies, more or less, dormant in the evidence room, yet is still active in the log book where it was entered when it was first received.

Year	Cases	% Increase or Decrease
1975	4,575	
1976	5,077	+10%
1977	5,769	+12%
1978	6,570	+13%

A total of 21,991 cases were received over the four-year period for a yearly average of 5,497 cases. The above table shows respective yearly increases in cases received between 1975 and 1978.

Examinations	<pre>% Increase or Decrease</pre>
27.360	
31,483	+13%
37,999	+17%
36,361	- 48
	27,360 31,483 37,999

A total of 133,203 examinations were conducted over the four-year period. The above table shows the respective yearly increases and decreases for a yearly average of 33,300.

# Total Number of Miles Traveled Annually

The monthly average for miles traveled during the years for which the data was available, 1977 and 1978, was 207 miles.

225.

# Total Number of Cases Received Annually

Examinations Conducted Per Year

Total Number of Court Appearances Annually

The average yearly number of court appearances for the laboratory staff is

Activity	Statistics	for 1	Brea	kdown	of
Caseload, E	xamination	Tota.	ls,	Case	Туре
and	Turnaround	Time	197	5-78	

Type of Case*	Total Cases	% of Total Cases	Total Exami- nations by Type	Avg. Turn- around Time in Days
Narcotics & Drugs Alcohol Firearms Identification Miscellaneous§ Spectrophotometer Clothing Process Hair & Fiber Paint Tool Impressions Toxicology Glass Powder Residue Soil	81,229 14,833 14,790 7,193 5,574 4,514 1,699 1,248 780 496 372 291 184	61.0% 11.1 11.1 5.4 4.1 3.3 1.2 0.9 0.5 0.3 0.2 0.2 0.1	N o t r e c o r d e d	31.0 17.3 42.0 Not Sampled Not Sampled Not Sampled Not Sampled 59.0 Not Sampled Not Sampled Not Sampled Not Sampled
TOTALS	133,203	99.0%**		30.2
<pre>§Miscellaneous and other evidence types received Blood Burglary Arson Assault Leaving the Scene Homicide Suicide Rape Bomb Tampering w/motor vehicle Possessing stolen property Larceny Vandalism Possession of Fireworks Auto Theft</pre>				12.3 58.0 58.2 53.8 83.0 17.6 60.0 16.6 13.2 36.6 37.0 3.5 1.0 113.0 86.0

*This information is kept by the laboratory only in terms of the number of different types of analysis conducted and not by total cases received.

**1% due to rounding error.

The overall assessment of activities record keeping procedures for the laboratory is mediocre. Some areas of concern and/or findings as per the ASCLAD Standards and proper management techniques where attention should be directed for purposes of future accountability and possible funding allocations are:

Finding 1:	
Recommendation 1:	
Finding 2:	,
Recommendation 2:	;
Finding 3:	ŗ
Recommendation 3:	1 . :
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	1

1 .:

Of the police respondents, 17 agencies utilize the laboratory on a primary basis while four agencies utilize the laboratory on a secondary basis. Of the composite of reasons given by police agencies for using the laboratory, the most significant were:

> -Geographic proximity -Good relationship -Comprehensive services

# Findings and Recommendations for Section III, Activities

The laboratory has no complete records depicting annual total agencies served.

The laboratory should maintain complete documentation of the total number of agencies, together with which agencies, were served on an annual basis. The laboratory could not provide complete documentation of annual mileage.

Accurate records indicating monthly or annual total mileage should be maintained by the laboratory. The laboratory does not keep records indicating total types of cases received.

The laboratory was able to provide an annual total of cases received and therefore it should also be able to keep records of total types of cases received annually.

# SECTION IV

# Laboratory Users Assessment of the Region V St. Louis County Criminalistics Laboratory

# Police

The police agencies seldom encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

# Sheriffs

Of the sheriff respondents, two agencies utilize the laboratory on a primary basis while one agency utilizes the laboratory on a secondary basis. Of the composite of reasons given by sheriffs' agencies for using the laboratory, the most significant were:

# -Geographic proximity -Good relationship

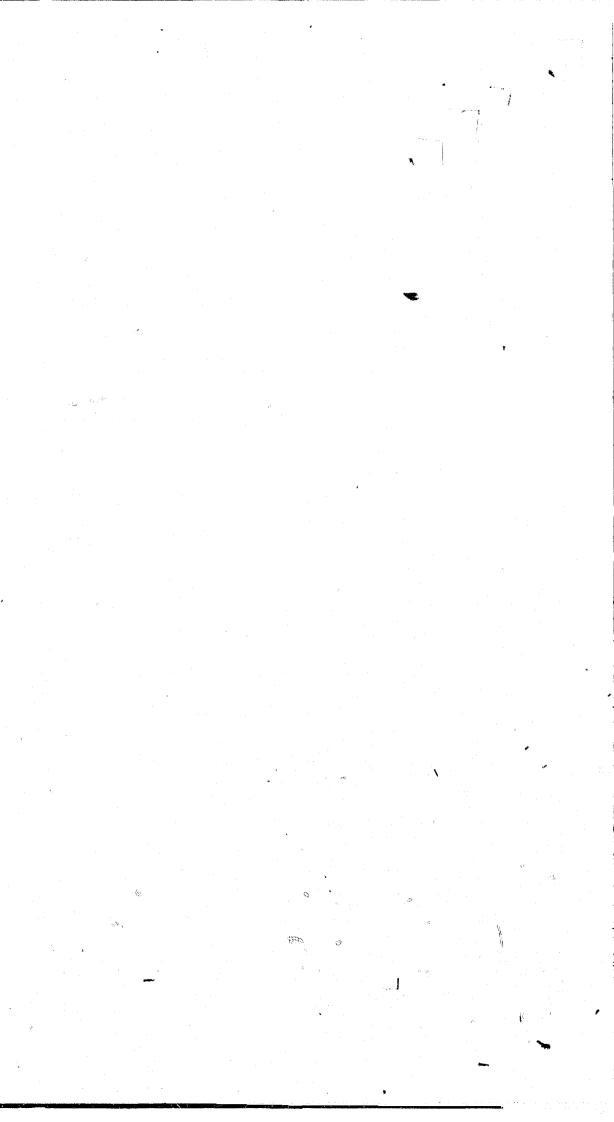
The sheriffs' agencies seldom encountered conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

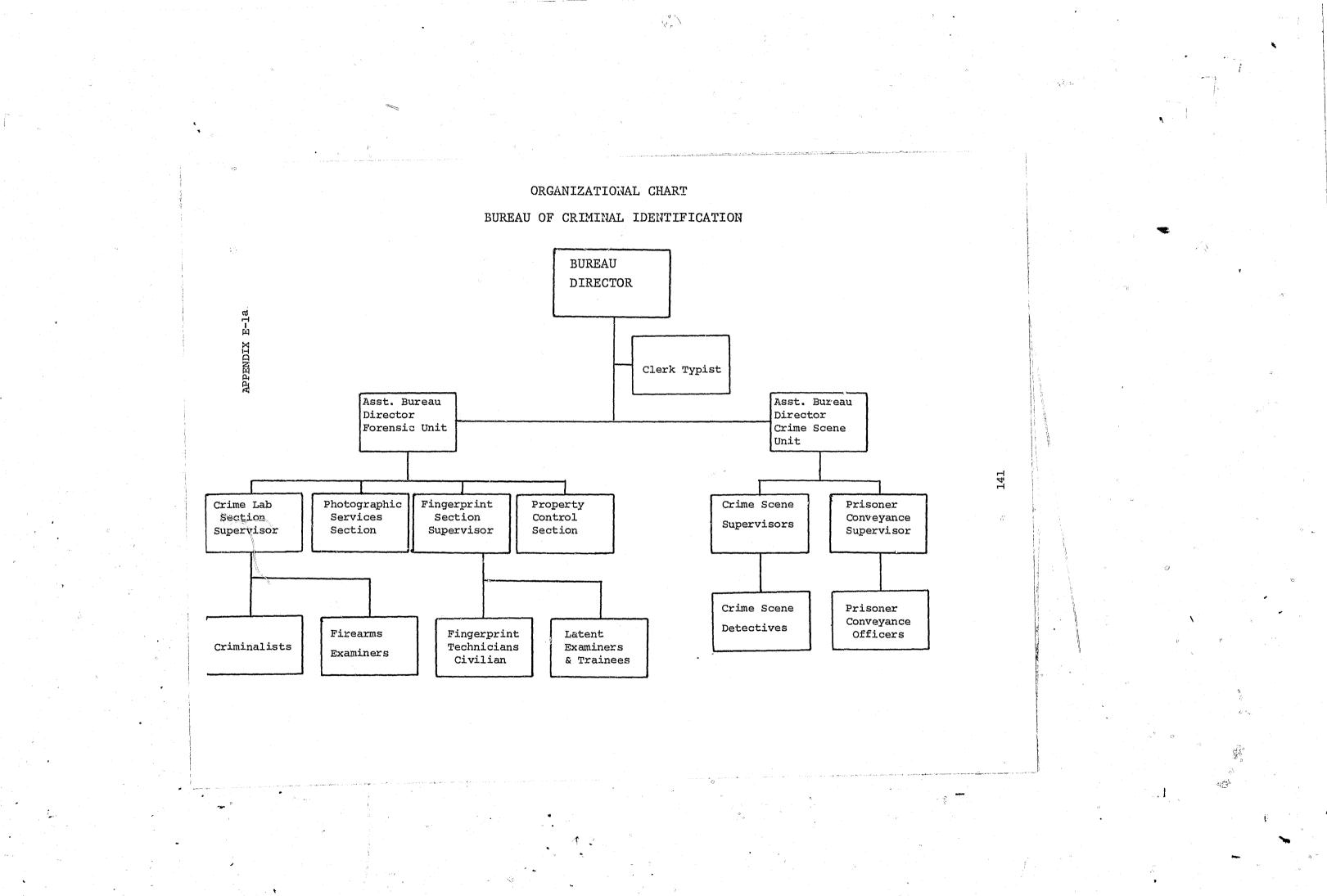
# Prosecuting Attorneys

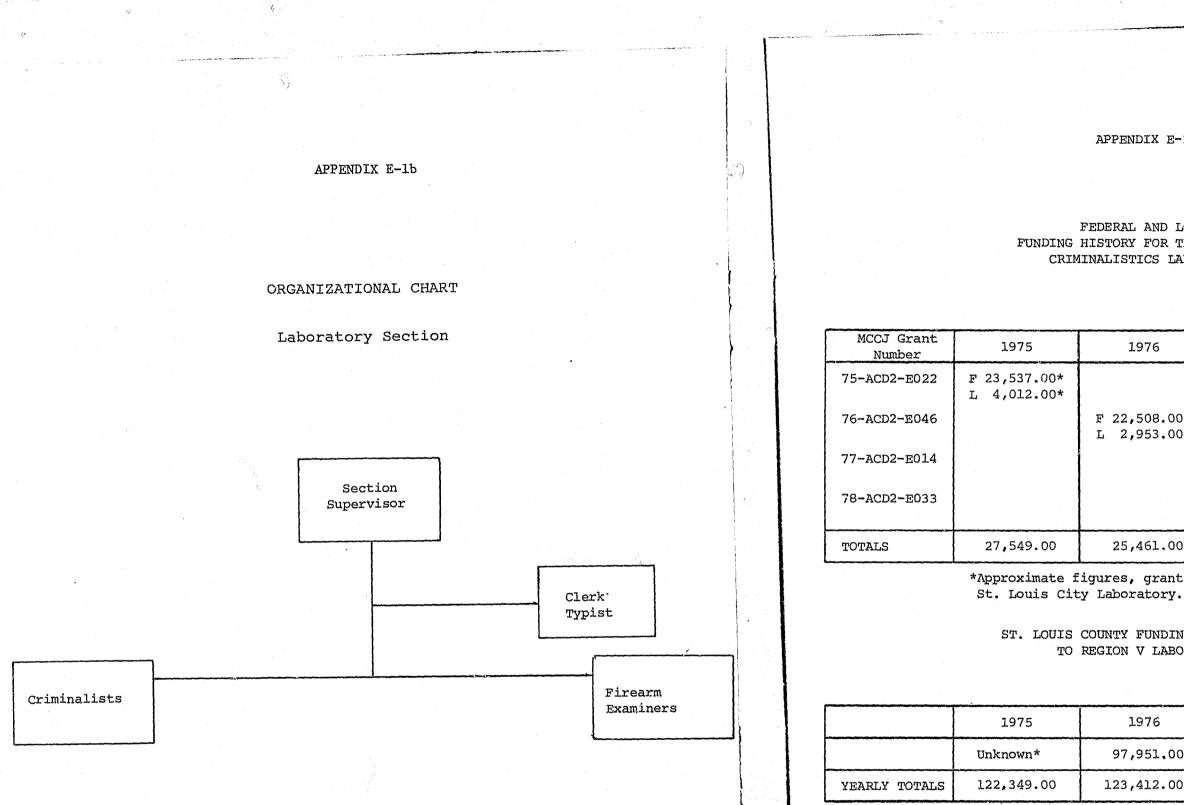
Of the prosecuting attorneys who responded, two of them utilize the laboratory on a primary basis while two others utilize the laboratory on a secondary basis. Of the composite of reasons given by prosecuting attorneys for using the laboratory, the most significant were:

# -Quick response -No service charge

The prosecutors sometimes encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.







*94,800.00 estimat into total expenditures

2.72

1.4

142

# APPENDIX E-2

# FEDERAL AND LOCAL FUNDING HISTORY FOR THE REGION V CRIMINALISTICS LABORATORY

1976	1977	1978	
F 22,508.00* L 2,953.00*	F 23,852.00* L 4,542.00*	F 14,861.00 L 14,921.00	
25,461.00	28,394.00	29,782.00	

*Approximate figures, grant shared with

ST. LOUIS COUNTY FUNDING ALLOCATIONS TO REGION V LABORATORY

1976	1977	1978
97,951.00	144,571.00	175,492.00
123,412.00	172,965.00	205,274.00
ited		624,000.00

The Region VI, VII, and VIII Criminalistics Laboratory is a section of the College of Sciences at Southeast Missouri State University (SEMO) in Cape Girardeau, Missouri. Directed by Dr. Robert C. Briner, the laboratory is under the ultimate supervision of the Dean of the University's College of Sciences. (Refer to Organizational Chart, Appendix F-1)

With the assistance of MCCJ funding, the laboratory became operational in September 1970. Located in a free-standing, self-contained stucture on the SEMO campus, the laboratory has space accommodations of approximately 1,640 square feet, of which approximately 1,500 square feet is working bench space. Staffed by three full time employees, the laboratory maintains service to an average of 92 agencies per year. (Refer to the Crime Laboratory Users Index,

Page 25.)

Clear, apparently accurate, and well understood written job descriptions were found to exist for all staff members. Staff members exhibited an awareness and an understanding of such descriptions.

The administrative component of Southeast Missouri State University determines all written personnel policies that affect laboratory staff. The indication and observation was that knowledge and understanding of such policies did exist among all staff members and therefore professional activities were governed accordingly. Laboratory records are maintained manually; however, the laboratory does have access to the University's computer system. This evaluator believes that the

current method of record keeping is sufficient for the laboratory's present volume of work.

# REGIONS VI, VII AND VIII SOUTHEAST MISSOURI STATE UNIVERSITY CRIMINALISTICS LABORATORY

# SECTION I

# Organization and Management

Training and educational preparation for the professional staff consists of on-the-job training and a required, relevant baccalaureate degree.

For FY 1978, the laboratory reflects an identifiable budget of \$126,994.00. Included in this total is a minimum dollar amount of \$43,879.00 for staff salaries, or at least 36 percent of the identified FY 1978 budget. The annual salary range for laboratory staff members is:

Title	Minimum Annual	Maximum Annual
Director Criminalist Secretary Various Student Help (\$2.00 per hour)	\$20,316.00 16,693.00 6,120.00 750.00	Unknown Unknown Unknown 
Minimum Total	\$43,879.00	

Other expenses for the laboratory include equipMent purchase and maintenance, supplies, travel, and capital improvement. Between 1975 and 1978, the laboratory expended a total of \$478,266.00, of which \$247,135.00 was provided by MCCJ. Other funding sources for the laboratory include not only Southeast Missouri State University, but also individual voluntary user agency donations which are solicited by the laboratory on an annual basis. (Refer to Appendix F-2 for Four-Year Funding History)

# Findings and Recommendations for Section I, Organization

The overall assessment of the organizational and administrative functions of the laboratory is commendable. Areas of concern and/or findings in need of attention include:

Finding 1:

Recommendation 1:

The organizational chart provided was found to be inadequate in that it was not specific in detailing either the placement of the laboratory within the University's structure or in detailing the organizational hierarchy within the laboratory itself. As per the ASCLAD Standards and proper methods of organization and management, the laboratory should develop or obtain a more specific organizational chart indicating very precisely how the laboratory fits into the total organizational structure and the organization within the laboratory itself. Finding 2: Recommendation 2: Finding 3: Recommendation 3: Finding 4:

Recommendation 4:

Procedures within the laboratory regarding evidence receipt, handling, flow, analysis, and security were all clearly written and apparently well understood. The laboratory does utilize a written chain of custody record for all necessary data and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination. The laboratory's three staff members have access to approximately \$250,000.00 worth of nonexpendable laboratory and office equipment.

Limitations to laboratory analysis/identification capabilities according to the Director are in the areas of firearms and questioned documents.

The laboratory has no clear, written, long range objectives from which to operate.

As per the ASCLAD Standards and proper management principles, the laboratory should develop a set or list of clearly written, well understood long term objectives from which to direct the laboratory operations.

According to the Director, the laboratory has no formal training or employee development program. As per the ASCLAD Standards, the laboratory should explore the options and possibilities available for receiving a formal type of training and employee development program.

The indication of the Director is that laboratories are not standardized to:

-Improve the evidence analysis process -Decrease case backlog -Compile technical data which could be exchanged between laboratories to reduce analysis time

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II.

# SECTION II

# Operations

the turnaround time requirem(nts for each type of evidence as recorded in the Region VI, VII, and VIII case log. The figures were extrapolated for 50 percent of the entire caseload between the above-indicated dates as one-half of all cases received during that period of time were sampled.

	<pre>% Increase</pre>	
Case	or Decrease	
670		
785	+15%	
1,034	+24%	
518*		*As of June 1978
	670 785 1,034	Case         or Decrease           670

A total of 3,007 cases was received over the four-year period for a yearly average of 752 cases. The above table indicates the respective yearly percentage increase/decrease in cases received.

