



Joint Legislative Audit Committee
Office of the Auditor General



REVIEW OF DATA PROCESSING USAGE IN THE EXECUTIVE BRANCH

A review of computer usage in the Executive Branch by Arthur Young and Company has revealed that while the Executive Branch spends over \$93 million on computer services annually there is little comprehensive statewide EDP planning, coordination and cooperation.

In addition, opportunities exist for consolidating some of the State's data processing functions, and a State and Consumer Services Agency Consolidated Data Center appears warranted.

REPORT TO THE
CALIFORNIA LEGISLATURE



California Legislature

Joint Legislative Audit Committee

GOVERNMENT CODE SECTION 10500 et al

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May 9, 1979

834

The Honorable Speaker of the Assembly
The Honorable President pro Tempore of the Senate
The Honorable Members of the Senate and the
Assembly of the Legislature of California

Members of the Legislature:

Your Joint Legislative Audit Committee respectively submits the audit report of Arthur Young and Company on the use of computers in the Executive Branch.

Arthur Young and Company identifies that there is little statewide comprehensive EDP planning, coordination and cooperation. In addition, they indicate that the State's data centers can be consolidated and thus recommend that a State and Consumer Services Consolidated Data Center be considered.

In light of the fact that California will pay over \$93 million in fiscal year 1978-79 for computer services in the Executive Branch alone, the recommendations contained in this report should receive close legislative scrutiny.

Respectively submitted,

RICHARD ROBINSON
Assemblyman, 72nd District
Chairman, Joint Legislative
Audit Committee

State of California

**California Legislature
Joint Legislative Audit Committee
Office of the Auditor General**

**Review of Data
Processing Usage
in the Executive
Branch**

April 30, 1979

ARTHUR YOUNG

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I. SUMMARY

I. SUMMARY

The Legislature intends for the State to effectively and economically use electronic data processing (EDP) on the basis of a planned, coordinated and cooperative effort among the agencies. Its mandate includes "sound policies, effective implementation practices and adequate management controls", and requires that a master plan be developed and continually updated. The master plan is to "provide for consolidation and optimum utilization of electronic data processing equipment."

This study, conducted in the fall and winter of 1978, examined for selected agencies in the Executive Branch of State government: (a) the extent to which EDP applications are used, (b) the cost of such applications, (c) the potential for eliminating unnecessary data processing effort, and (d) the potential for additional data processing consolidation.

Approximately 1200 applications are processed for 47 Executive Branch units at eight computer centers. These applications and those processed at a number of service bureaus are budgeted to cost the State \$93 million in Fiscal 1978/79. Of this amount, personnel costs approximate 48 percent, while computer processing and equipment related costs represent approximately 32%. Consequently, the thrust of our recommendations emphasize the efficient use of personnel and the cost savings that can result from this emphasis.

The study revealed that EDP planning is basically limited to the department level and is reflected in departmental annual Information System Plans (ISP) submitted to the Department of Finance. The statewide master plan has not been updated since May 1970. A statewide EDP planning and coordination effort is needed to minimize unnecessary effort and the excess personnel costs which result from duplicate application development. Therefore, our recommendations include:

- . Establishing a statewide data processing planning and coordinating organization
- . Maintaining the Inventory of Applications as a reference aid to preclude redundant development effort.

Teale Data Center is operating at its current capacity. Its level of service is continually deteriorating as the work load increases. Capacity limitations make it impractical to use the Teale Data Center to process applications currently being run on other State computers. Consequently, we recommend:

- . Transferring selected Teale Data Center processed applications to computers with available capacity
- . Developing a statewide master plan which could preclude any State computer center from curtailing service due to capacity limitations
- . Developing contingency plans which could be used to smooth the effects of unanticipated demand.

The Franchise Tax Board computer center currently is operating with available capacity. A transfer of applications from the Teale Data Center (TDC) to the Franchise Tax Board (FTB) would benefit both the remaining users at TDC and those transferred to FTB. Therefore, we recommend:

- . Transferring the State and Consumer Services Agency applications from TDC to FTB
- . Establishing the Franchise Tax Board Computer Center as the State and Consumer Services Agency Data Center.

The Board of Equalization is using older technology equipment which should meet their capacity needs through the early 1980's. Consolidation into existing computer centers at this time does not appear practical. Therefore, we recommend postponing consolidation of that facility to a later date.

The State uses considerable time-sharing computer resources to develop new applications and process various time-shared applications. The need for a time-sharing computer center is supported by both the TDC Feasibility Study report and the number of scientific and engineering applications found in this study. Scientific and engineering processing will cost approximately \$4 million in fiscal 1978/79. Consequently, we recommend:

- . Supplementing the TDC time-sharing feasibility study to include the scientific and engineering applications.

The applications reviewed by this study were grouped according to the generic type which most closely corresponds to the purpose and function of the application. Analysis of these groupings shows that there are multiple applications with similar purposes and while it may be possible to consolidate some of these applications, it is not practical to do so.

Applications with similar purposes are being developed by more than one agency and/or department. To more effectively utilize personnel, this redundant development activity should be prevented. We therefore recommend that those potentially redundant efforts identified by this study be considered for consolidated development projects.

Finally, we identified a total of forty applications estimated to cost \$301,000 that were described as being of little value. We recommend the agencies responsible for these applications should justify them or eliminate them.

II. INTRODUCTION

II. INTRODUCTION

In response to Resolution 834 of the Joint Legislative Audit Committee, Arthur Young & Company conducted a review of data processing applications in selected State agencies which use the Stephen P. Teale Consolidated Data Center (TDC) and seven other State computer centers. This review was conducted under contract to the Auditor General under the authority granted him by the Legislature and Government Code Section 10527.

Study Objectives and Scope

The general purpose of the review was to analyze the services provided to the Executive Branch of State government by the Teale Data Center and seven other State computer centers, and to determine the actual use of these services by organizational units within this branch of government.

The specific objectives of the review were to:

- . Determine the extent to which applications processed by the Teale Data Center go unused by State agencies
- . Determine the cost of producing such applications
- . Determine the potential for eliminating unnecessary data processing efforts
- . Determine the feasibility of using the Teale Data Center to process applications currently being run on other State agency computers or vice-versa
- . Determine the extent of computer operations in other State agencies including an identification of; (1) computer systems in existence, (2) the acquisition or rental cost of such equipment, (3) the personnel and associated costs to operate the systems, and (4) the costs of building space to house the systems.

The scope of the study was limited to units of State government within the Executive Branch. A list of included organizational units is provided in Exhibit I on the following page, together with the Department of Finance reporting code that we utilized in our work. The study specifically excluded a number of major EDP users in State government, such as the University of California, the State College and University System, other colleges and schools, and all criminal justice-related applications. Mini-computer applications within the Executive Branch also were excluded from our study.

The eight State computer centers included in our analysis are listed below:

- . Teale Data Center
- . Franchise Tax Board
- . Office of the Controller
- . Department of Motor Vehicles
- . Department of Water Resources
- . Board of Equalization
- . Public Utilities Commission
- . Health and Welfare Agency Data Center.

Methodology

Prior to this project, a list or inventory of data processing applications in the Executive Branch did not exist. To identify the applications, we first surveyed 47 organizations in the Executive Branch. This survey provided basic information on EDP applications which allowed us to then develop a second questionnaire to obtain detailed information relative to each application and the reports it produced. We coordinated the development of this questionnaire with representatives of the State Data Processing Management Office and included additional

STATE ORGANIZATIONS INCLUDED IN THE STUDY

<u>Organization</u>	<u>Reporting Code</u>
Air Resources Board.	006
Conservation	012
Controller	014
Corporations	018
Education.	020
Energy Resources Commission.	021
Finance.	022
Fire Marshall.	024
Forestry	027
General Services	028
Highway Patrol	030
Industrial Relations	032
Insurance.	034
Parks and Recreation	044
Personnel Board.	046
Planning and Research.	050
Postsecondary Education Commission	051
Public Employees Retirement System	052
Public Utilities Commission.	054
Real Estate.	056
Savings and Loan	060
Secretary of State	062
Teale Data Center.	064
Teachers Retirement System	066
Transportation	068
Treasurer.	070
Veterans Affairs	072
Water Resources.	074
Water Resources Control Board.	076
Alcohol and Drug Abuse	104
Employment Development	116
Health Planning and Development Office	122
Health Facilities Commission	125
Rehabilitation	130
Social Services.	132
Office of Emergency Services	136
Office of Traffic Safety	140
Department of Health Services.	141
Department of Mental Health.	142
Department of Developmental Services	143
Consumer Affairs	158
Equalization	164
Food and Agriculture	166
Franchise Tax.	168
Housing and Community Development.	172
Motor Vehicles	180
Student Aid Commission	184

information which would be helpful to that office. The questionnaire was tested within selected State agencies, revised according to the test results, and then distributed to the data processing management personnel in each organization listed in Exhibit I.

After issuance of the questionnaire we learned that a number of agencies did not have detailed report information and would have to expend considerable effort to develop it. Because elimination of reports would essentially result in paper savings and most probably would not allow for the elimination of computer systems, the expected benefit from this analysis did not appear to be as great as the cost of obtaining the data. Consequently, the request for detailed report information was withdrawn with the Auditor General's concurrence.

After receiving the questionnaire responses, we developed a stratified sample of responses and tested the accuracy of questionnaire information through on-site interviews and records reviews. The questionnaire responses then were key-entered onto magnetic tape and various computer listings were prepared and analyzed.

Thereafter, we assessed the capacity of the various computer centers to determine their ability to accept additional work. This enabled us to determine the practicality of transferring applications among computer centers in order to effect a consolidation.

Limitations On Information

The costs of data processing applications in the Executive Branch are shown in Exhibit II. These totals are based on the Inventory of Applications Report and represent the cumulative totals of the individual application estimates for Fiscal

FISCAL YEAR 1978/79 BUDGETED EDP COSTS (IN THOUSANDS)

	DATA CENTER	%	DEPT EQUIPMENT	%	DEPT PERSONNEL	%	DEPT OTHER	%	TOTAL COSTS	%
COMPUTER CENTERS	PRODUCTION	\$18,098	87%	\$1,813	76%	\$27,887	80%	\$12,524	\$60,322	83%
	NEW DEVELOPMENT	2,732	13%	564	24%	6,915	20%	1,972	12,183	17%
	OTHER	132	-	0	-	288	-	14	434	-
	TOTAL	\$20,962	-	\$2,377	-	\$35,090	-	\$14,510	\$72,939	-
	% OF TOTAL	29%	3%	48%	20%	100%				
CONTRACTS	Service Bureau								\$ 19,818	-
	Time-Share								98	-
	Total								\$ 19,916	-
	TOTAL								\$ 92,855	-

Year 1978-79. The detailed applications questionnaires were completed by data processing staff in the various agencies. Some of the agencies maintain detailed cost data by application; others do not. Therefore, in many cases the individual cost and personnel data are estimates with little actual supporting detail. In reviewing the 1,200 questionnaire responses, we found six major errors which caused us to reduce reported costs by approximately \$82 million. A number of agencies entered no cost or personnel data at all. Errors such as these and the lack of supporting data by many agencies makes it necessary for us to qualify the data as an estimate of total costs, rather than actual costs.

The cost figures for the operation of the eight computer centers are shown in Exhibit III. These costs, which are typically included in total costs, were determined using the August 1978 Information Systems Plan (ISP), detailed building space data, and acquisition cost data provided by each organization. The ISP's for most organizations contained some applications-related costs (e.g., for data entry and applications programming). Consequently, these costs were subtracted from the ISP amounts to achieve a more comparable cost of computer operations for each organization involved. Thus, the computer center costs are those which can be directly attributable to computer operations (including a pro-rated portion of management, administrative, and other overhead costs).

Because the cost figures are from two different sources, they are not directly comparable. Exhibit II represents the total costs for applications development, maintenance and processing, and the Service Bureau and Time Sharing Expenditures for Fiscal Year 1978-79. Exhibit III represents the costs of operating the eight computer centers.

ESTIMATED COMPUTER CENTER COSTS ^{1/}
(IN THOUSANDS OF DOLLARS)

COMPUTER CENTERS (COMPUTER EQUIPMENT)	ACQUISITION COST OF OWNED EQUIPMENT <u>2/</u>	EQUIPMENT <u>3/</u>				PERSONNEL <u>4/</u>	BUILDING SPACE <u>5/</u>	ASSOCIATED COSTS <u>6/</u>	TOTAL ESTIMATED COMPUTER CENTER COSTS
		PURCHASE COSTS	LEASE AND MAINTENANCE COSTS	TOTAL					
				PURCHASE COSTS	LEASE AND MAINTENANCE COSTS				
Board of Equalization (Univac Series 70/6 and 45)	\$ 361	0	\$ 1,113	\$ 1,113	\$ 1,041	\$ 35	\$ 209	\$ 2,398	
State Controller (IBM 1401 and 7074)	2,057	0	51	51	579	19	120	769	
Department of Motor Vehicles (Univac Series 70/6 and 55)	6,280	1,274	3,018	4,292	2,373	91	1,245	8,001	
Department of Water Resources (Control Data Corp. 3300)	1,227	0	445	445	407	43	308	1,203	
Franchise Tax Board (Amdahl 470/V5)	4,426	946	1,178	2,124	1,528	186	612	4,450	
Health and Welfare Data Center (IBM 370/165 and 158)	1,419	464	2,021	2,485	2,540	174	884	6,083	
Public Utilities Commission (Burroughs 1726)	15	6	84	90	180	3	139	412	
Teale Data Center (IBM 370/168)	12,094	3,076	4,406	7,482	3,902	214	1,708	13,306	
TOTAL	\$27,879	\$5,766	\$12,316	\$18,082	\$12,550	\$765	\$5,225	\$36,622	

- ^{1/} These are the estimated costs specifically related to the operation of the computer center at each organization. They do not include application related costs.
- ^{2/} Acquisition costs are based on historical records or the organization's best estimate (for some equipment more than ten years old) of the actual cost to the organization of acquiring its presently owned equipment. Lease payments where purchase options exist were not included unless the option has been exercised and the equipment is actually owned. Also, where equipment was acquired from another state agency, the cost to the present owner was used rather than the original purchase price.
- ^{3/} Equipment costs include those for peripheral devices, terminals, data communications, computer output microfilm equipment, EAM equipment, and other miscellaneous equipment as well as the costs for central processing units. Those costs related to data entry equipment, satellite processors, special purpose systems, and mini-computers were excluded.
- ^{4/} Computer center personnel costs include operations and software support personnel plus a pro rata share of the management, administrative, and customer liaison costs. Costs for data entry personnel and application programmers (plus a pro rata share of management, administrative, and customer liaison costs) were excluded from the computer center personnel costs.
- ^{5/} Building space costs were determined by multiplying the cost per square foot of floorspace by the estimated floorspace required to house the computer center equipment and personnel. They do not include data entry or other applications related building space costs.
- ^{6/} Associated costs include all costs other than equipment, personnel, and building space that are associated with the operation of the computer center. The following were included: costs for data communication line facilities, a pro rata share of the departmental overhead cost (based on data provided by each center or on the computer center personnel costs as a percentage of the total personnel costs), and the portions of the commercial contract, inter-agency agreement, facility, utility, supply, and miscellaneous costs that were not related to data entry or other applications processing.

Our work affected the operations of 47 units of State government. We appreciate the many courtesies extended to us and the excellent cooperation we received from individuals within these organizations. The work could not have been accomplished without their support.

III. BACKGROUND

III. BACKGROUND

The Legislature recognizes that " . . . electronic data processing in State government is necessary to insure the highest level of efficiency and economy" (Government Code, Section 11750). "Effective and economical use of this management tool requires comprehensive planning, coordination and cooperation among agencies and levels of government" (Government Code, Section 11700). The Government Code also requires a " . . . master plan for the use of electronic data processing within state government . . . that this plan be continually updated, (and) that the master plan provide for consolidation and optimum utilization of electronic data processing equipment, (and) maximum practical integration of electronic data processing systems" (Section 11700, et seq.).

The Government Code mandates a State Electronic Data Processing Policy Committee whose functions and responsibilities are to "Review and accept or reject recommendations formulated and proposed by the Office of Management Services, including policies, procedures, standards and a master plan for optimum utilization of electronic data processing systems for State government." (Section 11721).

The need for comprehensive planning is also recognized by the Department of Finance (DOF). In its January 1979 report to the Joint Legislative Budget Committee on the significant issues which appear to be limiting the State's effective use of electronic data processing technology, DOF concluded that "A State EDP master plan is needed which provides departmental guidance based upon the current environment, departmental needs, and overall state EDP objectives."

Finally, the Governor supports the effective use of electronic data processing. In his recent Inaugural Address of January 8, 1979 he stated "we are in the midst of an information revolution that draws its center from the computer and communication industries of California . . . the challenge will be to use the new tools to . . . make government leaner as it becomes more effective."

IV. DATA PROCESSING IN THE EXECUTIVE BRANCH
OF STATE GOVERNMENT

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We reviewed data processing in the Executive Branch by identifying applications in the selected State agencies which use the Teale Data Center and the seven other State computer centers previously described. We collected detailed data processing and budgetary information relative to each application by requesting each user to respond to a Detailed Application Questionnaire. The information collected from each Detailed Application Questionnaire (Appendix A) was used to develop our conclusions regarding the potential for consolidating data processing applications in the State. Appendix A provides instructions on how to complete the questionnaire and interpret the coded information.

The Inventory of Applications Report is a 1200 page document providing the technical and budgetary information in agency order for each application. The applications include production systems, as well as systems in the development process. The Inventory of Applications Report is available through the Auditor General's Office. The Agency and Application Report (Appendix B) lists each organizational unit and its applications in alphabetic order. The Generic Type Report (Appendix C) groups the agency applications by the generic type assigned by each user. This provides a means of locating applications with similar objectives as defined by the generic type.

We conducted a test of selected responses to the Detailed Application Questionnaires and found that the agencies made a conscientious and reasonable effort in completing the questionnaires. However, the accuracy of the information varied from agency to agency depending upon the quantity and quality of the information the agencies maintain.

Applications Priority

According to the agencies, a substantial majority of existing and soon to be developed EDP applications are valuable to meeting agency objectives. This statement is based upon questionnaire responses concerning the funding priority for each application. Exhibit IV on the following page shows the actual distribution of the funding priorities. The first four funding priorities, ranging from "required by law" to "contributes to agency operations," were established by the responding agencies for 96 percent of the applications reviewed.

Executive Branch EDP Costs

For the agencies included in this study, the total cost of data processing service approximates \$93 million, as shown previously in Exhibit II. The agencies are expending a substantial portion of their data processing budget at the eight computer centers on the development of new applications, i.e., 17 percent of the total costs and 20 percent of the personnel costs. This indicates a considerable and continuing expansion of data processing.

The distribution of costs among the various categories substantiates a trend in data processing costs. Personnel costs represent 48 percent of the total costs while computer processing and equipment-related costs represent approximately 32 percent. Exhibit V, graphically portrays this distribution for the Executive Branch, and compares it with national averages.

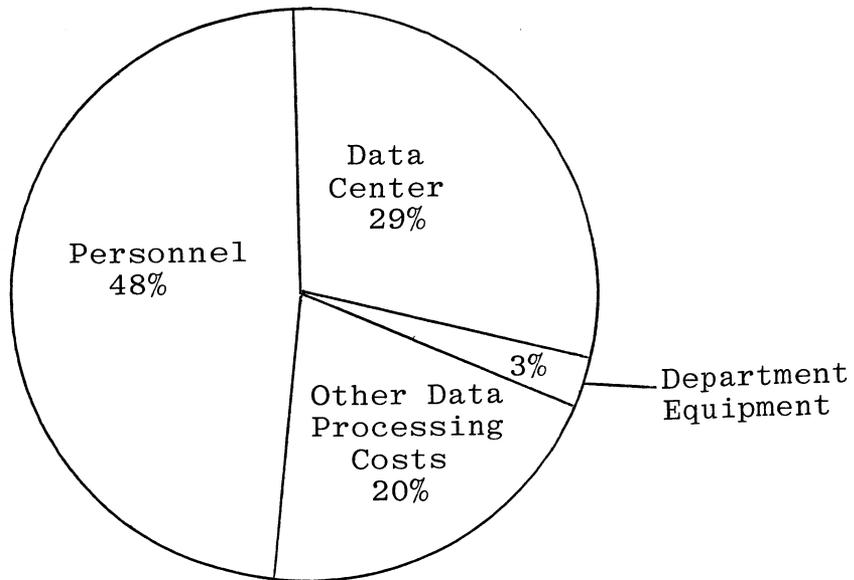
The national averages were developed in a study conducted by International Data Corporation, a leading data processing research organization, which projected 1979 data processing expenditures to be apportioned at 51 percent personnel and 38 percent equipment-related.

DISTRIBUTION OF FUNDING PRIORITIES FOR EDP APPLICATIONS

<u>Funding Priority</u>	<u>Description</u>	<u>Percent of Total</u>
1.	Required by Federal or State Law.	28%
2.	Invaluable to the Agency. Could Not Do Without.	20%
3.	High Priority. Would be Difficult To Do Without.	25%
4.	Routine Priority. Application Contributes to Agency Operations.	23%
5.	The Application is Nice to Have But Could Be Done Without.	3%
6.	Of Little or No Value. Application Could Easily Be Done Without.	0%
	Invalid Responses	<u>1%</u>
		100%

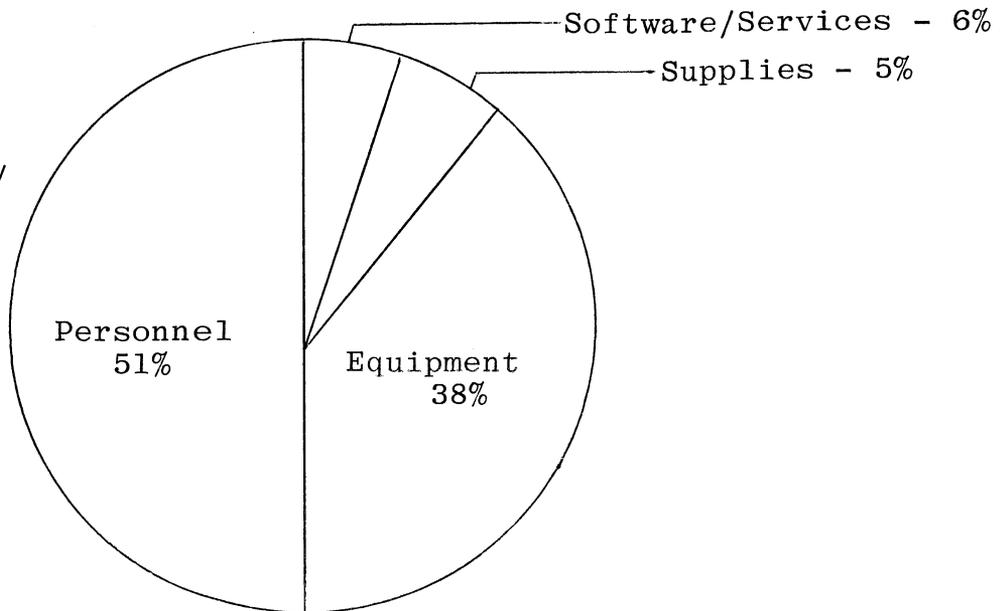
DISTRIBUTION OF DATA PROCESSING COSTS

State Executive 1/
Branch



1/ Source: Detailed Application
Questionnaire Corrected Cumulative Totals

Projected 1979 2/
National Average



2/ Source:
International Data Corporation

A substantial amount of State funds is spent on service bureau and time-sharing services. Exhibit VI on the following page shows the FY 78/79 budgeted computer service bureau and time-sharing charges by organization.

Transferability of Applications

The use of higher level programming languages such as COBOL places the State in the position of having a high degree of transferability among data centers. Exhibit VII, following Exhibit VI, shows that most applications are written in COBOL or other higher level languages such as Mark IV, FORTRAN IV, and PL1. The use of these languages enhances the portability of applications among Executive Branch computer centers.

BUDGETED SERVICE BUREAU AND TIME-SHARING EXPENDITURES

<u>Executive Branch Agency/ Department</u>	<u>Expenditure</u>	<u>Service Center</u>	<u>Type of Service</u>
Education	100,000	Stanford	SB
Secretary of State	360	California Computer Service	SB
Finance	10,000	ADP Network	SB
General Services	2,500	Benetech	SB
	2,400	Research Inc.	SB
Conservation	1,000	U.C. Berkeley	SB
	10,000	U.C. Berkeley	TS
California Energy Comm.	40,000	Control Data Corp.	SB
Housing & Community Development	15,000	U.C. Davis	SB
	10,000	Service Bureau Corp.	SB
Forestry	1,425	San Juan Unified S.D.	SB
	6,480	U.S. Dept. of Agriculture	TS
P.U.C.	90,000	CDC Cybernet Service	SB
California Student Aid Commission	7,800	John Waddell & Co	SB
Savings and Loan	8,000	National CSS, Inc.	
	7,500	Remote Computing Corp.	SB
	11,000	SREA Market Data Center, Inc.	TS
Cal Trans	34,000	Lawrence Berkeley Lab	SB
	35,000	Tymshare, Inc.	TS
Development Disability	4,923	U.C. Berkeley	SB
	13,150	Lawrence Berkeley Lab	SB
	2,000	U.C. Berkeley	TS
	8,767	Lawrence Berkeley Lab	TS
Water Resources	20,000	Cybernet	SB
Board of Medical Quality Assurance	75,000	Optimum Data	SB
Food and Agriculture	32,516	U.C. Davis	SB
	975	John Waddell & Co	SB
Employment Development Department	25,000	Stanford Center	SB
	25,000	Lawrence Berkeley Lab	TS
Health Services	<u>26,300</u>	U.C. Berkeley	SB
	<u>\$626,096</u>		
Employment Development Department - L.A./ Orange Job Bank	\$ 2,000,000	SDC Develop. Corp.	SB
Employment Development Department - San Diego Job Bank	90,000	San Diego Univ. Foundation	SB
Health Services - Medi- cal Claims Payment	<u>17,200,000</u>	Medical Intermediary Oper.	SB
	<u>\$19,290,000</u>		
Total Service Bureau Expenditures	\$19,817,822		
Total Time Share Expenditures	<u>98,274</u>		
Total SB and TS Expenditures	<u>\$19,916,096</u>		

PROGRAM SOURCE LANGUAGE DISTRIBUTION

<u>Source Language</u>	<u>Number of Applications</u>	<u>%</u>
COBOL - American National Standard (ANS)	775	65%
Mark IV	78	7%
FORTRAN IV	47	4%
PL1	42	4%
COBOL - Other COBOL Compilers	41	3%
ASSEMBLER - UNIVAC/RCA Spectra	31	3%
RPG	30	3%
FORTRAN (CDC)	29	2%
ASSEMBLER - IBM 370/360 & Amdahl	26	2%
SYNTAX II	18	1%
FORTRAN H	15	1%
Proprietary - Not Available to User	9	1%
SYNTAX I	8	1%
RPG II	3	0%
BASIC	2	0%
TPL	1	0%
FORTRAN (Burroughs) - ANS 1966	1	0%
AUTOCODER - IBM 7074	1	0%
INCOMPLETE DATA	<u>34</u>	<u>3%</u>
	1,191	100%

V. STUDY RESULTS

V. STUDY RESULTS

A. THERE IS LITTLE STATEWIDE COMPREHENSIVE EDP PLANNING, COORDINATION AND COOPERATION

Current Status

Data processing planning among the organizations studied essentially is limited to annual departmental Information System Plans (ISP). These organizational plans are submitted to the Department of Finance and are required annually as part of the budgeting process. There is no current comprehensive statewide long range master plan as mandated by the Legislature in Government Code Section 11700 et seq. The most recent statewide Long-Range Master Plan for Electronic Data Processing was published in May 1970. While it was valuable in its own time, it has been outdated by changes in State government and EDP technology.