		<pre>% Increase</pre>	
Year	Examinations	or Decrease	
1975	1,938	20	
1976	2,277	+15%	
1977	3,030	+25%	
1978	1,482*		*As of June 1978

A total of 8,727 examinations were conducted over the four-year period for a yearly average of 2,181 examinations. The above table indicates the average yearly increase/decrease in examinations conducted.

The average yearly number of court appearances for laboratory staff is 33.

Findings and Recommendations for Section II, Operations

Finding 1:

According to the Director, the laboratory does not possess written technical procedures for each of its disciplines.

Recommendation 1:

Finding 2:

its disciplines. The Director has not designed or implemented a reporting system that provides data relevant to the laboratory's involvement in:

As per the ASCLAD Standards, the laboratory should

develop written technical procedures for each of

-Investigated crimes -Suspects charged -Suspects cleared -Prosecutions -Acquittals -Convictions

Recommendation 2:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II.

# SECTION III

# Activities

Case - As defined by the Laboratory Director is any evidence collected with relationship to one offense.

Evidence - As defined by the Laboratory Director is anything submitted by a police agency for analysis.

Examination - As defined by the Laboratory Director is a step taken in order to make a decision about the evidence. Each separate step, determination, or test is considered as one examination.

Turnaround Time - As defined by the Laboratory Director is the amount of time that elapses between when evidence is received by the laboratory and when some response is made, either in written report form or orally, to the submitting agency.

Turnaround time figures for the laboratory were calculated from caseload records beginning on January 1, 1977, and ending on December 31, 1978, inclusive. These calculations were made in terms of the average number of days taken to meet Total Number of Cases Received Annually

# Examinations Conducted Per Year

Number of Miles Traveled Annually

Data not available

Number of Court Appearances Annually

Activity	Statis	stics	for	Break	down	of
Caseload,	Examin	nation	n Tot	tals,	Case	Туре
Percer	ntages	and S	Furna	around	l Time	3

Case Туре 1975-1978	Total Cases 1975-78	<pre>% of Total Cases 1975-78</pre>	Total Exami- nations by Type 1975-1978	Avg. Turn- around Time in Days 1977-1978
Drugs Burglary & Prints Blood & Urine Toxicology Trace Evidence Arson Alcohol Death Investigation Serology Rape Assault Toolmarks & Firearms Questioned Documents	1,351 406 317 171 150 142 121 119 85 66 65 14	45.0% 13.5 10.5 5.6 4.9 4.7 4.0 3.9 2.8 2.1 2.1 0.4	N o t b y r t c y r t c p r d e d	7.9 10.3 13.3 Not Sampled 32.4 7.5 21.0 Not Sampled 17.4 16.0 4.0 41.0
TOTALS	3,007	99.0%*	· · · · · · · · · · · · · · · · · · ·	12.3

### *1% due to rounding error

Of the 3,007 cases received over the four-year period, 2,243 involved four types of evidence and represented an average of 76 percent of the overall caseload for those years of operation.

# Findings and Recommendations for Section III, Activities

The general assessment of the laboratory's activities records is favorable. As per the ASCLAD Standards and proper management techniques, some areas of concern and/or findings where attention should be directed for purposes of future accountability and possible funding allocations include:

Finding 1:	The laboratory does not maintain records for mileage
	traveled.
Recommendation 2:	The laboratory should maintain documentation, on a
	monthly or an annual basis, of all mileage.
Finding 2:	The laboratory does not maintain records of total
	examinations by evidence type.
Recommendation 2:	The laboratory should record total examinations
	according to evidence or case type on a monthly or
	annual basis.

Laboratory Users Assessment of the Region VI, VII and VIII Southeast Missouri State University Criminalistics Laboratory

Of the police respondents, eight agencies utilize the laboratory on a primary basis while two agencies utilize the laboratory on a secondary basis. The significant reasons given by police agencies for using the laboratory were:

The police agencies seldom encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

Of the sheriff respondents, eight agencies utilize the laboratory on a primary basis while two agencies utilize the laboratory on a secondary basis. The significant reasons given by sheriffs' agencies for using the laboratory were:

The sheriffs' agencies seldom encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

Of the prosecuting attorneys who responded, 12 of them utilize the laboratory on a primary basis while two of them utilize the laboratory on a secondary basis. Of the composite of reasons given by prosecutors for using the laboratory, the most significant were:

> -Geographic proximity -Only service available -Dependability

The prosecutors seldom encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

# SECTION IV

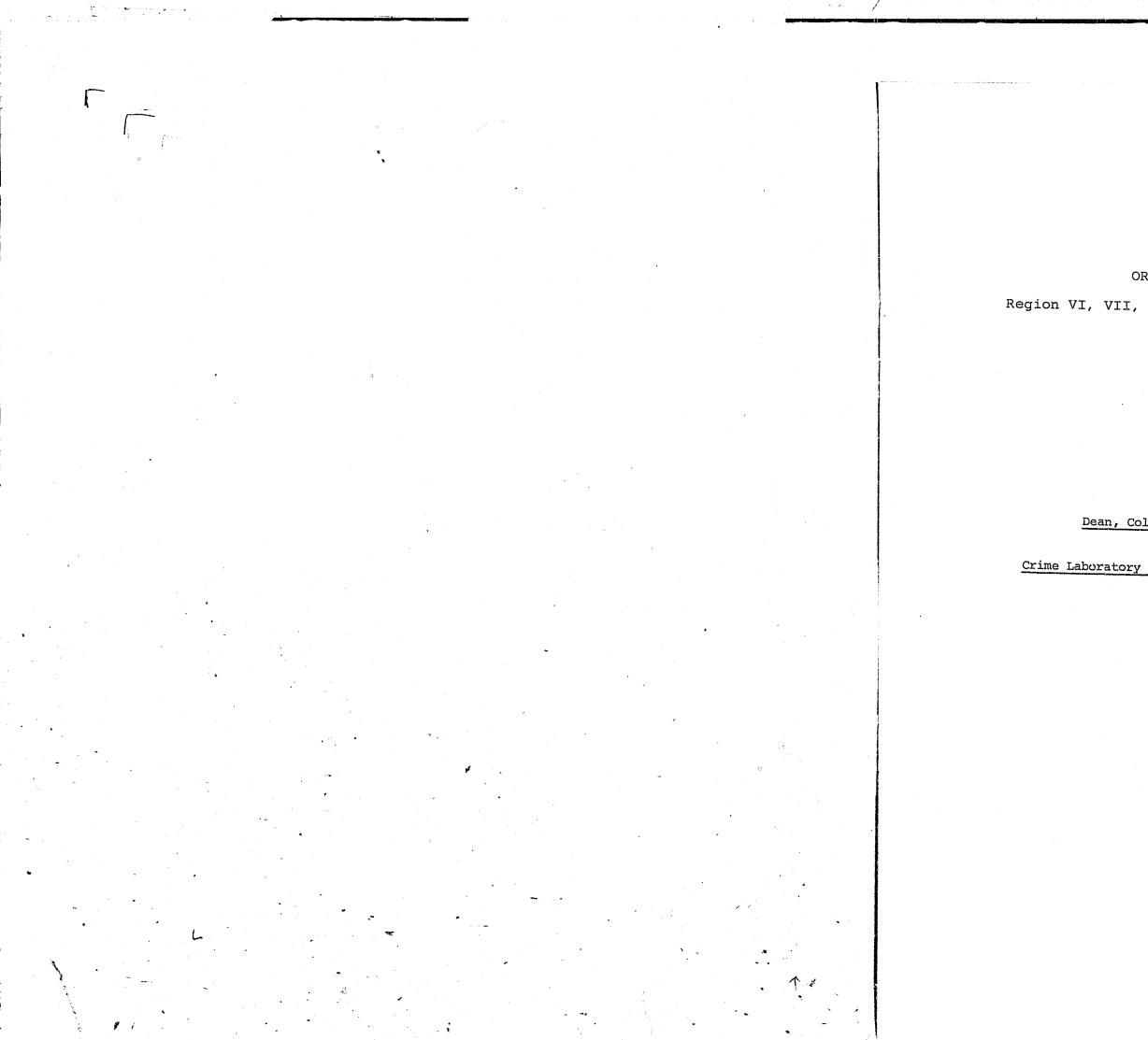
# Police

-Geographic proximity -Dependability -Only service available

# Sheriffs

-Geographic proximity -Dependable analysis

# Prosecuting Attorneys



APPENDIX F-1

# ORGANIZATIONAL CHART

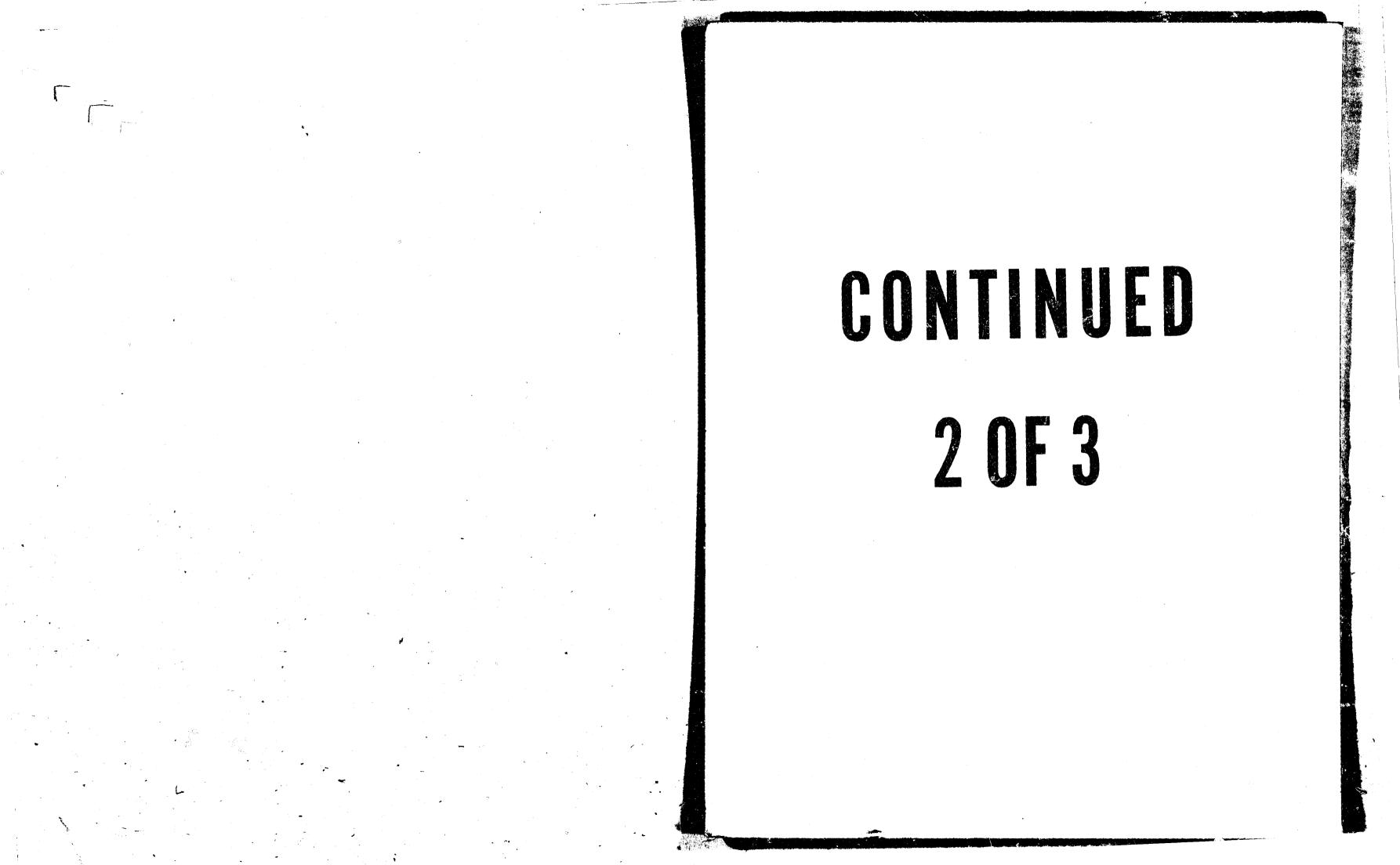
Region VI, VII, and VIII Criminalistics Laboratory

President of University

Vice-President, Academic Services

Dean, College of Sciences

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# APPENDIX F-2

# FEDERAL AND LOCAL FUNDING HISTORY FOR THE REGION VI, VII, AND VIII CRIMINALISTICS LABORATORY

MCCJ Grant Number	1975	1976	1977	1978
75-ACD2-F033	F 40,000.00 L 7,743.00			
75-ACD2-G006	F 4,647.00 L 516.00			
75-ACD2-H005	F 40,000.00 L 6,704.00			
75-ACD2-G032	F 1,037.00 L 115.00			
75-ACD2-H022	F 2,500.00 L 500.00			
75-ACD2-H025	F 881.00 L 109.00			
75-ACD2-ML28	F 16,000.00 L 2,680.00			
76-ACD2-G014	П 2,000.00	F 1,431.00 L 159.00		
76-ACD2-F029		F 25,000.00 L 5,600.00		
76-ACD2-H009		F 40,000.00 L 7,318.00		
77-ACD2-F017		T 1,510.00	F 20,000.00	
77-ACD2-G007			L 14,591.00 F 4,500.00 L 500.00	
77-ACD2-H002			F 31,331.00	
78-ACD2-F016			L 40,604.00	F 12,628.00
78-ACD2-G004				L 21,365.00 F 2,083.00
78-ACD2-H006				L 1,230.00 F 17,697.00 L 20,191.00
SUBTOTALS	123,432.00	79,508.00	111,525.00	75,194.00

OTHER FUNDING SOURCES

Local Agency Contributions	6,704.00	7,318.00	23,600.00	45,800.00
University (Utilities)	6,000.00	6,000.00	6,000.00	6,000.00
SUBTOTALS	12,704.00	13,318.00	29,600.00	51,800.00
TOTALS	136,136.00	92,826.00	141,125.00	126,994.00

# SEMO REGIONAL CRIME LABORATORY

MCCJ REGION 6, 7, AND 8 SOUTHEAST MISSOURI STATE UNIVERSITY CAPE GIRARDEAU, MO. 63701

DR. ROBERT C. BRINER DIRECTOR

September 13, 1979

# Gary Maddox MCCJ 621 East Capitol Jefferson City, Missouri 65101

Dear Gary:

Enclosed please find my response to the evaluation, and I would appreciate that it be enclosed with the laboratory report. We here at the southeast regional laboratory consider the evaluation certainly a needed thing and intend to use the recommendations as goals to strive for with the idea in mind of improving service to law enforcement agencies.

I feel that we need to be continually reminded that the only function of the lab and administration is to provide service to law enforce-ment. With that in mind, we appreciate your attempt to improve the service delivery system represented by the crime laboratories throughout the state.

Sincerely

kjr Enclosure

1



PHONE 314 651-2221

nep 1 - 197

DEPARTMENT OF PUBLIC SAME JEFFERSON CITY, MISSANJR

The evaluation survey was in general adequate, however several of the recommended items have indeed already been adopted and implemented. Also most of the standards and goals set out by ASCLD, which is at present only a committee recommendation are in many instances difficult to apply to a two-man laboratory; however, these recommendations will be used as goals for the improvement of the SEMO Regional Laboratory. It should also be noted that the activities of the SEMO Laboratory in 1978 did not decrease as was indicated by the incorrect case summary. The figures in the report for 1978 are for the 1/2 year. The correct figures for 1978 (entire year are as follows:

# Cases Received

1110

E

THE FOLLOWING IS IN RESPONSE TO THE SPECIFIC RECOMMENDATIONS.

I. Organization

The organizational chart was found to be inadequate. This finding is not appropriate since the structure which was outlined is the university structure which the laboratory works under. Hierarchy within a two-man laboratory is quite well understood when one of the persons is the director. This leaves only the other technical person to be a criminalist and report to the director.

In reference to long range objectives, in light of the recent past (year to year existence) this recommendation is rather before the fact. Now that the regional laboratory/ies have some hope of continuance (re; state funding) longrange plans are now quite appropriate. However, it should be noted that longrange plans of the regional laboratory program have been developed and the passage of the legislation was planned 7-8 years ago. It is the objective of all regional laboratories to develop capabilities only as the "crime profile index" dictates in that area (i.e., provide service as need arises). The SEMO Regional Laboratory is now in the process of installing a firing tank for more firearms capabilities. This is needed as an increase in hand gun related crime has been and is being experienced in southeast Missouri.

The employe development program at the SEMO Crime Lab is to take advantage of all FBI training schools (which are free), and attendance at two classes per year per staff member or as budget allows.

In reference to standardization to improve service of laboratories within the state, the main objective of the Missouri Association of Crime Lab Directors, Inc. (MACLD) is directed toward that (See By Laws). This has been in operation for 3 years on a formal basis and 8 years on an informal basis.

# RESPONSE ON EVALUATION

1978

% IncreaseTotal Agencies Served10%89

Examinations\$ Increase388510%

# 2

1.1

# II. Operations

Written technical procedures are being developed by the laboratory staff at the request of the Department of Public Safety (MCCJ).

A reporting system in reference to adjudication of cases requires the use of computer-based management data system as being developed for all labs across the state (state MCCJ grant 1980). Also the SEMO Lab is working to utilize the university computer system until the state-wide program comes into existence (2 years away). Since the regional labs work with as many as 20 or 30 counties, it is difficult to gain access to this data as many agencies and circuits are involved. Better communication between labs and court clerks is an area which needs improvement.

# III. Activities

Mileage records are kept at the SEMO Regional Lab. This was instituted in October of 1978. Monthly travel requests have always been processed through university channels and are available for documentation. A complete set of court and adjudication records is being developed for use in 1980.

Records of evidence types at present are kept for cases only. This will be changed to include examinations and exhibits when the computer system is developed. At the present time one student is attempting to develop a pilot project for the SEMO Laboratory in this regard.

The Region X Criminalistics Laboratory is a section of the Criminal Justice Programs Department of Missouri Southern State College in Joplin, Missouri, and is under the immediate direction of Dr. Phillip Whittle. Ultimate responsibility for the laboratory is under Mr. Donald Seneker, Director of Criminal Justice Pro-With the assistance of MCCJ funding, the laboratory became operational in

grams for the college. (Refer to Organizational Chart, Appendix G-1) January 1972. Located within the College's Police Academy Building, the laboratory is accommodated with 1,500 square feet, practically all of which is working bench space.

The laboratory is staffed by only one full time member, a Photograph Technician, while three other staff members are shared with the college on 60-40 or 50-50 basis, who maintain service to an average of 53 agencies per year. (Refer to the Crime Laboratory Users Index, Page 25.)

Clear, accurate, and well understood written job descriptions were found to exist for both professional staff members as well as a written list of clearly stated laboratory objectives.

Training and educational preparation for the professional staff consists of an on-the-job training program conducted by the laboratory and a required, relevant baccalaureate degree.

The administrative function of Missouri Southern State College determines all written personnel policies that affect the laboratory staff. The indication and observation was that the staff is aware of and understands such policies and therefore governs their professional activities accordingly.

Laboratory records are maintained manually; however, the laboratory does have access to the College's computer system. Manual record keeping procedures for the laboratory's operations seem to be an adequate method, according to the

# REGION IX, MISSOURI SOUTHERN STATE COLLEGE CRIMINALISTICS LABORATORY

### SECTION I

# Organization and Management

For FY 1978, the laboratory reflects an identifiable budget of \$51,545.00. Included in this total is a minimum dollar amount for staff salaries of \$37,523.00, or at least 72 percent of the identified budget for FY 1978. The annual salary range for laboratory staff members is:

Title	Minimum Annual	Maximum Annual
Director (62% time) Assistant Director (62% time) Photo Technician Lab Assistant (50% time)	\$12,125.00 10,441.00 11,967.00 2,990.00	Not Avail. Not Avail. Not Avail. Not Avail.
Minimum Total	\$37,523.00	

Other expenses for the laboratory include equipment purchase and maintenance, supplies, and travel. Between 1975 and 1978, the laboratory expended a total of \$176,570.00, of which \$148,569.00 was provided by MCCJ. Other funding sources included donations by area law enforcement agencies and clinical receipts for tests run for local hospitals. (Refer to Appendix G-2 for Four-Year Funding History)

# Findings and Recommendations for Section I, Organization

The overall assessment of organizational and managerial practices of the laboratory is quite favorable. Possible areas of attention and improvement include:

Finding 1:

Finding 2:

Recommendation 1:

According to the Director, the laboratory has no formal training or employee development program. As per the ASCLAD Standards, the laboratory should explore the possibility of receiving a more formal type of forensics laboratory training as well as the implementation of a formal employee development program.

The indication of the Director was that laboratories are not standardized to:

-Improve the evidence analysis process -Decrease case backlog -Compile technical data which could be exchanged between laboratories to reduce analysis time

Recommendation 2:

Procedures within the laboratory regarding evidence receipt, handling, flow, analysis, and security seemed to be well identified; however, it was found that such procedures were not written. The laboratory does utilize a written chain of custody record for all necessary data and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contami-

The laboratory's four staff members have access to approximately \$94,500.00 worth of nonexpendable laboratory and office equipment. Limitations to laboratory analysis/identification capabilities were determined by the Director to be in the areas of document examination, ballistics, and some specialized areas.

Finding 1:

Recommendation 1:

Finding 2:

This finding pertains to the MAPPS Standards and is addressed to lphall laboratories as a whole in Volume II.

### SECTION II

# Operations

# Findings and Recommendations for Section II, Operations

According to the Director, the laboratory does not have written procedures on:

-Handling of evidence -Preparation, storage, and destruction of case records or reports -Control of materials and supplies -Maintenance of equipment.

As per the ASCLAD Standards, the Director should develop clearly written, well understood procedures for each component in Finding No. 1. The Director has not designed or implemented a reporting system that provides data relevant to the laboratory's involvement in:

-Reported crimes -Suspects identified/located -Suspects cleared -Suspects charged -Prosecutions

# -Acquittals -Convictions

Recommendation 2:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II.

# SECTION III

# Activities

Case - As defined by the Laboratory Director is the evidence submitted by a law enforcement agency(ies) involving one incident.

Evidence - As defined by the Laboratory Director is any physical substance that could be used to prove or disprove a point of examination or contention.

Examination - As defined by the Laboratory Director is the necessary analysis or comparison of one particular piece of evidence. There may be more than one analysis or test in one examination.

Turnaround Time - As defined by the Director is the time from the date that the evidence is submitted until the date that the report is written, typed, and ready to send out.

Turnaround time figures for the laboratory were calculated from caseload records beginning on January 1, 1977, and ending on December 31, 1978, inclusive. These calculations were made in terms of the average number of days taken to meet the turnaround time requirements for each type of case as defined by the Region IX Laboratory Director. The figures were extrapolated from 50 percent of the entire caseload between the above-indicated dates as one-half of all cases received during that period of time were sampled.

# Total Cases Received Annually

Year	Case	% Increase or Decrease
1975 1976 1977 1978	703 788 908 572	+11% +14% -38%

A total of 2,971 cases was received over the four-year period for a yearly average of 743 cases. The above table shows the respective yearly percentage increase/decrease in cases received.

Year	Examinations	<pre>% Increase or Decrease</pre>
1975 1976 1977 1978	1,927 3,066 2,806 2,078	+38% 9% 26%

A total of 9,877 examinations were conducted over the four-year period for a yearly average of 2,469 examinations. The above table indicates the average yearly increase/decrease in examinations conducted.

The average yearly number of court appearances for the laboratory staff is 57.

# Examinations Conducted Per Year

Number of Miles Traveled Annually

Not available

# Number of Court Appearances Annually

# Activity Statistics Breakdown for Caseload, Examination Totals, Case Type Percentages and Turnaround Time 1975-78

Case Type 1975-1978	Total Cases 1975-78	<pre>% of Total Cases 1975-78</pre>	Total Exami- nations by Type 1975-1978	Avg. Turn- around Time in Days 1977-1978
Marijuana Other Controlled Drugs & Poisons Alcohol (beverages) Blood Alcohol Blood Typing Body Fluids(Drug Screen) Latent Fingerprints Accelerants Seminal Fluids Gunshot Residues Misc. Physical Evidence**	909 453 131 168 86 362 314 144 45 85 274	30.5% 15.2 4.4 5.6 2.8 12.1 10.5 4.8 1.5 2.8 9.2	N O b Y Y Y Y Y Y Y C P C P C P C P C P C P C	) 7.00 2.60 ) 17.00 ) 17.00 Not Sampled 23.00 Not Sampled Not Sampled 11.48 **
TOTALS	2,971	99.0%*	9,877	11.14
**Arson Paint Rape Toxicology Bullet Hair Serial No. Restoration Toolmarks Glass Fibers	•			5.16 30.12 11.38 61.76 32.00 8.00 5.60 11.50 39.00 10.00

### *1% due to rounding error

Of the 2,971 new cases received over the four-year period, 2,292 involved four types of evidence and represented an average of 77 percent of the overall caseload for those years of operation.

# Findings and Recommendations for Section III, Activities

Overall, the laboratory documentation of activities is quite thorough. As per the ASCLAD Standards and proper management technique, some areas of concern and/or findings where attention should be directed for the purposes of future accountability and possible funding allocations are:

# Finding 1:

Finding 2:

1 . <u>-</u>-

Recommendation 1 & 2:

Of the police respondents, seven agencies utilize the laboratory on a primary basis and three agencies utilize the laboratory on a secondary basis. Of the composite of reasons given by police agencies for utilizing the laboratory, the most significant were:

The police agencies seldom encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

Of the sheriff respondents, three agencies utilize the laboratory on a primary basis and two agencies utilize the laboratory on a secondary basis. The significant reasons given by sheriffs for using the laboratory were:

The sheriffs' agencies seldom encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

161

Breakdowns of total annual miles traveled were not available.

Breakdowns of annual examinations by evidence type were not available.

In the future, the laboratory should maintain proper documentation of annual miles traveled and a breakdown of annual examinations by evidence type.

### SECTION IV

Laboratory Users Assessment of the Region IX, Missouri Southern State College Criminalistics Laboratory

### Police

-Geographic proximity -Quick evidence analysis

# Sheriffs

-Geographic proximity -Best service in the area

# Prosecuting Attorneys

Of the prosecuting attorneys who responded, two utilize the laboratory on a primary basis and one utilizes the laboratory on a secondary basis. The reasons given by prosecutors for using the laboratory were:

> -Geographic proximity -Best service in the area

The prosecutors sometimes encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

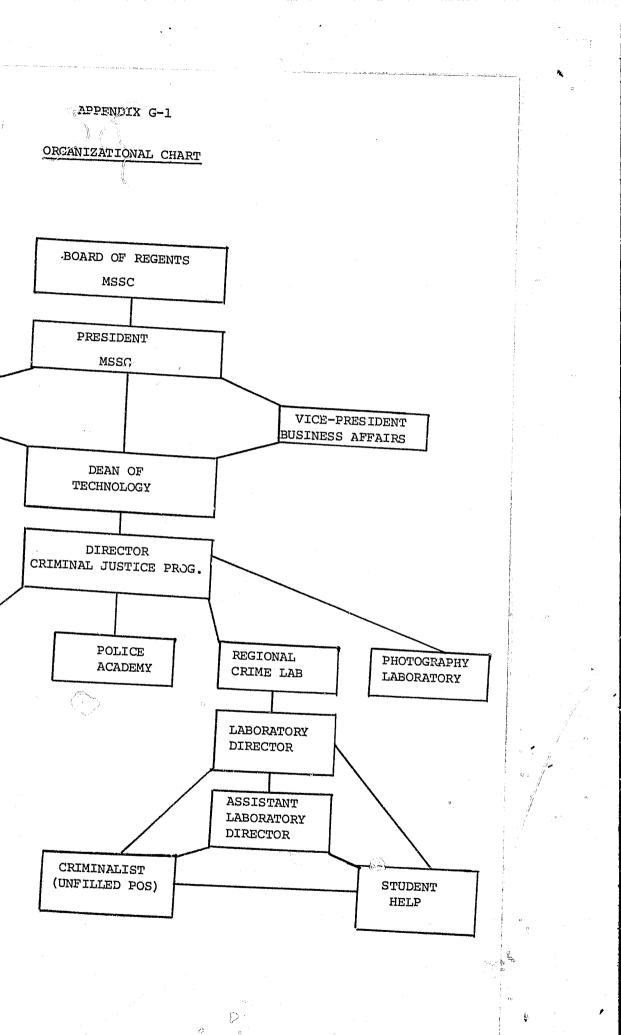
> LAW ENFORCEMENT PROGRAM (A.S., B.S.)

15 Å. 30 P

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VICE-PRESIDENT ACADEMIC AFFAIRS



. V

APPENDIX G-2

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# FEDERAL AND LOCAL FUNDING HISTORY FOR THE REGION IX CRIMINALISTICS LABORATORY

MCCJ Grant Number	1975	1976	1977	1978
75-ACD2-I011 76-ACD2-I001 77-ACD2-I003 78-ACD2-I001	F 44,795.00 L 5,147.00	F 45,718.00 L 5,080.00	F 16,059.00 L 1,886.00	F 41,997.00 L 5,118.00
TOTALS	49,942.00	50,798.00	17,945.00	47,115.00

# OTHER FUNDING SOURCES

SOURCE	1975	1976	1977	1978
Local Law Enf. Agencies Clinical Recei				1,350.00
(Hospitals)	ots 540.00	4,610.00	1,190.00	3,080.00
	540.00	4,610.00	1,190.00	4,430.00
TOTAL	50,482.00	55,408.00	19,135.00	51,545.00
		GRAND TOTAL	\$176,570.00	

MISSOURI

NEWMAN & DUQUESNE ROADS PHONE 417-624-8100

Gary P. Maddox

Missouri Council on Criminal Justice Department of Public Safety 621 E. Capitol - P.O. Box 1041 Jefferson City, Mo. 65102

Dear Gary:

.

1 . •

Enclosed is a summary of my responses to the individual report concerning our laboratory. Please include these with the final report.

I am also enclosing a letter from Don Seneker outlining his responses to the report. Please include this letter with my responses.

cc. Don Seneker, Criminal Justice Programs James Maupin, Dean of Technology



COLLEGE

JOPLIN, MISSOURI 64801

September 15, 1979

Sincerely, unhittle Flirt

Philip R. Whittle , Director MSSC Regional Crime Laboratory

# RECEIVED

SEP18RED

MISSOURI SOUTHERN COLLEGE NEWMAN & DUQUESNE ROADS - (417) 624 8100 JOPLIN, MISSOURI 64801

RESERVEN

# RESPONSES TO MISSOURI CRIMINALISTICS LABORATORIES EVALUATION STUDY

# ORGANIZATION AND MANAGEMENT

.1

The Regional Crime Laboratory is administered by Missouri Southern State College; the laboratory director and forensic chemist are both employed by MSSC full time with each carrying a one-half time teaching load in the Chemistry Department during the Fall and Spring academic terms (both are full time with the Laboratory during the summer). A secretary is shared with the Criminal Justice Department and Campus Security. Student help is utilized in the criminalistics section and the photography section of the laboratory.

The recommendations of the Accrediation Committee of the American Society of Crime Laboratory Directors (ASCLD) regarding formal training and employee development are general recommendations. A small laboratory cannot maintain, nor does it need, the same type of formal training program or employee development program required in a large laboratory. Our laboratory attempts to take advantage of short courses and seminars which are feasable within budgetary constraints. The laboratory director is actively involved in regional and national forensic societies and is a member of the Drug Peer Group of the national Criminalistics Certification Study Committee; much information is transmitted informally to other laboratory employees. The informal training and close supervision of employees in our laboratory has proven very effective.

### OPERATIONS

The current budget will not allow the acquisition of additional personnel nor adequate computer data facilities to maintain data relevant to the items outlined under Finding 2. The laboratory is dependent upon information from prosecutors and court records for much of the indicated information; these records are not available to us in many cases.

### ACTIVITIES

The decrease in the 1978 case load is primarily due to a decrease in usage of the laboratory by Joplin Police Department due to a change in key personnel.

The turnaround time for blood alcohol determinations should be separated from blood typing, since blood alcohols are routinely performed within twenty-four to forty-eight hours. The turnaround time listed for toxicology cases is not truly reflective of our laboratory; the majority of cases involving only toxicology are completed rapidly; Homicides, suicides, and other cases which involve toxicology along with several other disciplines usually involve much longer turnaround times; however, the 61.76 days is certainly not an accurate average turnaround time for even these more involved cases.

The documentation of mileage (court appearances) and the annual examinations by evidence type are available with the 1979 laboratory data.

NEWMAN & DUQUESNE ROADS PHONE 417-624-8100

MISSOURI

Dr. Philip R. Whittle Director of Regional Crime Lab Missouri Southern State College Joplin, Mo. 64801

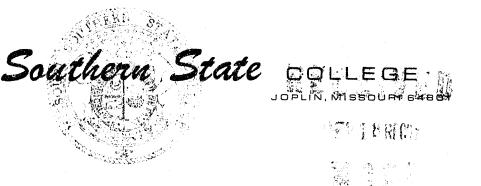
Dear Dr. Whittle;

like to ask you to relay my concerns in the following areas:

- be given undo weight.

Viewed as a whole, I would have to applaud the report and I am sure that it will be helpful in guiding funding decisions in the future.

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12 Sept. '79

Re: Report of 31 Aug 79 by G. P. Maddox Crime Lab Evaluation

When you respond to the above referenced report, I would

(1) Page five of the report reflects a case load drop of 26% which perhaps needs interpretation. It perhaps should be mentioned that a change in local police emphasis resulted in their sharply reduced enforcement effort on drugs. It is not for me to question this action, however, I do know that if a state of "normalcy" should reoccur in drug case enforcement, our case load in the lab will quickly regain that lost 26%. In other words, it is my opinion that the 1978 case load represents an abnormal sample and should not

(2) There are several useful suggestions made in the evaluation. Most of them would necessitate additional personnel. If the report is to be credited, it would appear that it is at least by implication suggesting that we add personnel. I am all in favor of this, and I hope that funding will be forthcoming sufficiently in excess of our current budget so that we can take advantage of the recommendations. This would allow for a more formal "employee development" program, records keeping, and similar suggested improvements.

(3) I am somewhat concerned that the age of some equipment was not an inclusion in the report. I would point out that a program of steady upgrading of this equipment needs to be a consideration of budget planning and evaluation.

Donald L. Seneker, Director Criminal Justice Drogram

The Missouri State Highway Patrol (MSHP) Central Criminalistics Laboratory In operation since 1933, the laboratory is currently housed within the base-Clear, apparently accurate, written job descriptions were found to exist for

is a unit of the MSHP located in the agency's General Headquarters (GHQ) facility in Jefferson City, Missouri. Directed by Lieutenant Kenneth E. Miller, the laboratory is ultimately responsible to Major P. V. Volkmer, Chief of Field Services for the MSHP. The laboratory's organizational chart indicates a clear delineation of authority and span of management, both within the laboratory and as the laboratory relates to the Criminal Division. (See Organizational Chart, Appendix H-1) ment portion of the General Headquarters (GHQ) building and utilizes approximately 4,000 square feet of space. In September 1979, the laboratory will be moving into a portion of a new structure located adjacent to GHQ, at which time the laboratory will have accommodations of approximately 12,000 square feet. A staff of 15 full time employees maintains the laboratory which serves an average of 51 agencies per year according to 1975 and 1977 figures, which were the only ones available. (Refer to the Crime Laboratory Users Index, Page 25.)

all staff members as per MSHP general policy. All employees indicated an aware-Training and education for professional staff members includes an extensive

ness and understanding of such descriptions and the evaluator's observations revealed that staff members governed their on-the-job activities accordingly. one-year formal on-the-job training program within the laboratory itself; furthermore, continuous on-the-job training is routinely conducted within the laboratory. All new chemists and analysts are required to hold a relevant baccalaureate degree.

The MSHP determines all written personnel policies that affect the laboratory staff. This evaluator found that staff members were aware of the existence of and understood such written policies.

# MISSOURI STATE HIGHWAY PATROL CENTRAL LABORATORY

### SECTION I

### Organization and Management

Records are all maintained in a manual fashion by the laboratory; however, the laboratory does have access to the MSHP computer system. The belief of this evaluator is that the volume of work conducted by the laboratory suggests that while manual procedures may be acceptable, computerized records would significantly increase the dependability and efficiency of the record keeping function.