State government has changed such that existing legislation concerning data processing is no longer being complied with. The Office of Management Services has been disbanded. The State Electronic Data Processing Policy Committee is no longer functional and the agency designations for the four data centers do not correspond to the State's current organization. The State Data Processing Management Office has assumed some of the roles of the Office of Management Services. However, the Legislature has not assigned it the responsibility to prepare and continually update a statewide Master Plan for EDP.

Conclusion

A statewide EDP planning and coordination effort is needed. The coordination needed to minimize redundant effort and duplicate applications development can be achieved through a

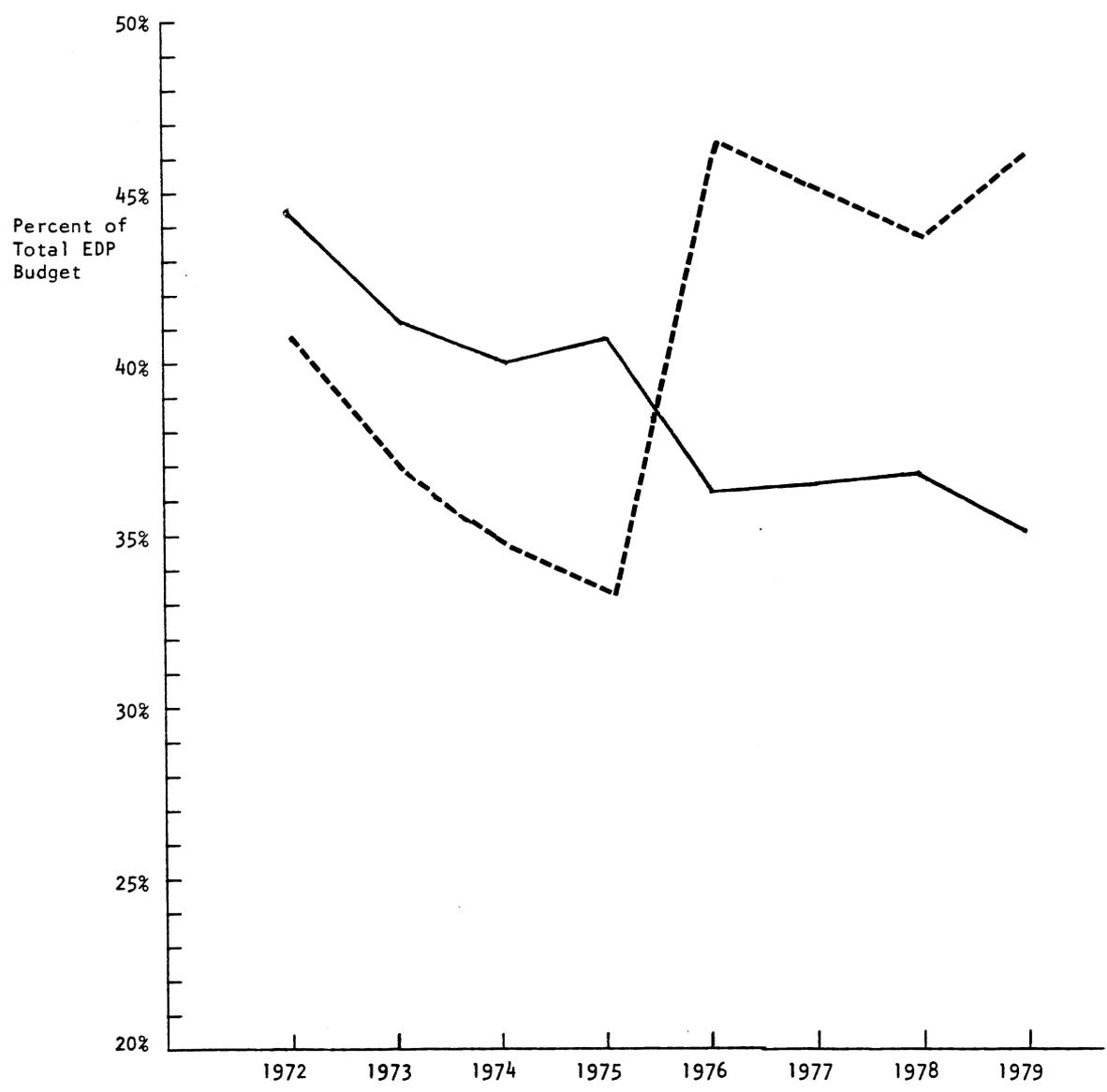
thorough and continuous planning activity. Because personnel-related costs represent the largest proportion of EDP costs, coordination is vital to achieving the most cost effective use of data processing. Exhibit VIII on the following page illustrates the relationship between computer equipment costs and personnel costs. Exhibit IX, following Exhibit VIII, portrays the cost reduction history of selected common IBM computers.

Recommendation: Establish a Statewide Data Processing Planning and Coordinating Organization

In order to maximize utilization of personnel and computer resources the Legislature should establish a statewide data processing planning and coordinating organization. The scope of this study did not include all of the data processing users within the State nor a review of all the relevant issues for such an organization. Therefore, we do not have sufficient information to recommend the specific form of such an organization. However, we do envision an organization consisting of agency-level personnel who would, through this group, coordinate data processing applications in their respective agencies. An executive of sufficient standing in government should head this organization which would meet regularly and function as a steering committee, setting objectives for the effective use of data processing in the State. One of the first objectives should be to establish guidelines and procedures to minimize redundant application development. We believe the Inventory of Applications Report could be used as a means of identifying applications similar to those being considered for development.

The planning and coordinating organization should develop a comprehensive master plan for data processing and update it annually.

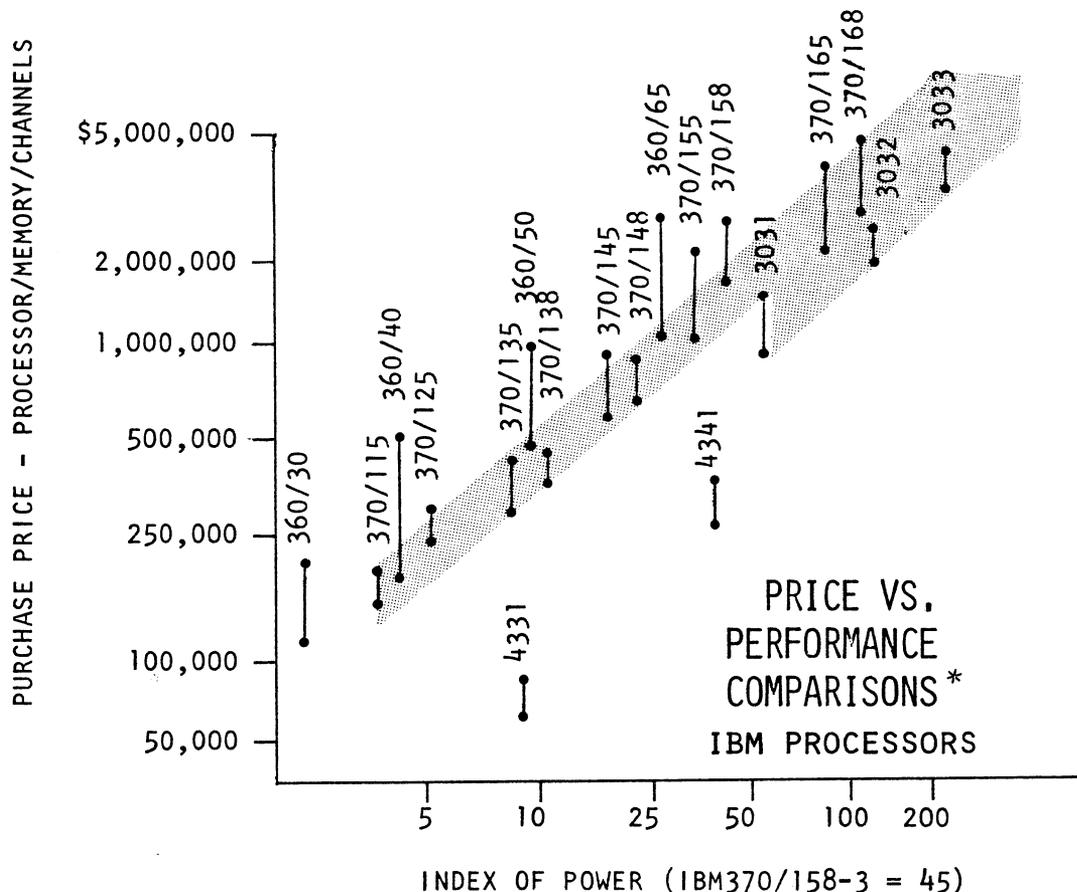
USER SPENDING
COMPUTER EQUIPMENT COMPARED TO PERSONNEL
1972 - 1979



Key
 Personnel Costs - - - - -
 Computer Equipment Costs _____

SOURCE: International Data Corp.

COST HISTORY
SELECTED IBM COMPUTERS



Actual Cost Reduction History

AUXILIARY DISK STORAGE			COMPUTER MEMORY		
Model	Year Announced	Characters Per \$1	Model	Year Announced	Price Per Million Characters
2311	1964	300	360/30	1964	\$2,000,000
2314	1965	1,300	360/65	1965	1,500,000
3330-SD	1970	3,800	Sys/3-10	1969	1,000,000
3340	1973	5,000	370/155	1970	600,000
3330-DD	1973	5,300	370/135	1971	640,000
3344	1975	11,300	370/155	1973	300,000
3350	1975	12,800	5100	9/75	180,000
3370	1979	24,400	MOS	5/76	170,000
			Series/1	11/76	120,000
			MOS (cut)	3/77	110,000
			S/1	4/77	74,000
			8140	10/78	50,000
			8130 (64K)	10/78	18,000
			MOS (cut)	12/78	75,000
			Sys/38 (64K)	10/78	20,000
			4300 (64K)	1/79	15,000

FIGURE 1.

SOURCE: International Data Corp.

* Note the difference in price and power over the last fifteen years as demonstrated by the IBM 360/30 and 4331 computer. The 360/30 in 1964 cost approximately \$200,000 with a power index near 2, while the 4331 in 1979 cost approximately \$75,000 and has a power index of approximately 9.

Recommendation: Maintain the Inventory of Applications

In order to ensure that the Inventory of Applications Report resulting from this study is maintained, the Department of Finance should update it through the Information Systems Plan and budgeting processes. As part of its first update, a short narrative of each application should be added to the inventory file.

B. CAPACITY LIMITATIONS MAKE IT IMPRACTICAL TO USE THE TEALE DATA CENTER TO PROCESS APPLICATIONS CURRENTLY PROCESSED ON OTHER COMPUTERS

Current Status

A prime objective of the Teale Data Center (TDC) is to economically maintain the level of data processing service required by its users. Sufficient system capacity is necessary if this objective is to be met. Unfortunately, TDC is currently in a situation where its system capacity has been reached. If there is an increase in workload, certain critical user-defined service objectives would not be met. This assessment is evidenced by the current status of three measures of level of service.

(1) Batch Job Turnaround

Batch jobs consist of applications which are "batched" for processing because their effectiveness does not require an immediate response. Typically, such applications depend on "turnaround" within an hour or two of submittal. When turnaround time becomes excessive, personnel productivity decreases.

Exhibit X on the following page is a history of batch turnaround at TDC from January 1976 through January 1979. Although several hardware and software improvements have been made, the gradual deterioration in service continues. This results in a greater expense to the State because of the ineffective use of its most costly data processing resource--people.

(2) Customer Information Control System (CICS) Response Time

CICS is a telecommunications system supplied by IBM which provides the user with a means to perform on-line, transaction-oriented processing. The important feature of an on-line system is the ability to enter and retrieve data instantaneously. The time that it takes to receive a response from the system once it has been entered is called the response time.

The State Controller's Office tracked the response time in its Personnel Information Management System (PIMS) which is run at Teale. There is a 5-7 day cut-off each month that is critical to updating Employment History data. In order to make full utilization of the personnel entering the data a 15-second or less response time is required. During the months of September 1978 and January 1979, the Controller's response times for cut-off were as follows:

SERVICE LEVEL HISTORY FOR BATCH PROCESSINGAT THE TEALE DATA CENTER

<u>Year</u>	<u>Day Shift Jobs Processed</u>	<u>Turnaround Hours</u>
Jan 1976	39,801	1.98
Feb	35,303	2.15
Mar	46,251	1.67
Apr	35,570	2.02
May	32,166	2.30
Jun	34,741	2.58
Jul	33,577	2.55
Aug	35,576	2.13
Sep	33,955	2.47
Oct	34,274	2.45 ← Memory added
Nov	35,552	1.83
Dec	40,182	1.76
Jan 1977	43,500	2.77
Feb	39,546	3.15 ← Mod III's
Mar	47,115	2.09 Added
Apr	42,709	2.17
May	44,041	2.39
Jun	48,730	3.03
July	40,213	3.44
Aug	49,454	2.95
Sep	41,798	4.38 ← MVS Conver.
Oct	Figures were not collected for	
Nov	these months	
Dec	49,276	10.38
Jan 1978	52,403	8.53
Feb	45,833	8.37 ← AP on SY1
Mar	64,429	5.01 Added
Apr	56,231	4.92
May	58,702	4.63
Jun	58,224	4.71
Jul	50,298	5.55
Aug	61,905	4.72
Sep	54,805	5.14
Oct	59,272	5.31
Nov	53,749	5.64 ← MVS System
Dec	52,077	4.98 Extension
Jan 1979	62,168	5.04

Table 1

<u>Date</u>	<u>Number of Transactions</u>	<u>Response Time in Seconds</u>
9/18	29,705	10.66
9/19	33,930	10.69
9/20	34,577	14.72
9/21	34,716	16.12 ^{*/}
9/22	34,756	9.09 -
1/15	23,551	21.50
1/16	24,653	23.54
1/17	27,372	19.85
1/18	27,112	24.99
1/19	28,560	11.47

*/ Service to batch jobs was curtailed this date to ensure response time for PIMS.

When the response time becomes excessive, time is wasted waiting for the response and the even pace of work is interrupted. Again, this increases the cost for personnel by decreasing productivity.

TDC is currently taking steps to improve this response time; however, the continued workload growth makes this effort a continuing process.

(3) Time-Sharing Option (TSO) Response Time

TSO is an option IBM supplies that is a productivity aid for computer programmers. It allows them to develop and submit computer programs quickly by using an on-line terminal. Excessively long TSO response time has a direct bearing on programmer productivity. As the response time increases, the programmer's productivity decreases.

The response time for TSO has gradually deteriorated as shown by the following table of day shift TSO processing.

Table 2

<u>Month</u>	<u>Number of Sessions</u>	<u>Terminal Connect Hours</u>	<u>Average Response Time (Seconds)</u>
May	16,602	5,861	3.94
June	16,318	6,018	4.07
July	14,741	5,424	4.56
August	18,378	6,576	4.12
September	16,934	5,606	4.20
October	19,263	6,218	4.21
November	17,231	5,727	5.41
December	17,225	5,986	5.29
January	22,161	7,891	5.29

The workload growth at TDC is continuing. The following projected growths are based on the 1978-79 Fiscal Year, user forecasts and actual usage for the first quarter of 1978. It is estimated that usage will increase by the following proportions:

<u>Type of Process</u>	<u>Annual Increase</u>
Batch	14%
CICS	30%
TSO	36%

Result of Reaching Current System Capacity at Teale

The State Data Processing Management Office published a memo to all TDC Users in February 1979 severely limiting new or additional services. This occurred because dayshift usage had reached capacity and existing processing that could be run at night or on weekends had already been transferred. Major service improvements will not occur until an additional computer is installed in October 1979.

Conclusion

TDC has reached its current capacity. User service objectives cannot continue to be met and the level of service is continually deteriorating as the workload increases. Therefore, it is not practical to use TDC to process applications currently being run on other State computers. Furthermore, it has been estimated that the current limitation for new applications development will cause usage to sharply escalate when the new development ban is withdrawn. Such occurrences are likely when demand is curtailed by artificial means.

Recommendation: To Preclude Further Curtailment of Data Processing Capability, the State Should Transfer Applications to Computers with Available Capacity

To ensure continued availability of computer resources the State should:

- . Develop a statewide master plan which could preclude any State computer center from curtailing operations due to capacity limitation
- . Provide contingency plans which could be used to smooth the effects of unanticipated demand.

C. CONSOLIDATION CAN BE ACCOMPLISHED AT OTHER COMPUTER CENTERS

Current Status

In addition to the Teale Data Center, seven other computer centers were included in our study. Findings and recommendations concerning the potential for future consolidations at the

Franchise Tax Board are discussed subsequently under this heading. The Board of Equalization, and the Department of Water Resources computer centers are addressed in subsections E and F, respectively. Additional consolidation, not already planned, does not appear warranted for the other computer operations, i.e., the Health and Welfare Agency Data Center, and the computers used at the Office of the Controller, Department of Motor Vehicles and the Public Utilities Commission. An overview of the current status of these other four organizations is provided below.

- . The Health and Welfare Data Center is in the process of consolidating all of that agency's applications within this one center. Consequently, consolidation is well underway at that agency.
- . The Payroll application processed at the Office of the Controller is scheduled for consolidation into the Teale Data Center.
- . The Department of Motor Vehicles (DMV) has sufficient data processing activity to warrant a departmental computer center. Furthermore, DMV is in the process of consolidating its computer communications activity with certain Department of Justice applications.
- . The Public Utilities Commission (PUC) computer is a relatively small machine. Conversion of applications processed on that computer to one of the State data centers would require personnel costs and a remote satellite processor at PUC, which, in all probability, would not be unlike the small computer already functioning. Therefore, consolidation does not seem warranted.

With regard to the Franchise Tax Board (FTB), it is organizationally within the State and Consumer Services Agency and operates an Amdahl 470/V5 equipped computer center. This center requires approximately 126 measurable CPU hours per month to process its work. Its current workload is approximately fifty percent of processor capacity (based on the current 3-shift per day, 5-day per week schedule). The computer in use at the

Franchise Tax Board is compatible with Teale's IBM computers and is rated as having slightly greater performance capabilities than the IBM 370/168 computer used by Teale.

The FTB computer center also serves non-FTB users on a contract basis. In fact, it provides more than half of the data processing for the Department of Consumer Affairs. However, virtually all of the other data processing for the State and Consumer Services Agency is performed by the Teale Data Center.

Conclusion

A high degree of compatibility exists between the computer used at the Teale Data Center and the Franchise Tax Board. Because TDC is at capacity and the Franchise Tax Board has unused computer capacity a transfer of applications from TDC to the Franchise Tax Board computer would benefit the remaining users of TDC as well as the users transferred to the FTB. The transfer also would utilize available computer capacity more effectively.

Recommendation: Transfer State and Consumer Services Agency Applications from TDC to FTB

The State and Consumer Services Agency (SCSA) accounts for approximately 10 percent of the applications processed at TDC. Because the Franchise Tax Board is placed organizationally within the SCSA, the agency's applications processed at TDC are the most logical candidate for transfer and should be transferred to the FTB computer center.

Our preliminary analysis shows that the project is feasible and may benefit the State. We estimate that the program conversion effort would cost approximately \$150,000. Additional equipment and software will be required.

We do not believe that this equipment and software will cause the total cost of transfer to exceed a one-time cost of \$500,000. However, the effect on processing turnaround and response time to Teale users and those transferred should be significant. If this improvement in response time and turnaround causes as little as a one percent personnel productivity increase, that increase alone would be worth \$200,000 annually to the State.

D. A STATE AND CONSUMER SERVICES AGENCY CONSOLIDATED DATA CENTER APPEARS WARRANTED

We previously reported that the Franchise Tax Board and the Teale Data Center computers have a high degree of compatibility. In order to equalize processing load and more fully utilize available computer capacity, we recommended that the SCSA applications be transferred to the Franchise Tax Board computer. We also reported previously that there is insufficient planning and coordination of EDP activity within the State.

Recommendation: The Franchise Tax Board Computer Center Should Become the State and Consumer Services Agency Data Center

Establishing a data center at the agency level should provide additional benefit to the departments within the agency. The Agency Secretary would have control and accountability for the data processing resources necessary to support the programs under his/her control. Agency control would facilitate data processing planning and coordination which, in turn, should improve personnel productivity by reducing redundant effort and duplicate applications development activity.

E. FUTURE CONSOLIDATION OF THE BOARD OF EQUALIZATION COMPUTER CENTER INTO ANOTHER CENTER APPEARS FEASIBLE

Current Status

The Univac Series 70 computer equipment operated by the Board of Equalization (BOE) was originally designed by RCA Corporation to be application program compatible with IBM computers. BOE does not maintain a computer utilization and billing system. Based on the utilization figures available, it appears that the BOE computers are operating at approximately 50 percent capacity. However, BOE projects its computer use will be at capacity in the early 1980's.

Conclusion

Because the Board of Equalization uses older technology, but compatible computers, and has sufficient capacity to accommodate its needs through the early 1980's, it could be considered for consolidation at a later date. Consolidation at this time seems unwarranted because Teale, the Franchise Tax Board, and the Health and Welfare Agency Data Centers are either at capacity or will be in process of a planned consolidation activity. Consequently, in our judgement consolidation of the Board of Equalization computer center into one of the previously mentioned centers should be postponed.

Recommendation: In the Early 1980's Consider the Board of Equalization for Consolidation into One of the Other Data Centers

At a later date, as the Board of Equalization computer center nears its capacity, and as technological advances renders its computers obsolete, it should be considered for consolidation into one of the other data centers.

F. A TIME-SHARING COMPUTER CENTER IS NEEDED

Current Status

The Teale Data Center conducted a feasibility study to determine if a statewide time-sharing computer system is needed. That study revealed that the State uses considerable time-sharing computer resources to develop new applications and to process various other time-shared applications. We determined during this study that 18 of the 47 agencies use time-sharing/service bureau computer centers. Excluding Medi-Cal processing and two southern California Job Bank applications, the State incurs annual costs of \$626,096 for these services.

The Teale study also states that the State's TENET time-sharing system is overloaded and can not be readily expanded or backed up because it is a one-of-a-kind system and lacks vendor support due to the bankruptcy of the TENET Company.

The application inventory compiled during this study shows a significant amount of non-time-shared scientific and engineering applications are processed by the computer centers studied. This processing, according to 1978/79 processing estimates, will cost the State approximately \$4 million this year. The Department of Water Resources and the Department of Transportation are the largest processors of scientific and engineering applications in the Executive Branch. Frequently such applications can be processed more efficiently and with more accuracy on the high-precision computation architecture computers typically used by many commercial time-sharing services. However, this information was not available to Teale and, thus, the scientific and engineering applications were not included in its study.

The Department of Water Resources (DWR) operates an older generation Control Data 3300 computer system for its own use and

for the use of others in the Resource Agency. Because of obsolescence and an estimated capacity shortage, DWR is conducting a feasibility study to obtain a new computer.

Conclusion

The feasibility study conducted by Teale and our own analysis discloses a need for a statewide time-sharing computer service. Teale's feasibility study, as approved by the Department of Finance, provides for a time-sharing service based upon two computer architectures. One architecture is to be IBM-compatible and the other is to be high-precision, computational in nature, typical of many commercial time-sharing services. Because many scientific and engineering applications often can be more efficiently processed on computers with a high precision computational architecture, those applications should be included in the study.

The fact that the Department of Water Resources is seeking additional computer capability and it is one of the largest processors of scientific and engineering applications, it appears warranted to include DWR's requirements in the State's time-sharing computer requirements.

Recommendation: Supplement the TDC Time-Sharing Feasibility Study to Include the Scientific and Engineering Applications

The Department of Finance should supplement the previous time-sharing study to include considerations of processing scientific and engineering applications at the time-sharing center. The supplemental study should specifically include the computer requirements of the Department of Water Resources. The DWR computer facility may be an appropriate center at which to establish a statewide time-sharing computer center.

G. THERE IS A POTENTIAL TO DEVELOP CONSOLIDATED APPLICATIONS

Current Status

The applications subject to this study were grouped according to the generic type which most closely corresponds to the purpose and function of the application. Appendix C lists applications by generic type and department. Analysis of this list shows that there have been multiple applications developed which have similar or closely related purposes. Additionally, a number of the applications included in Appendix C are currently under development. Some of these are of the same generic type and may be closely related, functionally. For example, the Personnel Information Management System (PIMS), which is under development, is to be a common inter-agency personnel system. However, in excess of \$1 million is budgeted in 1978/79 for new applications development by various departments for personnel-related applications.

Conclusion

It is possible to consolidate existing implemented applications. However, to do so would require further study to determine the specific differences and requirements of each department in order to include these capabilities into a common system. Such a study and the ensuing program modification activity would use personnel resources to re-implement, on a consolidated basis, applications which are currently operational. In our judgement, this does not appear to be cost-effective as only minimal savings for application maintenance would accrue.

However, applications which are under development and are of a similar purpose may be consolidated. Development of consolidated applications could result in significant personnel cost savings. Personnel costs related to new applications

development for 1978/79 are estimated to be approximately \$7 million. A small increase in productivity or corresponding reduction in personnel could yield substantial savings to the State.