For FY 1978, the laboratory reflects an identifiable budget of \$228,942.00. Included in this total is a minimum dollar amount for staff salaries of \$201,732.00, or at least 88 percent of the identified budget for FY 1978. Annual salary ranges for laboratory staff members are:

Title	No. of Positions	Minimum Annual	Maximum Annual
Director Senior Forensic Chemist Forensic Chemist III Forensic Chemist I Forensic Analyst III Forensic Analyst II Forensic Analyst I Steno II Clerk Typist III	1 2 3 1 1 1 3	<pre>\$ 24,000.00 21,684.00 14,916.00 11,304.00 14,916.00 13,584.00 11,844.00 8,676.00 7,200.00</pre>	Not Avail. Not Avail. Not Avail. Not Avail. Not Avail. Not Avail. Not Avail. Not Avail.
Minimum	Total	\$201,732.00	

Other expenses for the laboratory include equipment purchases, maintenance, supplies, and travel. Between 1975 and 1978, the laboratory expended an approximate total of \$1,075,584.00, of which \$199,165.82 was provided by MCCJ. It should be noted that from 1975 through 1978, Missouri General Revenue funds allocations for all MSHP laboratory staff salaries and supplies totaled \$987,659.00. Responsibility for disbursement of these dollars lies with the MSHP Financial Division; however, this evaluator found that while salary allocations could be determined from the dollar total, no other figures were available to indicate the per laboratory allotment of the balance. (Refer to Appendix H-2 for Four-Year Funding History)

#### Findings and Recommendations for Section I, Organization

The primary assessment of the laboratory's organization and management is positive. Aspects of concern regarding weaknesses or deficiencies in this area are:

Finding 1:

Recommendation 1:

Finding 2:

Recommendation 2:

Finding 3:

#### Recommendation 3:

Procedures regarding receipt, handling, flow, analysis, and security of evidence are well documented and maintained. Written records for chain of.custody are utilized and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination. The laboratory's 15 staff members have access to approximately \$341,000.00 worth of nonexpendable laboratory and office equipment. It was determined by the Director that no analysis capability limitations exist, at present, within the laboratory.

According to the Director, the laboratory has no formal employee development program. As per the ASCLAD Standards, the possibility of obtaining a formal employee development program should be explored.

The indication of the Director was that laboratories are not standardized to:

-Improve the evidence analysis process -Decrease case backlog

-Compile and exchange technical data between laboratories to reduce analysis time

This finding pertains to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II.

Budget records, through no fault of the laboratory, are not well documented in terms of total specific dollar allocation amounts per laboratory. As per proper managements is in the

As per proper management techniques, future records regarding total dollar allocations to the laboratory should be clear, complete, and well documented.

#### SECTION II

#### Operations

#### Findings and Recommendations for Section II, Operations

Finding 1:

Recommendation 1:

Finding 2:

As per the ASCLAD Standards, the laboratory should develop or obtain written procedures for each of its disciplines to the extent possible. The laboratory has no written procedures for maintenance of equipment.

develop written procedures for maintenance of

The Director has not designed or implemented a

system to provide data relevant to the laboratory's

The laboratory does not possess written technical

procedures for each of its disciplines.

Recommendation 2: As per the ASCLAD Standards, the laboratory should

Finding 3:

-Reported crimes -Investigated crimes -Suspects identified/located -Suspects cleared

Recommendation 3:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II.

#### SECTION III

#### Activities

equipment.

involvement in:

Case - As defined by the Laboratory Director is a single numerical assigned file, intended to contain all pertinent data relating to evidence submitted to a forensic laboratory, for processing and relating to a specific crime event. Such a case can be initiated or opened and reopened as circumstances require. Due to the variable nature of the criminal justice process, a strict procedure for case assignment cannot be made. Each case must be assessed on its own elements and experienced judgment applied. Elements of prosecution, suspects, victims, and circumstances will determine the number of cases to be opened or reopened. The objective of a laboratory case file assignment is to provide and maintain a repository for a specific crime event history, pertinent to laboratory processing in a specific case.

Evidence - As defined by the Laboratory Director is any object or material, gas, liquid, or solid, which is related to a crime against persons or property and submitted to the laboratory for analysis or comparative processing by a criminal justice agency.

Examination - As defined by the Laboratory Director is a specimen of evidence examined by a number of modes to permit the examiner to arrive at a finding or conclusion. It may be chemically analyzed by a number of methods, weighed, measured, compared in kind and other techniques used. Each method used is considered an examination regardless of how many items compose the specimen. This applies to both an evidence or questioned specimen and a known standard. An examination includes the total inquiry.

Turnaround Time - As defined by the Laboratory Director is the number of

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Turnaround time figures for the laboratory were calculated from caseload records beginning January 1, 1977, and ending on December 31, 1978. These calculations were made in terms of the average number of days taken to meet the turnaround time requirements for each type of case as defined by the GHQ Laboratory Director. The figures are representative of five percent of the entire caseload between the above-indicated dates as a five percent random sample was conducted for all cases received during that time period.

Year	Case	% Increase or Decrease
1975 1976 1977 1978	1,989 1,936 2,019 1,992	-3% +4% -2%

A total of 7,936 cases were received over the four-year period for a yearly average of 1,984 cases. The above table indicates the average yearly percentage increase/decrease in total cases received over the four-year period.

days that pass from the time that evidence is received until the report is written,

## Total Cases Received Annually

#### Examinations Conducted Per Year

Year	Examinations	<pre>% Increase or Decrease</pre>
1975 1976 1977 1978	73,061 47,056 50,066 50,210	-36% + 7% + 1%

A total of 220,393 examinations were conducted over the four-year period for a yearly average of 55,098 examinations. The above table indicates the average yearly increase/decrease in examinations conducted over the four-year period.

#### Number of Miles Traveled Annually

The average annual miles traveled during the two years for which the data was available was 67,200 miles (1977 and 1978 only).

#### Number of Court Appearances Annually

The average yearly number of court appearances for the laboratory staff was 195.

Accivity Caseload,

		% of	Total Exami-	Avg. Turn-	
	Total	Total	nations by	around Time	
Type of Case	Cases	Cases	Туре	in Days	
1975-1978	1975-78	1975-78	1975-1978	1977-1978	
Narcotic & Drug Violations	3,122	39.3%	N	22.70	
Larceny	922	11.6	0	9.30	
Accident (fatal)	669	8.4	t	25.06	
Forgery	657	8.2		8.00	
Intoxication	459	5.7	r	13.30	
Firearms Identification	338	4.2	e	9.50	
Burglary	282	3.5	C	6.94	
Arson	225	2.8	0	25.50	
Assault	199	2.5	r	17.60	
Homicide	190	2.3	đ	30.00	
Miscellaneous	157	1.9	e	10.80	
Investigation of Deaths	119	1.4	đ	11.50	
Hit and Run	114	1.4		28,90	
Robbery	100	1.2	b	Not Sampled	
Destruction of Property	90	1.1	У	5.50	
Rape	89	1.1		21.60	
Liquor Law Violations	73	0.9	t	13.30	
Fraud	72	0,9	У	2.00	
Suicide	36	0.4	p	Not Sampled	
Poisoning	23	0.2	e	Not Sampled	
TOTALS	7,936	99.0%*		18.71	

Of the 7,936 cases received from 1975 through 1978, 6,676 cases involved seven types of evidence and represented an average of 84.1 percent of the overall caseload for the four-year period of operation.

2

Overall, it was found that the laboratory, insofar as it represents a substantial portion of Missouri's total evidence analysis needs, could and should be keeping more complete documentation of certain activities. As per the ASCLAD Standards and proper management techniques, some areas of concern and/or findings where attention should be directed for purposes of future accountability and possible funding allocations are:

Statistics				
Examination	Tota	als,	Case	Туре
and Turnard				

*1% due to rounding error

#### Findings and Recommendations for Section III, Activities

Finding 1: The laboratory does not keep accurate documentation on the total number of agencies served annually. Recommendation 1: Complete records should be available that will indicate and identify exactly how many and what agencies were served by the laboratory during the year. Finding 2: The laboratory does not maintain records depicting total examinations according to evidence or case type. Recommendation 2:

The laboratory should begin to record all monthly or annual examination totals according to evidence or case type.

The laboratory could not provide complete documentation on annual mileage traveled.

The laboratory should begin to maintain accurate monthly or yearly mileage records for the laboratory.

#### SECTION IV

Finding 3:

Recommendation 3:

Laboratory Users Assessment of the Missouri State Highway Patrol Central Laboratory

#### Police

Of the police respondents, 16 agencies utilize the laboratory on a primary basis and 16 agencies utilize the laboratory on a secondary basis. Of the composite of reasons given by police agencies for selecting the Central Laboratory, the most significant were:

> -Geographic proximity -High quality, specialized analysis -Dependable service

The police agencies seldom encountered conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is always responsive in urgent or emergency analysis needs situations.

cant were:

The sheriffs' agencies seldom encountered conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

Of the prosecuting attorneys who responded, 22 utilize the laboratory on a primary basis and 16 utilize the laboratory on a secondary basis. Of the composite of reasons given by prosecutors for using the laboratory, the most significant were:

The prosecutors sometimes experience scheduling conflicts for the expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs.

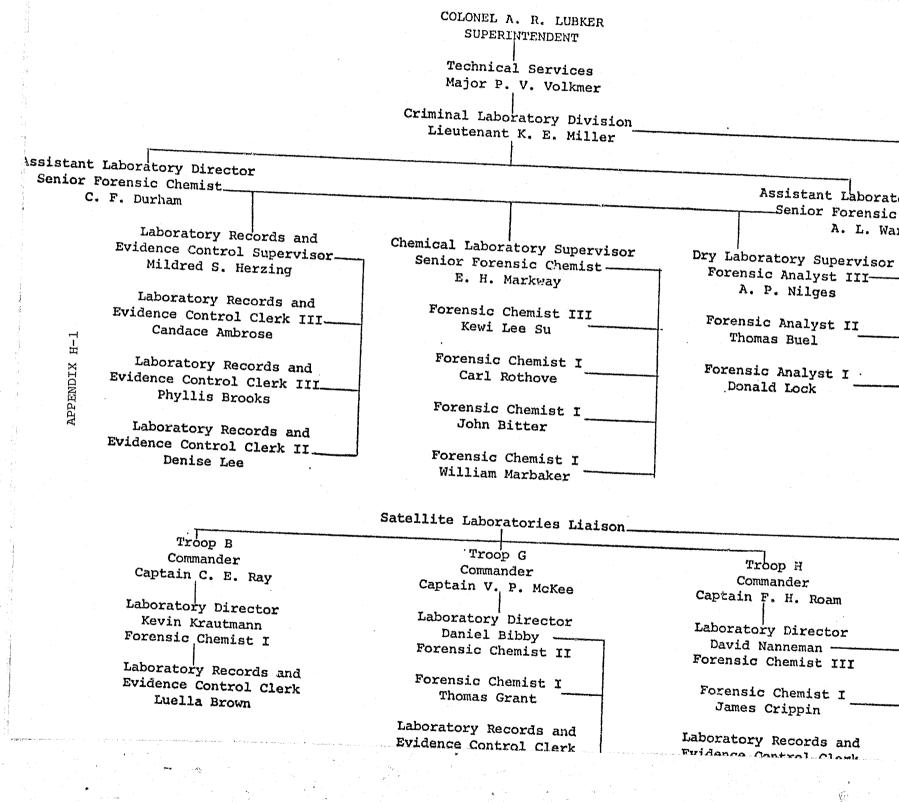
#### Sheriffs

Of the sheriff respondents, 24 agencies utilize the laboratory on a primary basis and 23 utilize the laboratory on a secondary basis. Of the composite of reasons given by sheriffs' agencies for selecting the laboratory, the most signifi-

> -Geographic proximity -Comprehensiveness of services offered -Quick, dependable service

#### Prosecuting Attorneys

-Geographic proximity -High quality service -Most comprehensive



Assistant Laboratory Director _Senior Forensic Chemist A. L. Ware

Joseph P. Teasdale Governor



September 12, 1979

Mr. Gary Maddox Department of Public Safety Missouri Council on Criminal Justice Jefferson City, Missouri 65102

Dear Mr. Maddox:

The following information is submitted in response to certain statements in your evaluation report of the Missouri State Highway Patrol Central Laboratory.

- ceived from 90 counties in 1975.
- are available.
- procedures to analyze evidence.
- report.
- due to space limitations.

APPENDIX H-2

#### FEDERAL AND LOCAL FUNDING HISTORY FOR THE MSHP CENTRAL LABORATORY

MCCJ Grant Number	1975	1976	1977	1978
76-ACD2-HP01		F 105,396.00 L 50,550.00		
77-ACD2-HP03			F 35,881.00 L 12,199.00	
77-ACD2-HP09		- - -	F 33,642.00 L 3,778.00	
78-ACD2-HP08				F 24,246.00 L 2,964.00
TOTAL		155,946.00	85,500.00	27,210.00

#### MISSOURI GENERAL REVENUE FUNDS ALLOCATED TO THE MISSOURI STATE HIGHWAY PATROL CRIMINALISTICS LABORATORY SYSTEM

FY 1975	FY 1976	FY 1977	FY 1978
232,543.00	255,825.00	242,163.00	257,108.00

	1975	1976	1977		1978
TOTALS	232,543.00	411,771.00	327,66	3.00	284,318.00
GRAND TOTAL \$1,256,295.00					
MINUS SATELLITE LABORATORY SALARIES \$1,075,584.00					

F. M. Valse Director

#### **DEPARTMENT OF PUBLIC SAFETY MISSOURI STATE HIGHWAY PATROL**

A. R. Lubker, Superintendent

1510 East Elm-Box 568 Jefferson City, Missouri 65102 Telephone 314-751-3313

1. It is stated in your report that we serve an average of 51 agencies per year according to 1975 and 1977 figures. Two hundred fifty-two agencies from 88 counties were served in 1977. These included 19 prosecuting attorneys, 68 sheriffs, 57 coroners, 72 police departments, 26 miscellaneous agencies, and 9 troops and GHQ of the Highway Patrol. In 1975, our annual report did not tabulate cases from sheriffs, coroners, or prosecuting attornies, but did list 67 police departments, 17 miscellaneous agencies, and the 9 troops and GHQ of the Missouri Highway Patrol. Cases were re-

2. In reference to listed staff salaries, maximum and minimum salary ranges

3. Finding I in Section II states that the laboratory does not possess written technical procedures for its disciplines. Our laboratory possesses numerous approved, written technical procedures which are available to our personnel. Our personnel can choose from these approved, written technical

4. In reference to Finding 1 in Section III, our laboratory does keep accurate documentation on the agencies served, and incorporates this in our annual

5. In reference to Finding 2 in Section III, our laboratory records examination totals according to evidence types. This is incorporated in our monthly reports to the Superintendent. It is not incorporated in an annual report

6. In reference to Finding 3 in Section III, accurate mileage records are

September 12, 1979 ~2

maintained and submitted in our monthly report to the Superintendent.

Sincerely,

P. V. VOLKMER, Major, Chilef of Technical Services K. E. Miller, Lieutenant Criminal Laboratory Disision

tory staff.

The Missouri State Highway Patrol (MSHP) Troop B Satellite Criminalistics Laboratory is a unit of the Missouri State Highway Patrol and is located adjacent to the MSHP Troop B Headquarters facility in Macon, Missouri. The laboratory is presently inactive; however, in September 1979, directorship of the laboratory will be assumed by Mr. Kevin Krautman who will be responsible to the Personnel and Operations component of Troop B. (Refer to Organizational Chart, Appendix I-1)

With the assistance of MCCJ funding, the laboratory became operational in October 1977 and remained active until August 31, 1978. Located in a freestanding self-contained structure next to the Troop B building, the laboratory has space accommodations of approximately 600 square feet, of which 300 square feet is bench space making up the working area of the laboratory. When in operation, a staff of two full time employees will maintain the laboratory which served an annual average of 18 agencies during its eleven months of operation. (Refer to the Crime Laboratory Users Index, Page 25.)

Clear, apparently accurate, written job descriptions for laboratory staff do exist as per MSHP general policy.

Training and educational requirements for professional staff members include an intensive one year formal on-the-job training program at the Missouri State Highway Patrol Central Laboratory in Jefferson City and the requirement that all new chemists hold at least a relevant baccalaureate degree. The MSHP determines all written personnel policies that affect the labora-

Records are maintained manually; however, the laboratory does have access to the Troop B computer terminal. Manual record keeping procedures are considered adequate for the laboratory's operations.

#### MISSOURI STATE HIGHWAY PATROL TROOP B SATELLITE CRIMINALISTICS LABORATORY

#### SECTION I

#### Organization and Management

For FY 1978, the laboratory reflects an identifiable budget of \$26,357.00. Included in this total is a minimum dollar amount for staff salaries of \$19,248.00, or at least 73 percent of the identified budget for FY 1978. Annual salary ranges for laboratory staff are:

Title	Minimum Annual	Maximum Annual
Satellite Laboratory Director (Forensic Chemist I)	\$12,396.00	Unknown
Secretary	6,852.00	
Minimum Total	\$19,248.00	

Other expenses for the laboratory include equipment purchases, maintenance, supplies, and travel. Between 1975 and August 1978, the laboratory expended a total of \$169,264.00, of which \$120,016.00 was provided by MCCJ. It should be noted that from 1975 through 1978, Missouri General Revenue fund allocations for all MSHP laboratory staff salaries and supplies totaled \$986,639.00. Responsibility for disbursement of these dollars lies with the MSHP Finance Division; however, this evaluator found that while salary allocations could be determined from the dollar total, no other figures were available to indicate the per laboratory allotment of the balance. (Refer to Appendix I-2 for Four-Year Funding History)

#### Findings and Recommendations for Section I, Organization

The basic assessment of the laboratory's organizational and managerial aspects is positive. Some areas of concern and/or findings, however, with regard to this subject include:

Finding 1.

+ many + .	As indicated by the Director, the laboratory has	<b>(</b>	
	no formal employee development program.	tan - sa tan an	Dinding 0
Recommendation 1:	As per the ASCLAD Standards, the possibility of		Finding 2:
	obtaining a formal employee development program		
•	should be explored.		Description
Finding 2:	The indication of the Director was that laboratories		Recommendation
	are not standardized to:		
	-Improve the evidence analysis process	*	Finding 3.

-Decrease case backlog -Compile technical data to be exchanged between laboratories to reduce analysis time.

Recommendation 2:

Finding 3:

Recommendation 3:

Procedures regarding receipt, handling, flow, analysis, and security of evidence are very impressive. Written records are maintained for chain of custody data and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination. The laboratory is equipped with approximately \$50,000.00 worth of nonexpendable laboratory and office equipment. Limitations to laboratory analysis capabilities were determined by the Director to be an inability of the laboratory to analyze and/or identify ballistics, handwriting, toolmarks, and serology.

# Finding 1: Recommendation 1: 2:

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II. Budget records, through no fault of the laboratory itself, are not well documented in terms of total, specific dollar allocation amounts per laboratory. As per proper management techniques, future records regarding total dollar allocations to the laboratory should be clear, complete, and well documented.

#### SECTION II

#### Operations

#### Findings and Recommendations for Section II, Operations

According to the Director, the laboratory does not possess written technical procedures for each of its disciplines.

As per the ASCLAD Standards, the laboratory should develop or obtain written technical procedures for each of its disciplines.

According to the Director, the laboratory has no written procedures for control of materials and supplies or for maintenance of equipment. As per the ASCLAD Standards, the laboratory should develop written procedures for both control of materials and supplies and maintenance of equipment. The past Director had not designed or implemented a reporting system to provide data relevant to the

#### laboratory's involvement in:

-Suspects identified/located -Suspects cleared -Suspects charged -Prosecutions -Acquittals -Convictions

Recommendation 3:

Recommendation 4:

Finding 4:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II. According to the Director, the laboratory does not develop or disseminate evidence kits. As per positive public relations and improved evidence gathering efforts, the laboratory should consider developing certain types of evidence gathering kits for dissemination to outside agencies.

#### SECTION III

#### Activities

Case - As defined by the Central Laboratory Director is a single numerically assigned file, intended to contain all pertinent data relating to evidence submitted to a forensic laboratory, for processing and relating to a specific crime event. Such a case can be initiated or opened and reopened as circumstances require. Due to the variable nature of the criminal justice process, a strict procedure for case assignment cannot be made. Each case must be assessed on its own elements and experienced judgment applied. Elements of prosecution, suspects, victims and circumstances will determine the number of cases to be opened or reopened. The objective of a laboratory case file assignment is to provide and maintain a repository for a specific crime event history, pertinent to laboratory processing in a specific case.

Evidence - As defined by the Central Laboratory Director is any object or material, gas, liquid or solid, which is related to a crime against persons or property and submitted to the laboratory for analysis or comparative processing by a criminal justice agency.

Examination - As defined by the Central Laboratory Director is a specimen of evidence examined by a number of modes to permit the examiner to arrive at a finding or conclusion. It may be chemically analyzed by a number of methods, weighed, measured, compared in kind and other techniques used. Each method used is considered an examination regardless of how many items compose the specimen. This applies to both an evidence or questioned specimen and a known standard. An examination includes the total inquiry.

Turnaround Time - As defined by the Central Laboratory Director is the time that elapses between when evidence is submitted to the laboratory and when the analysis is completed and the report is written and typed.

Turnaround time figures for the laboratory were calculated from caseload records compiled from September 1977 through June 1978. These calculations were made in terms of the average number of days taken to meet the turnaround time requirements for each type of case as defined by the MSHP Central Laboratory Director. The figures are indicative of the entire caseload between the aboveindicated dates as each case received during that time period was sampled for this purpose.

#### Total Number of Cases Received Annually

Year	Cases	<pre>% Increase or Decrease</pre>
1975 1976 1977 1978	27 (Oct 127	Dec.) +37%

A total of 154 cases was received during the 15-month period of October 1977 through December 1978, for an average of 10 cases per month.

Year	Examinations	<pre>% Increase or Decrease</pre>
1975 1976		
1978	336 (Oct D	)ec.)
1978	976	+268%

A total of 1,312 examinations were conducted during the 15-month period of October 1977 through December 1978 for an average of 88 examinations per month.

#### Examinations Conducted Per Year

#### Number of Miles Traveled Per Year

The average monthly mileage for the 15-month period was 388 miles.

#### Number of Court Appearances Annually

The average monthly number of court appearances over the 15-month period

was one.

Activity Statistics for Breakdown of Caseload, Examination Totals, Case Type Percentage and Turnaround Time 1975-1978

Narcotic & Drug Law Violations $57$ $55.3\%$ N b $18.4$ Notor Vehicle Acci- dent (fatal)14 $13.5$ t $14.7$ Arson8 $7.7$ r y $27.0$ Destruction of Prop.5 $4.8$ e p $30.2$ Liquor Violations4 $3.8$ c e $7.0$ Intoxication4 $3.8$ o $11.5$ Burglary3 $2.9$ r $20.7$ Invest. of Death2 $1.9$ d $50.5$	Type of Case 10-77/6-78	Total Cases 10-77/6-78	<pre>% of Total Cases 10-77/6-78</pre>	Total Exami- nations by Type 10-77/6-78	Avg. Turn- around Time in Days 10-77/6-78
Arson87.7ry27.0Destruction of Prop.54.8ep30.2Liquor Violations43.8ce7.0Intoxication43.8o11.5Burglary32.9r20.7Invest. of Death21.9d50.5	Violations			оу	
Liquor Violations       4       3.8       c e       7.0         Intoxication       4       3.8       o       11.5         Burglary       3       2.9       r       20.7         Invest. of Death       2       1.9       d       50.5	Arson			ry	
Invest. of Death 2 1.9 d 50.5	Liquor Violations	4 4	3.8	се	7.0
				-	
Homicide         1         0.9         d         19.0           Robbery         1         0.9         12.0	Homicide Robbery	1	0.9 0.9	1	19.0 12.0
Suicide         1         0.9         19.0           TOTALS         104         99.0%*         19.0					

*1% due to rounding error

Of the 104 cases received over the nine-month period, 79 involved three types of evidence and represented an average of 73.8 percent of the overall caseload for that period of operation.

#### Findings and Recommendations for Section III, Activities

Overall, activities records for the laboratory are very well maintained. As per the ASCLAD Standards and proper management techniques, areas of concern and/or findings where attention should be directed for purposes of future accountability and possible funding allocations are:

Finding 1: The laboratory does not maintain records indicating total examinations by evidence or case type. Recommendation 1: The laboratory should begin compiling monthly or annual documentation of examinations by evidence or case type.

Of the police respondents, two agencies utilize the laboratory on a primary basis. None indicated the laboratory as a secondary preference. The reason given by police agencies for selecting the Troop B Laboratory is: -Geographic proximity

The police agencies seldom encountered scheduling conflicts for expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

Of the sheriff respondents, one agency utilizes the laboratory on a primary basis while six agencies utilize the laboratory on a secondary basis. Of the composite of reasons given for selecting the laboratory, the most significant were:

The sheriffs' agencies seldom encountered scheduling conflicts for expert testimony of the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

Of the prosecuting attorneys who responded, two prosecutors utilize the laboratory on a primary basis while six prosecutors utilize the laboratory on a secondary basis. Of the composite of reasons given by prosecutors for selecting the laboratory, the most significant were:

#### SECTION IV

#### Laboratory Users Assessment of the Missouri State Highway Patrol Troop B Satellite Criminalistics Laboratory

#### Police

#### Sheriffs

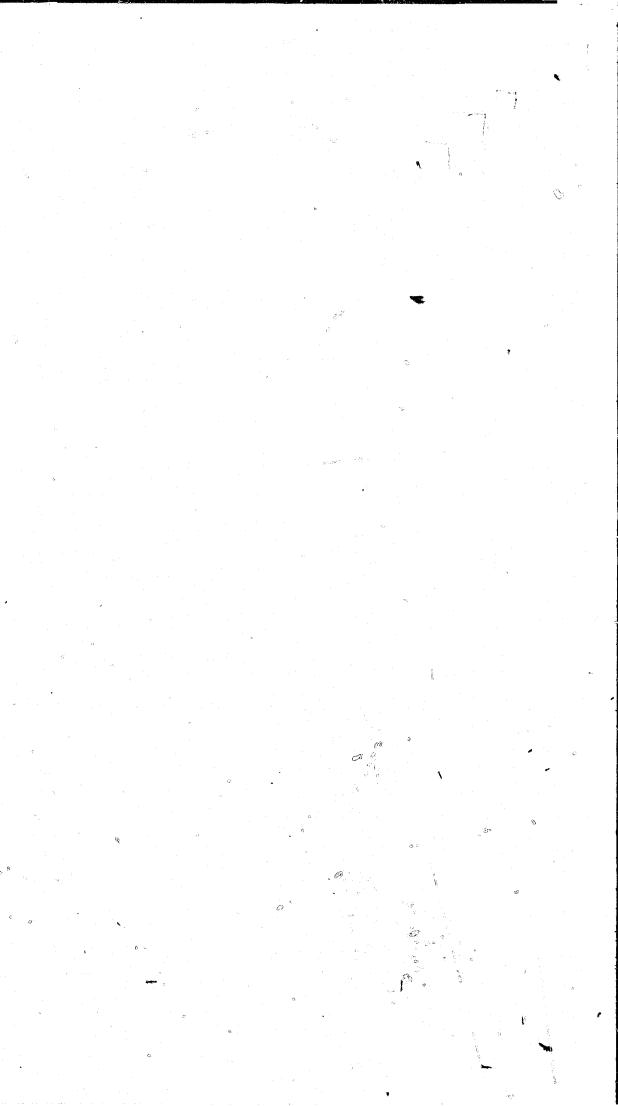
#### -Geographic proximity -Only available service

#### Prosecuting Attorneys

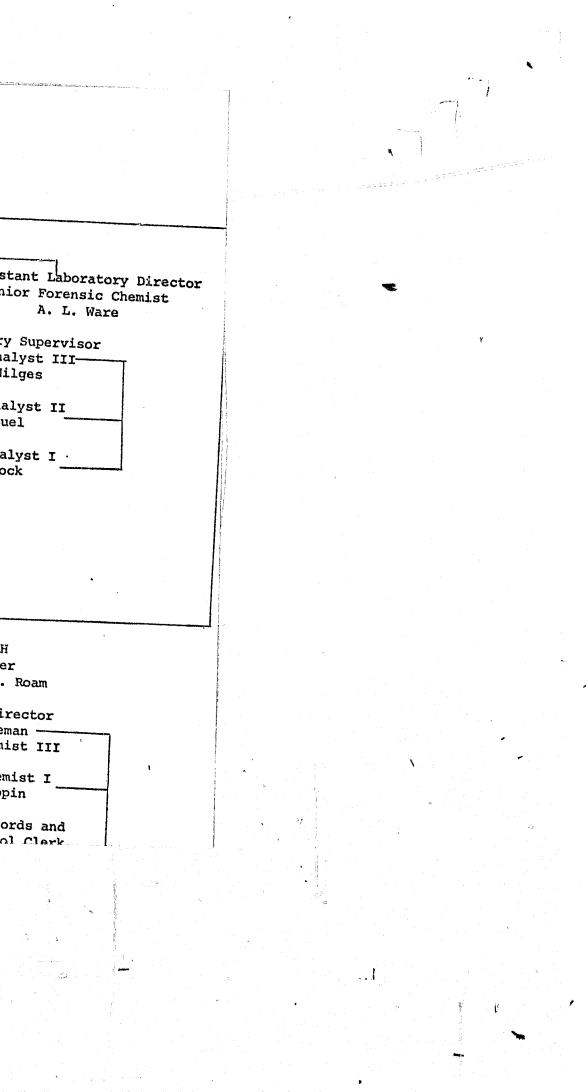
#### -Geographic proximity -The only available service

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The prosecutors seldom encounter scheduling conflicts for expert testimony provided by the criminalist and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.



		COLONEL A. R. LUBKER SUPERINTENDENT	
		Technical Services Major P. V. Volkmer	
		Criminal Laboratory Division Lieutenant K. E. Miller	
Assistant	Laboratory Director		
Senior 1	Forensic Chemist		<b>4</b>
C.	F. Durham		Assistar
1			Senior
	Laboratory Records and		
	Evidence Control Supervisor	Chemical Laboratory Supervisor	Dry Tabanata
	Mildred S. Herzing	Sentor Forensic Chemist	Dry Laboratory S
		E. H. Markway	Forensic Analy
	Laboratory Records and		A. P. Nilg
	Evidence Control Clerk III	Forensic Chemist III	Formerstern
-	Candace Ambrose	Kewi Lee Su	Forensic Analy
I-1			Thomas Buel
	Laboratory Records and	Forensic Chemist I	Normal and a
DI	Evidence Control Clerk III	Carl Rothove	Forensic Analys
APPENDIX	Phyllis Brooks		Donald Lock
dd		Forensic Chemist I	
A	Laboratory Records and	John Bitter	
	Evidence Control Clerk II		
	Denise Lee	Forensic Chemist I	
		William Marbaker	
	· · · · · · · · · · · · · · · · · · ·	Satellite Laboratories Liaison	
	Troop B		
	Commander	Troop G	m.
	Captain C. E. Ray	Commander	Troop H
	····y	Captain V. P. McKee	Commander
	Laboratory Director		Captain F. H. Ro
	Kevin Krautmann	Laboratory Director	
	Forensic Chemist I	Daniel Bibby	Laboratory Direc
		Forensic Chemist II	David Nanneman
	Laboratory Records and		Forensic Chemist
	Evidence Control Clerk	Forensic Chemist I	Foran-i- a
	Luella Brown	Thomas Grant	Forensic Chemis
		<b>*</b> - <b>1</b>	James Crippin
		Laboratory Records and	Laborator
	en se verse se s	Evidence Control Clerk	Laboratory Records Evidence Control (



#### APPENDIX I-2

#### FEDERAL AND LOCAL FUNDING HISTORY FOR THE MSHP TROOP B SATELLITE LABORATORY

MCCJ Grant Number	1975	1976	1977	1070
75-ACD2-HP03*	F 92,409.00 L 24,727.00			1978
77-ACD2-HP05			F 21,316.00 L 2,556.00	
78-ACD2-HP07				F 6,381.00 L 711.00
TOTAL	117,136.00		23,872.00	7,092.00

*Construction grant

#### MISSOURI GENERAL REVENUE FUNDS ALLOCATED TO THE MISSOURI STATE HIGHWAY PATROL CRIMINALISTICS LABORATORY SYSTEM

}					
	FY 1975	FY 1976	FY 1977	FY 1978	
	232,543.00	255,825.00	242,163.00	257,108.00	
				Contraction of the second s	1

The Missouri State Highway Patrol Troop G Satellite Criminalistics Laboratory is a unit of the Criminal Division of the Missouri State Highway Patrol (MSHP) and able to Lt. F. H. Roark of the Troop G Special Services Unit and ultimately With the assistance of MCCJ funding, the laboratory became operational in

is located within the MSHP Troop G Headquarters facility in Willow Springs, Missouri. Directed by Mr. Daniel L. Bibby, the laboratory is immediately answerresponsible to Major P. V. Volkmer, Chief of Field Services for the MSHP in Jefferson City, Missouri. As is evidenced by the organizational char's, the span of management and delineation of authority are distinctly defined as they pertain, not only to the laboratory's placement within Troop G, but also within the entire MSHP Criminal Division. (Refer to Organizational Charts, Appendix J-la and J-lb) February 1975. Located within the basement floor of the Troop G Headquarters building, the laboratory was found to be accommodated within two floors with combined measurements of 518 square feet, of which 394 square feet is working bench space. A staff of two full time employees maintains the laboratory which serves an average of 36 agencies per year. (Refer to the Crime Laboratory User Index, Page 25.)

It was indicated by the Director that no written job descriptions existed for either of the staff members; however, later investigation revealed that such descriptions are written into MSHP policy and therefore do exist for the Troop G Laboratory staff which evidently is not aware of such written duties. Professional preparation for the laboratory chemist is quite extensive due to the MSHP's stringent emphasis on training. An on-the-job training program is mandatorily conducted for all new MSHP criminalists at the MSHP Central Laboratory in Jefferson City for a period of one year. The laboratory furthers this initial training with continuous on-the-job training. Additionally, MSHP policy requires that the criminalist hold a relevant baccalaureate degree.

#### MISSOURI STATE HIGHWAY PATROL TROOP G SATELLITE CRIMINALISTICS LABORATORY

#### SECTION I

## Organization and Management

The MSHP determines all written personnel policies that affect the laboratory staff. Staff members indicated no awareness of such written policies as personnel evaluations or employee grievance procedures. The staff was, however, aware of the other written policies of administration and indicated an understanding of them.

Manual records are maintained by the laboratory and the Director indicated no computer system was available. The evaluator believes that manual record keeping procedures are adequate for the laboratory's operations.

For FY 1978, the laboratory reflects an identifiable budget of \$20,153.00. Included in this total is a minimum dollar amount for staff salaries of \$18,516.00, or at least 92 percent of the identified budget for FY 1978. The annual salary range for laboratory staff members is:

Title		Minimum Annual	Maximum Annual
Laboratory Director Secretary		\$10,608.00 7,908.00	\$16,860.00 Unknown
	Minimum Total	\$18,516.00	

Other expenses for the laboratory include equipment purchases, maintenance, supplies, and travel. Between 1975 and 1978 the laboratory expended approximately \$60,635.00, of which \$4,557.00 were MCCJ funds. It should be noted that from 1975 through 1978, Missouri General Revenue fund allocations for all MSHP laboratory staff salaries and supplies totaled \$987,639.00. Responsibility for disbursement of these dollars lies with the MSHP Finance Division. Contact with the Finance Division revealed to this evaluator that while salary allocations to each individual laboratory could be determined from the total FY 1978 General Revenue sum of \$257,108.00, no other figures were available to indicate the per laboratory dispersal of these dollars. (Refer to Appendix J-2 for the Four-Year Funding History and Revenue Allocations)

The primary assessment of the organizational and managerial aspects of the laboratory is very favorable. Aspects of concern and/or findings of laboratory deficiency in this area are:

Finding 1:

Recommendation 1:

Finding 2:

Recommendation 2:

Finding 3:

Recommendation 3:

Finding 4:

#### Findings and Recommendations for Section I, Organization

According to the Director, there is no formal employee development program available for laboratory employees.

As per the ASCLAD Standards, the laboratory should explore the possibility of obtaining a formal employee development program.

As was indicated by the questionnaire survey, the staff is apparently not aware of some MSHP administrative policies that apply directly to them as employees of the MSHP (i.e., job descriptions, personnel evaluation and grievances, etc.) As per proper principles of management, the Laboratory Director should make a dedicated effort, as should the administrators of the MSHP, to keep the lines of communication open and to disseminate MSHP policy information affecting employees. According to the Director, the laboratory does not ensure that the conclusions and expert testimony of its examiner are reasonable within the constraints of forensic knowledge.

As per the ASCLAD Standards, the laboratory should make every effort to ensure that all conclusions and expert testimony offered by examiners is reasonable within the constraints of forensic knowledge. The indication of the Director was that laboratories are not standardized to:

-Improve the evidence analysis process

-Decrease case backlog

-Compile and exchange technical data between laboratories to reduce analysis time

Recommendation 4:

Finding 5:

Recommendation 5:

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II. Budget records, through no fault of the laboratory itself, are not well documented in terms of total specific dollar allocation amounts per laboratory. As per proper management techniques, future records regarding budgetary allocations must be maintained in a clear, specific, and well documented manner for purposes of new allocations to each MSHP laboratory.

#### SECTION II

#### Operations

Procedures with regard to the laboratory's receipt, handling, flow, analysis, and security of evidence are quite impressive. The laboratory was found to utilize written records for chain of custody and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination.