Recommendation: Evaluate Applications Under Development for Potential Consolidation

An EDP planning and coordinating function should be established to facilitate inter-departmental development of common applications. Our recommendation earlier in this report regarding planning and coordination covers this point. In the interim, the State Data Processing Officer should meet with the project management of those applications under development which appear to have development consolidation potential.

The State Data Processing Officer should determine whether the application can be consolidated and, if the departments agree, assist in establishing a joint development effort for the applications involved.

The generic types of applications which are under development and may be consolidation candidates, are shown in Exhibit XI on the following page.

H. APPLICATIONS OF LITTLE OR NO VALUE SHOULD BE ELIMINATED IF NOT JUSTIFIED

Current Status

A number of agencies indicated that certain applications are of little value. Exhibit XII, following Exhibit XI, lists these applications, which were categorized under funding priority 5, "The application is nice to have but could be done without", and funding priority 6, "Of little or no value, application could easily be done without." The total estimated cost for these forty applications is \$301,000.

GENERIC TYPES OF APPLICATIONS WITH
POTENTIAL FOR CONSOLIDATION

Affirmative Action Reporting
Personnel - Training Reporting
Personnel - Personal Profits/Skills Register (exclude Job Bank)
Personnel - Position Control
Pensions - Contract & Employer Accounting
Case/Client Reporting
Program Effectiveness Evaluation (except CFIS)
Investigative Support
Inventory Control and Distribution
Manufacturing Production Scheduling and Control Continuous Process
Order Processing
Property Maintenance
Vehicle Fleet Maintenance
Vehicle Maintenance System
EDP Billing
Special Service Billing
Accounts Payable
Accounts Receivable
Financial Forecast
Overhead Allocation
Project Management and Budgeting
Property Inventory
Actuarial

APPLICATIONS OF LITTLE VALUE

HIGHWAY PATROL	MANAGEMENT TEAM SURVEY STORES & EQUIPMENT INVENTORY ST PERS BD IN-SERVICE TRNG INFORMATION & EDUCATION ACTIV CHP CADET PERSONNEL QUES. SURV. LINEAR PLOT OF EMPLOYEE RESP. CHP MONTHLY MAGAZINE LABELING
PARKS AND RECREATION	MT/ST TAPE PROCESSING
PUBLIC UTILITIES	CHARTER PARTY CARRIER FILE PUBLIC AFFAIRS KEYPUNCH PERFORMANCE STOCKROOM INVENTORY FUEL AVAILABILITY REPORTS
REAL ESTATE	DRE MAILING LIST SYSTEM
TEACHERS RETIREMENT SYSTEM	VERIFICATIONS SYSTEM VALUATION SYSTEM
TRANSPORTATION	DUPLICATE ACCIDENTS PROJ DEVELOPMENT MAN YR SCHEDU LAND SURVEYS MAP INDEX SELECTIVE RECORD MODIFICATION CARBON MONOXIDE SAMPLY SURVEY INDEX OF CONSTRUCTION CONTRACT EMERGENCY RENTAL EQUIP CAL LST CORRECTION FOR EAS NOT MAS FIL STATUS OF CONSTRUCTION PROJECT ACCIDENT INDEX REPORT WRITTEN WORKING DAYS CALENDAR PAYROLL WARRANT REGISTER FEDERAL SYST. SMALL STUDIES PROJECT DEVL.-TRAINING USERS BRIDGE COST ANALYSIS COST ESTIMATE PRINT ACCOUNTING BATCH PROCESS COMPARABLE MARKET DATA RECREATIONAL USE GAS TAX SURV.
WATER RESOURCES	LAND CLASS AND USE WELL LOGS INFORMATION ADDRESS LABEL SYSTEM
MENTAL HEALTH	COMPUTER PROGRAM INVENTORY
CONSUMER AFFAIRS	INSPECTION STATUS

Conclusion

The forty EDP applications mentioned above represent potential unnecessary data processing effort. The elimination of these applications could save the State \$301,000.

Recommendation: The Organizations Responsible for the Applications Should be Asked to Justify or Eliminate Them.

VI. WRITTEN RESPONSES TO THE REPORT

DEPARTMENT OF FINANCE
SACRAMENTO- State Data Processing Management Office
1025 P Street, Sacramento, Ca 95814

APR 25 1979

File No.: DJM-79-58

Mr. Thomas W. Hayes
Acting Auditor General
Joint Legislative Audit Committee
925 L Street, Suite 750
Sacramento, CA 95814

Dear Mr. Hayes:

Thank you for the opportunity to comment on your draft report "Review of Data Processing Usage in the State of California", dated April 12, 1979. We believe your findings on potential consolidation of application software and the list of applications of little or no value will be particularly useful. (Findings G and H.) We will act immediately to take advantage of them. Our comments on Findings A through F follow.

A. "THERE IS LITTLE STATEWIDE COMPREHENSIVE EDP PLANNING, COORDINATION AND COOPERATION"

It is true that there is no formal statewide EDP master plan. Your report did not reflect any serious consequences of this fault. We believe there has been a great deal of EDP planning and cooperative effort. Provided in Attachment one is a list of major EDP activities accomplished or underway. You should be aware that our Information System Plan, prepared by every State entity subject to Section 4 of the Budget Act, provides us with a projection of departmental EDP activities for two years. As an aside, we have been developing a more structured means of EDP planning to include guidance for inclusion in the State Administrative Manual. It is now in coordination and is due for publication by July 1, 1979. This will lead to an appropriate and well-coordinated statewide EDP master plan. This was reported to the Legislature in January 1979. We note your report refers to Government Code 11721 as mandating a State Electronic Data Processing Policy Committee. This Committee ceased to exist on January 1, 1971.

B. "CAPACITY LIMITATIONS MAKE IT IMPRACTICAL TO USE THE TEALE DATA CENTER TO PROCESS APPLICATIONS CURRENTLY PROCESSED ON OTHER COMPUTERS"

A procurement is underway to acquire additional computing power for the Teale Data Center by October 1979. Please note that serious capacity problems are encountered only on prime shift. Ample capability exists to process urgent work on second and third shifts. Attachment two is a projection of the Teale workload on prime shift. We note that only twice in the past year has TDC failed to meet the State Controller's standard response time of 15 seconds. You should also be aware that the Teale Data Center, as well as others, have been requested to prepare conceptual plans for five years for both facilities and equipment. Also, last fall TDC requested that plans for new State facilities include provision for a computing center to meet expanding needs.

C. "CONSOLIDATION CAN BE ACCOMPLISHED AT OTHER COMPUTER CENTERS"

Based upon projected computing workloads at the Teale Data Center, we see no need to spend the estimated \$500,000 to convert Consumer Services Agency applications to run at the Franchise Tax Board. We are also not positive that your estimate of available computer time at the FTB is accurate. For example, for those computers that are used for "on-line" processing, it is not unusual to find they have excess capacity when evaluated on a 24-hour basis. When viewed on a prime shift basis, the picture is often quite different. Computing resource are required when people are working. Also, a number of our centers, such as FTB and Board of Equalization, are subject to seasonal peaks. Processing support for other users cannot be guaranteed during these periods. These issues, plus the vital role of the FTB and BOE in view of the declining ratio of equipment to personnel costs, mitigate against concentrating upon optimum use of computing equipment.

D. "A STATE AND CONSUMER SERVICES AGENCY CONSOLIDATED DATA CENTER APPEARS WARRANTED"

This recommendation requires more study and coordination between the FTB and the Agency. We are not sure that the Agency has the management control over the FTB as implied by your report due to the statutory role of the FTB.

E. "FUTURE CONSOLIDATION OF THE BOARD OF EQUALIZATION COMPUTER CENTER INTO ANOTHER CENTER APPEARS FEASIBLE"

We concur. At such time as the BOE requires a replacement computer, this alternative will be evaluated. We are of the opinion, however, that the BOE is now functioning efficiently in carrying out a vital State process — collecting taxes. We are, of course, concerned with good equipment utilization, but that is not the priority issue or the high cost item from a program view.

F. "A TIME SHARING COMPUTER CENTER IS NEEDED"

We agree. What you have recommended is underway. The planning installation date is December 1979 or January 1980, depending upon site readiness.

We look forward to receiving your final report. Meanwhile, we are initiating steps to explore the potentials for eliminating redundant application software and useless reports. Please provide us with the list of reports you obtained so that we may evaluate the cost and benefits of maintaining it for future use.

Sincerely,

D. J. Metzker
D. J. Metzker
State Data Processing Officer
DJM186:em
cc: Chuck Gocke, DOF

MAJOR PROJECTS

INFORMATION SYSTEMS

		<u>STATUS</u>
SCO	- PAY AND PERSONNEL	PARTIAL
PERS	- PAY AND PERSONNEL	PARTIAL
MEDI-CAL	- PROVIDER	COMPLETE
MEDI-CAL	- ELIGIBILITY	IN DEVELOPMENT
CHP	- MANAGEMENT INFORMATION SYSTEM	IN DEVELOPMENT
DMV	- VEHICLE REGISTRATION	COMPLETE
DMV	- ADMINISTRATIVE ADJUDICATION	IN DEVELOPMENT
DMV	- REMITTANCE PROCESSING	PARTIAL
DMV	- ON-LINE LICENSE RENEWAL	IN DEVELOPMENT
CFIS	- CALIFORNIA FISCAL MANAGEMENT SYSTEM	IN DEVELOPMENT
DOJ	- AUTOMATED FINGERPRINT	IN DEVELOPMENT
DHS	- IN-HOME SUPPORTIVE SERVICES	IMMINENT

EQUIPMENT ITEMS

FRANCHISE TAX BOARD	COMPLETE
DEPARTMENT OF JUSTICE	PARTIAL
CA STATE UNIVERSITY AND COLLEGES	UNDERWAY
DEPARTMENT OF MOTOR VEHICLES	UNDERWAY
BOARD OF EQUALIZATION	COMPLETE
TEALE DATA CENTER - ATTACHED PROCESSOR	COMPLETE
TEALE DATA CENTER - THIRD PROCESSOR	UNDERWAY
TEALE DATA CENTER - CENTRAL TIME SHARING PROCESSOR	UNDERWAY
STATE TREASURER'S OFFICE	COMPLETE
CALIFORNIA HIGHWAY PATROL	UNDERWAY
HEALTH & WELFARE DATA CENTER - SECOND PROCESSOR	COMPLETE
HEALTH & WELFARE DATA CENTER - REPLACEMENT PROCESSOR	UNDERWAY

FACILITIES

DEPARTMENT OF JUSTICE - NEW	UNDERWAY
HEALTH & WELFARE DATA CENTER - MAJOR	IN DEVELOPMENT

MAJOR PROJECTS (CONT'D)

MASTER CONTRACTS - CONTINUOUS

MEMORY
DISK DEVICES
PAGE PRINTERS

TAPE DEVICES
REMOTE JOB ENTRY STATION
TERMINALS

EQUIPMENT MANAGEMENT

INVENTORY		COMPLETE
LEASE/PURCHASE ANALYSES		
TDC	\$1,564,419 PROCESSOR	COMPLETE
DMV	\$ 351,000 PROCESSOR	COMPLETE
DMV	\$ 724,909 DISKS	UNDERWAY
REFINANCING		
FTB	\$ 193,676 PROCESSOR	COMPLETE
EXCESS SALES	\$ 592,164	COMPLETE

SECURITY

PHYSICAL	COMPLETE
RECOVERY AND BACKUP	PARTIAL
ELECTRONIC	COMPLETE

EXECUTIVE ORIENTATION

150 + PEOPLE	UNDERWAY
--------------	----------

COMPUTER OUTPUT MICROFILM

COORDINATE WITH DEPARTMENT OF GENERAL SERVICES
ESTIMATED SAVINGS 77/78 \$1,190,600

OPTICAL CHARACTER RECOGNITION

1500 + KEY ENTRY OPERATORS

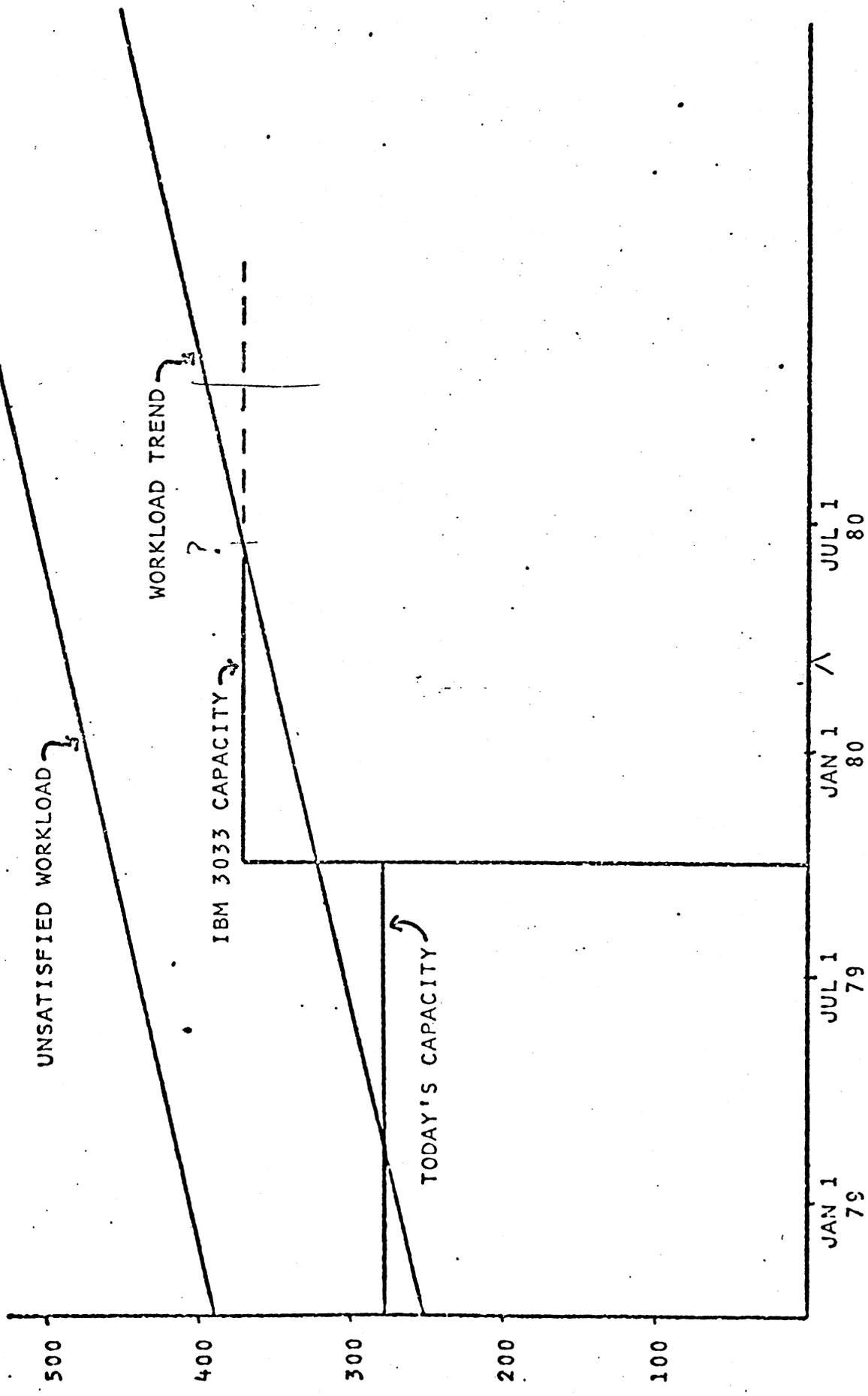
IN DEVELOPMENT

COMMUNICATIONS

DIGITAL NETWORK

COMPLETE, BUT UNSATISFACTORY

ATTACHMENT II
 TEALE DATA CENTER
 PRIME SHIFT CPU
 TRENDS & CAPACITIES



Memorandum

To : Thomas W. Hayes
Acting Auditor General
925 L Street, Suite 750
Sacramento, CA

Date : April 24, 1979

File No.:

Subject: Data Processing
Usage - Draft Report

From : Department of Water Resources

This is in response to your invitation for comments on your draft report, "Review of Data Processing Usage in the State of California".

We are in general agreement with your conclusions and recommendations. The consultant, Arthur Young and Company, appears to have made a thorough review of data processing usage and consolidation. There are, however, two items in the report which deserve special attention.

1. On page 40, the report lists three applications in the Department of Water Resources that were judged to have little or no value and hence should be eliminated. We take exception to that conclusion because these applications provide considerable savings in time and labor over manual methods. Moreover, the Land Class and Use and the Well Logs Information systems are the only organized files in the State of such data. We will be providing you with additional information in the near future justifying the continued use of these applications.
2. We definitely concur with the report's statement regarding the State's need for a scientific time-sharing center, and particularly the prospect that Department of Water Resources computer facility may be an appropriate center at which to establish it. As you may know, we are currently preparing a long range plan and feasibility study that encompasses the EDP needs of the Resources Agency as a whole. We feel that it is appropriate, cost effective and timely to establish a Resources Agency Consolidated Data Center; it would in fact be a logical placement for a statewide time-sharing computer. We therefore encourage you to go somewhat further in your report, to specifically recommend establishment of such a center.

We appreciate the opportunity to review the report in draft form and are available for further discussions regarding it or our comments.



Charles W. Farrell, Chief
Computer Systems Office
8-485-2296

cc: Donald A. Sandison
Charles R. Shoemaker


STATE BOARD OF EQUALIZATION

333 EAST WALNUT STREET, PASADENA, CALIFORNIA
 (P.O. BIN 77, PASADENA, CALIFORNIA 91109)
 TELEPHONE: (213) 681-3551

GEORGE R. REILLY
 First District, San Francisco
 ERNEST J. DRONENBURG, JR.
 Second District, San Diego
 WILLIAM M. BENNETT
 Third District, San Rafael
 RICHARD NEVINS
 Fourth District, Pasadena
 KENNETH CORY
 Controller, Sacramento
 DOUGLAS D. BELL
 Executive Secretary

April 23, 1979

Mr. Thomas W. Hayes
 Acting Auditor General
 Joint Legislative Audit Committee
 925 L Street, Suite 750
 Sacramento, California 95814

Dear Mr. Hayes:

Re: Review of Data Processing Usage in
 the State of California

We have reviewed the draft copy of the above report received on April 20, 1979 with your statement that we have three working days to respond in writing in order for our comments to be included in the final report.

The Board of Equalization is opposed to consolidation of its computer operations into another data center. As a constitutional agency and the State's largest revenue department it is charged with the administration of many state and local tax programs that will generate over eleven billion dollars in 1979-80. The study made by Arthur Young and Company is based upon a foundation of computer efficiency and ignores the tax administration missions of the Board of Equalization. It also ignores the fact that the Board has been operating its computers effectively at a low cost and that consolidation would reduce efficiency and increase costs. In addition, it fails to give justifiable reasons for considering consolidation.

We should also like to state that this is the first time we were made aware that Arthur Young and Company was considering consolidation of computers. In fact, we were told it was not a matter of consideration in the study but instead consolidation of common computer applications such as registration was being considered.

The Board of Equalization has no intention of letting its computer operations reach capacity or becoming obsolete. It will continue as it has in the past to upgrade its computer operations to accomplish efficient tax administration at the lowest possible costs.

Sincerely yours,

Douglas D. Bell
 Executive Secretary
 State Board of Equalization

DDB/km
 cc: Board Members

APPENDIX A

DETAILED APPLICATION QUESTIONNAIRE INSTRUCTIONS

DETAILED APPLICATION QUESTIONNAIRE INSTRUCTIONS

APPLICATION NAME

Please enter the common name by which the application or system is known. Please abbreviate if necessary to be able to include an intelligible name in this space.

DEPARTMENT/AGENCY NUMBER

Please enter the reporting number of your department. The number is the Reporting Organization Code used by the State Data Processing Management Office as described in Section 5003 of the State Administrative Manual. See attachment.

APPLICATION SERIAL NUMBER

To be entered on each applicable "Detailed Report Questionnaire."

BUDGET PROGRAM SERVED

Please enter the common name by which the budget program served is known. Abbreviate if necessary.

RESERVED

Reserved for later use by the Auditor General.

FUNDING PRIORITY

Please enter the number for the priority category which best describes the priority of this application. Use the following categories:

1. Required by Federal or State Law.
2. Invaluable to agency. Could not do without.
3. High priority. Would be difficult to do without.
4. Routine priority. Application contributes to agency operations.
5. The application is nice to have but could be done without.
6. Of little or no value. Application could easily be done without.

GENERIC TYPE

This is the generic application type which best describes the subject application. Please refer to the list of generic application names and enter the number assigned to that name which best describes the type of application processed.

PROCESS MODE

Please enter the letter "B" for batch processing, the letter "I" for on-line inquiry with batch update, or the letter "U" for on-line update and inquiry. Please use that code which best describes the most complex processing used in the application.

PRIMARY DATA CENTER

Please enter the number assigned on the Data Center I.D. list to that data center which normally processes this application.

PRIMARY COMPUTER

Please refer to Computer I.D. list and enter the number assigned to the computer which is primarily used to process this application.

AVERAGE MONTHLY CPU HOURS

Please enter the average number of CPU (computer) hours, computed to the nearest 10th of an hour, used per month to process this application. In the event that this is a real-time application which is up a fixed period of time per day, please enter the average number of hours per month the system is available for real-time use. If the system is operated in a real-time mode part of the day and in a batch mode part of the day, add the batch CPU hours to the amount of real-time system availability.

ALTERNATE DATA CENTER

Please enter the number assigned to the data center which can be used as an alternate or has been used as an alternate to process this application.

ALTERNATE COMPUTER

Please refer to the Computer I.D. list and enter the number assigned to the computer which has been used as an alternate computer to process this application.

USE

Please enter "P" for production or production maintenance activity. Please enter "N" for NEW application development use.

TOTAL NUMBER OF PROGRAMS

Please enter the total number of computer programs in this application system.

YEAR IMPLEMENTED

Please enter the calendar year in which the system was implemented. If the application is under development, enter "99".

PRIMARY SOURCE LANGUAGE

Please refer to the Source Language table in the attachment and enter the number assigned to the primary source language used in the application system.

REAL MEMORY REQUIREMENTS

Please enter the real memory requirements of the largest program in the application. Please use K bytes or characters rounded to the nearest decimal point. Please refrain from using "words" to describe the total "K" of memory requirements.

TYPICAL NUMBER OF DISC DRIVES REQUIRED

Please enter the usual number of disc drives required to process this application.

MINIMUM TAPE DRIVES REQUIRED

Please enter the minimum number of tape drives required to process this application.

TAPE DENSITY

Please refer to the attached documentation and enter the number assigned to the tape density used in this application. In the event more than one tape density is used, enter the most common density used in the application.

PROCESSING DISK REQUIRED

Please enter the usual disk space required to process this application. Use bytes or characters and refrain from using words to state the disk space required.

PERMANENT DISK REQUIRED

Please enter the minimum amount of permanent disk space required in bytes or characters to process this application. Permanent disk space can be considered as total disk space required, much of which may be off-line for various job steps.

OPERATING SYSTEM

Please refer to the list of operating systems and enter the number assigned to that operating system used to process this application.

SECONDARY SOURCE LANGUAGES

If secondary source languages are used, please refer to the Source Language table and enter in the blocks marked Lang. the number which corresponds to the secondary source language used. In the blocks marked % Used, please enter the percent of that portion of the application system implemented in that source language. Please enter the secondary source language in the order of magnitude represented in the system beginning with the largest magnitude of use. The percentage figure will not total 100% due to the fact that the primary source language is entered in another field in the questionnaire.

FILE ORGANIZATION

From the list of file organization methodologies included on the attached documentation, please enter in the Type box the number associated with the file organization used. In the Percent box, enter the approximate percentage of the magnitude of files which use that file organization method. (Use 99% for 100%) Please enter the data beginning with the most widely used file organization method. Enter only those files which "belong" to the application. Exclude entry of files which are primarily a portion of other applications.

RJE & TERMINALS

Please refer to the RJE & Terminals list and enter in the box marked Type, the number which corresponds to the RJE equipment or terminals used. In the box marked Total, enter the total number of terminals used.

MONTHLY REPORT/OUTPUT TABLE

Please refer to the attached documentation and obtain the number assigned to the type media used in this application. Enter that media number in the box marked "media." In the box marked "number", enter the number of different reports or outputs which use that particular type of media; and under the column "lines" please enter the monthly average number of lines of output generated on that type media. For reports prepared at greater than monthly intervals enter the monthly equivalent of lines produced (i.e., divide by three months for quarterly reports, 6 months for semi-annual reports, and so forth). Please identify all media used for output.

SOFTWARE AND UTILITIES USED

Please refer to the list of software in the attachment and enter the number associated with that software used to process this application.

SPECIAL EQUIPMENT REQUIRED

Please refer to the Special Equipment list in the attachment and enter the number which designates the type special equipment required to process the application.

INTERNAL AGENCY 78/79 APPLICATION EQUIPMENT BUDGET

Please enter the dollar amount budgeted for equipment which is charged directly to the agency and not included in the data center charges. Please round to the nearest thousand dollars.

PERSONNEL BUDGET

Please enter in the FTE space the full-time-equivalent personnel budgeted and required to support the application such as operators, key entry personnel and clerks. Round FTE figures to the nearest one-tenth person. In the Budget Costs space, please enter the dollar amount budgeted for the personnel included under FTE. Please round to the nearest thousand dollars.

DATA CENTER 78/79 APPLICATIONS PROCESSING BUDGET

Please enter the dollar amount budgeted to pay for data center charges incurred to process the application. Please round to the nearest thousand dollars.

INTERNAL AGENCY 78/79 APPLICATION OTHER COST BUDGET

Please enter the dollar amount budgeted to pay for costs other than those included in the previous categories. Normally such costs would include supplies and other items which can be reasonably attributed to the application. Please round to the nearest thousand dollars.

YES/NO QUESTIONS

Please enter "Y" for yes or "N" for no in response to the questions asked.

NAME OF PREPARER

Please enter the name of the person in the department who provided the majority of the information requested by the questionnaire.

PHONE NUMBER

Please enter the telephone number of the person entered in "Name of Preparer".

STATE ADMINISTRATIVE MANUAL

ELECTRONIC DATA PROCESSING
EDP EQUIPMENT INVENTORY

REPORTING ORGANIZATION CODES (Revised 7/78)

5003

Air Resources Board . . . . .	.006	Health . . . . .	.124
Banking . . . . .	.008	Health Facilities Comm . . . . .	.125
Conservation . . . . .	.012	Mental Assistance Payments . . . . .	.126
Controller . . . . .	.014	Mental and Developm'l Disab . . . . .	.128
Corporations . . . . .	.018	Public Health . . . . .	.129
Economic and Business Dev . . . . .	.019	Rehabilitation . . . . .	.130
Education . . . . .	.020	Social Services . . . . .	.132
Energy Resources Comm . . . . .	.021	Youth Authority . . . . .	.134
Finance . . . . .	.022	Alcoholic Bev Control . . . . .	.156
Fire Marshal . . . . .	.024	Consumer Affairs . . . . .	.158
Fish and Game . . . . .	.026	Crime Tech Res Foundation . . . . .	.160
Forestry . . . . .	.027	Equalization . . . . .	.164
General Services . . . . .	.028	Food and Agriculture . . . . .	.166
Highway Patrol . . . . .	.030	Franchise Tax . . . . .	.168
Industrial Relations . . . . .	.032	Housing and Commun Dev . . . . .	.172
Insurance . . . . .	.034	Law Enforcement Consolidated Data	
Military Dept . . . . .	.038	Center . . . . .	.176
Nav and Ocean Dev . . . . .	.040	Motor Vehicles . . . . .	.180
Parks and Recreation . . . . .	.044	Student Aid Comm . . . . .	.184
Personnel Board . . . . .	.046		
PPSD/PIMS . . . . .	.048	State Colleges and Universities	
Planning and Research . . . . .	.050	Chancellor . . . . .	.204
Postsecondary Educ Comm . . . . .	.051	Bakersfield . . . . .	.206
Pub Empl Ret Sys . . . . .	.052	Chico . . . . .	.208
Public Utilities Comm . . . . .	.054	Dominguez Hills . . . . .	.210
Real Estate . . . . .	.056	Fresno . . . . .	.212
Savings and Loan . . . . .	.060	Fullerton . . . . .	.214
Secretary of State . . . . .	.062	Hayward . . . . .	.216
State Lands Comm . . . . .	.063	Humboldt . . . . .	.218
Teale Data Center . . . . .	.064	Long Beach . . . . .	.220
Teachers Retirement Sys . . . . .	.066	Los Angeles . . . . .	.222
Transportation . . . . .	.068	Northridge . . . . .	.224
Treasurer . . . . .	.070	Pomona . . . . .	.226
Veterans Affairs . . . . .	.072	Sacramento . . . . .	.228
Water Resources . . . . .	.074	San Bernardino . . . . .	.230
Water Resources Control Board . . . . .	.076	San Diego . . . . .	.232
Health & Welfare Agency Data Center	100	San Francisco . . . . .	.234
Alcohol and Drug Abuse . . . . .	.104	San Jose . . . . .	.236
Benefit Payments . . . . .	.106	San Luis Obispo . . . . .	.238
Corrections . . . . .	.112	Sonoma . . . . .	.240
Employment Dev . . . . .	.116	Stanislaus . . . . .	.242
Health Plg & Dev, Off. of . . . . .	.122		

If the reporting state agency is not listed, contact the EDP Equipment Inventory Manager, State Data Processing Management Office, at (916) 445-1777 for assignment of an additional code.

Office of Traffic Safety	140
Department of Health Services	141
Department of Mental Health	142
Department of Developmental Services	143
Reserved	144-149

APPLICATION GENERIC TYPES

PERSONNEL SYSTEMS

- 001 Affirmative Action Reporting
- 002 Employee Personal Accidents
- 003 Payroll System
- 004 Personnel - Training Reporting
- 005 Personnel - Personal Profiles/Skills Register
- 006 Personnel - Position Control
- 007 Personnel - Leave Accounting
- 008 Personnel - History of Personnel Actions (e.g. Salary Adjustments, Training Received)
- 009 Personnel - Miscellaneous Personnel

TRACKING SYSTEMS

- 101 Claim Processing/Tracking
- 102 Contract Management
- 103 Complaint/Case Tracking (incl. Treatment Followup)
- 104 Legislative Bill Tracking
- 105 People Tracking (Case Workers, Clients, Patients, Social Worker)
- 106 Miscellaneous Tracking Systems

RETIREMENT/PENSIONS SYSTEMS

- 201 Employee Retirement System
- 202 IRS Pension Reporting
- 203 Pensions - Receipts Accounting
- 204 Pensions - Contract & Employer Accounting
- 205 Pensions - Disbursements
- 206 Pensions - Reporting System
- 207 Pensions - Reserve Fund Maintenance
- 208 Pensions - Roster
- 209 Other Retirement/Pension Applications

PERFORMANCE REPORTING & EVALUATION SYSTEMS

301 Audit
302 Benefit Reporting
303 Case/Client Reporting
304 Facility Utilization
305 Health Benefits Reporting
306 Highway Maintenance Program Reporting
307 Highway Right-of-Way Reporting
308 Pavement Condition Reporting
309 PERT
310 Personnel Utilization/Manpower Planning/Staffing Analysis
311 Program Effectiveness Evaluation
312 Program Statistical Reporting
313 Project Management System
314 Project Time Reporting
315 Vital Statistics
316 Miscellaneous Performance Reporting & Evaluation System

REGULATORY SYSTEMS

401 AFDC Eligibility
402 Duplicate Benefit Detection
403 Health Benefit Eligibility
404 Investigative Support
405 Registration/Licensing - Personnel
406 Registration/Licensing - Facilities and Institutions
407 Regulatory Inspection Reporting
408 Miscellaneous Regulatory System
409 Registration/Licensing - Vehicles, Vessels
410 Food Stamp Eligibility & Processing
411 Miscellaneous Benefits Processing

STATISTICAL/SCIENTIFIC SYSTEMS

501 Computer Model

502 Engineering/Scientific
503 Engineering Cost Estimate
504 Geological
505 Geometronics
506 Health Research & Analysis
507 Management Science (e.g. Linear Programming, Simulation)
508 Plotting/Drafting
509 Statistical Analysis Packages (e.g. Biomed, SPSS)
510 Miscellaneous Statistical/Scientific System

OPERATIONAL ASSISTANCE SYSTEMS

601 Catalogs, Indexs, Cross References and Directories
602 Computer Utility
603 Data Base Inquiry
604 Data Reduction/Entry
605 Data Preparation
606 Hospital/Medical Insurance
607 Inventory Control and Distribution
608 Inventory Control/Material Management
609 Keyword Information Retrieval/Updating
610 Mailing Lists/Labels
611 Manufacturing Production Scheduling & Control - Job Shop
612 Manufacturing Production Scheduling & Control - Continuous
Process
614 Order Processing
615 Other Operational Assistance Systems
616 Property Maintenance
617 Structure Maintenance
618 Text/Word Processing
619 Traffic Projection
620 Vehicle Fleet Management
621 Vehicle Fuel Consumption
622 Vehicle Maintenance System

BILLING SYSTEMS

- 701 Billing System - Person (e.g. Client, Patient)
- 702 EDP Billing
- 703 Radio Catalog/Maintenance/Billing
- 704 Real Estate Rental Management/Billing
- 705 Special Service Billing
- 706 Transfer Cost Billing
- 707 Miscellaneous Billing System

ACCOUNTING & FINANCIAL SYSTEMS

- 801 Accounting - Edit and Data Base Preparation
- 802 Accounting - Fiscal and Budgeting
- 803 Accounting - Departmental Financial
- 804 Accounting - Fund
- 805 Accounting - Mortgage Loan
- 806 Accounting - Program Cost and Budgeting
- 807 Accounting - Program Cost/Time Reporting
- 808 Accounting - Tax
- 809 Accounting - Encumbrance
- 810 Accounts Payable
- 811 Accounts Receivable
- 812 Bank/Financial Reconciliation
- 813 Bond and Coupon Reconciliation
- 814 Cash/Funds Receipt and Application
- 815 Financial Forecast
- 816 Fund Apportionment
- 817 Investment Portfolio Management
- 818 Overhead Allocation
- 819 Payment/Expense Distribution
- 820 Program Reimbursement - Federal and State
- 821 Project Management and Budgeting
- 822 Project Management, Costing and Billing
- 823 Project Progress Payment Calculation

824 Property Inventory (Fixed Asset Accounting)
825 Social Security Collection
826 Vouchers Payable/Disbursements
827 Vouchers Payable/Reconcilement

OTHER SYSTEMS

901 Actuarial
902 Carpool Processing
903 Demographic Distribution
904 Elections
905 FHWA
906 High School Enrollment & Proficinecy Reporting
907 School Directories
908 Miscellaneous Taxable Property Reporting
909 Miscellaneous Production Maintenance

DATA CENTER ID

1	Stephen P. Teale Consolidated Data Center.	TEALE
2	Health and Welfare Agency Data Center.	HWDC
3	Franchise Tax Board Data Center.	FTB
4	Department of Water Resources Data Center.	DWR
5	Board of Equalization Data Center.	BOE
6	Department of Motor Vehicle Data Center.	DMV
7	State Controller's Data Center	CSCO
8	Public Utilities Commission Data Center.	PUC
9	In-House Mini-Computer	MINO
A	Office of State Printing	OSP

COMPUTER ID

1	IBM System 370 all models.	IBM 370
2	IBM System 360 all models.	IBM 360
3	IBM 1401	IBM 1401
4	IBM 7074	IBM 7074
5	Amdahl 470 all models.	AMD 470
6	Univac/RCA Spectra 70/6.	UN 70/6
7	Univac/RCA Spectra 70/45	UN 70/45
8	Univac/RCA Spectra 70/55	UN 70/55
9	Burroughs B-3500	B-3500
A	Burroughs B-1720	B-1720
B	Control Data 3300.	CDC 3300
C	CDC CYBER 175.	CDC 175
D	PDP11-70	PDP11-70
E	CDC-7600	CDC-7600

SOURCE LANGUAGE

01 ASSEMBLER - UNIVAC/RCA Spectra
02 ASSEMBLER - IBM 370/360 and Amdahl
07 Autocoder - EBM7074
10 COBOL - American National Standard
11 COBOL - Other COBOL Compilers
20 FORTRAN IV - G
21 FORTRAN H
22 FORTRAN (CDC)
23 FORTRAN (Burroughs) - ANS 1966
30 ALGOL
40 PL1
50 RPGII
51 RPG
52 MARK IV
53 SYNTAX I
54 SYNTAX II
55 TPL
56 DYL 260
60 BASIC
99 Proprietary - Not Available to User

TAPE DENSITY

- 1 200BPI, 7 Track
- 2 556BPI, 7 Track
- 3 800BPI, 7 Track
- 4 1600BPI, 7 Track
- 5 800BPI, 9 Track
- 6 1600BPI, 9 Track
- 7 6250BPI, GCR

OPERATING SYSTEMS

- 01 IBM MVS Release 3.7
- 02 IBM SVS Release 1.7
- 03 IBM OS/MVT Release 21.8
- 04 IBM DOS Release 25
- 05 Univac/RCA Spectra TDOS Release 25
- 06 Univac/RCA Spectra TDOS Release 21.5
- 07 Burroughs B-1700 MCP
- 08 Burroughs B-3500 MCP
- 09 Control Data Master Release 4.2
- 10 Control Data Master Release 3
- 11 IBM OS/VS1 Version 6F

FILE ORGANIZATION

- 01 Sequential
- 02 Random
- 03 Index Sequential (ISAM)
- 04 VSAM
- 05 Data Base Management System (Commercial Vendor, not IMS or ADABAS)
- 06 Data Base Management System (In-house Developed)
- 07 ADABAS
- 08 IMS

REMOTE JOB ENTRY EQUIPMENT AND TERMINALS

- 01 IBM 2780, 3780 or Compatible Type (i.e. DATA 100)
- 02 IBM 3270 or Compatible Type
- 03 Teletype or Similar
- 04 Other CRT Type Terminals
- 05 Typewriter Type (Terminet 300 or Similar)
- 06 Other Medium Speed RJE Terminal
- 07 Other Minicomputer or Distributed Computer
- 08 Other Large Scale Computer

REPORT MEDIA

- 1 Paper Printout
- 2 Micorfiche/Microfilm
- 3 Microfiche Aperture Cards
- 4 CRT Terminal
- 5 Other Terminal
- 6 Interpreted Tabulating Cards
- 7 Computer Graphics or Plotter
- 8 Mag Tape/High Speed Page Printer (Xerox)

CONTROL DATA SOFTWARE AND UTILITIES

- 401 Message Control System
- 402 Respond
- 403 Mass Storage Sort (MS Sort 4)
- 404 Multiple Access Retrieval System (MARS III)
- 405 Linked Index Sequential Access (LISA 2)
- 406 Tape Sort/Merge
- 407 MS Sort/Merge

IBM 370/AMDAHL 470 SOFTWARE AND UTILITIES

101 ADABAS
102 ADASCRIP T +
103 ADAWRITER
104 ATMS II
105 BDAM
106 BIOMED (BMDP)
107 BPAM
108 BSAM
109 BTAM
110 Calcomp Plot Package
111 Capex Cobol Optimizer
112 CICS Dynamic Map
113 CICS 3270 Simulator
114 CICSVS
115 Cobol Interactive Debug
116 CUE
117 DATA/Dictionary
118 DMS/OS
119 DSO
120 DS/2
121 EXECUTOR/MVS
122 FATS/FATAR
123 FDR/DSF
124 FORESIGHT V
125 FORESIGHT VI
126 Fortran IV Library (Mod1)
127 Fortran Interactive Debug
128 Generalized Information System(GIS)
129 GPSS/360
130 HASP
131 Standard IBM Utilities
153 IMS
154 IMSL
155 ISAM

156 Kommand (DAS & RBS)
158 MINIDUMP or ABEND-AID
159 Mortran 2
160 NATURAL
161 Omegamon
162 Panvalet
163 Panvalet/Online
164 PL/1 Checkout Compiler
165 PL/1 Resident Library
166 PL/1 Transient Library
167 PMS IV
168 PPE
169 QSAM
170 RESOLVE II
171 SCSS
172 SECURE (DAS)
173 SHRINK
174 SPOOLER
175 SPSS
176 SSP
177 SUP370
178 Syncsort
180 TCAM
181 3330-3350 Conversion Aid
182 TMS (UCC-one)
184 TSA
185 TSO Assembler Prompter
186 TSO Cobol Prompter
187 TSO Data Utilities
188 TSO Fortran Prompter
189 TSO Full Screen Edit
190 TSO.MON
191 TSO 3270 Session Manager
192 VIDIO SYS
193 Video 370
194 VSAM
195 VTAM
196 360/30 DOS Utilities

UNIVAC/RCA SPECTRA SOFTWARE AND UTILITIES

201	AUTOFH	Automatic Text Formatting System (with optional hyphenation)
202	AUTOFM	Automatic Text Formatting System (without optional hyphenation)
203	BUFLOA	Load Train Printer Print Buffer
204	CARDCK	Mass Storage Unit Card Check
205	CDPR	Card to Printer/Punch
206	CDPSIM	Communication User Program Simulator
207	CDRA	Card to Random Access
208	CDRAM	Card to Random Access/Mass Storage
209	CDTP	Card to Tape
210	CLC	COBOL Library Convertor
211	CLU	COBOL Library Update
212	COS	Communications Oriented Software
213	DATE	Change the Date in System
214	DATES	List Julian Dates for Current Month
215	DDRL	Disc/Drum Dump and Reload
216	DIAGDG	Test Data Generator
217	DLP	Tape Duplicate
218	DPDUMP	Special Core Dump for Braille
219	DSCSRT	Disk Sort
220	DUMPRT	Print Core Dumps Spooled to Tape
221	DUP	Copy Tape to Tape
222	E301	301 Emulator
223	E501	501 Emulator
224	E7010	1410/7010 Emulator
225	EML400	1401/1440/1460 Emulator
226	EMP	Edited Memory Print
227	GPPCH	Card to Punch
228	HCR656	Hardware Check Routine for 70/656
229	HCR740	Hardware Check Routine for 740
230	ISAR	Index Sequential Analysis and Reorganization

231	JAEDIT	Job Accounting Edit Routine
232	JOBLOG	List Job Account From Tape to Printer
233	LLU	Load Library Update
234	LNKEDT	Linkage Editor
235	MARK	Write Tape Marks on Tpaе
236	MARK IV	Informatics
237	MASTRN	Master Tape Transcriber
238	MCDF	Multichannel Communications Disc Formatter
239	MCDSF	Multichannel Communications Disc Snapshot Formatter
240	MCSREC	Off-Line Recovery Program
241	MLU	Macro Library Update
242	MONIPT	Job Stream Compiles
243	MTSIP	Maintenance Test System Interface
244	OFFLIN	Vary a Controller Offline
245	OMLU	Object Module Library Update
246	OUTWRT	Output Writer Routine
247	PAC II	Project Management System
248	PAL246	Tape Test
249	PLTNDX	Program Load Library Tape Listing
250	PRGTRN	Program Library Transcriber
251	RAALLR	Random Access Storage Allocator
252	RADAR	Random Access Dump and Reload
253	RAEDIT	Random Access Edit
254	RAFLED	Random Access File Edit
255	RAINDX	Random Access Index Edit
256	RAINIT	Random Access Volume Initializer
257	RALIST	Random Access List
258	RAMSUP	Mass Storage Unit Service Program
259	RAPR	Random Access to Printer/Punch
260	RARA	Random Access to Random Access
261	RARAM	Random Access to Mass Storage Unit
262	RATP	Random Access to Tape
263	RECHK	Read Check a Tape
264	SHIRUE	Statistical and Historical Information on Recoverable and Unrecoverable Errors

265	656SS	70/656 Support System
266	SLM	Source Library Maintenance
267	SLMP	Self Loading Memory Print
268	SLRE	Self Loading Random Access Edit
269	SLTE	Self Loading Tape Edit
270	SLU	Source Library Update
271	SPATCH	System Patch Routine
272	SRTGEN	Sort/Merge
273	SYSGEN	System Generation Routine
274	TIME	Change Internal Clock
275	TOSHCR	Univac C.E. Tape Drive Test
276	TPCOMP	Tape Compare
277	TPEDIT	Tape Edit
278	TPINIT	Tape Volume Initializer
279	TPMAIN	Tape File Maintenance
280	TPPR	Selective Tape to Printer and/or Punch
281	TPRA	Tape to Random Access
282	TPRAM	Tape to Mass Storage Unit
283	TPTP	Tape to Tape
284	UCOLT	American National Standard COBOL Language Translator
285	VICON	Video Control System
286	VIMTPG	On-Line Test Program Generator (HCR)
287	VOLHDR	Write Standard Vol & HRD on Tape
288	DMVRTC	
289	DMVARTS	
290	290 DMU DCS	

SPECIAL EQUIPMENT

01	Card Reader
02	Card Punch
03	Communications Processor
04	COM Recorder
05	MICR Reader
06	Magnetic Tape Cartridge Reader
07	Optical Character Reader
08	Mark Sense Reader
09	Plotter
10	Graphic Display Device
11	Mass Storage Unit

DETAILED APPLICATION QUESTIONNAIRE

APPLICATION NAME 1 30

BUDGET PROGRAM SERVED 39 68

DEPT. 31 33

APPLICATION SERIAL NO. 34 38

RESERVED 69 76

77 FUNDING PRIORITY 78 80 81 GENERIC TYPE 82 PROCESS MODE 83 PRIMARY DATA CENTER 84 PRIMARY COMPUTER 87

88 ALT. DATA CENTER (IF ANY) 89 ALT. COMPUTER (IF ANY) 90 USE 91 93 TYPICAL NO. DISK DRIVES REQ. 94 95 YEAR IMPLEMENTED

96 97 PRIMARY SOURCE LANGUAGE 98 103 REAL MEMORY (K BYTES/CHAR) 104 105 MIN. TAPE DRIVES REQ. 106 107 TAPE DENSITY 108

109 116 PROCESSING DISK REQ. (K BYTES/CHAR) 117 124 PERMANENT DISK REQ. (K BYTES/CHAR) 125 126 OPERATING SYSTEM

SECONDARY SOURCE LANG. (IF ANY)		FILE ORGANIZATION		RJE & TERMINALS		MONTHLY REPORT OUTPUT			
LANG.	% USED	TYPE	% USED	TYPE	TOTAL	MEDIA	NUMBER REPORTS	LINES IN HUNDREDS	
<input type="text" value=""/> 127 128	<input type="text" value=""/> 129 130	<input type="text" value=""/> 147 148	<input type="text" value=""/> 149 150	<input type="text" value=""/> 167 168	<input type="text" value=""/> 169 171	<input type="checkbox"/> 192	<input type="text" value=""/> 193 195	<input type="text" value=""/> 196	<input type="text" value=""/> 200
<input type="text" value=""/> 131 132	<input type="text" value=""/> 133 134	<input type="text" value=""/> 151 152	<input type="text" value=""/> 153 154	<input type="text" value=""/> 172 173	<input type="text" value=""/> 174 176	<input type="checkbox"/> 201	<input type="text" value=""/> 202 204	<input type="text" value=""/> 205	<input type="text" value=""/> 209
<input type="text" value=""/> 135 136	<input type="text" value=""/> 137 138	<input type="text" value=""/> 155 156	<input type="text" value=""/> 157 158	<input type="text" value=""/> 177 178	<input type="text" value=""/> 179 181	<input type="checkbox"/> 210	<input type="text" value=""/> 211 213	<input type="text" value=""/> 214	<input type="text" value=""/> 218
<input type="text" value=""/> 139 140	<input type="text" value=""/> 141 142	<input type="text" value=""/> 159 160	<input type="text" value=""/> 161 162	<input type="text" value=""/> 182 183	<input type="text" value=""/> 184 186	<input type="checkbox"/> 219	<input type="text" value=""/> 220 222	<input type="text" value=""/> 223	<input type="text" value=""/> 227
<input type="text" value=""/> 143 144	<input type="text" value=""/> 145 146	<input type="text" value=""/> 163 164	<input type="text" value=""/> 165 166	<input type="text" value=""/> 187 188	<input type="text" value=""/> 189 191	<input type="checkbox"/> 228	<input type="text" value=""/> 229 231	<input type="text" value=""/> 232	<input type="text" value=""/> 236

SOFTWARE AND UTILITIES USED

237 239 240 242 243 245 246 248 249 251 252 254 255 257 258 260 261 263 264 266 267 269

SPECIAL EQUIPMENT REQUIRED

270 272 273 275 276 278 279 281 282 284 285 287

INTERNAL AGENCY 78/79 APPLIC. EQUIP BUDGET (000) 288 292

INTERNAL AGENCY PERSONNEL 78/79 FTE BUDGET COSTS (000) 293 296 297 301

DATA CENTER 78/79 APPLIC. PROCESS BUDGET (000) 302 306

INTERNAL AGENCY 78/79 APPLIC. OTHER COST BUDGET (000) 307 311

312 DOES THIS SYSTEM THROUGH MAGNETIC MEDIA INTERFACE TO OTHER APPLICATIONS?

313 IS THIS A "CANNED", COMMERCIALY AVAILABLE, OR CONSULTANT DEVELOPED APPLICATION. IF YES, DEVELOPER _____

314 IS THIS APPLICATION SCHEDULED FOR MAJOR REVISION OR REDESIGN IN THE NEXT TWO YEARS?

315 IS THIS SYSTEM USED BY OTHER DEPARTMENTS OTHER THAN YOUR DEPARTMENT?

316 ARE YOU AWARE OF A SIMILAR OR DUPLICATE APPLICATION PROCESSED AT ANOTHER DEPARTMENT?

NAME OF PREPARER

PHONE NUMBER

DETAILED REPORT QUESTIONNAIRE INSTRUCTIONS

DEPARTMENT (DEPT.)

Please enter the reporting number of your department. The number is the Reporting Organization Code used by the State Data Processing Management Office as described in Section 5003 of the State Administrative Manual. This number is also used in the detailed application questionnaire.

APPLICATION SERIAL NUMBER

Please enter the Application Serial Number as provided on the Detailed Application Questionnaire.

REPORT ID

Frequently, system designers may use a number to identify reports. If this is the case with the subject application, please enter that ID number in the field. In the event no Report ID is used, please leave the space blank.

MEDIA

Please enter the number from the following list which corresponds to the media used to present this report.

1. Paper Printout
2. Microfiche/Microfilm
3. Microfiche Aperture Cards
4. CRT Terminal
5. Other Terminal
6. Interpreted Tabulating Cards
7. Computer Graphics or Plotter

PRODUCTION CYCLE

Please enter the number from the following list which corresponds to the production cycle most commonly used to produce the report.

1. On Demand
2. Daily or more frequently
3. Weekly or less often than daily
4. Semi-monthly or less often than weekly
5. Monthly or less often than semi-monthly
6. Quarterly or less often than monthly
7. Semi-annual or less often than quarterly
8. Annual or less often than semi-annual

USE

Please enter the number from the following list which corresponds to the report usage which is most representative:

1. A number of times during the day
2. Once a day
3. Once every two or three days
4. Weekly
5. Semi-monthly
6. Monthly
7. Quarterly
8. Semi-annually
9. Annually

IMPORTANCE

Please enter the number from the following list which corresponds to the most accurate description of the importance placed on this report.

1. Invaluable, could not do without
2. Very important, would be difficult to do without
3. Routine, could do job without it, but it contributes to better performance
4. Limited importance, contributes to a small extent to better performance
5. Little or no importance, merely helps out performance

SIMILAR REPORT

Please enter the letter "Y" if you know of a similar report which could be used, with only minor modification, to fulfill the purpose of this report. Enter "N" if no similar report is known.

REPORT NAME

Please enter the common name or title of the report. Please abbreviate if necessary. Please do not include one time only reports produced by report generation software such as Mark IV.

COMMENTS

Please include name of similar report or any comment you wish known concerning the report.

APPENDIX B
AGENCY AND APPLICATION REPORT

AGENCY AND APPLICATION REPORT

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Air Resources Board	ACP Screening Handbook Agricultural Burn Data System Area Sources Emissions System Cal-Tech Air Quality Modeling Calif Aerometric Data Mgmt Sys Calif Air Quality Data System Direct Travel Impact Model Emission Inventory System EPA's UNAMAP Models Meteorology Data System Metro-Apex Modeling Studies Data Staging Motor Vehicle Emissions Model Project Management Smog Air Quality Modeling Syst
Alcohol and Drug Abuse	Alcohol Related Arrests Allocation Formula Client Oriented Data Aquisitn Client Status Report Drinking Driver Program Drug Program Evaluation Drunk Driving Convictions Evaluation Project Follow-Up Project Mailing Labels Management Information System Monthly Admission & Utilization Nat Drug Abuse Treatment Util Program Cost Report System Special 1 Time Requests Women In Crisis File
Conservation	Earthquake Catalog Gravity-Magnetic Analysis Oil and Gas Assessments Oil and Gas Production Anal. Strong Motion Instr Program
Consumer Affairs	Cashiering Complaint/Invest Tracking Syst Contractors Division of Investigation Examination System Inspection Status Master File Registered Nurse Exam Stats and Accounting Operation Vehic Emiss Testing Stat Analy Vocational Nurse Exam Word Processing
Controller	Employment History System Employment History-Development Employment History-Maintenance Fund and Accg. System General Disbursement Processes Health Benefits-Development Inheritance and Gift Tax Acctg Local Govt Financial Reports Payroll (7074 Applic.)