The laboratory's two staff members have access to approximately \$84,500.00 worth of nonexpendable laboratory and office equipment.

Limitations to laboratory analysis/identification capabilities, according to the Director, are in the areas of fingerprints, handwriting, ballistics, and toolmarks, none of which can be processed at the laboratory.

#### Findings and Recommendations for Section II, Operations

Finding 1:

According to the Director, the laboratory does not possess written technical procedures for each of its disciplines.

Recommendation 1:

As per the ASCLAD Standards, the laboratory should develop or obtain written procedures for each of its disciplines to the extent possible.

Finding 2:

According to the Director, the laboratory does not always check new technical procedures thoroughly to prove their efficiency in identifying evidence materials. Recommendation 2:

Finding 3:

Recommendation 3:

Finding 4:

Recommendation 4: Finding 5: Recommendation 5:

<u>Case</u> - As defined by the Director is all evidence submitted dealing with one incident.

Evidence - As defined by the Director is anything submitted for analysis. Examination - As defined by the Director is the determination of one physical or chemical property of a substance.

As per the ASCLAD Standards, all new technical procedures should be checked thoroughly to prove their efficiency in identifying evidence materials. According to the Director, the laboratory has no written procedures for control of materials or maintenance of equipment.

As per the ASCLAD Standards, written procedures should be developed for both the control of materials and the maintenance of equipment. The Director has not designed or implemented a

system to provide data relevant to the laboratory's involvement in:

-Investigated crimes -Suspects identified/located -Suspects cleared -Suspects charged -Prosecutions -Acquittals -Convictions

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II. According to the Director, the laboratory does not develop evidence kits.

As per positive public relations and more professional evidence gathering, the laboratory should explore the possibility of developing some types of evidence gathering kits for dispersal to area agencies.

#### SECTION III

#### Activities

Turnaround Time - As defined by the Director is the number of days from the date that evidence is submitted to the date that analysis is completed and the report is written. This does not include time taken to type the report and/or to send it out, which is usually one day at the most.

Turnaround time figures for the laboratory were calculated from caseload records beginning on June 1, 1977, and ending on December 31, 1978, inclusive. These calculations were made within the parameters of the average number of days taken to meet the turnaround time requirements for each type of case as defined by the Troop G Laboratory. The figures are indicative of the entire caseload between the above-indicated dates as each case received during that time period was sampled for this purpose.

Total Number of Cases Received Annually

Year	Cases	% Increase or Decrease
1975 1976 1977 1978	193 296 350 299	+65% +16% <b>-</b> 15%

The total number of cases received between 1975 and 1978 was 1,138 for an annual average of 285. The above table indicates the respective yearly increases and decreases in cases received. There was an average increase of 66 percent in the total of new cases received from 1975 through 1978.

#### Examinations Conducted Per Year

Year	Examinations	% Increase or Decrease
1975 1976	1,933 3,190	+60.5%
1977 1978	7,792 4,758	+41.0% -61.0%

Four-year totals for examinations reveal that the laboratory conducted 17,673 examinations from 1975 through 1978. The average yearly number of examinations conducted by the laboratory for that period of time was 4,418. The above table shows the respective yearly percentage of increases and decreases in examinations over the four-year period.

#### Number of Miles Traveled During Calendar Year

Average yearly mileage for the four-year period is 9,318.

The average yearly number of court appearances for the laboratory staff is 59.

Activity Statistics for Breakdown of Caseload, Examination Totals, Case Type Percentage and Turnaround Time 1975-1978

Type of Case 1975-1978	Total Cases 1975-78	% of Total Cases 1975-78	Total Exami- nations by Type 1975-1978	Avg. Turn- around Time in Days 1977-1978
Narcotic & Drug Violation Intoxication Accident Liquor Law Violation Hit and Run Miscellaneous Other Invest. Burglary Investigation of Death Destruction of Property Arson Homicide Assault Rape Poisoning Suicide Larceny Robbery Firearms Identification Forgery Fraud	680 128 94 42 29 27 26 17 14 14 14 13 11 4 4 4 4 2 0 0 0	59.0% 11.2 8.2 3.6 2.5 2.3 2.2 1.4 1.2 1.1 0.9 0.3 0.3 0.3 0.1 0.0 0.0 0.0	N o t r e c o r d e d b Y t y p e	26.6 12.6 16.1 12.0 35.0 21.6 44.3 24.0 12.0 32.2 17.0 15.3 38.2 Not Sampled 12.0 Not Sampled Not Sampled N/A N/A
TOTALS	1,138	99.08*		24.5

*1% due to rounding error

Of the 1,138 new cases received from 1975 through 1978, 942 involved four types of evidence and represented 82.6 percent of the overall caseload for those years of operation.

Total Number of Court Appearances Annually

#### Findings and Recommendations for Section III, Activities

An overall assessment of the laboratory's activity documentation is very positive. As per the ASCLAD Standards and proper management techniques, an area of concern where attention should be directed for purposes of future accountability and possible funding allocations is:

Finding 1:

Breakdown of total examinations by evidence type was not available.

Recommendation 1:

The laboratory should begin to maintain a breakdown of examinations by evidence type.

#### SECTION IV

Laboratory Users Assessment of the <u>Missouri State Highway Patrol</u> Troop G Satellite Criminalistics Laboratory

#### Police

Of the police respondents, one agency utilizes the laboratory on a primary basis and three others utilize the laboratory on a secondary basis. The reason given by police agencies for selecting the Troop G laboratory is:

#### -Geographic proximity

The police agencies sometimes encountered scheduling conflicts for expert testimony of the criminalists and they indicated that the laboratory is often responsive to urgent or emergency analysis needs situations.

#### Sheriffs

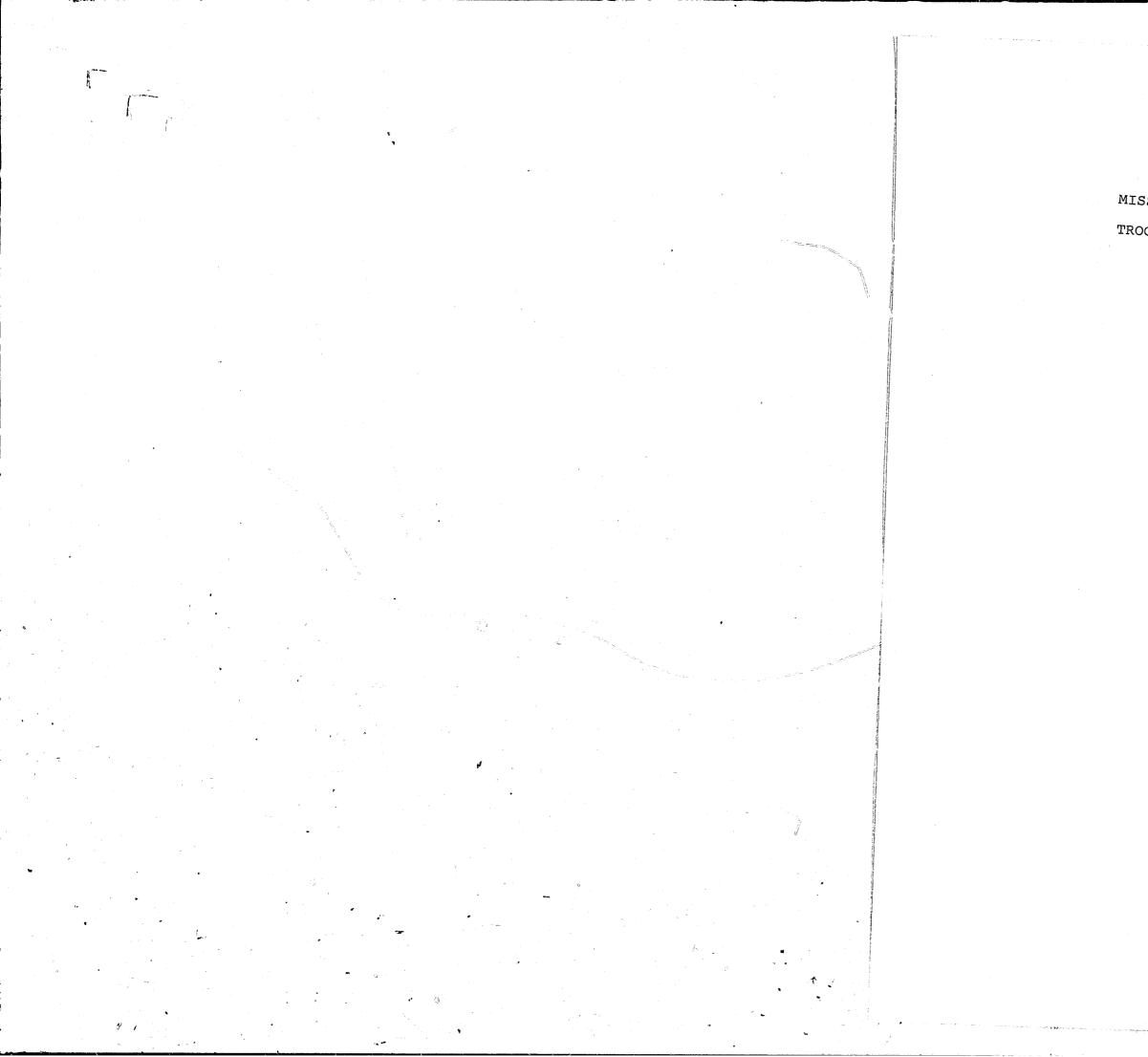
Of the sheriff respondents, two agencies utilize the laboratory on a primary basis while one agency utilizes the laboratory on a secondary basis. The reason given by sheriffs' agencies for selecting the laboratory is:

#### -Geographic proximity

The sheriffs' agencies seldom encountered scheduling conflicts for expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations. Of the prosecuting attorneys who responded, two prosecutors utilize the laboratory on a primary basis while one prosecutor utilizes the laboratory on a secondary basis. The reason given by prosecutors for selecting the laboratory is: -Geographic proximity

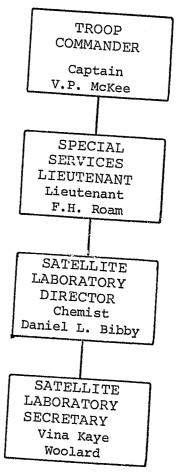
The prosecutors seldom encountered scheduling conflicts for expert testimony of the criminalists and they indicated that the laboratory is always responsive to urgent or emergency needs situations.

## Prosecuting Attorneys

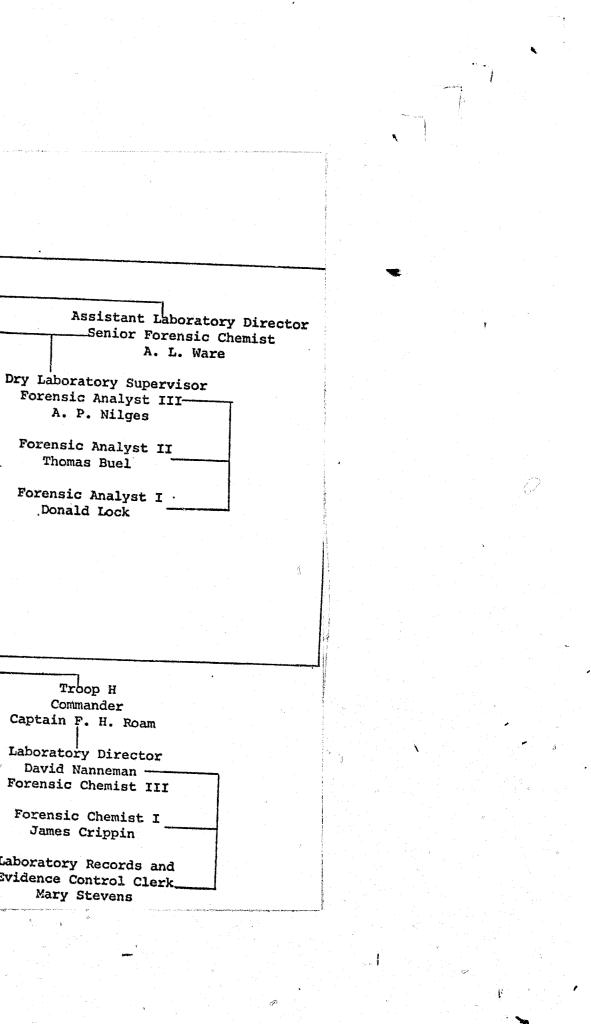


APPENDIX J-la

ORGANIZATIONAL CHART MISSOURI STATE HIGHWAY PATROL TROOP G SATELLITE LABORATORY



· · · · · · · · · · · · · · · · · · ·		SUPERINTENDENT	
- - -			
		Technical Services	
		Major P. V. Volkmer	
-			
		Criminal Laboratory Division	
1		Lieutenant K. E. Miller	
1	Assistant Laboratory Director		
•	Senior Forensic Chemist		
	C. F. Durham		
•	Laboratory Records and	Chemical Laboratory	
A (1994)	Evidence Control Supervisor	Chemical Laboratory Supervisor Senior Forensic Chemist	r
	Mildred S. Herzing	E. H. Markway	t i
	Tabas	2 Markway	
	Laboratory Records and	Forensic Chemist III	Ļ
	Evidence Control Clerk III	Kewi Lee Su	-
	Candace Ambrose		
		Forensic Chemist I	
· · · ·	Laboratory Records and	Carl Rothove	
•	Laboratory Records and Evidence Control Clerk III Phyllis Brooks		
	Phyllis Brooks	Forensic Chemist I	
	Laboratory Records and	John Bitter	
	Evidence Control Clerk II		
	Denise Lee	Forensic Chemist I	
		William Marbaker	
		A-1	
		Satellite Laboratories Liaison	
	Troop B		
	Commander	Troop G	
	Captain C. E. Ray	Commander	
		Captain V. P. McKee	
	Laboratory Director	Laboratown Di	
	Kevin Krautmann	Laboratory Director	- 1
	Forensic Chemist I	Daniel Bibby Forensic Chemist II	614
	G	Lozonate chemist II	1
	Laboratory Records and	Forensic Chemist I	
	Evidence Control Clerk	Thomas Grant	
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		Evidence Control Clerk	La
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#### APPENDIX J-2

#### FEDERAL AND LOCAL FUNDING HISTORY FOR THE MSHP TROOP G SATELLITE LABORATORY

MCCJ Grant Number	1975	1976	1977	1978
77-ACD2-HP04			F 3,084.00 L 345.00	
78-ACD2-HP06				F 1,473.00 164.00
TOTALS			3,429.00	1,637.00

#### MISSOURI GENERAL REVENUE FUNDS ALLOCATED TO THE MISSOURI STATE HIGHWAY PATROL CRIMINALISTICS LABORATORY SYSTEM

FY 1975	FY 1976	FY 1977	FY 1978
232,543.00	255,825.00	242,163.00	257,108.00

September 10, 1979

Mr. G. P. Maddox, Evaluation Specialist Department of Public Safety Missouri Council on Criminal Justice P. O. Box 1041 Jefferson City, Missouri 65102

Dear Mr. Maddox,

I wish to offer the following clarifications to statements included in your evaluation report on the Troop G Satellite Laboratory.

1. Regarding Section I, Finding 3: The Missouri State Highway Patrol trains new chemists for approximately one year (see Section I, paragraph 4 of your evaluation) in proper analytical techniques. This training includes knowns, unknowns, controls, actual cases and observation of court testimony. With the exception of the implementation of a formal program for individual development and continuing education along with inner laboratory proficiency standards, the Missouri State Highway Patrol has done all in its power to provide the chemists with the opportunity to gain the knowledge and to come to appropriate conclusions and give coherent testimony in court. It was my contention that it is not possible for anyone or any organization to "ensure" or guarantee the "conclusions and expert testimony" of another individual.

2. Regarding Section II, Finding 2: The statement given is correct but incomplete. Since the laboratory does not have the time or finances necessary to acquire material to check new technical procedures thoroughly, those new procedures are not used.

Sincerely,

Daniel L. Bibby Missouri State Highway Patrol Troop G Satellite Laboratory Director

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September 18, 1979

Mr. G. P. Maddox, Evaluation Specialist Department of Public Safety Missouri Council on Criminal Justice P. O. Box 1041 Jefferson City, Missouri 65102

Dear Mr. Maddox,

This letter is in regard to your Missouri Criminalistics Laboratory Evaluation study of the Troop G Satellite Laboratory. On further study of your report, T found a few other small errors in addition to those I informed you about in my September 10 letter. Due to the promotion of F. H. Roam, our new Special Services Lieutenant is Lieutenant E. D. Elmore.

In looking at your figures on the total number of cases received annually, I find myself unable to reach the percentages that you did. The percent increases according to my figures for 1976, 1977 and 1978 were +53%, +18% and -15% respectively. For the examinations conducted per year my percentages for the years 1976, 1977 and 1978 were +65%, +144% and -39% respectively. The average yearly mileage for the four year period is 8703 miles.

Upon checking with the personnel department of the Missouri State Highway Patrol there are no written policies as to personal evaluations or employee grievance

Sincerely,

Daniel L. Bibby Missouri State Highway Patrol Troop G Satellite Laboratory Director

The Missouri State Highway Patrol Troop H Satellite Criminalistics Laboratory is a unit of the Missouri State Highway Patrol (MSHP) and is located adjacent to the MSHP Troop H Headquarters facility in St. Joseph, Missouri. Directed by Mr. David Nanneman, the laboratory is immediately accountable to Major P. V. Volkmer, Chief of Field Services for the MSHP. The laboratory's organizational chart indicates quite clearly the span of management and delineation of authority, not only within the laboratory itself, but also as the laboratory fits into the entire framework of the MSHP Criminal Division. The Director, however, indicated that his authority is not well defined. (Refer to Organizational Charts, Appen-

With the assistance of MCCJ funding, the laboratory became operational in February 1977. Located in a free-standing, self-contained structure next to the Troop H building, the laboratory was found to be, at present, accommodated with 600 square feet, of which 250 square feet is working bench space. A new Troop H Headquarters building currently under construction will provide the laboratory with 140-200 additional square feet. A staff of three full time employees maintains the laboratory which serves an average of 30 agencies per year. (Refer to the Crime Laboratory Users Index, Page 25.)

Clear, and apparently accurate, written job descriptions do exist for laboratory staff as per MSHP general policy. All laboratory staff indicated an awareness and understanding of such descriptions and observations revealed that they governed their professional activities accordingly.

Training and educational preparation for professional staff members includes an intensive, one-year, formal on-the-job training program at the MSHP Central Laboratory in Jefferson City and the requirement that all new chemists hold at least a relevant baccalaureate degree.