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Controller (cont'd)	Payroll System Payroll-Development Payroll-Maintenance PPSD and SDD Printing Services System Development Unclaimed Property Acct System
Corporations	Department Time Rept/CTS Act Sy HCSP Licensing System Licensing System
Developmental Services	Budget Control System Compensatory Education Continuing Care Services Cost and Billing CRS Medicare Report CRS Personal Deposit Fund Develop Disabil Mgmt Rptg Syst Develop Disabilities Services Development Disab Mgmt Rpt Sy Developmental Disabilit Census Environment Health & System Food Services Management Guardianship Labor Relations LPS Billing Miscellaneous Processing Mr Parental Contribution Position Employee Roster Property Equipment Invent Hosp Regional Center Projections Staffing Standards State Hosp Cost RPTG System State Hosp Special Requests State Hosp Rpts & Requests
Education	Bureau of Publications Business Services Cal Sch Finance Equal Simu Sys Child Nutrition Service Bureau Curriculum Services Educ Agency for Surplus Proper Educational Data Mgmt Systems Educational Data Mgmt Systems Fiscal Systems Operations (PCA) Fiscal Systems Operations (ABS) Program Evaluation and Research School Apportionments and Rpts Special Education State Library Services Textbook Distribution Traffic Safety Education Voc Educ Field Operations Vocational Education
Employment Development	Adverse Selection Adverse Selection Stat Appeals Statistics Applicant Data Systems Audit Flag Card Bna Benefit Audit Bpts U I Benefit PMT Statistics Continuous Wage & Benefit Hist Cost Accounting System Current Employment Estimates D I Terminated Spells Stats Departmental Inventory Control Determination of Eligibility

AGENCY

APPLICATION NAME

Employment Development (con'd)

DI Elective Coverage Account.
ECC Embossed Card Payments
Employer Accounting
Employer Address Inquiry
Employer Billings
Employer Charbebacks
Employer Rulings
Employer Statistics
Employment Security Auto Rptg
Equal Employment Opportunity
ES Promotional Mail Inserts
ES-202 Redesign (ERT)
Experience Rating
Extended Duration
Fictitious Employer Detection
Field Audit
Franchise Tax Tapes
ICP Interstate Payment System
Job Bank
Leave Balance
Local Office Stat
Mandatory Employer Listing
Master Industry Classifications
Migrant Family Statistics
Minority Race Study
Monetary Determinations (MON)
New Claims Stat
Occupational Employment Stats
OPT Overpayments
Personnel Transactions (PTR)
Proof Of Credit
Public Entity Liabilities
Recomputations
TRA Trade Readsustment Act
Training Records (TRG)
U I Claimant Characteristics
UBR Unemploy Ins Bank Reconcil
Unemploy Comp/FED Emp & Exmili
Wage Record Processing
Wage Record Statistics
Win Work Incentive

Energy Resources Commission

Appliance Efficiency Standards
Cal Con Publications
Demand Conformance
Demand Forecasting
Direct Thermal Systems
Load Mangement
Locational Planning
Management Information System
Mass Mailing
NOI AFC Processing
Pollution Modeling
Quarterly Fuel and Energy Rptg
Residential Standards
Solar Economics
Supply Assessment
Technical Assistance

Equalization

Accounts Receivable
Aircraft
Aircraft & Vessels
Allocation
Appraiser Certification & Trng
Assessment Standards Time Rptg
Audit Cell Analysis
Audit Selection

AGENCY

APPLICATION NAME

Equalization (con'd)

Audit Statistics
Beverage Tax
BTCIS
Business Taxes Time Reporting
Cigarette Tax
Data Processing Division T/R
Delinquency
Homeowners
Intercounty Equalization T/R
Job Accounting
Legal Time Reporting
Litter Assessment
Personnel Accounting
Petitions and Refunds
Petroleum
Private Car
Property Records
Registration
Return Processing
Sample Selection
Sample Selection Expansion
Security
Statistical Enumeration
Tape Library
Timber Tax
Valuation
Valuation Time Reporting
Work Measurement

Finance

Basic Programs Using Tenet
Budget Operations
CFIS Task Force
Computer Audit Retrieval Sys
Data Processing Managment
Financial Research
Income From Postretirement Emp
Legislative Tracking/Info
Miscellaneous Special Analysis
Population Research
Statistical Education Financin
Supplementary Security Income

Fire Marshall

Arson Cross-Index
CFIRS System

Food and Agriculture

Agricultural Statistics
Fertilizer & Mineral
Fuel Pumps
Milk Pooling
Milk Stabilization
Nursery Licensing
Personnel Leave Accounting
Pesticide Information
Special Grape Acreage

Forestry

Allotment Expenditure
Federal & State Income Tax-Eff
Fire Incident Reporting Syst
Fire Oper Character Using Simu
Fire Prevention Inspection Rep
Material Managment System
Miscellaneous Services
Outstanding Check Listing
Payroll Distribution
Program Time Reporting System
Property

AGENCY

APPLICATION NAME

Franchise Tax

BCT--Accounts Receivable
BCT--Audit Activities
BCT--Filing Enforcement
BCT--Research & Statistics
MIS--Document Processing
PIT--Accounts Receivable
PIT--Audit
PIT--Filing Enforcement
PIT--Research & Statistics
PIT--Self Assessment
Prad--Audit Activities
Prad--Document Processing
SCTA--Audit Activities
SCTA--Claim Processing
SCTA--Research & Statistics

General Services

Admin Hearing Functional Time
Affirmative Action System
AFS Organizational Unit Cost
Communications Div Wire Section
Contractor Service Vendor
DGS Bldgs and Grounds Cost Acc
DGS Local Asst Functional Time
DGS Proc Admin Title Subscript
DGS Proc Quarterly Townage RPT
DGS Procurement Outdoor Calif
DGS-DPSO Internal Acctg System
DGS-DPSO Job Cost Log
Fleet Administration
Leased Space Invoices
Leave Balance Reporting System-
Management Services
Office of Small Business
OSA Project Mgmt System
OSP Accounting System
OSP Employee Time Reporting
OSP Legislative Bill Room
OSP Stock Status System
OSP Text Management System
Radio Maintenance
Records Center Info System
Rei Real Estate
Res Project Mgmt System Prod
Service Contracts
Space Mgmt Space Inventory
State Police
State Police-Crime & Inc. RPTG
Stwide Logistics and Material
Supportive Service OB8 and 9

Health Facilities Comm.

Health Facilities Disclosure

Health Planning & Devel.

Annual Rpts for Health Facilities
Calif Health Manpower Reports
Cert of Need Exemption System
Inventory of Lic Hlth Facilities
Miscellaneous Requests
Vital Statistics Reports

Health Services

ABM--Abortion Monitoring
ABS--Abortion Survey System
ABT--Alternative Birthing
ADR--Address (Mailing) Labels
AHS Alternative Health (PHP)
AIH--Air Lab Information Sys
ASC--Accounting Schedule/Claims
ATD--Aid to Totally Disabled
ATM--Automated Text Management

AGENCY

Health Services (cont'd)

APPLICATION NAME

AVP-WIC Authorized Vendor Proj
BCR-Birth Certificate Reliabil
BDC-Budget Control System
BGS-Budget Greensheet
BIS-Budget Information System
BMB-BENE Explanation System
BUY- Medicare Insurance Buy-In
CAB-Cost & Billing
Casualty/Compliance A/R
CCA-CHDP Claims Accounting Sys
CCH-Contract Counties Evc Hlth
CCI-CA Correctional Industries
CCS-Crippled Childrens Serv
CDS-CDS Capitation System
CEL-CID Eligibles Summary
CHD-CHDP Interim Infor System
CID-Central Issuance And Deliv
CIS-Cancer Incidence System
CLS-Chemistry Lab Services
CMC-CMC Operator Analysis
CMR Congenital Malformati Rpts
CMS-Contract Management System
CTR-CAL Tumor Register System
DAR-Directors AD HOC Requests
DHC-Adult Day Health Care
DPI-Program Inventory
EHF-Eligibility History File
EMS-Emergency Medical Services
ESL-Environmental Studies Lab
EXL-Laboratory Examinee System
FAD-Food & Druge Inspecti Repts
FFP FED Financial Pa-ticipation
FIS Facilities Information Sys
FPR Family Planning Report Sys
FPS Family Planning System
FRD Phred Project Support
GDC Genetic Disease Control
HCS Paid Claims Miscellaneous
HEW HEW Audit
HIS Health Inventory System
HRP High Risk Pregnancies
HTS Hypertension Survey Study
HWM Hazardous Waster Management
IDS Hepatitis Register
IOR Central Index of Offi Recs
LAB Laboratory Facility System
LBR Labor Relations
LFD-LAB Facility Data Base
LIC-Nurse Assistant Certificate
LPD-Lead Poisoning Testing
LRA-Long Range Accounting Syst
MBL-MBL Specimen Control Syste
MCE MEDI-CAL Eligibility
MCF-Medicare Coding File
MCH Maternal and Child Health
MDR Medi-Drug Reporting System
MES Los Angeles MI/GR Merger
MFP Medi-Cal Fam Plan Rpt Rev
MFR Medi-Cal Federal Reports
MMI Medi-Cal Management Inf Sy
MOP Month of Payment Reports
MOS Medi-Cal Month Of Ser Rprt
MPA Misc Medi-Cal Request
MQC Medi-Cal Elig Quality Cont
MRS Prepaid Hea Plan Rate Set
MSU PHP Services Utilization
MTR Metrs-Paid Claims
NBT Newborn Testing

AGENCY

APPLICATION NAMES

Health Services (con'd)

PCP Paper County Process
PER Laboratory Personnel Systm
PIM DHS Staffing Level Rpt Sys
PIP Pilot Proj Reporting Systm
PMS Pregnancy Monitoring
PRS Personnel Roster-Positions
PTL Proficiency Testing of Lab
QAM Quality Assurance Monitori
QLB Quarterly Liability
RCV Health Recovery System
RFG Refugee Tracking & Cost RP
RHL-RAD Health-Licentiate
RHM-RHS Radioactive Materials
RHR-RAD Health-Rad Registratio
RHT RHS X-Ray Technology
SDM Short Doyle Med-Cal Report
SRS Sterilization Rptg System
SSA Sanitarian Registration Sy
SUR Surveillance & Util Review
TAR Temps and Returns
TRS Lic & Cert Time Rptg Systm
TTV Title V-Mis MCH
Vec Vector Control
VPP Volume Drug Purchase Plan
VRL Viral and Rickettsial Lab
VSB Vital Statistics Births
VSC Vital Stat-Fetal Deaths
VSD Vital Statistics-Deaths
VSF Vital Stat Divorce Final
VSM Vital Stat-Marriages
VSS Viatal Stat Special Request
WES WIC Evaluation Study
WEV Small Water Systems Evalua
WIC-WIC Eligibility System
WSS Large Water Info System
XVI--Title XVI Medi-Cal Eligib

Highway Patrol

Automated Transfer & Recruit
Budget Crossover
CHP Cadet Personnel Ques. Surv.
CHP Monthly Magazine Labeling
CHP Press Card Inventory
CHP Property Inventory
CHP 43l Overtime Grants
Data Guidance
Data Guidance (TSO)
Data Processing Operating Exp
Distribution of Personnel Serv
Encumbrance & Expenditures
Firt-Aid Trng Personnel Inv
Fleet Management Maint. Sched.
Information & Education Activ
Inventory of In-Service Trng
Invoice of Crossing Guard Sal.
Linear Plot of Employee Resp.
Listing of Scheduled Jobs
Management Team Survey
Personnel Roster File
Schedule 2 Update
St Pers Bd In-Service
Stores & Equipment Inventory
Support Serv (Misc) Batch
Support Serv (Misc) TSO
Uniform Allowance Anniversary

AGENCY

APPLICATION NAME

Housing and Comm. Deve.

Codes and Standars Time Rptng
MHP Data Reporting System

Industrial Relations

Affirmative Action
Apprenticeship Agrmnts and STD
Apprenticeship--Veterans Train
Benefit Notices Processing
Cal/Osha Consultation Statists
Communications Unit Processing
Data Processing Eqpt Utiltn Rpt
Eletr Inspt Sched and Acct Rec
Fep Interim Mis
Labor Standards Enforcemts Mis
OSHA Mis Sdb and Rpi
OSHA Survey
OSHAB Index
PV Inspect Sched and Acct Recv
Rehab Bureau Processing
Self Insurance Plans Annl Proc
Time and Cost Accounting Systm
Union Contract Processing
WCAB Mis and Deb Workload Stat
Work Injury Statistics

Insurance

Microfilm Licensing System
REV Microfilm Licensing System

Mental Health

Address Labels
Billing Syst for State Hospit
Budget Control
Client Census
Computer Program Inventory
Continuous Care Services
Cost and Billing
Cost Rdtg & Data Collect CR/DC
Demand Requests
Health Inventory System
Labor Relations
Patient History System
Position Control
State Hospital Statistics

Motor Vehicles

Alpha Name Index Processing
Amis Back-Up Recovery System
Auto Action/Review Generation
Bank Reconciliation
Co Assessor Special Vehicle
Data Collection System
Dealer File Processing
Dept Acctg Expenditure Report
Driver Control Processing
Drivers Lic Master File Audit
Drivers Lic Nonurgent Inquiry
Drivers License Issuance
Drivers License Mtr File Purge
EDP Equipment Billing
EDP Stock Inventory Format
ELP Reservation/Plate Order
ELP Retention/Cancel Notice
Gross Salary Report System
House Trailer Process
In-House File Review Control
Jury Selection Process
Measurement of Computer Workload

AGENCY

APPLICATION NAME

Motor Vehicles (con't)

Mgmt Reporting & Control
MOB Home Representative Test
Off-Hwy Vehicle Processing
Parking Citation Process
Personnel Process
Pot-Lic Control Rptg & Eval
Project Management Reporting
Rewrite of Vehicle Purge
Rewrite Veh Nonurgent Inquiry
Salesman/Representative Renew
Table Maintenance
Temp Non-Resident Com. Permits
Training Inf. Process
Urgent Inquiry Process
Vehicle Accounting
Vehicle Certificate Issuance
Vehicle Master File Update
Vehicle Registration Renewal
Vessel Processing
Video Data Input Statistics
Video Data Input Training

Office of Emergency Services

DES Inundation and Evacuation

Office of Traffic Safety

Grant Program Resource Allocat

Parks and Recreation

Artifacts Inv
Budgeting
Cashiering
Crime Reporting
Equipment Redesign
Expenditure Analysis
History and Park Stat Reporting
Misc Accounting
MT/ST Tape Processing
Parks and Rec Info
Pims Tape Processing
Program Management
Property Accounting
Reservation
Spooled CDC Computer Tape Prin
Visitor Attendance

Personnel Board

Benefits Survey
Budget Callot/Expenditure Ledge
Certification List Processing
Classification Level Tracking
Client Billing
Computer Systems
Cost Accounting
CPS Miscellaneous Processing
Examination Processing
Grievance Appeals Tracking
Local Govt Exam Processing
Management Information System
Merit Service System
Pay Resolution & Pay Scale
Personnel Position Reporting
Property Records
Salary Survey
Seniority List Processing
Sick Leave Accounting
SPB Management Information REP
SPB Management Information REP

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Planning and Research	Environmental Document Review Federal Grant Application Rev. Special Reports
Postsecondary Education Comm.	Directory
Public Employees Retirement Sys.	Active Member Records Actuarial Valuation Studies ADM Internal Acctg & Billing Benefit Payee System Benefits Calculation & Payment Common Inquiry System Employer Roster System Health Benefits System Hospital & Medical Care Cover Investments IRS Reporting Public Agency Membership Rptg Retirement Roster System Social Security Subsidiary Accounting
Public Utilities Commission	Air Insurance File Air Passenger & Seat Stats Carrier File Charter Party Carrier File Computer Usage Consumer Complaint File Distance Table DMV Equipment & Costs Dump Truck Networks Fuel and Oil Costs Fuel Availability Reports Gas Util. Accident Statistics Grade Crossings (Accidents) Grade Crossings (Maint) Grade Crossings (Protection) Greyhound Lines - West HHG Underestimates File Hiway Carriers Ratios ICC File Index of Formal Matters Inter-Terminal Traffic Clow Keypunch Performance Laobr Costs Personnel Leave File Plant Depreciation Proceedings Monitor 'Pendac' Program Information System Project Index Project Mgmt "Proview" Project Monitor "Promise" Public Affairs PUC Position Status Railroad Separation Priorities Rate Spread (Electric) Revenue by Mrt Revenue Equipment History RR Accidents Not At Grade Cros STD Time Reports Stockroom Inventory Sum of Earnings (Gas & Elec) Sum of Earnings (water) Tariff Compliance File "Murts" Tariff Service File

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Public Utilities Commission (con't)	Telephone Co. Files Traffic Flow (Current) Transportation Div Personnel Util. Div Man-Hours Utility Data File Water Consumption 5-Year Financial Summaries
Real Estate	DRE Exam Item Analysis DRE Licensing System DRE Mailing List System
Rehabilitation	Allotment Expenditure Ledger Automated Encumbrance Reporting Budget Development System Business Enterprise Program Case Service Bill System Caseload Management System Casheload Reporting System Industrially Injured Program Personnel & Affirmative Action Property Records Special Requests Statistical Analysis Statistical Reporting System Trust & Security Fund Programs Trust & Security Fund Programs Vendor Evaluation System
Savings and Loan	Computer File Access Programs MIS-Loan and Finance Miscellaneous Programs MLS Augmentation
Secretary of State	Campaign Disclosure Corporations General Mail Program Legislative Mail Program Lobbyist-Employer Media Equipment Notary Semi-Official Canvass Uniform Commercial Code Voter File
Social Services	Adoption Relinquishment Adoptions Resource Referral Ctr Affirmative Action Reporting Co Affirmative Action Data Col Co Workload & Admin Cost Comp Community Care Facilities Duplicate Aid Detection System Earnings Clearance Fair Hearings Calendar & Reptg Financial Accounting Exchange Fiscal Management Information Food Stamp Cash In Foster Care Reporting System General Reporting Personnel Mgmt Information Syst Property Inventory Quality Control Regulations Information System Rent Schedule Simulation Models Special Guide Dog Allowance State Supplemental Payment PGM

<u>AGENCY</u>	<u>APPLICATION NAME</u>
Student Aid Commission	College Opportunity Grant Occup Education & Training Gnt Pars/Ana System Payment System Scholarship New Applicant Scholarship Renewal State Student Incentive Grant
Teachers Retirement System	Accts/Receivable/Payable Syst Active Member Syst Benefit System Benefits System Gen Support and AD HOC Increase General Support Investment Accounting System Valuation System Verifications System
Teale Data Center	Account Payable Account Receivable Accounting Billing System BiWeekly Diskbackups Burst-Decolatte Report Daily Disk Backups Equipment Delete List Equipment Future List Equipment Inventory List Mailing Lables Monthly Diskbackups Opreplus Opsalloh Opsharm Opsmomac Opszsoxy Personnel Personnel Roster Plotter Billing Scheduling Daily Scheduling Monthly TDC Processors Manual TMS Software Utilities Weekly Disk Backups
Transportation	(Agent) Database Conversion (Hides) Database Conversion (Mac) Batch Billing (Mac) Feasibility Study (Permis) (Permis) Feasibility Study (Taco) Horizontal Alignment AC Blanket Accident Index Report Written Accounting Accounting Batch Process Accounting Documents Accounting Opea Workovor List Accounting Pre-Edit Acct Receivable Acctg. Edits & Data Base Prep Accts Receivable Bill Check Accts Receivable System

AGENCY

Transportation (Con't)

APPLICATION NAME

Accts 81 82 and 84 Cash System
Address Labels
Admin. Management System
Administrative Reports
Aeronautics Mailing Labels
Aeronautics-Airport Inventory
Affirmative Action
Age Profiles
Air Transportation Planning
Airphoto Report
Airport Inventory Sys. Develop.
Alpha Listg of Indiv Leav Stmt
AMS Expenditures
Annual Hiway Condition Report
Annual Reports (78-79 FY)
Automated Design Plans
Automated Plot of Photo Data
Automobile Mgtment System
Bid Opening
Bridge Cost Analysis
Bridge Eng. Prod. Report Syst.
Bridge Engineering Services
Bridge Inventory Systems
Budget Management Reports
Budget Monitoring System (BMS)
Budget Preparation
Budget Status
Bulk Fuel
Bulk Fuel Accounting System
Car Pool Usage
Carbon Monoxide Sample Survey
Carpool Cartag System
Carpool Matching System
Carpooling
Cash Balance System
Citizen Participation Mailing
Commuter Computer Carpool Syst
Comparable Market Data
Computation of Fleet Char Rat
Computerize Year-End Closing
Constr Management System
Construct. Unit Cost & Data
Construction Contractor Staff.
Construction Management System
Contractor Safety Report
Contractors Safety Reports
Convert Off Of Equi Rep To Com
Correction For Eas Not Mas Fil
Cost Estimate Print
Daily Lab Charges
Data Management Statewide Sur
Data Management TPSIS
Data Processing
Delegated Testing
Depreciable Equip Inventory
Design Management System
Design Spec. Problems & Assist
Dist EDP Unit Billing
Dist Maint Traffic Stripe
Dist Reporting Unit Masterfi
Dist Telephone List
Dist 11 Personnel
District Management Info.
District of Mis Pilot
District Relocation Assist PGM
District Training Files
District VIOC
District 01 Pilot Budget

AGENCY

Transportation (Con'd)

APPLICATION NAME

District 7 Accounts Rec
Duplicate Accidents
E & S Outages
EDP Accounting System
EDP Billing System
EDP Budget System
EDP Proc. District Plan. Proj.
Emergency Rental Equip Cal Lst
Employee Parking
Employee Parking Decals
Employee Position Code Cost
Engineering Cost Reporting
Engineering Data Set System
Engineering Estimates (Maint)
Environmental Status
Equip Radio Communications Mgt
Equip Shop Operations Analysis
Equip Work Order Alltmt By Veh
Equip Work Orders Mgmt Rep Sys
Equipment Accounts Payable
Equipment CHC Report
Equipment Training Reports
Excess Lands Inventory
Expenditure Monitoring
Factsheet Reporting
Fed. Aid Interstate Cost Est.
Fed. Traffic Simulation Models
Federal Aid Reports
Federal Legis Hiway Reports
Federal Syst. Small Studies
Fire Extinguisher
G.F. Atkinson vs Caltrans
Geometronic Special Problems
Geometronics Application Supp.
H & V Control Index
Hansel Phelps Vs Caltrans
Highway Project Priority
Hiway Skid Resistance Inventor
Index of Construction Contract
Indirect Technical Support
Interactive Trans Land Use Mod
Interstate Cost Est. Sys.-Prod
Jury Duty Report
Key Punch Time
Keypunch Expenditure
Lab. Mat. & Research
Land and Build Maint Stat Modl
Land and Build Special Report
Land and Building Enhacements
Land and Buildings Inventory
Land Surveys Map Index
Legal Library
Legal Transactions
Legislative Budgeting System
Legislature Bill Status Report
Litigation Report
Local Assist Status Reports
Local Interagency Library
Local Road Finance Report
Local Road Finance Reports-Dev
Mac Budget Monitor. Syst.
Machine Accounting (MAC)
Mailing Labels
Maint Historical Workplan
Maint Production Monit
Maint Roster
Maint Stiping Activity

AGENCY

APPLICATION NAME

Transportation (Cont'd)

Maint Unit Cost Program
Maint Acctg Edits & Data Base
Maint Count of Trucks
Faint Fed Current Bill Syst
Maint Fed Traffic Simulation
Maint Monthly & Annual Report
Maint of Engineer Construct
Maint U.C. Berkeley T.S.M.
Maintain "Finplan"
Maintain A Count of Trucks
Maintenance Management
Maintenance Management System
Maintenance Permit Index
Major Equipment Report
Management Reporting System
Manual Updates Distribution
Manuals Inventory System
Mass Transportation
Mass Transportation Product
Massman vs Caltrans
Mat Mgmt Syst Acct Subst
Material Management System
Materials Lab Daily Charges
Mckinsey & Co Study
MCS Maintenance Control System
Mice Signal Inventory
Miscellance Labels
MMS Chemical Use System
Modify Three (Permis) Programs
Monitoring System Reports
Monthly & Annual Financial Re.
Monthly Field Attendance Repor
MTC Equip & Radio Inventory
MTCE Equip Usage Program
Needs Study
New Accounting Systems Study
Newsletter List
Non Rental Equipment
Non-Expendable Inventory
Non-Expendable Property Inv.
Off Of Equ Sev Equ Pro Cont Sy
Off Of Equip Fleet Mgmt Enhanm
Off Of Equip Labor and Materls
Off of Equip Production Systms
Office Engineer, ATMS Prod.
Office of Equip Production Sys
OFM616 Budget Reports
On-Line Bdgt. Cost & Display
Open Salary Advances
Operating Expense Monitoring
Overhaul Proration System
Overhead Rate
Overtime & Nuclear Report
Parcel Planning System
Pavement Condition Reporting
Pavement Management System
Pay Scales
Paycheck Distribution
Payroll Warrant Register
Payroll Warrant Register
Pending Construction
Personnel Customized Reports
Personnel Dele Testing & Certi
Personnel Engineerg Staf Ratio
Personnel Expenditure Monitoring
Personnel Hours For Month
Personnel Management Reports
Personnel Roster & Telephone

AGENCY

Transportation (Cont'd)

APPLICATION NAME

Personnel Salary Listing
Pollution Model Supp. Translab
Pollution Model Syst. Maint.
Position Control
Preliminary Est Of Cost Review
Private Car Mileage
Processing Charges
Prod and Main Of Pro Mgt Co Sy
Production of Federal Bill
Program Budget Conversion
Program Summaries
Progress Pay (Maint)
Progress Pay Development
Proj Development Man Yr Schedu
Proj History Storage and Analy
Proj Mangmt Control Video Inve
Proj Mangmt Control Dist Pro Chg
Project Control Boards
Project Control Reports
Project Devlp. Hiway Design Ap
Project Devlp. Training Users
Project Master File (PMF)
Public Information System
Public Road Mileage Reports
Public Roads Mileage Reports
Quarterly Est of Personel Doll
R/W Excess Land Roster
R/W Parcel Estimate
R/W Personnel Experience Roster
R/W Rent Outdoor Advrt Sgn Par
R/W Rental
R/W Rental System
R/W Rental 3-Day Notice
R/W Sales Prospt Bid Mail List
R/W Tenant Listing
Rap Inventory & Control System
Record of Instruction Manuals
Recreational Use Gas Tax Surv.
Register of Invoices
Reimbursed Local Assistance
Report of Man Years Worked
Reporting Improvements
Reproduct Serv Susp Acct
Reproduction Billing
Reproduction Summary
Reproduction Supply Inventory
Revise Fleet Management System
Rewrite (MAC) Cics Subsystem
Right of Way Capital Prog. Sys
Right of Way Control System
Right of Way Ea Log
Right of Way Excess Lands Syst
Right of Way Mgmt Syst Devel
Right of Way Misc Production
Right of Way Rental Reports
Right of Way Rental System
Right of Way Support Prog. Mgmt
Safety Decal Award System
Safety Hours Report
Safety Reports
Safety Reports Development
Scope - Caltrans Cics Monitor
Selective Record Modification
Serv & Supply Warehouse Labels
Signal & Lighting Bill System
Signal & Lighting Inventory Sy
Skid Resistance Inventory

AGENCY

Transportation (Con't)

APPLICATION NAME

Slide Selection
Spec. Requests For Hiway Plan
Spending Plan-Budget
Staff and Maint Man-Yr System
Staff Time Sheet Summary
Staff Time Sheets
Staffing Plan
State Furnished Materials
Statewide Planning Reporting
Status Freeway Expway Progress
Status of Construction Project
Status of Minor Contractos
Stores Inventory System Ehanamt
Structures Frame Syst. Conver.
Structures Maintenance System
Structures Spec. Problem Asst
Survey Photo Index
Surveys Management System
System MODS and Enhancements
Teale Data Center Needs Study
Telephone Directory
Teleprocessing & Key Punch Log
Terrain/Planimetry Digital Int
Time Sheet Edit Listing
Toll Bridge Accounts Receivable
Toll Collection Audit & History
Toll Registration Audit & Coll
Traffic Accident Pilot
Traffic Accident Report System
Traffic Count Tabulation
Traffic Management System
Traffic Performance
Traffic Sign Log
Traffic Signal Costs Report
Traffic Signal Inventory Billg
Traffic Volumes System
Traffic Volumes Systems
Training Activity
Training Gap Sheets
Training Report
Training Reports
Training Roster
Trans Planning Chrgs-Other Dist
Transaction Summary
Translab Applic. Maint. Suppt.
Translab-Spec. Prob. & Assist.
Transport. Develop. Fis. & Stat
Trasportation Funds Summary
Transporation System Managemt
Trial Balance
U.C. Berkeley Traffic Simulat.
Unit Management Proration
User Cost Distribution Report
Utility Billing
Utility Billing System
Veh Assignment & Storage Repor
Vehicle Usage Report
Water Consumption Worksheet
Weekday Vehicles Miles
West Coast Corridr Stu Add Iss
Word Processing Mailrm Traf Etc
Work Authorizations
Working Days Calendary

AGENCY

APPLICATION NAME

Treasurer

A/T Monthly Paid
Bank Deposit Reconciliation
Bond & Coupon Reconciliation
CTS Bank Reconciliation
Investment Information System
WIC-Management/Inventory Cont.

Veterans Affair

Cal-Vet Loans

Water Resources

Address Label System
Automated Budget System
CA Aqueduct Optimizing Model-I
CA Aqueduct Optimizing Model -II
Climate Information System
Contractor Billing System
CSO Management Systems
Equipment Accounting System
Finite Element Analysis
Ground Water Level Measurement
Land Class And Use
Legal Information System
Miscellaneous Devep & Maint.
Miscellaneous Non-Reimbursable
Miscellaneous Production
Miscellaneous Reruns
O & M Mgmt Information System
Personnel Management System
Photogrametric Support System
Program Cost Accounting System
Promt (PERT)
Surface Water Measurement
Tape Conversions
Training Records System
Utility Cost Accounting System
Water Data Info System (WDIS)
Watermaster Accounting
Well Logs Information

Water Resources Control Board

Modeling
Other Systems
Statewide Wastweater Info Mgmt

APPENDIX C

GENERIC TYPE REPORT

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

PERSONNEL SYSTEMS			
AFFIRMATIVE ACTION REPORTING			
GENERAL SERVICES			
INDUSTRIAL RELATIONS			
TRANSPORTATION			
EMPLOYMENT DEV			
REHABILITATION			
SOCIAL SERVICES			
** AFFIRMATIVE ACTION REPORTING			
EMPLOYEE PERSONAL ACCIDENTS			
TRANSPORTATION			
** EMPLOYEE PERSONAL ACCIDENTS			
PAYROLL SYSTEM			
CONTROLLER			
HIGHWAY PATROL			
TRANSPORTATION			
** PAYROLL SYSTEM			
PERSONNEL - TRAINING REPORTING			
HIGHWAY PATROL			
PUBLIC UTILITIES COMM			
TRANSPORTATION			
WATER RESOURCES			
EMPLOYMENT DEV			
EQUALIZATION			
MOTOR VEHICLES			
** PERSONNEL - TRAINING REPORTING			
AFFIRMATIVE ACTION SYSTEM	8		NEW
AFFIRMATIVE ACTION	11		PROD
AFFIRMATIVE ACTION	6		NEW
EQUAL EMPLOYMENT OPPORTUNITY	37		PROD
PERSONNEL & AFFIRMATIVE ACTION	6		PROD
PERSONNEL & AFFIRMATIVE ACTION	0		PROD
AFFIRMATIVE ACTION REPORTING	25		PROD
CO AFFIRMATIVE ACTION DATA COL	36		NEW
TOTAL	129**		
SAFETY DECAL AWARD SYSTEM	0		PROD
TOTAL	0**		
PPSD AND SDD PRINTING SERVICES			
PAYROLL SYSTEM	233		NEW
PAYROLL-DEVELOPMENT	287		NEW
PAYROLL-MAINTENANCE	771		NEW
PAYROLL (7074 APPLIC.)	718		PROD
INVOICE OF CROSSING GUARD SAL.	324		PROD
PAYROLL WARRANT REGISTER	1		PROD
OPEN SALARY ADVANCES	19		PROD
TIME SHEET EDIT LISTING	0		PROD
PAYROLL WARRANT REGISTER	0		PROD
TOTAL	0		
	2,353**		
INVENTORY OF IN-SERVICE TRNG	2		PROD
FIRST-AID TRNG PERSONNEL INV	4		PROD
PUBLIC AFFAIRS	10		PROD
TRAINING REPORTS	7		NEW
EQUIPMENT TRAINING REPORTS	8		NEW
DISTRICT TRAINING FILES	0		PROD
DATA PROCESSING	0		NEW
TRAINING ROSTER	0		PROD
TRAINING REPORT	1		PROD
TRAINING ACTIVITY	2		PROD
TRAINING RECORDS SYSTEM	5		PROD
TRAINING RECORDS (TRG)	18		PROD
APPRAISER CERTIFICATION & TRNG	11		PROD
TRAINING INFORMATION PROCESS	0		PROD
VIDEO DATA INPUT TRAINING	0		PROD
TOTAL	68**		

GENERIC TYPE REPORT

TOTAL
COST
(X 1,000) USE

PERSONNEL SYSTEMS CONTINUED

PERSONNEL - PERSONAL PROFILES/SKILLS REGISTER
PERSONNEL BOARD

SENIORITY LIST PROCESSING	6	PROD
SENIORITY LIST PROCESSING	1	NEW
CLASSIFICATION LEVEL TRACKING	0	PROD
SPB MANAGEMENT INFORMATION REP	90	PROD
SPB MANAGEMENT INFORMATION REP	25	NEW
MANAGEMENT INFORMATION SYSTEM	68	NEW
DELEGATED TESTING	8	NEW
AGE PROFILES	8	NEW
JOB RANK	977	PROD
TOTAL	1,183**	

TRANSPORTATION

EMPLOYMENT DEV

PERSONNEL - PERSONAL PROFILES/SKILLS REGISTER

PERSONNEL - POSITION CONTROL
GENERAL SERVICES
HIGHWAY PATROL

PERSONNEL BOARD

PUBLIC UTILITIES COMM
TEALE DATA CENTER
TRANSPORTATION

DEPARTMENT OF HEALTH SERVICES

DEPARTMENT OF DEVELOPMENTAL SERVICES
HOUSING AND COMMUN DEV
PERSONNEL - POSITION CONTROL

OSP EMPLOYEE TIME REPORTING	2	PROD
PERSONNEL ROSTER FILE	9	PROD
AUTOMATED TRANSFER & RECRUIT	5	PROD
PERSONNEL POSITION REPORTING	2	PROD
PERSONNEL POSITION REPORTING	0	NEW
TRANSPORTATION DIV PERSONNEL	10	PROD
PERSONNEL ROSTER	0	PROD
POSITION CONTROL	12	PROD
POSITION CONTROL	17	NEW
EMPLOYEE POSITION CODE COST	3	PROD
PERSONNEL SALARY LISTING	2	PROD
PIM-DHS STAFFING LEVEL RPT SYS	958	NEW
PRS-PERSONNEL ROSTER-POSITIONS	7	PROD
POSITION EMPLOYEE ROSTER	6	PROD
CODES AND STANDARDS TIME RPTING	25	PROD
TOTAL	1,058**	

PERSONNEL - LEAVE ACCOUNTING

GENERAL SERVICES
PERSONNEL BOARD
PUBLIC UTILITIES COMM
TRANSPORTATION

LEAVE BALANCE REPORTING SYSTEM	18	PROD
SICK LEAVE ACCOUNTING	1	PROD
PERSONNEL LEAVE FILE	45	PROD
(PERMIS)	94	PROD
STAFF TIME SHEETS	6	PROD
ALPHA LISTG OF INDIV LEAV STMT	0	PROD
JURY DUTY REPORT	0	PROD
LEAVE BALANCE	18	PROD
PERSONNEL MGMT INFORMATION SYS	188	PROD
PERSONNEL LEAVE ACCOUNTING	23	I
PERSONNEL PROCESS	0	PROD
TOTAL	393**	

EMPLOYMENT DEV
SOCIAL SERVICES
FOOD AND AGRICULTURE
MOTOR VEHICLES
PERSONNEL - LEAVE ACCOUNTING

PERSONNEL - LEAVE ACCOUNTING

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

PERSONNEL SYSTEMS

CONTINUED

PERSONNEL - HISTORY OF PERSONNEL ACTIONS
CONTROLLER

HIGHWAY PATROL

TRANSPORTATION
EMPLOYMENT DEV

** PERSONNEL - HISTORY OF PERSONNEL ACTIONS

PERSONNEL - MISCELLANEOUS REPORTS
CONTROLLER
HIGHWAY PATROL

PARKS AND RECREATION
PERSONNEL BOARD

TEALE DATA CENTER
TRANSPORTATION

EMPLOYMENT HISTORY SYSTEM	1,951	PROD
EMPLOYMENT HISTORY-MAINTENANCE	613	PROD
EMPLOYMENT HISTORY-DEVELOPMENT	613	NEW
UNIFORM ALLOWANCE ANNIVERSARY	3	
ST PERS RD IN-SERVICE TRNG	1	PROD
TRANSACTION SUMMARY	9	NEW
PERSONNEL TRANSACTIONS (PTR)	160	PROD
TOTAL	3,350**	
HEALTH BENEFITS-DEVELOPMENT	0	NEW
CHP CADET PERSONNEL QUES.SURV.	3	PROD
LINEAR PLOT OF EMPLOYEE RESP.	1	
MANAGEMENT TEAM SURVEY	1	PROD
PIMS TAPE PROCESSING	15	NEW
PAY RESOLUTION & PAY SCALE	4	NEW
PAY RESOLUTION & PAY SCALE	1	PROD
LOCAL GOVT EXAM PROCESSING	20	PROD
LOCAL GOVT EXAM PROCESSING	1	NEW
MERIT SERVICE SYSTEM	1	PROD
CPS MISCELLANEOUS PROCESSING	1	PROD
EXAMINATION PROCESSING	65	NEW
EXAMINATION PROCESSING	460	PROD
CERTIFICATION LIST PROCESSING	77	PROD
CERTIFICATION LIST PROCESSING	1	NEW
PAY RESOLUTION & PAY SCALE SYS	5	PROD
GRIEVANCE APPEALS TRACKING	7	PROD
PERSONNEL	0	PROD
TRAINING GAP SHEETS	10	NEW
KEY PUNCH TIME	0	PROD
PERSONNEL CUSTOMIZED REPORTS	19	PROD
MODIFY THREE (PERMIS)PROGRAMS	11	PROD
PAY SCALES	7	NEW
(PERMIS) FEASIBILITY STUDY	6	NEW
PERSONNEL MANAGEMENT REPORTS	0	PROD
MCS MAINTENANCE CONTROL SYSTEM	8	
TELEPHONE DIRECTORY	0	PROD
PAYCHECK DISTRIBUTION	0	PROD
OVERTIME & NUCLEAR REPORT	0	PROD
PERSONNEL ROSTER & TELEPHONE	0	PROD
QUARTERLY EST OF PERSONEL DOLL	0	PROD
SAFETY HOURS REPORT	0	PROD
DIST 11 PERSONNEL	3	PROD
PERSONNEL DELE TESTING & CERTI	1	PROD
DIST TELEPHONE LIST	0	PROD
PERSONNEL HOURS FOR MONTH	0	PROD

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

	CONTINUED	CONTINUED	
PERSONNEL SYSTEMS			
PERSONNEL - MISCELLANEOUS REPORTS		PERSONNEL MANAGEMENT SYSTEM	22
WATER RESOURCES		BDC-BUDGET CONTROL SYSTEM	14
DEPARTMENT OF HEALTH SERVICES		LABOR RELATIONS	0
DEPARTMENT OF DEVELOPMENTAL SERVICES		PERSONNEL ACCOUNTING	13
EQUALIZATION		TOTAL	777**
** PERSONNEL - MISCELLANEOUS REPORTS			
015		JOB ACCOUNTING	4
**		TOTAL	4**
015			
**		TOTAL	9,315***
*** PERSONNEL SYSTEMS			

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
TRACKING SYSTEMS		
CLAIM PROCESSING/TRACKING		
CONTROLLER	661	PROD
INDUSTRIAL RELATIONS	70	PROD
TRANSPORTATION	0	PROD
REHABILITATION	4	PROD
DEPARTMENT OF HEALTH SERVICES	3	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	0	NEW
DEPARTMENT OF HEALTH SERVICES	76	6
DEPARTMENT OF DEVELOPMENTAL SERVICES	19	PROD
CLAIM PROCESSING/TRACKING	1	PROD
CONTRACT MANAGEMENT	843**	
GENERAL SERVICES		
TRANSPORTATION	5	PROD
DEPARTMENT OF HEALTH SERVICES	0	PROD
DEPARTMENT OF HEALTH SERVICES	4	PROD
CONTRACT MANAGEMENT	220	NEW
CONTRACT MANAGEMENT	229**	
COMPLAINT/CASE TRACKING		
PUBLIC UTILITIES COMM	84	PROD
DEPARTMENT OF HEALTH SERVICES	77	PROD
DEPARTMENT OF HEALTH SERVICES	79	PROD
CONSUMER AFFAIRS	36	NEW
CONSUMER AFFAIRS	0	NEW
COMPLAINT/CASE TRACKING	33	NEW
COMPLAINT/CASE TRACKING	48	PROD
COMPLAINT/CASE TRACKING	357**	
LEGISLATIVE BILL TRACKING		
FINANCE	145	PROD
LEGISLATIVE BILL TRACKING	145**	
PEOPLE TRACKING		
TRANSPORTATION	0	PROD
EMPLOYMENT DEV	0	PROD
REHABILITATION	808	PROD
DEPARTMENT OF HEALTH SERVICES	664	PROD
DEPARTMENT OF HEALTH SERVICES	83	PROD
DEPARTMENT OF HEALTH SERVICES	53	PROD
DEPARTMENT OF HEALTH SERVICES	127	NEW
DEPARTMENT OF HEALTH SERVICES	126	PROD
DEPARTMENT OF HEALTH SERVICES	55	PROD
DEPARTMENT OF HEALTH SERVICES	45	NEW
DEPARTMENT OF HEALTH SERVICES	12	NEW
DEPARTMENT OF HEALTH SERVICES	24	PROD
GENERAL DISBURSEMENT PROCESSES		
REHAR BUREAU PROCESSING		
RAP INVENTORY & CONTROL SYSTEM		
TRUST & SECURITY FUND PROGRAMS		
TRUST & SECURITY FUND PROGRAMS		
TRUST & SECURITY FUND PROGRAMS		
TRUST & SECURITY FUND PROGRAMS		
MQC-MEDI-CAL ELIG QUALITY CONT		
RFG-REFUGEE TRACKING & COST RP		
GUARDIANSHIP		
TOTAL		
SERVICE CONTRACTS		
INDEX OF CONSTRUCTION CONTRACT		
CMS-CONTRACT MANAGEMENT SYSTEM		
MSU-PHP SERVICES UTILIZATION		
TOTAL		
PROCEEDINGS MONITOR 'PENDAC'		
PROJECT MONITOR 'PROMISE'		
CTR-CAL TUMOR REGISTER SYSTEM		
HRP-HIGH-RISK PREGNANCIES		
LPT-LEAD POISONING TESTING		
COMPLAINT/INVEST TRACKING SYST		
DIVISION OF INVESTIGATION		
TOTAL		
LEGISLATIVE TRACKING/INFO		
TOTAL		
PRIVATE CAR MILEAGE		
MONTHLY FIELD ATTENDANCE REPOR		
EMPLOYMENT SECURITY AUTO RPTG		
APPLICANT DATA SYSTEMS		
CASELOAD REPORTING SYSTEM		
CASELOAD REPORTING SYSTEM		
CCA-CHOP CLAIMS ACCOUNTING SYS		
CCS-CRIPPLED CHILDRENS SERV		
CIS-CANCER INCIDENCE SYSTEM		
HTS-HYPERTENSION SURVEY-STUDY		
NBT-NEWBORN TESTING		
CONTINUOUS CARE SERVICES		

GENERIC TYPE REPORT

TOTAL
COST
(X 1,000) USE

TRACKING SYSTEMS									
PEOPLE TRACKING									
**	DEPARTMENT OF DEVELOPMENTAL SERVICES								
	PEOPLE TRACKING								
	MISCELLANEOUS TRACKING SYSTEMS								
	EDUCATION								
	GENERAL SERVICES								
	PARKS AND RECREATION								
	PLANNING AND RESEARCH								
	PUBLIC UTILITIES COMM								
	TRANSPORTATION								
	WATER RESOURCES								
	EMPLOYMENT DEV								
	HEALTH PLG & DEV, OFF. OF								
	SOCIAL SERVICES								
	OFFICE OF EMERGENCY SERVICES								
	DEPARTMENT OF HEALTH SERVICES								
**	FRANCHISE TAX								
	MISCELLANEOUS TRACKING SYSTEMS								
189	TEALE DATA CENTER								
	EMPLOYMENT DEV								
**	DEPARTMENT OF HEALTH SERVICES								
	**	189							
***	TRACKING SYSTEMS								
	LABOR RELATIONS	0							PROD
	PATIENT HISTORY SYSTEM	0							PROD
	CLIENT CENSUS	14							NEW
	CONTINUING CARE SERVICES	14							PROD
	TOTAL	2,025**							
	TRAFFIC SAFETY EDUCATION	2							PROD
	RECORDS CENTER INFO SYSTEM	7							PROD
	PARKS AND REC INFO	0							PROD
	FEDERAL GRANT APPLICATION REV.	71							PROD
	ENVIRONMENTAL DOCUMENT REVIEW	38							PROD
	SPECIAL REPORTS	14							PROD
	INDEX OF FORMAL MATTERS	10							PROD
	PROJECT INDEX	10							PROD
	SURVEY PHOTO INDEX	0							PROD
	LITIGATION REPORT	13							PROD
	BUDGET MONITORING SYSTEM (BMS)	18							PROD
	EDP BUDGET SYSTEM	29							NEW
	LEGAL TRANSACTIONS	0							PROD
	DISTRICT 7 ACCOUNTS REC	0							PROD
	DIST REPORTING UNIT MASTERFI	0							PROD
	WELL LOGS INFORMATION	3							PROD
	PUBLIC ENTITY LIABILITIES	9							PROD
	CERT OF NEED EXEMPTION SYSTEM	16							NEW
	FAIR HEARINGS CALENDAR & REPTS	208							PROD
	CO WORKLOAD & ADMIN COST COMPA	5							PROD
	OES INUNDATION AND EVACUATION	4							PROD
	ARM-ABORTION MONITORING	3							NEW
	ABS-ABORTION SURVEY SYSTEM	3							NEW
	HCS-PAID CLAIMS MISCELLANEOUS	2							PROD
	HWM-HAZARDOUS WASTE MANAGEMENT	32							NEW
	MIS-DOCUMENT PROCESSING	0							PROD
	TOTAL	497**							
	ACCOUNT PAYABLE	0							PROD
	WIN WORK INCENTIVE	79							PROD
	TRA TRADE READSUSTMENT ACT	13							PROD
	ECC EMBOSSED CARD PAYMENTS	913							PROD
	OPT OVERPAYMENTS	64							PROD
	ICP INTERSTATE PAYMENT SYSTEM	2							PROD
	UBR UNEMPLOY INS BANK RECONCIL	16							PROD
	BPS U J BENEFIT PMT STATISTICS	24							PROD
	ASC-ACCOUNTING SCHEDULE/CLAIMS	7							PROD
	TOTAL	1,404**							
	TOTAL	5,500 ***							

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
RETIREMENT/PENSIONS SYSTEMS		
** EMPLOYEE RETIREMENT SYSTEM		
PUB EMPL RET SYS	504	PROD
** EMPLOYEE RETIREMENT SYSTEM	504**	
** IRS PENSION REPORTING		
PUB EMPL RET SYS	14	PROD
** IRS PENSION REPORTING	14**	
** PENSIONS - RECEIPTS ACCOUNTING		
PUB EMPL RET SYS	400	PROD
TEACHERS RETIREMENT SYS	733	PROD
** PENSIONS - RECEIPTS ACCOUNTING	1,133	NEW
** PENSIONS - CONTRACT & EMPLOYER ACCOUNTING		
PUB EMPL RET SYS	84	NEW
TEACHERS RETIREMENT SYS	68	PROD
** PENSIONS - CONTRACT & EMPLOYER ACCOUNTING	152	NEW
** PENSIONS - DISBURSEMENTS		
TEACHERS RETIREMENT SYS	25	PROD
** PENSIONS - DISBURSEMENTS	181**	
** PENSIONS - ROSTER		
PUB EMPL RET SYS	194	PROD
** PENSIONS - ROSTER	98	NEW
** OTHER RETIREMENT/PENSION APPLICATIONS		
PUB EMPL RET SYS	62	NEW
TEACHERS RETIREMENT SYS	307	NEW
** OTHER RETIREMENT/PENSION APPLICATIONS	369**	
** RETIREMENT/PENSIONS SYSTEMS		
BENEFIT PAYEE SYSTEM		
TOTAL	504	PROD
IRS REPORTING		
TOTAL	14	PROD
ACTIVE MEMBER RECORDS	400	PROD
ACTIVE MEMBER SYSTEM	733	PROD
ACTIVE MEMBER SYSTEM	1,133	NEW
EMPLOYER ROSTER SYSTEM	84	NEW
ACCTS RECEIVABLE/PAYABLE SYST	68	PROD
ACCTS RECEIVABLE/PAYABLE SYST	152	NEW
VERIFICATIONS SYSTEM	25	PROD
TOTAL	1,813	
BENEFIT SYSTEM	194	PROD
BENEFITS SYSTEM	98	NEW
TOTAL	292**	
PUBLIC AGENCY MEMBERSHIP RPTG	62	NEW
RETIREMENT ROSTER SYSTEM	307	NEW
TOTAL	369**	
BENEFITS CALCULATION & PAYMENT	89	PROD
GENERAL SUPPORT	35	PROD
GEN SUPPORT AND AD HOC INCREAS	75	NEW
TOTAL	199**	
TOTAL	2,796***	

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS		
AUDIT		
FINANCE		
SUPPLEMENTARY SECURITY INCOME	21	PROD
COMPUTER AUDIT RETRIEVAL SYS	28	PROD
SELF INSURANCE PLANS ANNL PROC	16	PROD
FIELD AUDIT	19	PROD
HEW-HEW AUDIT	60	PROD
MCF MEDI-CAL ELIGIBILITY	11	PROD
PRAD-AUDIT ACTIVITIES	0	PROD
TOTAL	155**	
** AUDIT		
BENEFIT REPORTING		
DEPARTMENT OF HEALTH SERVICES	120	NEW
BENEFIT REPORTING	120**	
** BENEFIT REPORTING		
CASE/CLIENT REPORTING		
FIRE MARSHAL	10	PROD
INDUSTRIAL RELATIONS	64	NEW
DEPARTMENT OF HEALTH SERVICES	14	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	140	NEW
DEPARTMENT OF DEVELOPMENTAL SERVICES	190	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	27	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	6	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	103	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	52	NEW
TOTAL	606**	
** CASE/CLIENT REPORTING		
FACILITY UTILIZATION		
TRANSPORTATION	0	PROD
HEALTH PLG & DEV, OFF. OF	11	PROD
HEALTH FACILITIES COMM.	474	PROD
DEPARTMENT OF HEALTH SERVICES	3	PROD
DEPARTMENT OF HEALTH SERVICES	488**	
** FACILITY UTILIZATION		
HEALTH BENEFITS REPORTING		
PUB EMPL RET SYS	143	PROD
DEPARTMENT OF HEALTH SERVICES	238	PROD
DEPARTMENT OF HEALTH SERVICES	59	PROD
DEPARTMENT OF HEALTH SERVICES	48	NEW
DEPARTMENT OF HEALTH SERVICES	37	NEW
DEPARTMENT OF HEALTH SERVICES	79	NEW
DEPARTMENT OF HEALTH SERVICES	105	PROD
TOTAL	709**	
** HEALTH BENEFITS REPORTING		