#### MISSOURI STATE HIGHWAY PATROL TROOP H SATELLITE CRIMINALISTICS LABORATORY

#### SECTION I

### Organization and Management

The MSHP determines all written personnel policies that affect the laboratory staff. This evaluator found that staff members were unaware of the existence of such written policies as personnel evaluations and employee grievance procedures. The staff was, however, aware of other written policies of administration and indicated an understanding of them.

Records are maintained manually by the laboratory; however, access to the Troop H computer terminal is available. Manual procedures for record keeping are considered, by the evaluator, to suit the laboratory's needs quite sufficiently.

For FY 1978, the laboratory reflects an identifiable budget of \$41,521.00. Included in this total is a minimum dollar amount of staff salaries of \$34,704.00 or at least 83 percent of the identified budget for FY 1978. Annual salary ranges for laboratory staff members are:

Title		Minimum Annual	Maximum Annual
Satellite Laboratory Director (Forensic Chemist III) Forensic Chemist I Secretary		\$16,368.00 11,484.00 6,852.00	\$22,728.00 15,624.00 Unknown
	Minimum Total	\$34,704.00	

Other expenses for the laboratory include equipment purchases, maintenance, supplies, and travel. Between 1975 and 1978, the laboratory expended an approximate total of \$183,373.00, of which \$98,672.00 was provided by MCCJ. It should be noted that from 1975 through 1978, Missouri General Revenue fund allocations for all MSHP laboratory staff salaries and supplies totaled \$987,639.00. Responsibility for dispersal of these dollars lies with the MSHP Finance Division; however, this evaluator found that while salary allocations could be determined from this dollar total, no other figures were available to indicate the per laboratory allotment of the balances. (Refer to Appendix K-2 for Four-Year Funding History)

#### Findings and Recommendations for Section I, Organization

The primary assessment of the laboratory's organizational and managerial aspects is quite positive. The aspects of concern and/or findings of laboratory deficiencies in this area are:

Finding 1:

Recommendation 1:

Finding 2:

Recommendation 2:

Finding 3:

Recommendation 3:

Finding 4:

Recommendation 4:

Finding 5:

Recommendation 5:

Regardless of the distinct charts of organization for the laboratory, the Director indicates that the basis for his authority is not well defined.

As per the ASCLAD Standards, the Director should be made fully aware of and have an understanding of the basis for his authority within the laboratory and the organization as a whole.

According to the completed survey, the staff is apparently not fully aware of all written personnel policies that apply directly to them as MSHP employees. As per proper management principles, the Director should make every effort, as should MSHP administrators, to keep the lines of communication regarding all personnel policies open and well understood. According to the Director, the laboratory has no formalized employee development program. As per the ASCLAD Standards, the possibility of obtaining a formal employee development program should be explored.

The indication of the Director was that laboratories are not standardized to:

-Improve the evidence analysis process -Decrease case backlog -Compile and exchange technical data between laboratories to reduce analysis time.

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II. Budget records, through no fault of the laboratory itself, are not well documented in terms of total specific dollar allocation amounts per laboratory. As per proper management techniques, future records regarding total dollar allocations to the laboratory should be clear, complete, and well documented.

#### SECTION II

#### Operations

Procedures regarding receipt, handling, flow, analysis, and security of evidence are very impressive. Written records for chains of custody are utilized and all evidence is marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination.

The laboratory's three staff members have access to approximately \$50,600.00 worth of nonexpendable laboratory and office equipment.

Limitations to laboratory analysis capabilities were determined by the firector to be in the area of instrumentation for elemental and serology analysis. The laboratory is further incapable of the analysis and/or identification of ballistics, handwriting, and toolmarks.

#### Findings and Recommendations for Section II, Operations

Finding 1:

Finding 2:

Finding 3:

Recommendation 1:

Recommendation 2:

Recommendation 3:

According to the Director, the laboratory does not possess written technical procedures for each of its disciplines.

As per the ASCLAD Standards, the laboratory should develop or obtain written procedures for each of its disciplines to the extent possible.

According to the Director, the laboratory does not always check new technical procedures thoroughly to prove their efficiency in identifying evidence materials.

As per the ASCLAD Standards, all new technical procedures should be thoroughly checked to prove their efficiency in identifying evidence materials. According to the Director, the laboratory has no written procedures for control of materials and supplies or maintenance of equipment.

As per the ASCLAD Standards, written procedures should be developed for both control of materials and supplies and for maintenance of equipment.

Finding 4:

Recommendation 4:

Finding 5:

3

Recommendation 5:

Case - As defined by the Director is evidence submitted from an individual incident preferably involving one individual. Sometimes more than one person may be involved, but the evidence is still considered to be one case. Evidence - As defined by the Director is materials submitted for examination.

Examination - As defined by the Director is the overall analysis of one piece of evidence or the analysis of evidence using a reagent or other procedure. Turnaround Time - As defined by the Director is the number of days from the date that evidence is submitted until the date that analysis is completed and the report is written. This does not include the time that is taken to type the report and/or to send it out, which is usually one day at the most. Turnaround

time figures for the laboratory were calculated from caseload records beginning on February 14, 1977, and ending on December 31, 1978, inclusive. These calculations were made in terms of average number of days taken to meet the turnaround time requirements for each type of case as defined by the Troop H Laboratory. The figures are indicative of the entire caseload between the aboveindicated dates as each case received during the time period was sampled for this

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The Director has not designed or implemented a reporting system to provide data relevant to the laboratory's involvement in:

> -Suspects identified/located -Suspects cleared -Suspects charged -Prosecutions -Acquittals -Convictions

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II. According to the Director, the laboratory does not develop or disseminate evidence kits. As per positive public relations and improved evidence gathering efforts, the laboratory should consider developing certain types of evidence gathering kits for dissemination to area user agencies.

#### SECTION III

#### Activities

#### Total Number of Cases Received Annually

Year	Cases	<pre>% Increase or Decrease</pre>
1975 1976		
1977	347	
1978	311	-10%

A total of 658 cases was received between the two years for a yearly average of 329 cases. The above table indicates the percentage decrease in cases received between the two years of operation.

#### Examinations Conducted Per Year

Year	Examinations	<pre>% Increase or Decrease</pre>
1975		
1976	•	
1977	3,824	
1978	2,745	-28%

A total of 6,569 examinations was conducted between the two years for a yearly average of 3,284 examinations. Laboratory records indicate a decrease of 28 percent in examinations conducted between 1977 and 1978.

#### Number of Miles Traveled Per Year

The average mileage between the two years was 4,759.

#### Total Number of Court Appearances Annually

The average yearly number of court appearances for the laboratory staff was 38.

		**************************************		
Type of Case Narcotic & Drug Violations Arson	Total Cases 414	<pre>% of Total Cases 63.0%</pre>	Total Exami- nations by Type N	Avg. Turn- around Time in Days 13.54
Liquor Law Violations Accident (fatal) Intoxication Hit & Run Miscellaneous Destruction of Property Burglary	82 36 27 21 18 17 13	12.4 5.4 4.1 3.1 2.7 2.5 1.9	o t r e c o	9.78 18.27 9.50 6.52 22.37 10.61 11.25
Poisoning Assault Investigation of Deaths Fraud Rape Robbery	8 6 4 3 2 2 2 2	1.2 0.9 0.6 0.4 0.3 0.3 0.3	r d d b y	19.11 15.00 13.00 60.00 37.00 9.00
Homicide Suicide Firearms Identification Forgery Larceny	2 1 0 0 0	0.3 0.1 0.0 0.0 0.0	y t y p e	9.00 4.00 27.00 0.00 0.00 0.00
TOTALS	658	99.0%*		13.31

Of the 658 new cases received from 1977 through 1978, 553 involved four types of evidence and represented an average of 84.9 percent of the overall caseload for those two years of operation.

The general assessment of the laboratory's activity documentation is very favorable. As per the ASCLAD Standards and proper management techniques, an area of concern where attention should be directed for purposes of future accountability and possible funding allocations is:

Finding 1:

Recommendation 1:

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Activity Statistics for Breakdown of Caseload, Examination Totals, Case Type and Turnaround Time 1977-78

*1% due to rounding error

#### Findings and Recommendations for Section III, Activities

Breakdowns of examinations by evidence type are not available.

The laboratory should document examination totals by type of evidence or case.

#### SECTION IV

#### Laboratory Users Assessment of the Missouri State Highway Patrol Troop H Satellite Criminalistics Laboratory

#### Police

Of the police respondents, one agency utilizes the laboratory on a primary basis while two agencies utilize the laboratory on a secondary basis. The only reason given by police agencies for using the laboratory was:

#### -Geographic proximity

The police agencies seldom encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is always responsive to urgent or emergency analysis needs situations.

#### Sheriffs

Of the sheriff respondents, five agencies utilize the laboratory on a primary basis while five others utilize the laboratory on a secondary basis. Of the composite of reasons given for using the laboratory, the most significant were:

#### -Geographic proximity -No service charge

The sheriffs' agencies seldom encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

#### Prosecuting Attorneys

Of the prosecuting attorneys who responded, six of them utilize the laboratory on a primary basis while two others utilize the laboratory on a secondary basis. The only reason given by the prosecutors for using the laboratory was:

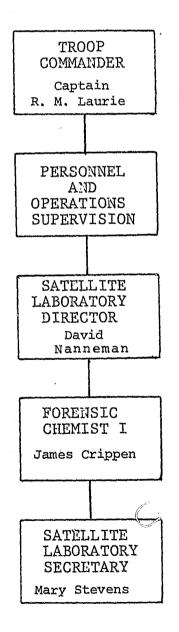
#### -Geographic proximity

The prosecutors sometimes encounter conflicts in scheduling expert testimony of the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

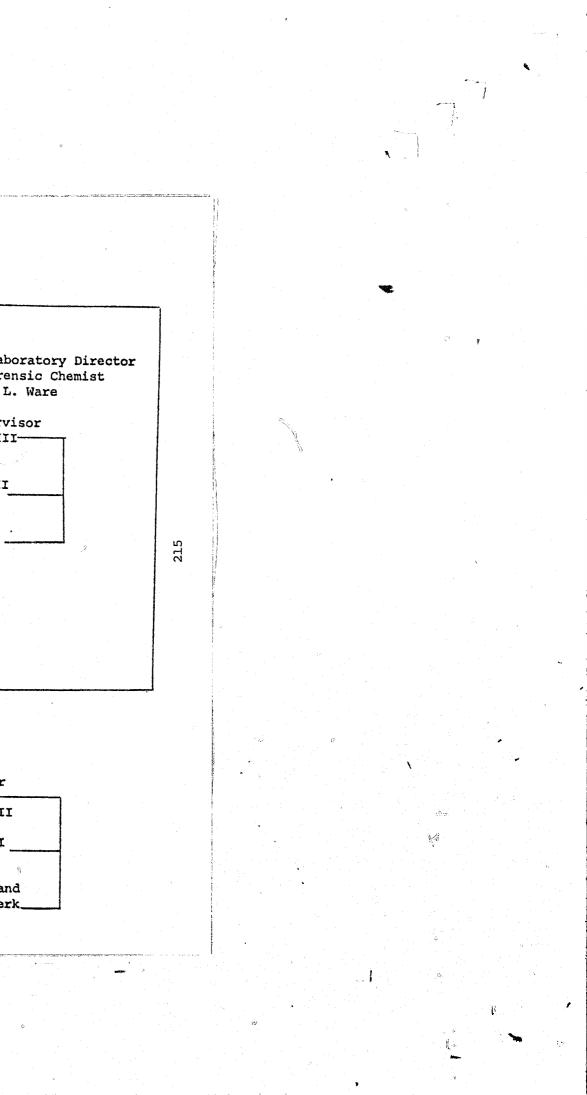
*

#### APPENDIX K-la

## ORGANIZATIONAL CHART MISSOURI STATE HIGHWAY PATROL TROOP H SATELLITE LABORATORY



and a second	ار بىر مەرەپ چەمەر ئېچىنىچى، بېرىسە مېرىي قەمەم مەرەپ مەرەپ مەرەپ بىر بىرىمىيە مەرەپ يېرىمى مەرەپ مەرەپ مەرەپ چىنى چىمىمىرىيى مەرەپ مەرە	COLONEL A. R. LUBKER	் பில் பார்க் பார் 🗶 2 முறைகளாக தல்லாறு. பிரியின்றோ, தின்று திரைப்படிக்கும், கூடில் கொண்ணுகளுக்கு கிறுக்குள்
		SUPERINTENDENT	
		SOPERINTENDENT	
		Technical Services	
		Major P. V. Volkmer	
		Criminal Laboratory Division	· .
		Lieutenant K. E. Miller	
Assistant	Laboratory Director		
Senior H	Forensic Chemist		Assistant Labora
	. F. Durham		Senior Forensie
	• r • Durnam		A. L. W
			A. L. W
	Laboratory Records and	Chemical Laboratory Supervisor	
	Evidence Control Supervisor	chemical Laboratory Supervisor	Dry Laboratory Supervisor
	Mildred C Hand	Senior Forensic Chemist	Forensic Analyst III
	Mildred S. Herzing	E. H. Markway	A. P. Nilges
			v. t. utraca
	Laboratory Records and	Forensic Chemist III	
	Evidence Control Clerk III		Forensic Analyst II
0		Kewi Lee Su	Thomas Buel
E E	Candace Ambrose	•	
APPENDIX K-1b		Forensic Chemist I	
	Laboratory Records and		Forensic Analyst I
Ĥ	Evidence Control Clerk III	Carl Rothove	Donald Lock
Q.			
្រុ	Phyllis Brooks	Forensic Chemist I	
H H H		John Bitter	
A	Laboratory Records and		
	Evidence Control Clerk II	<b>m i i i</b>	
		Forensic Chemist I	
	Denise Lee	William Marbaker	
		Controllation Tables of the set	
		Satellite Laboratories Liaison	
	: T		· · · ·
	Troop B	Troop G	Troop H
	Commander	Commander	
	Captain C. E. Ray		Commander
	captarn c. n. nay	Captain V. P. McKee	Captain F. H. Roam
	Laboratory Director	Laboratory Director	Taboratory Diverter
	Kevin Krautmann	Daniel Bibby	Laboratory Director
2	Forensic Chemist I		David Nanneman
		Forensic Chemist II	Forensic Chemist III
	Tabaua ta		
	Laboratory Records and	Forensic Chemist I	Forensic Chemist I
		Thomas Grant	
	Evidence Control Clerk		James Crippin
	Evidence Control Clerk Luella Brown		ij
		Laboratory Records and	Laboratory Records and
		Laboratory Records and Evidence Control Clerk	Laboratory Records and Evidence Control Clerk
		Evidence Control Clerk	Evidence Control Clerk
		Laboratory Records and Evidence Control Clerk V. K. Woolard	Laboratory Records and Evidence Control Clerk Mary Stevens
		Evidence Control Clerk	Evidence Control Clerk



Joseph P. Teasdale Governor



September 11, 1979

Mr. G. P. Maddox, Evaluation Specialist Department of Public Safety Missouri Council on Criminal Justice Jefferson City, Missouri 65102

Dear Mr. Maddox:

With regard to Finding #1 under Section II Operations, this laboratory has a library of technical information and each chemist has his files with technical reference and information on the different types of analysis required.

With regard to Finding #2 under Section II Operations, "The laboratory does not always check new technical procedures thoroughly to prove their efficiency in identifying evidence materials".

for their efficiency.

This laboratory does thoroughly check all procedures that are used in analysis of evidence for their reliability and accuracy.

Sincerely,

F. H. ROAM, Captain Commanding Troop H

i and F Manneman

David F. Nanneman, Chemist

APPENDIX K-2

#### FEDERAL AND LOCAL FUNDING HISTORY FOR THE MSHP TROOP H SATELLITE LABORATORY

and the second	· · · · · · · · · · · · · · · · · · ·			
MCCJ Grant Number	1975	1976	1977	1978
75-ACD2-HP04	F 88,993.00 L 24,727.00			
77-ACD2-HP01			F 3,572.00 L 556.00	
78-ACD2-HP09				F 6,107.00 L 710.00
TOTALS	113,720.00		4,128.00	6,817.00

#### MISSOURI GENERAL REVENUE FUNDS ALLOCATED TO THE MISSOURI STATE HIGHWAY PATROL CRIMINALISTICS LABORATORY SYSTEM

FY 1975	FY 1976	FY 1977	FY 1978
232,543.00	255,825.00	242,163.00	257,108.00

F. M. Wilson Director

#### **DEPARTMENT OF PUBLIC SAFETY MISSOURI STATE HIGHWAY PATROL** A. R. Lubker, Superintendent

Address reply to Commanding Officer, Troop H MISSOURI STATE HIGHWAY PATROL St. Joseph - 64502 Phone 816-233-0291

This laboratory does not and cannot thoroughly check all new procedures

DEPARTMENT OF PUBLIC SAVELY JEHTERSON CITY. MIS COLIR

The St. Louis Metropolitan Police Department Criminalistics Laboratory is a unit of the Technical Services Division of the St. Louis Metropolitan Police In operation since 1927, the laboratory is located within the Central Metro-

Department. The laboratory is under the immediate direction of Lt. William Armstrong who reports to the Manager of the Department's Technical Services Division. (Refer to Organizational Charts, Appendix L-la and L-lb) politant Police Department Building in downtown St. Louis and has physical space accommodations of approximately 4,080 square feet, of which approximately 2,000 square feet is working bench space.

A staff of 22 full time and two part time employees maintains the six sections of the laboratory which services the St. Louis Metropolitan Police Department, and, as indicated by the Director, approximately 20 other area agencies. No records were available for documentation. (Refer to the Crime Laboratory Users

Employees of the laboratory were found to have accurate, written job descriptions dictating their laboratory activities and duties. It was the indication of the employees and the observation of the evaluator that the employees were aware of such job descriptions and that they understood them and conducted their professional activities accordingly.

The St. Louis Metropolitan Police Department determines all written personnel policies that affect laboratory staff. The indication and observation was that the staff was aware of and understood such policies and that they governed their professional activities accordingly.

Laboratory records are maintained manually; however, the laboratory does have access to the Department's computer system. The manual system does seem to function adequately, but the volume of work handled by the laboratory suggests that perhaps a computerized system would be more efficient and dependable.

#### ST. LOUIS METROPOLITAN POLICE DEPARTMENT CRIMINALISTICS LABORATORY

#### SECTION I

## Organization and Management

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Professional training for staff members includes a formal training program along with on-the-job training; however, there is no formal employee development program within the laboratory. All employees of the laboratory who work in the Criminalistics, Firearms, or Polygraph Sections are required to hold at least an earned relevant baccalaureate degree.