GENERIC TYPE REPORT

	TOTAL COST (X 100C)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS CONTINUED		
HIGHWAY MAINTENANCE PROGRAM REPORTING TRANSPORTATION		
MAINT ROSTER	0	PROD
FEDERAL LEGIS HIWAY REPORTS	64	PROD
ANNUAL HIWAY CONDITION REPORT	8	PROD
MAINTENANCE MANAGEMENT SYSTEM	195	PROD
MAINTENANCE MANAGEMENT SYSTEM	160	PROD
TRAFFIC SIGNAL INVENTORY BILLG	81	NEW
MAINTENANCE PERMIT INDEX	0	PROD
F&S OUTAGES	2	PROD
MTCE EQUIP USAGE PROGRAM	0	PROD
MAINT UNIT COST PROGRAM	1	PROD
SIGNAL & LIGHTING INVENTORY SY	0	PROD
MICE SIGNAL INVENTORY	0	PROD
WATER CONSUMPTION WORKSHEET	0	PROD
MMS CHEMICAL USE SYSTEM	0	PROD
DIST MAINT TRAFFIC STRIPE	0	PROD
MAINT STRIPING ACTIVITY	0	PROD
TOTAL	511**	
R/W PARCEL ESTIMATE	0	PROD
TOTAL	0**	
PAVEMENT CONDITION REPORTING TRANSPORTATION		
PAVEMENT CONDITION REPORTING	29	PROD
PAVEMENT MANAGEMENT SYSTEM	58	PROD
PAVEMENT CONDITION REPORTING	53	NEW
PAVEMENT MANAGEMENT SYSTEM	34	NEW
TOTAL	174**	
PERT TRANSPORTATION		
MASSMAN VS CALTRANS	8	PROD
HANSEL PHELPS VS. CALTRANS	8	PROD
G.F. ATKINSON VS CALTRANS	8	PROD
TOTAL	24**	
PERSONNEL UTILIZATION/MANPOWER PLANNING/STAFFING ANALYSIS FORESTRY PUBLIC UTILITIES COMM		
PROGRAM TIME REPORTING SYSTEM	34	PROD
STD TIME REPORTS	21	PROD
UTIL. DIV MAN-HOURS	11	
KEYPUNCH PERFORMANCE	11	PROD
CONSTRUCTION CONTRACTOR STAFF.	3	PROD
R/W PERSONNEL EXPERIENCE ROSTR	0	PROD
STAFFING PLAN	0	PROD
TRANSPORTATION		

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS CONTINUED		
PERSONNEL UTILIZATION/MANPOWER PLANNING/STAFFING ANALYSIS		
PERSONNEL ENGINEER STAFF RATIO	0	PROD
CALIF HEALTH MANPOWER REPORTS	11	PROD
CASELOAD MANAGEMENT SYSTEM	6	PROD
CASELOAD MANAGEMENT SYSTEM	23	PROD
LBR-- LABOR RELATIONS	2	PROD
TRS-LIC & CERT TIME RPTG SYSTM	10	PROD
POSITION CONTROL	8	PROD
STAFFING STANDARDS	7	PROD
STAFFING STANDARDS	9	PROD
ASSESSMENT STANDARDS TIME RPTG	1	PROD
BUSINESS TAXES TIME REPORTING	15	PROD
DATA PROCESSING DIVISION T/R	51	PROD
INTERCOUNTY EQUALIZATION T/R	7	PROD
LEGAL TIME REPORTING	0	PROD
VALUATION TIME REPORTING	1	PROD
WORK MEASUREMENT	4	PROD
MGMT REPORTING & CONTROL	0	PROD
VIDEO DATA INPUT STATISTICS	0	PROD
TOTAL	235**	
** PERSONNEL UTILIZATION/MANPOWER PLANNING/STAFFING ANALYSIS		
PROGRAM EFFECTIVENESS EVALUATION		
EDUCATION		
FINANCE		
INDUSTRIAL RELATIONS		
PUBLIC UTILITIES COMM		
DEPARTMENT OF HEALTH SERVICES		
DEPARTMENT OF DEVELOPMENTAL SERVICES		
PROGRAM EFFECTIVENESS EVALUATION		
** PROGRAM EFFECTIVENESS EVALUATION		
PROGRAM STATISTICAL REPORTING		
INDUSTRIAL RELATIONS		
PARKS AND RECREATION		
TRANSPORTATION		
PROGRAM EVALUATION AND RESFARC	21	PROD
CFIS TASK FORCE	1,352	NEW
INCOME FROM POSTRETIREMENT EMP	0	PROD
CAL/OSHA CONSULTATION STATISTS	10	NEW
RENFIT NOTICES PROCESSING	53	PROD
CONSUMER COMPLAINT FILE	51	PROD
VPP-VOLUME DRUG PURCHASE PLAN	6	PROD
WES-WIC EVALUATION STUDY	10	NEW
COMPENSATORY EDUCATION	9	PROD
TOTAL	1,512**	
PROGRAM EVALUATION AND RESFARC		
CFIS TASK FORCE		
INCOME FROM POSTRETIREMENT EMP		
CAL/OSHA CONSULTATION STATISTS		
RENFIT NOTICES PROCESSING		
CONSUMER COMPLAINT FILE		
VPP-VOLUME DRUG PURCHASE PLAN		
WES-WIC EVALUATION STUDY		
COMPENSATORY EDUCATION		
TOTAL		
PROGRAM STATISTICAL REPORTING		
INDUSTRIAL RELATIONS		
PARKS AND RECREATION		
TRANSPORTATION		
WORK INJURY STATISTICS	74	PROD
APPRENTICESHIP--VETERANS TRAIN	18	PROD
APPRENTICESHIP AGRMNTS AND STD	47	PROD
HISTORY AND PARK STAT REPORTING	12	NEW
VISITOR ATTENDANCE	0	PROD
CRIME REPORTING	0	PROD
RESERVATION	0	PROD
RECREATIONAL USE GAS TAX SURV.	0	PROD
FEDERAL SYST. SMALL STUDIES	1	PROD
PUBLIC ROAD MILEAGE REPORTS	11	PROD
LOCAL ROAD FINANCE REPORT	5	PROD
SPEC. REQUESTS FOR HIWAY PLAN.	4	PROD
FED. AID INTERSTATF COST EST.	6	PROD
PUBLIC ROADS MILEAGE REPORTS	16	PROD

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS PROGRAM STATISTICAL REPORTING		
CONTINUED		
ALCOHOL AND DRUG ABUSE		
CONTINUED		
LOCAL ROAD FINANCE REPORTS-DEV	16	PROD
TRAFFIC ACCIDENT PILOT	0	PROD
MONTHLY ADMISSION & UTILIZATIO	4	PROD
EVALUATION PROJECT	6	NEW
CLIENT ORIENTED DATA ACQUISITN	27	PROD
NAT DRUG ABUSE TREATMENT UTIL	18	PROD
DRUG PROGRAM EVALUATION	8	PROD
WOMEN IN CRISIS FILE	5	PROD
CLIENT STATUS REPORT	1	PROD
EMPLOYER STATISTICS	0	PROD
ES-202 REDESIGN (ERT)	70	PROD
MASTER INDUSTRY CLASSIFICATION	41	PROD
STATISTICAL REPORTING SYSTEM	61	PROD
STATISTICAL REPORTING SYSTEM	65	PROD
STATE SUPPLEMENTAL PAYMENT PGM	154	PROD
GENERAL REPORTING	189	PROD
FOSTER CARE REPORTING SYSTEM	4	PROD
ADOPTION RELINQUISHMENT	12	PROD
MDR-MEDI-DRUG REPORTING SYSTEM	35	PROD
MFR-MEDI-CAL FEDERAL REPORTS	57	PROD
MOP-MONTH OF PAYMENT REPORTS	150	PROD
MOS-MEDI-CAL MONTH OF SER RPRT	110	PROD
MTR-METRS-PAID CLAIMS	439	PROD
COMPUTER PROGRAM INVENTORY	3	PROD
VEHIC EMISS TESTING STAT ANALY	205	PROD
SAMPLE SELECTION EXPANSION	17	PROD
STATISTICAL ENUMERATION	23	PROD
STATE STUDENT INCENTIVE GRANT	4	PROD
TOTAL	1,918**	
PROJECT MANAGEMENT	12	PROD
MANAGEMENT INFORMATION SYSTEM	89	NEW
RES PROJECT MGMT SYSTEM PROD	13	PROD
OSA PROJECT MGMT SYSTEM	79	PROD
PROGRAM MANAGEMENT	0	PROD
CASH BALANCE SYSTEM	1	PROD
PROJ MGMT CONTROL VIDEO INVE	60	NEW
PROJ MGMT CONTROL DIST PRO CHG	273	PROD
PROD AND MAIN OF PRO MGT CO SY	112	PROD
FACTSHEET REPORTING	0	NEW
REPORTING IMPROVEMENTS	0	NEW
LOCAL ASSIST STATUS REPORTS	18	NEW
PROJ HISTORY STORAGE AND ANALY	0	NEW
STATEWIDE PLANNING REPORTING	9	NEW
SYSTEM MODS AND ENHANCEMENTS	65	NEW
BUDGET STATUS	21	NEW
HIGHWAY PROJECT PRIORITY	20	NEW
DEPARTMENT OF HEALTH SERVICES		
DEPARTMENT OF MENTAL HEALTH		
CONSUMER AFFAIRS		
EQUALIZATION		
STUDENT AID COMM		
PROGRAM STATISTICAL REPORTING		
PROJECT MANAGEMENT SYSTEM		
AIR RESOURCES BOARD		
ENERGY RESOURCES COMM		
GENERAL SERVICES		
PARKS AND RECREATION		
TRANSPORTATION		

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
PERFORMANCE REPORTING & EVALUATION SYSTEMS		
MISCELLANEOUS PERFORMANCE REPORTING & EVALUATION SYSTEM		
CONTINUED		
ENGINEERING COST REPORTING	10	PROD
CONSTR MANAGEMENT SYSTEM	25	PROD
DESIGN MANAGEMENT SYSTEM	16	PROD
MANAGEMENT REPORTING SYSTEM	11	PROD
TRAFFIC MANAGEMENT SYSTEM	14	PROD
SKID RESISTANCE INVENTORY	9	PROD
SURVEYS MANAGEMENT SYSTEM	18	PROD
ENGINEERING COST REPORTING	16	NEW
CONSTRUCTION MANAGEMENT SYSTEM	9	NEW
CONSTRUCTION MANAGEMENT SYSTEM	32	NEW
DESIGN MANAGEMENT SYSTEM	7	NEW
MANAGEMENT REPORTING SYSTEM	6	NEW
TRAFFIC MANAGEMENT SYSTEM	8	NEW
HIWAY SKID RESISTANCE INVENTOR	32	NEW
SURVEYS MANAGEMENT SYSTEM	33	NEW
TOLL COLLECTION AUDIT & HISTRY	32	NEW
TOLL REGISTRATION AUDIT & COLL	32	PROD
STATEWIDE WASTEWATER INFO MGMT	515	PROD
MISCELLANEOUS REQUESTS	8	NEW
VENDOR EVALUATION SYSTEM	5	PROD
AIR-AIR LAB INFORMATION SYS	0	NEW
CMC-CMC OPERATOR ANALYSIS	9	PROD
CMR CONGENITAL MALFORMATI RPTS	6	NEW
DHC-ADULT DAY HEALTH CARE	143	NEW
MCH-MATERNAL AND CHILD HEALTH	21	PROD
TTV-TITLE V-MIS MCH	33	NEW
MISCELLANEOUS PROCESSING	6	NEW
ENVIRONMENT HEALTH & SAFETY	3	PROD
TOTAL	1,140**	
** DEPARTMENT OF DEVELOPMENTAL SERVICES		
MISCELLANEOUS PERFORMANCE REPORTING & EVALUATION SYSTEM		
TOTAL	9,338***	
*** PERFORMANCE REPORTING & EVALUATION SYSTEMS		

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
REGULATORY SYSTEMS		
DUPLICATE BENEFIT ELIGIBILITY		
SOCIAL SERVICES		
DEPARTMENT OF HEALTH SERVICES		
EQUALIZATION		
** DUPLICATE BENEFIT ELIGIBILITY	14	PROD
	129	NEW
	320	PROD
	15	PROD
	478**	
HEALTH BENEFIT ELIGIBILITY		
DEPARTMENT OF HEALTH SERVICES		
AHS ALTERNATIVE HEALTH (PHP)	70	PROD
BUY-MEDICARE INSURANCE/BUY-IN	346	PROD
CDS-CDS CAPITATION SYSTEM	33	PROD
CEL-CID ELIGIBLES SUMMARY	48	PROD
CID-CENTRAL ISSUANCE AND DELIVY	6,111	PROD
EHF-ELIGIBILITY HISTORY FILE	65	PROD
FRD-PHRED PROJECT SUPPORT	5	NEW
MCF-MEDICARE CODING FILE	39	PROD
MES-LOS ANGELES MI/GR MERGER	40	NEW
PCP-PAPER-COUNTY PROCESS	21	PROD
PIP-PILOT PROJ REPORTING SYSTM	9	PROD
QLB-QUARTERLY LIABILITY	177	PROD
WIC-WIC ELIGIBILITY SYSTEM	0	NEW
XVI--TITLE XVI MEDI-CAL ELIGIB	132	PROD
	7,096**	
** HEALTH BENEFIT ELEGIBILITY		
INVESTIGATIVE SUPPORT		
PUBLIC UTILITIES COMM		
EMPLOYMENT DEV		
SOCIAL SERVICES	11	PROD
DEPARTMENT OF HEALTH SERVICES	11	PROD
CONSUMER AFFAIRS	19	PROD
EQUALIZATION	55	PROD
INVESTIGATIVE SUPPORT	65	PROD
REGISTRATION/LICENSING - PERSONNEL	11	NEW
REAL ESTATE	10	PROD
SECRETARY OF STATE	17	PROD
DEPARTMENT OF HEALTH SERVICES	106	PROD
	305**	
** INVESTIGATIVE SUPPORT		
DRE LICENSING SYSTEM	152	PROD
DRE MAILING LIST SYSTEM	20	PROD
NOTARY	72	PROD
VOTER FILE	157	PROD
EXL-LABORATORY EXAMINEE SYSTEM	R	PROD
LIC-NURSE ASSISTANT CERTIFICAT	3	PROD
PER-LABORATORY PERSONNEL SYSTM	17	PROD
RHL-RAD HEALTH-LINCENTIATE	6	PROD
RHT-RHS-X-RAY TECHNOLOGY	16	PROD
SSA--SANITARIAN REGISTRATION SY	5	PROD

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

REGULATORY SYSTEMS
REGISTRATION/LICENSING - PERSONNEL

CONTINUED

CONSUMER AFFAIRS

EQUALIZATION

MOTOR VEHICLES

CONTINUED

WSS-LARGE WATER INFO SYSTEM 6 PROD
CONTRACTORS 86 PROD
EXAMINATION SYSTEM 16 PROD
MASTER FILE 907 PROD
REGISTERED NURSE EXAM 27 PROD
VOCATIONAL NURSE EXAM 28
LITTER ASSESSMENT 261 NEW
REGISTRATION 280 PROD
DRIVERS LICENSE MTR FILE PURGE 0 PROD
DRIVERS LICENSE ISSUANCE 0 PROD
DRIVERS LIC MASTER FILE AUDIT 0 PROD
DRIVER CONTROL PROCESSING 0 PROD
POST-LIC CONTROL RPTG & EVAL 0 PROD
IN-HOUSE FILE REVIEW CONTROL 0 PROD
AUTO ACTION/REVIEW GENERATION 0 PROD
MOB HOME REPRESENTATIVE TEST 0 PROD
SALESMAN/REPRESENTATIVE RENEW 0 PROD
TOTAL 2,067**

** REGISTRATION/LICENSING - PERSONNEL

REGISTRATION/LICENSING - FACILITIES AND INSTITUTIONS

CORPORATIONS

PUBLIC UTILITIES COMM

SOCIAL SERVICES

DEPARTMENT OF HEALTH SERVICES

FOOD AND AGRICULTURE

HOUSING AND COMMUN DEV

MOTOR VEHICLES

** REGISTRATION/LICENSING - FACILITIES AND INSTITUTIONS

REGULATORY INSPECTION REPORTING

FORESTRY

INDUSTRIAL RELATIONS

PUBLIC UTILITIES COMM

CONTINUED

LICENSING SYSTEM 33 PROD
HCSP LICENSING SYSTEM 6 PROD
CARRIER FILE 142 PROD
TARIFF SERVICE FILE 67 PROD
DMV EQUIPMENT & COSTS 53 PROD
CHARTER PARTY CARRIER FILE 10 PROD
AIR INSURANCE FILE 10 PROD
COMMUNITY CARE FACILITIES 64 PROD
FIS-FACILITIES INFORMATION SYS 53 PROD
LFD-LAB FACILITY DATA BASE 0 NEW
PTL-PROFICIENCY TESTING OF LAB 13 NEW
RHM-RHS RADIOACTIVE MATERIALS 4 PROD
RHR-RAD HEALTH-RAD REGISTRATIO 9 PROD
NURSERY LICENSING 53 PROD
FUEL PUMPS 31 PROD
MHP DATA REPORTING SYSTEM 46 NEW
DEALER FILE PROCESSING 0 PROD
TOTAL 594**

FIRE PREVENTION INSPECTION REP 30 PROD
OSHA MIS SDR AND RPI 159 PROD
ELETR INSPT SCHED AND ACCT REC 18 PROD
PV INSPECT SCHED AND ACCT REC 61 PROD
UTILITY DATA FILE 27 PROD
GRADE CROSSINGS (ACCIDENTS) 24 PROD
RR ACCIDENTS NOT AT GRADE CROSS 0 PROD

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

REGULATORY SYSTEMS CONTINUED

REGISTRATION/LICENSING - VEHICLES, VESSELS
MOTOR VEHICLES

VEHICLE REGISTRATION RENEWAL	0	PRODD
VEHICLE MASTER FILE UPDATE	0	PRODD
VEHICLE CERTIFICATE ISSUANCE	0	PRODD
REWRITE OF VEHICLE PURGE	0	NEW
TEMP NON-RESIDENT COM.PERMITS	0	NEW
VESSEL PROCESSING	0	PRODD
ELP RETENTION/CANCEL NOTICE	0	PRODD
ELP RESERVATION/PLATE ORDER	0	PRODD
OFF-HGMY VEHICLE PROCESSING	0	PRODD
TOTAL	0**	

** REGISTRATION/LICENSING - VEHICLES, VESSELS

FOOD STAMP ELIGIBILITY & PROCESSING
SOCIAL SERVICES

FOOD STAMP CASH IN	130	NEW
TOTAL	130**	

**

MISCELLANEOUS BENEFITS PROCESSING
SOCIAL SERVICES

SPECIAL GUIDE DOG ALLOWANCE	10	PRODD
TOTAL	10**	

**

*** REGULATORY SYSTEMS

TOTAL	18,652***	
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18,652***

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
STATISTICAL/SCIENTIFIC SYSTEMS		
COMPUTER MODEL		
AIR RESOURCES BOARD		
STATEWIDE TRAVEL FORECASTS	40	PROD
CAL-TECH AIR QUALITY MODELING	150	NEW
EPA'S UNAMAP MODELS	23	NEW
SMOG AIR QUALITY MODELING SYST	110	PROD
DIRECT TRAVEL IMPACT MODEL	29	PROD
MOTOR VEHICLE EMISSIONS MODEL	14	PROD
ACP SCREENING HANDBOOK	49	NEW
METRO-APEX	7	PROD
CAL CON PUBLICATIONS	8	PROD
RESIDENTIAL STANDARDS	35	PROD
NOI AFC PROCESSING	17	NEW
LOCATIONAL PLANNING	3	NEW
DEMAND FORECASTING	113	PROD
SUPPLY ASSESSMENT	46	PROD
DEMAND CONFORMANCE	40	PROD
POLLUTION MODELING	16	PROD
STATISTICAL EDUCATION FINANCIN	24	PROD
WATER CONSUMPTION	11	PROD
EDP PROC. DISTRICT PLAN. PROJ.	566	PROD
REIMBURSED LOCAL ASSISTANCE	20	PROD
TRANSPORTATION SYSTEM MANAGEMT	8	NEW
MODELING	55	PROD
MODELING	51	PROD
PARS/ANA SYSTEM	4	PROD
TOTAL	1,439**	
OIL AND GAS PRODUCTION ANAL.		
DIRECT THERMAL SYSTEMS	295	NEW
BRIDGE ENGINEERING SERVICES	7	NEW
STRUCTURES FRAME SYST. CONVER.	405	PROD
PROJECT DEVL. HIWAY DESIGN AP	15	PROD
PROJECT DEVL.-TRAINING USERS	267	PROD
(AGENT) DATABASE CONVERSION	44	PROD
STURCTURES SPEC. PROBLEM ASST	48	NEW
(HIDES) DATABASE CONVERSION	29	NEW
COST ESTIMATE PRINT	19	NEW
TERRAIN/PLANIMETRY DIGITAL INT	12	NEW
DESIGN SPEC. PROBLEMS & ASSIST	40	NEW
(TACO) HORIZONTAL ALIGNMENT	12	NEW
GEOMETRIC SPECIAL PROBLEMS	13	NEW
TRANSLAR APPLIC. MAINT. SUPPT.	9	NEW
POLLUTION MODEL SUPP. TRANSLAR	48	PROD
TRANSLAB-SPEC. PROB. & ASSIST.	35	PROD
AC BLANKET	6	PROD
ENGINEERING DESIGN	0	PROD
CARBON MONOXIDE SAMPLE SURVEY	0	NEW
FINITE ELEMENT ANALYSIS	0	PROD
16		
WATER RESOURCES		
CONTROL BOARD		
STUDENT AID COMM		
COMPUTER MODEL		
ENGINEERING/SCIENTIFIC		
CONSERVATION		
ENERGY RESOURCES COMM		
TRANSPORTATION		
WATER RESOURCES		

GENERIC TYPE REPORT

	CONTINUED	TOTAL COST (X 1000)	USE
STATISTICAL/SCIENTIFIC SYSTEMS ENGINEERING/SCIENTIFIC	CONTINUED		
** ENGINEERING/SCIENTIFIC	FINITE ELEMENT ANALYSIS	15	PROD
	GROUND WATER LEVEL MEASUREMENT	70	PROD
	SURFACE WATER MEASUREMENT	100	PROD
	WATER DATA INFO SYSTEM (WDIS)	119	PROD
	CLIMATE INFORMATION SYSTEM	19	PROD
	LAND CLASS AND USE	9	PROD
	TOTAL	1,653**	
** ENGINEERING COST ESTIMATE ENERGY RESOURCES COMM TRANSPORTATION	SOLAR ECONOMICS	8	NEW
	BRIDGE COST ANALYSIS	8	PROD
	ENGINEERING ESTIMATES (MAINT)	102	PROD
	ENGINEERING EST. DEVELOPEMENT	84	NEW
	PRELIMINARY EST OF COST REVIEW	14	NEW
	TOTAL	216**	
** ENGINEERING COST ESTIMATE	GRAVITY-MAGNETIC ANALYSIS	1	PROD
GEOLOGICAL	STRONG MOTION INSTR PROGRAM	46	PROD
CONSERVATION	EARTHQUAKE CATALOG	6	PROD
	EARTHQUAKE LOCATION ANALYSIS	4	PROD
	PETROLEUM	10	PROD
	TOTAL	67**	
** GEOMETRONICS	GEOMETRONICS APPLICATION SUPP.	46	PROD
TRANSPORTATION	AUTOMATED PLOT OF PHOTO DATA	14	NEW
	AIRPHOTO REPORT	0	PROD
	TOTAL	60**	
** GEOMETRONICS	INVENTORY OF LIC HLTH FACILITI	1	PROD
HEALTH RESEARCH & ANALYSIS	ABT-ALTERNATIVE BIRTHING	7	NEW
HEALTH PLG & DEV, OFF. OF	ESL-ENVIRONMENTAL STUDIES LAB	4	PROD
DEPARTMENT OF HEALTH SERVICES	GDC-GENETIC DISEASE CONTROL	2	PROD
	PMS-PREGNANCY MONITORING	150	NEW
	VRL-VIPAL AND RICKETTSIAL LAB	53	PROD
	TOTAL	217**	
** HEALTH RESEARCH & ANALYSIS	CAL SCH FINANCE EQUAL SIMU SYS	78	PROD
MANAGEMENT SCIENCE	CA AQUEDUCT OPTIMIZING MODEL-I	9	PROD
EDUCATION	CA AQUEDUCT OPTIMIZING MOD-II	87	NEW
WATER RESOURCES	SIMULATION MODELS	167	PROD
SOCIAL SERVICES	TOTAL	341**	
MANAGEMENT SCIENCE			

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

CONTINUED

STATISTICAL/SCIENTIFIC SYSTEMS

PLOTTING/DRAFTING
TRANSPORTATION

AUTOMATED DESIGN PLANS 20 NEW
ACCIDENT INDEX REPORT WRITTEN 0 PROD
PHOTOGRAMETRIC SUPPORT SYSTEM 5 PROD
TOTAL 25**

** WATER RESOURCES
PLOTTING/DRAFTING

STATISTICAL ANALYSIS PACKAGES
TRANSPORTATION
** STATISTICAL ANALYSIS PACKAGES

WEEKDAY VEHICLES MILES 0 PROD
TOTAL 0**

MISCELLANEOUS STATISTICAL/SCIENTIFIC SYSTEM
AIR RESOURCES BOARD

AGRICULTURAL BURN DATA SYSTEM 15 PROD
METEOROLOGY DATA SYSTEM 23 PROD
TECHNICAL ASSISTANCE 53 NEW
APPLIANCE EFFICIENCY STANDARDS 14 PROD
LOAD MANAGEMENT 62 PROD
QUARTERLY FUEL AND ENERGY RPTG 19 PROD
BASIC PROGRAMS USING TENET 2 PROD
FIRE OPER CHARACTER USING SIMU 16 PROD
UNION CONTRACT PROCESSING 21 PROD
SALARY SURVEY 0 NEW
SALARY SURVEY 40 PROD
BENEFITS SURVEY 5 PROD
REVENUE BY MRT 22 PROD
DRE EXAM ITEM ANALYSIS 1 PROD
INDIRECT TECHNICAL SUPPORT 100 NEW
AIR TRANSPORTATION PLANNING 10 PROD
INTERACTIVE TRANS LAND USE MOD 41 NEW
WEST COAST CORRDR STU ADD ISS 4 NEW
COMPARABLE MARKET DATA 0 PROD
MISCELLANEOUS PRODUCTION 262 PROD
MISCELLANEOUS DEVEP & MAINT. 54 NEW
MISCELLANEOUS PERUNS 48 PROD
MISCELLANEOUS NON-REIMBURSIRLF 541 PROD
APPEALS STATISTICS 2 PROD
MIGRANT FAMILY STATISTICS 0 PROD
D I TERMINATED SPELLS STATS 20 PROD
DETERMINATION OF ELIGIBILITY 30 PROD
U I CLAIMANT CHARACTERISTICS 22 PROD
CURRENT EMPLOYMENT ESTIMATES 34 PROD
OCCUPATIONAL EMPLOYMENT STATS 26 PROD
LOCAL OFFICE STAT 7 PROD
CONTINUOUS WAGE & BENEFIT HIST 126 NEW
ADVERSE SELECTION 41 PROD
WAGE RECORD STATISTICS 39 PROD
MINORITY RACE STUDY 42 PROD