The supervisory function of the laboratory lies with the Director and four other professional staff members. The Director has overall formal supervisory responsibilities for the entire laboratory; however, the individual units and sections are under the immediate formal and informal direction of the supervisors of their respective areas.

Identifiable budget expenditures for 1978 indicated that approximately \$317,812.00 was allocated to the laboratory. This figure includes a minimum dollar amount of \$193,087.00 for salaries, or at least 61 percent of the identified budget for the year. Annual salary ranges for eleven laboratory staff members are:

Title	Minimum	Maximum
TTCTC	Annual	Annual
Commendate (Dimester)	CO. 044 00	\$
Commander (Director)	\$20,844.00	· ·
Chief Criminalist	18,512.00	22,386.00
Criminalist II	16,016.00	19,422.00
Criminalist I	12,038.00	17,654.00
Firearm Examiner	15,017.00	15,760.00
Polygraph Examiner	15,017.00	15,760.00
Technical Artist	15,017.00	15,760.00
E.T.U. Supervisor	18,569.00	19,159.00
Evidence Technician	15,017.00	15,760.00
Typist	7,689.00	9,177.00
Chief Property Clerk	10,583.00	12,760.00
Property Clerk	8,764.00	10,583.00
Office Clerk	7,331.00	8,764.00
File Clerk	6,973.00	8,406.00
Laboratory Helper		
Document Examiner	5,700.00	5,700.00
Minimum Total	\$193,087.00	

Other expenses include equipment, supplies, and maintenance. Between 1975 and 1978, the laboratory expended a total of \$1,216,176.00, of which \$56,905.00 was provided by MCCJ. (Refer to Appendix L-2 for Four-Year Funding History)

# in need of attention should be noted:

Finding 1:	г
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Recommendation 1:	A
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Finding 2:	T
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Recommendation 2:	T
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Finding 3:	T
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Recommendation 3:	R
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Operational procedures of the laboratory with regard to evidence receipt, handling, flow, analysis, and security are, for the most part, well written and followed by staff members. A written chain of custody record is utilized for all evidence movement. The evidence is always marked for identification, stored under proper seal, and protected from loss, transfer, and/or contamination.

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#### Findings and Recommendations for Section I, Organization

The overall fundamental assessment of the organizational and managerial components of the laboratory is favorable. In consideration of staff size and the volume and types of cases that go through the various laboratory sections, the laboratory seems to be quite sound administratively; however, some findings

> The laboratory does not possess a written set or list of objectives.

As per the ASCLAD Standards, the laboratory should develop a written set or list of laboratory objectives that will assimilate themselves into the laboratory's operations and which will be communicated and understood by all staff members. The indication of the Director is that crime laboracories are not standardized to:

-Improve the evidence analysis process -Decrease case backlog -Compile and exchange technical data between

laboratories to reduce analysis time

This finding relates to the MAPPS Standards and is addressed to all laboratories as a whole in Volume II. here is no indication in the records of analysis or report completion dates.

Records indicating analysis completion times and lates should be maintained in the future for the ourposes of turnaround time calculation and accountbility,

#### SECTION II

#### Operations

The 23 staff members have access to approximately \$179,227.00 worth of nonexpendable laboratory and office equipment.

Limitations to laboratory analysis capabilities were determined by the Director to be in the area of toxicology.

#### Findings and Recommendations for Section II, Operations

Finding 1:

According to the Director, the laboratory does not possess written technical procedures for each of its disciplines.

Recommendation 1:

As per the ASCLAD Standards, the laboratory should develop or obtain written technical procedures for each of its disciplines.

According to the Director, the laboratory does not have written procedures for the maintenance of equipment.

Recommendation 2:

Finding 3:

Finding 2:

As per the ASCLAD Standards, the laboratory should develop written procedures for equipment maintenance. The Director has not designed or implemented a reporting system to provide data relevant to the laboratory's involvement in:

-Reported crimes -Investigated crimes -Suspects identified/located -Suspects cleared -Suspects charged -Prosecutions -Acquittals -Convictions

Recommendation 3:

This finding pertains to an NAC Standard and is addressed to all laboratories as a whole in Volume II.

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#### SECTION III

#### Activities

Case - As defined by the Laboratory Director is all items or specimens submitted under a violation or a series of violations which happened at the same time involving the same people.

Evidence - As defined by the Laboratory Director is any material (solid, liquid, or gaseous) that tends to prove a point in question. Examination - As defined by the Laboratory Director is the physical work involved in determining the quantity or quality of a given item. This may include more than one test or analysis.

Turnaround Time - As defined by the Director is that time existing from the time that the evidence is received by the laboratory until the items are examined and report is written and typed.

A unique situation exists at the laboratory with respect to turnaround time in that logs, files, receipts, records, etc., contain no completion dates. Dates received were easily retrievable; however, there was no place where completion dates could be documented. The sole exception to this was found in some of the staff members' personal logs. The logs are all kept individually and are strictly up to the discretion of the individual staff members to keep. Not all staff members maintained personal logs and for those who did maintain logs, not all of them kept analysis completion dates. Due to the fact that these circumstances left the probability of determining any reasonably accurate estimates of turnaround time practically impossible, this section has been omitted.

It should be noted that an interesting aspect of this subject with the St. Louis Metropolitan Laboratory lies in the fact that 95 percent of all narcotics submitted to the laboratory are examined on a "while you wait" basis within 30 minutes time.

<u> </u>		
Year	Cases	% Increase or Decrease
1975 1976 1977 1978	15,713 16,139 15,413 16,564	+3% -5% +7%

A total of 63,829 cases were received over the four-year period for a yearly average of 15,957 cases. The above table shows respective yearly increases and decreases in cases received.

## Total Number of Cases Received Annually

#### Examinations Conducted Per Year

The figures indicated in the Cases Received Annually section above are the only figures available in terms of examinations conducted as they are indicative of the total number of cases or specimens submitted which are examined. Individual test or examinations records are not kept by the laboratory.

Number of Miles Traveled During Calendar Year

These records are not maintained by the laboratory.

#### Total Number of Court Appearances Annually

The average yearly number of court appearances for the laboratory staff for the four-year period was 455.

Caseload,

Type of Case Firearms Marihauna Other Drugs Comparison D.W.I. Bullets & Shells Blood Liquor & Beer Hard Narcotics Powder Residue & TMD Potent Drugs Latent Prints Documents Polygraph Miscellaneous Technical Arts Semen Blood Alcohol Microscopy (all other) Hallucinogenics Tool Mark & Restoration Instrumental (all other) Chemical Powder & Shot Pattern Clothing: Homicide & Rape Burglary Narcotics Paint: Microscopic Instrumental Glass: Microscopic Instrumental Hair & Fibers Microscopic Instrumental Soil: Microscopic Instrumental Chemical Arson: Chemical Instrumental TOTAL

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Activity	Statistics	for Brea	akdown	of
Caseload,	Examination	n Totals	, Case	Type
and I	'urnaround I	ime 197	5-1978	

 Total	% of एotal	Total Exami-	Avg. Turn-
 Cases	Cases	nations by Type	around Time in Days
12,027 9,987 6,198 3,772 3,619 3,451 2,758 2,389 2,356 1,889 1,882 1,708 860 834 792 791 785 684 535 459 198 176 19 2	18.8% 15.6 9.7 5.9 5.6 5.4 4.3 3.7 3.6 2.9 2.9 2.9 2.6 1.3 1.3 1.2 1.2 1.2 1.2 1.2 1.0 0.8 0.7 0.3 0.2 0.02 0.003	N o t r e c o r d e d	N o t a v a i l a b l e
2,303 1,025 15	3.6 1.6 0.02		
519 32	0.8 0.05	- 19 	
525 141	0.8 0.2		а ж
29 4	0.04 0.006		
 25 4	0.03 0.006	and and a second se	
2 893	0.003	۵.	
63,829	99,0*		

\$

*1% due to rounding error

Of the 63,829 cases or specimens received over the four-year period, 46,379 involved seven types of evidence and represented an average of 72.45 percent of the overall caseload for those years of operation.

#### Findings and Recommendations for Section III, Activities

The general assessment of activities record keeping procedures for the laboratory is average. As per the ASCLAD Standards and proper management techniques, some areas of concern and/or findings where attention should be directed for purposes of future accountability and possible funding allocations are:

Finding 1:

Recommendation 1:

Such activities records as total agencies serviced, total examinations, total miles traveled, and average turnaround time figures are not recorded and cannot be determined from laboratory records. As per the ASCLAD Standards and proper management practices, the laboratory should begin compilation of the above types of data or develop a method by which such information can be determined from the records. This information can be important in terms of future accountability and funding allocations.

#### SECTION IV

#### Laboratory Users Assessment of the St. Louis Metropolitan Police Department Criminalistics Laboratory

#### Police

Of the police respondents, one agency utilizes the laboratory on a primary basis while eight agencies utilize the laboratory on a secondary basis. The significant reasons given by police agencies for using the laboratory were:

#### -Geographic proximity -Comprehensive capability

The police agencies seldom encounter conflicts in scheduling expert testimony for criminalists and they indicated that the laboratory is sometimes responsive urgent or emergency analysis needs situations. Of the sheriff respondents, two agencies utilize the laboratory on a primary basis while no agencies indicated the laboratory as a secondary preference. The only reason given by the sheriffs' agencies for using the laboratory was:

The sheriffs' agencies seldom encounter conflicts in scheduling expert testimony for the criminalists and they indicated that the laboratory is usually responsive to urgent or emergency analysis needs situations.

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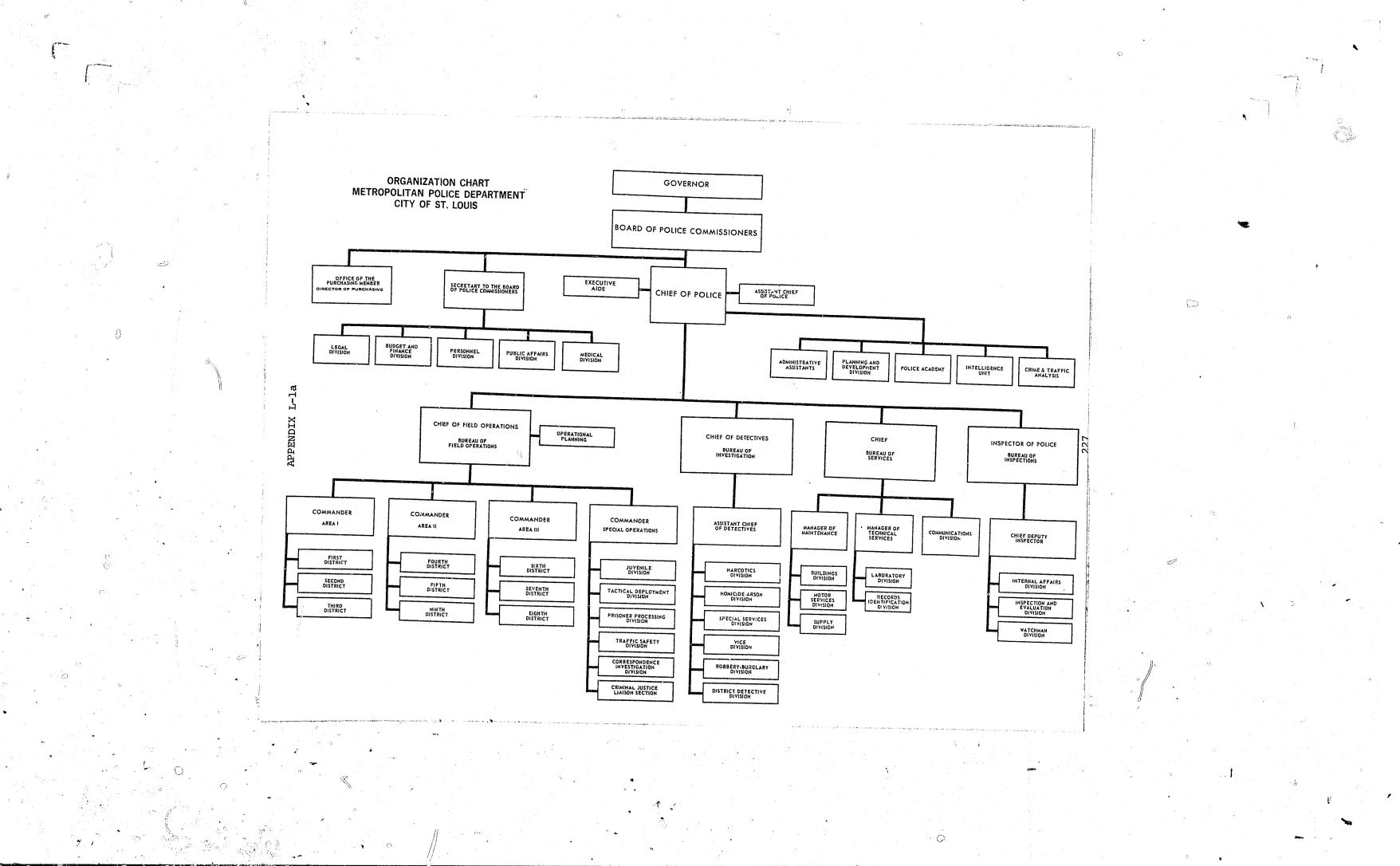
Of the prosecuting attorneys who responded, none indicated the laboratory as either a primary or secondary preference.

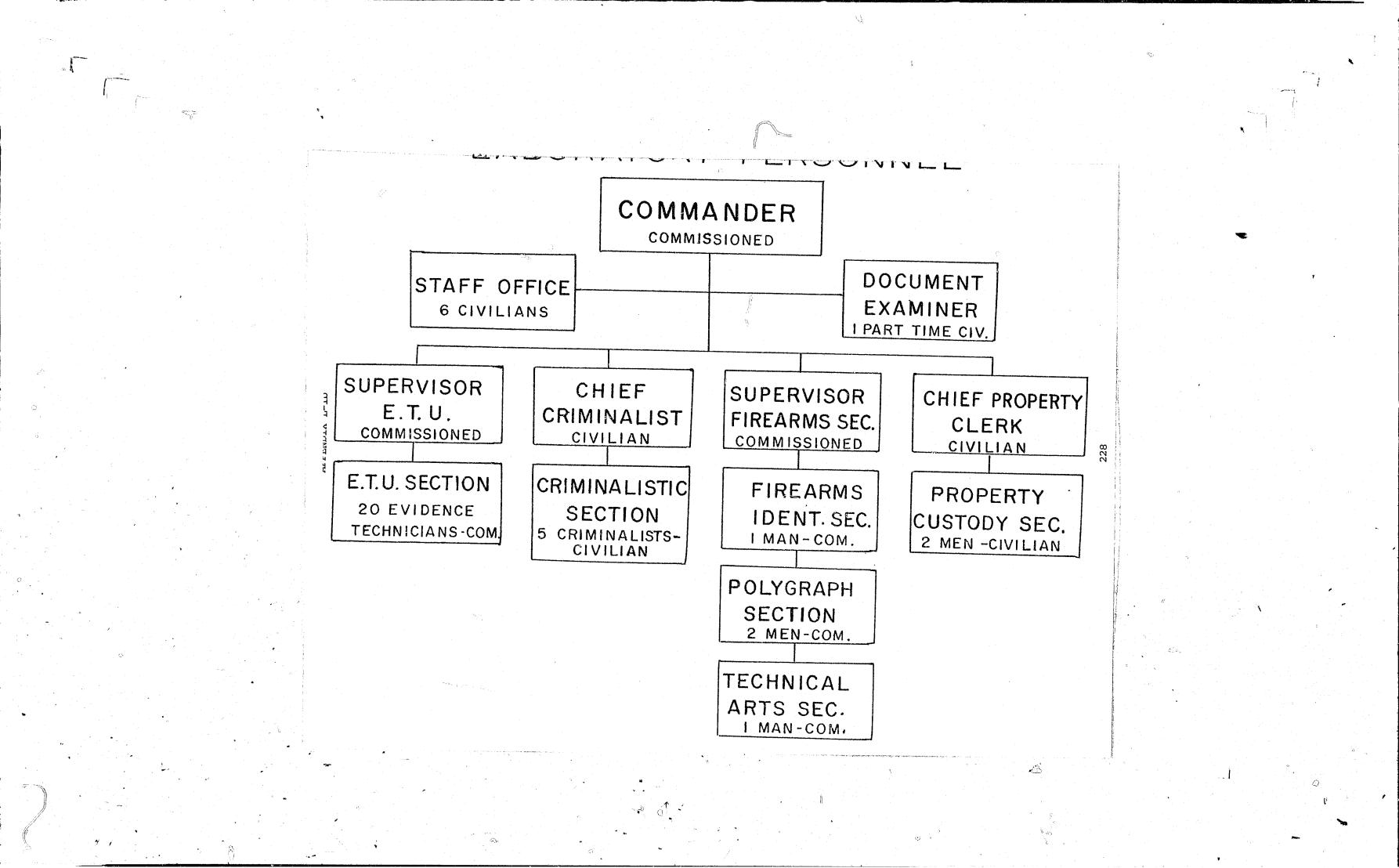
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#### Sheriffs

-Geographic proximity

#### Prosecuting Attorneys







MCCJ Grant Number	1975	2026	1	
75-ACD2-E022	F 15,691.00*	1975	1977	1978
76-ACD2-E046 77-ACD2-E014 78-ACD2-T014	L 2,674.00*	F 15,006.00* L 1,969.00*	F 15,902.00* L 3,028.00*	
TOTALS	10.265			F 10,306.00 L 10,307.00
	18,365.00	16,975.00	18,930.00	20,613.00

	1975	1976	1077	1
	242,849.00	353,870.00	1977	1978
GRAND TOTAL	261,214.00	370,845.00	247,375.00	297,199.00
			266,305.00	317,812.00
				1,216,176.00
				I

## APPENDIX L-2

## FEDERAL AND LOCAL FUNDING HISTORY FOR THE ST. LOUIS METROPOLITAN POLICE DEPARTMENT CRIMINALISTICS LABORATORY

*Approximate figures; grants shared with Region V, St. Louis County Laboratory.

ST. LOUIS CITY FUNDING

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#### VOLUME III

#### SUMMARY CONCLUSION

What has been presented within this volume is an individual overview of the developmental process; the administrative and managerial; and the operative and activities functions of each Missouri criminalistic laboratory. It is believed that in so doing the individual problem areas and some subsequent solution possibilities within and for each laboratory have been provided.

Volume II of this study has combined the materials used to compile this volume in an effort to funnel down the significant problem areas of Missouri's crime laboratories as a whole, and to offer some pertinent solutions to the totality of the crime laboratory structure as it concerns the entire state of Missouri and all of its user agencies.