ENERGY RESOURCES COMM

FINANCE
FORESTRY
INDUSTRIAL RELATIONS
PERSONNEL BOARD

PUBLIC UTILITIES COMM
REAL ESTATE
TRANSPORTATION

WATER RESOURCES

EMPLOYMENT DEV

GENERIC TYPE REPORT

	TOTAL COST (X 1,000)	USE
ADVERSE SELECTION STAT	3	PROD
NEW CLAIMS STAT	9	PROD
STATISTICAL ANALYSIS	8	PROD
CLS-CHEMISTRY LAB SERVICES	1	PROD
VEC-VECTOR CONTROL	2	PROD
STATE HOSPITAL STATISTICS	41	PROD
STATE HOSP SPECIAL REQUESTS	4	PROD
STATE HOSP SPECIAL REQUESTS	10	NEW
STATE HOSPITAL RPTS & REQUESTS	2	PROD
VEHIC EMISS TESTING STAT ANALY	5	NEW
STATS AND ACCOUNTING OPERATION	8	PROD
PESTICIDE INFORMATION	191	PROD
FERTILIZER & MINERAL	33	PROD
MILK STABILIZATION	18	PROD
AGRICULTURAL STATISTICS	0	PROD
SPECIAL GRAPE ACREAGE	2	PROD
TOTAL	2,079**	

STATISTICAL/SCIENTIFIC SYSTEMS CONTINUED
MISCELLANEOUS STATISTICAL/SCIENTIFIC SYSTEM

REHABILITATION
DEPARTMENT OF HEALTH SERVICES

DEPARTMENT OF MENTAL HEALTH
DEPARTMENT OF DEVELOPMENTAL SERVICES

CONSUMER AFFAIRS

FOOD AND AGRICULTURE

** MISCELLANEOUS STATISTICAL/SCIENTIFIC SYSTEM

*** STATISTICAL/SCIENTIFIC SYSTEMS

TOTAL 6,007***

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
OPERATIONAL ASSISTANCE SYSTEMS		
CATALOGS, INDEXES, CROSS REFERENCES AND DIRECTORIES		
EDUCATION		
CURRICULUM SERVICES	0	PROD
BUREAU OF PUBLICATIONS	19	PROD
SPECIAL EDUCATION	28	PROD
EDUCATIONAL DATA MGMT SYSTEMS	10	PROD
EDUCATIONAL DATA MGMT SYSTEMS	0	PROD
SPECIAL EDUCATION	0	PROD
ARSON CROSS-INDEX	5	PROD
CONTRACTOR SERVICE VENDOR	37	PROD
OFFICE OF SMALL BUSINESS	6	PROD
OSHA INDEX	11	PROD
DIRECTORY	0	PROD
PROGRAM INFORMATION SYSTEM	21	PROD
UNIFORM COMMERCIAL CODE	344	PROD
CORPORATIONS	253	PROD
LOBBYIST-EMPLOYER	10	PROD
CAMPAIGN DISCLOSURE	19	PROD
TMS SOFTWARE UTILITIES	457	PROD
LEGAL LIBRARY	6	PROD
MAINT. OF ENGINEER CONSTRUCT	8	PROD
WORD PROCESSING MAILRM TRAF ETC	0	PROD
MAINTENANCE MANAGEMENT	0	PROD
SLIDE SELECTION	0	PROD
EMPLOYEE PARKING DECALS	0	PROD
EMERGENCY RENTAL EQUIP CAL LST	0	PROD
LOCAL INTERAGENCY LIBRARY	0	PROD
LAND SURVEYS MAP INDEX	0	PROD
H&V CONTROL INDEX	0	PROD
WORK AUTHORIZATIONS	0	PROD
DUPLICATE ACCIDENTS	0	PROD
LEGAL INFORMATION SYSTEM	35	PROD
WATERMASTER ACCOUNTING	16	PROD
MANDATORY EMPLOYER LISTING	11	PROD
TOR-CENTRAL INDEX OF OFFI RECS	24	NEW
TAPE LIBRARY	170	PROD
PRAD-DOCUMENT PROCESSING	0	PROD
ALPHA NAME INDEX PROCESSING	0	PROD
JURY SELECTION PROCESS	0	PROD
TABLE MAINTENANCE	0	PROD
TOTAL	1,490**	
MISCELLANEOUS SERVICES	12	PROD
SPOOLED CDC COMPUTER TAPE PRIN	2	PROD
COMPUTER SYSTEMS	36	PROD
COMPUTER USAGE	11	PROD
OPREPLUS	0	PROD
SELECTIVE RECORD MODIFICATION	0	PROD
SCOPE - CALTRANS CICS MONITOR	96	PROD
COMPUTER UTILITY		
FORESTRY		
PARKS AND RECREATION		
PERSONNEL BOARD		
PUBLIC UTILITIES COMM		
TEALE DATA CENTER		
TRANSPORTATION		
WATER RESOURCES		
EMPLOYMENT DEV		
DEPARTMENT OF HEALTH SERVICES		
EQUALIZATION		
FRANCHISE TAX		
MOTOR VEHICLES		
** CATALOGS, INDEXES, CROSS REFERENCES AND DIRECTORIES		

GENERIC TYPE REPORT

	CONTINUED	CONTINUED	TOTAL COST (X 1000)	USE
OPERATIONAL ASSISTANCE SYSTEMS				
COMPUTER UTILITY				
WATER RESOURCES				
MOTOR VEHICLES				
COMPUTER UTILITY				
**			158**	PROD
DATA BASE INQUIRY				
AIR RESOURCES BOARD				
GENERAL SERVICES				
PUB EMPL RET SYS				
TRANSPORTATION				
EQUALIZATION				
MOTOR VEHICLES				
**			1,474**	NEW
DATA REDUCTION/ENTRY				
TRANSPORTATION				
MOTOR VEHICLES				
**			0**	PROD
DATA PREPARATION				
AIR RESOURCES BOARD				
PARKS AND RECREATION				
TRANSPORTATION				
**			90**	NEW
INVENTORY CONTROL AND DISTRIBUTION				
EDUCATION				
TEALE DATA CENTER				
TRANSPORTATION				
**			60**	PROD
EMPLOYMENT DEV				
DEPARTMENT OF MENTAL HEALTH				
INVENTORY CONTROL AND DISTRIBUTION				
**			5	PROD
**			5	NEW
**			60**	TOTAL

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

OPERATIONAL ASSISTANCE SYSTEMS CONTINUED

INVENTORY CONTROL/MATERIAL MANAGEMENT

EDUCATION	4	PROD
FINANCE	28	PROD
FORESTRY	13	PROD
GENERAL SERVICES	72	PROD
HIGHWAY PATROL	550	PROD
PERSONNEL BOARD	26	PROD
PUBLIC UTILITIES COMM	1	PROD
TRANSPORTATION	11	PROD
	155	PROD
	89	NEW
	89	PROD
	3	PROD
	30	NEW
	19	NEW
	0	PROD
	0	PROD
	18	PROD
	39	PROD
	15	NEW
	17	PROD
	0	NEW
	1,179**	

** INVENTORY CONTROL/MATERIAL MANAGEMENT

KEYWORD INFORMATION RETRIEVAL/UPDATING

TRANSPORTATION	15	PROD
KEYWORD INFORMATION RETRIEVAL/UPDATING	15**	

** KEYWORD INFORMATION RETRIEVAL/UPDATING

MAILING LISTS/LABELS
ENERGY RESOURCES COMM
GENERAL SERVICES

MASS MAILING	11	PROD
DGS PROCUREMENT OUTDOOR CALIF	5	PROD
DGS PROC ADMIN TITLE SUBSCRIPT	22	PROD
OSP LEGISLATIVE BILL ROOM	6	PROD
CHP MONTHLY MAGAZINE LABELING	1	PROD
COMMUNICATIONS UNIT PROCESSING	9	PROD
GENERAL MAIL PROGRAM	16	PROD
LEGISLATIVE MAIL PROGRAM	57	PROD
MAILING LABELS	0	PROD
MASS TRANSPORTATION	14	NEW
PUBLIC INFORMATION SYSTEM	7	PROD
ADDRESS LABELS	7	PROD
MAILING LABELS	0	PROD
RECORD OF INSTRUCTION MANUALS	0	PROD
R/W SALES PROSPT RID MAIL LIST	0	PROD
CITIZEN PARTICIPATION MAILING	0	PROD
NEWSLETTER LIST	0	PROD

GENERIC TYPE REPORT

		TOTAL COST (X 1000)	USE
OPERATIONAL ASSISTANCE SYSTEMS	CONTINUED		
MAILING LISTS/LABELS	CONTINUED		
	WATER RESOURCES	1	PROD
	ALCOHOL AND DRUG ABUSE	0	PROD
	EMPLOYMENT DEV	1	NEW
	DEPARTMENT OF HEALTH SERVICES	4	PROD
	DEPARTMENT OF MENTAL HEALTH	42	PROD
	DEPARTMENT OF DEVELOPMENTAL SERVICES	15	PROD
		1	PROD
		3	PROD
		2	PROD
**	MAILING LISTS/LABELS	224**	
	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - JOB SHOP		
	TRANSPORTATION	28	NEW
		0	PROD
		1	PROD
**	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - JOB SHOP	29**	
	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - CONTINUOUS		
	TRANSPORTATION	19	NEW
	DEPARTMENT OF HEALTH SERVICES	52	NEW
**	MANUFACTURING PRODUCTION SCHEDULING & CONTROL - CONTINUOUS	71**	
613	TRANSPORTATION	0	PROD
**	613	0**	
	ORDER PROCESSING		
	EDUCATION	175	PROD
	TEALE DATA CENTER	1	PROD
	TRANSPORTATION	10	PROD
		0	PROD
		0	PROD
	SOCIAL SERVICES	7	PROD
	DEPARTMENT OF DEVELOPMENTAL SERVICES	11	PROD
**	ORDER PROCESSING	10	NEW
	OTHER OPERATIONAL ASSISTANCE SYSTEMS	214**	
	PUBLIC UTILITIES COMM		
	TEALE DATA CENTER		
	GRADE CROSSINGS (PROTECTION)	11	PROD
	GRADE CROSSINGS (MAINT)	11	PROD
	DAILY DISK BACKUPS	0	PROD
	WEEKLY DISK BACKUPS	0	PROD
	BIWEEKLY DISKBACKUPS	0	PROD
	MONTHLY DISKBACKUPS	0	PROD

GENERIC TYPE REPORT

TOTAL
CCST
(X 1,000) USE

OPERATIONAL ASSISTANCE SYSTEMS OTHER OPERATIONAL ASSISTANCE SYSTEMS TRANSPORTATION	CONTINUED	TOTAL CCST (X 1,000)	USE
OPERATIONAL ASSISTANCE SYSTEMS OTHER OPERATIONAL ASSISTANCE SYSTEMS TRANSPORTATION	CONTINUED		
	BRIDGE INVENTORY SYSTEMS	71	PROD
	AERONAUTICS-AIRPORT INVENTORY	8	PROD
	AERONAUTICS MAILING LABELS	2	PROD
	RIGHT OF WAY CONTROL SYSTEM	5	PROD
	RIGHT OF WAY MISC. PRODUCTION	15	PROD
	AIRPORT INVENTORY SYS. DEVELOP.	16	PROD
	CONVERT OFF OF EQUI REP TO COM	7	NEW
	ENGINEERING DATA SET SYSTEM	0	PROD
	RIGHT OF WAY EA LOG	0	PROD
	NON RENTAL EQUIPMENT	3	PROD
	R/W TENANT LISTING	0	PROD
	PARCEL PLANNING SYSTEM	0	PROD
	OTHER SYSTEMS	249	PROD
	MEASUREMENT OF COMPUTER WORKLD	0	PROD
TOTAL	398**		
WATER RESOURCES CONTROL BOARD MOTOR VEHICLES OTHER OPERATIONAL ASSISTANCE SYSTEMS	LAND AND BUILDINGS INVENTORY	4	PROD
	LAND AND BUILD SPECIAL REPORT	8	PROD
	LAND AND BUILDING ENHANCEMENTS	21	NEW
	LAND AND BUILD MAINT STAT MODL	66	NEW
	DISTRICT VTDC	0	PROD
	BUSINESS ENTERPRISE PROGRAM	11	PROD
	BUSINESS ENTERPRISE PROGRAM	18	PROD
	PROPERTY RECORDS	3	PROD
	TOTAL	131**	
	PROPERTY MAINTENANCE TRANSPORTATION	OFFICE ENGINEER, ATMS PROD.	0	PROD
BRIDGE ENG. PROD. REPORT SYST.		35	PROD
STRUCTURES MAINTENANCE SYSTEM		53	NEW
TOTAL		97**	
REHABILITATION	OSP TEXT MANAGEMENT SYSTEM	433	PROD
	TDC PROCESSORS MANUAL	0	PROD
	MAINTAIN A COUNT OF TRUCKS	8	PROD
	MAINT. COUNT OF TRUCKS	6	PROD
PROPERTY MAINTENANCE	ATM-AUTOMATED TEXT MANAGEMENT	228	NEW
	WORD PROCESSING	25	PROD
	TOTAL	700**	
	TEXT/WORD PROCESSING		
PROPERTY MAINTENANCE TRANSPORTATION	DEPARTMENT OF HEALTH SERVICES		
	CONSUMER AFFAIRS		
STRUCTURE MAINTENANCE TRANSPORTATION	DUMP TRUCK NETWORK	11	PROD
	MAINT. FFD. TRAFFIC SIMULATION	0	PROD
TEXT/WORD PROCESSING	GENERAL SERVICES		
	TEALE DATA CENTER		
DEPARTMENT OF HEALTH SERVICES CONSUMER AFFAIRS	DEPARTMENT OF HEALTH SERVICES		
	CONSUMER AFFAIRS		
TEXT/WORD PROCESSING	TRAFFIC PROJECTION		
	PUBLIC UTILITIES COMM		
DEPARTMENT OF HEALTH SERVICES CONSUMER AFFAIRS	TRANSPORTATION		

GENERIC TYPE REPORT

	CONTINUED	TOTAL COST (X 1000)	USE
OPERATIONAL ASSISTANCE SYSTEMS			
TRAFFIC PROJECTION	CONTINUED		
** TRAFFIC PROJECTION	MAINT. U.C. BERKELEY T.S.M.	9	PROD
	TRAFFIC VOLUMES SYSTEM	176	PROD
	FED. TRAFFIC SIMULATION MODELS	6	PROD
	U.C. BERKELEY TRAFFIC SIMULAT.	5	PROD
	TRAFFIC VOLUMES SYSTEMS	51	PROD
	EQUIPMENT CHC REPORT	2	PROD
	TRAFFIC PERFORMANCE	0	PROD
	TOTAL	269**	
** VEHICLE FLEET MANAGEMENT	FLEET ADMINISTRATION	86	PROD
	FLEET MANAGEMENT MAINT. SCHED.	45	PROD
	OFFICE OF EQUIP PRODUCTION SYS	198	PROD
	OFFICE OF EQUIP PRODUCTION SYS	42	PROD
	OPERATING EXPENSE MONITORING	19	NEW
	OFF OF EQUIP FLEET MGMT ENHANM	20	NEW
	REVISE FLEET MANAGEMENT SYSTEM	0	NEW
	EQUIP WORK ORDER ALLTMT BY VEH	0	NEW
	COMPUTATION OF FLEET CHARG RAT	0	NEW
	EMPLOYEE PARKING	0	PROD
	AUTOMOBILE MGMTMENT SYSTEM	0	PROD
	VEH ASSIGNMENT & STORAGE REPOR	0	PROD
	MTC EQUIP & RADIO INVENTORY	0	PROD
	TOTAL	410**	
** VEHICLE FLEET MANAGEMENT	BULK FUEL	0	PROD
	TOTAL	0**	
** VEHICLE FUEL CONSUMPTION	EQUIPMENT REDESIGN	9	NEW
	TRANSPORTATION	0	PROD
** VEHICLE FUEL CONSUMPTION	VEHICLE USAGE REPORT	0**	
	TOTAL	0**	
** VEHICLE MAINTENANCE SYSTEM			
	PARKS AND RECREATION		
	TRANSPORTATION		
** VEHICLE MAINTENANCE SYSTEM			
*** OPERATIONAL ASSISTANCE SYSTEMS	TOTAL	7,018***	

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
ACCOUNTING & FINANCIAL SYSTEMS		
ACCOUNTING - EDIT AND DATA BASE PREPARATION		
TRANSPORTATION		
ACCTG. EDITS & DATA BASE PREP	360	PROD
MAINT. ACCTG. EDITS & DATA BASE	170	PROD
PROJECT MASTER FILE (PMF)	6	PROD
ACCOUNTING BATCH PROCESS	2	PROD
ACCOUNTING PRE-EDIT	0	PROD
TOTAL	538**	
** ACCOUNTING - EDIT AND DATA BASE PREPARATION		
ACCOUNTING - FISCAL AND BUDGETING		
EDUCATION		
FINANCE		
HIGHWAY PATROL		
PARKS AND RECREATION		
PERSONNEL BOARD		
TEALE DATA CENTER		
TRANSPORTATION		
VOCATIONAL EDUCATION	147	PROD
FISCAL SYSTEMS OPERATIONS (ABS)	0	PROD
BUDGET OPERATIONS	170	PROD
DISTRIBUTION OF PERSONNEL SERV	2	PROD
BUDGET CROSSOVER	1	PROD
SCHEDULE 2 UPDATE	0	PROD
PROPERTY ACCOUNTING	0	PROD
BUDGETING	0	PROD
BUDGET CALLOT/EXPENDITURE LEDG	4	PROD
ACCOUNTING	0	PROD
OVERHAUL PRORATION SYSTEM	42	NEW
SIGNAL & LIGHTING BILL. SYSTEM	6	NEW
NEW ACCOUNTING SYSTEMS STUDY	0	NEW
ADMIN. MANAGEMENT SYSTEM	2	NEW
MCKINSEY & CO STUDY	82	NEW
ON-LINE BDGT. COST & DISPLAY	30	NEW
MONITORING SYSTEM REPORTS	6	NEW
COMPUTERIZE YEAR-END CLOSING	28	NEW
LAB. MAT. & RESEARCH	26	PROD
MONTHLY & ANNUAL FINANCIAL RE-	322	PROD
MAINT. MONTHLY & ANNUAL REPORT	21	PROD
MAINTAIN "FINPLAN"	8	NEW
LEGISLATIVE BUDGETING SYSTEM	521	PROD
ANNUAL REPORTS (78-79 FY)	14	PROD
AMS EXPENDITURES	0	PROD
COST ACCOUNTING SYSTEM	365	PROD
BUDGET DEVELOPMENT SYSTEM	9	PROD
BUDGET DEVELOPMENT SYSTEMS	14	PROD
COST RDTG & DATA COLLECT CR/DC	31	PROD
GROSS SALARY REPORT SYSTEM	0	NEW
TOTAL	1,851**	
EMPLOYMENT DEV		
REHABILITATION		
DEPARTMENT OF MENTAL HEALTH		
MOTOR VEHICLES		
** ACCOUNTING - FISCAL AND BUDGETING		
ACCOUNTING - DEPARTMENTAL FINANCIAL		
FORESTRY		
GENERAL SERVICES		
PARKS AND RECREATION		
TRANSPORTATION		
PAYROLL DISTRIBUTION	25	PROD
MANAGEMENT SERVICES	240	PROD
MISC ACCOUNTING	0	PROD
CASHIERING	0	PROD
EXPENDITURE ANALYSIS	0	PROD
OFFICE OF EQUIP PRODUCTION SYS	64	PROD

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
ACCOUNTING & FINANCIAL SYSTEMS ACCOUNTING - DEPARTMENTAL FINANCIAL		
CONTINUED		
TREASURER	14	NEW
WATER RESOURCES	2	PROD
REHABILITATION	112	PROD
SOCIAL SERVICES	20	PROD
DEPARTMENT OF HEALTH SERVICES	21	PROD
ACCOUNTING - DEPARTMENTAL FINANCIAL	311	PROD
**	286	NEW
	1,095**	
ACCOUNTING - FUND CONTROLLER DEPARTMENT OF DEVELOPMENTAL SERVICES	380	PROD
**	2	PROD
ACCOUNTING - FUND	382**	
ACCOUNTING - MORTGAGE LOAN VETERANS AFFAIRS		
**	235	PROD
ACCOUNTING - MORTGAGE LOAN	235**	
ACCOUNTING - PROGRAM COST AND BUDGETING FORESTRY PERSONNEL BOARD TRANSPORTATION		
ALLOTMENT EXPENDITURE	75	PROD
COST ACCOUNTING	10	PROD
MAT. MGMT. SYST. ACCT. SURSYST	30	PROD
RIGHT OF WAY CAPITAL PROG. SYS	14	PROD
BUDGET MANAGEMENT REPORTS	0	PROD
ACCOUNTING	0	PROD
ACCOUNTING	0	PROD
SPENDING PLAN-BUDGET	0	PROD
RUDGET PREPARATION	0	PROD
REPORT OF MAN YEARS WORKED	0	PROD
EXPENDITURE MONITORING	3	PROD
PERSONNEL EXPENDITURE MONITORING	0	PROD
CORRECTION FOR EAS NOT MAS FIL	4	PROD
TRAFFIC SIGNAL COSTS REPORT	0	PROD
AUTOMATED RUDGET SYSTEM	11	PROD
PROGRAM COST REPORT SYSTEM	13	PROD
CASE SERVICE BILL SYSTEM	74	PROD
CASE SERVICE BILL SYSTEM	21	PROD
CCH-CONTRACT COUNTIES ENV HLTH	7	PROD
FPR FAMILY PLANNING REPORT SYS	58	PROD
RUDGFT CONTROL SYSTEM	8	PROD
TOTAL	328**	
DEPARTMENT TIME REPT/CTS ACT SY	11	PROD
FISCAL SYSTEMS OPERATIONS(PCA)	147	PROD

GENERIC TYPE REPORT

TOTAL COST (X 1000)	USE
9	PROD
2	PROD
22	PROD
1	PROD
78	PROD
8	PROD
0	PROD
3	PROD
0	PROD
12	PROD
5	PROD
298**	

ACCOUNTING & FINANCIAL SYSTEMS
ACCOUNTING - PROGRAM COST/TIME REPORTING

CONTINUED

STATE POLICE	CONTINUED
ADMIN HEARING FUNCTIONAL TIME	
DGS BLDGS AND GROUNDS COST ACC	
DGS LOCAL ASST FUNCTIONAL TIME	
TIME AND COST ACCOUNTING SYSTEM	
REPRODUCT. SERV. SUSP. ACCT.	
STAFF TIME SHEET SUMMARY	
BULK FUEL ACCOUNTING SYSTEM	
TRANS PLANNING CHRGS-OTHR DIST	
COST AND BILLING	
COST AND BILLING	
TOTAL	

DEPARTMENT OF MENTAL HEALTH
DEPARTMENT OF DEVELOPMENTAL SERVICES
ACCOUNTING - PROGRAM COST/TIME REPORTING

INHERITANCE AND GIFT TAX ACCTG	128	PROD
FEDERAL & STATE INCOME TAX-EFF	17	PROD
SOCIAL SECURITY	17	PROD
EMPLOYER ADDRESS INQUIRY	386	PROD
EMPLOYER ACCOUNTING	449	PROD
PROOF OF CREDIT	26	PROD
EXPERIENCE RATINGS	30	PROD
EMPLOYER RULINGS	48	PROD
FRANCHISE TAX TAPES	15	PROD
DI ELECTIVE COVERAGE ACCOUNT.	106	PROD
AIRCRAFT	22	PROD
AIRCRAFT & VESSELS	0	PROD
AUDIT CELL ANALYSIS	1	PROD
AUDIT SELECTION	13	PROD
AUDIT STATISTICS	19	PROD
BEVERAGE TAX	86	PROD
CIGARETTE TAX	15	PROD
SAMPLE SELECTION	30	PROD
TIMBER TAX	17	PROD
PIT--AUDIT	0	PROD
PIT--SELF ASSESSMENT	0	PROD
PIT--FILING ENFORCEMENT	0	PROD
PIT--RESEARCH & STATISTICS	0	PROD
BCT--ACCOUNTS RECEIVABLE	0	PROD
BCT-AUDIT ACTIVITIES	0	PROD
BCT-FILING ENFORCEMENT	0	NEW
BCT-RESEARCH & STATISTICS	0	PROD
SCTA-CLAIM PROCESSING	0	PROD
SCTA-AUDIT ACTIVITIES	0	PROD
SCTA-PFSEARCH & STATISTICS	0	PROD
TOTAL	1,434**	

EQUALIZATION

FRANCHISE TAX

ACCOUNTING - TAX

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
CONTINUED		
ACCOUNTING & FINANCIAL SYSTEMS		
ACCOUNTING - ENCUMBRANCE		
HIGHWAY PATROL	24	PROD
TEALE DATA CENTER	0	PROD
REHABILITATION	99	PROD
** ACCOUNTING - ENCUMBRANCE	21	PROD
TOTAL	144**	
ACCOUNTS PAYABLE		
EDUCATION	146	PROD
TEALE DATA CENTER	8	PROD
TRANSPORTATION	0	PROD
** ACCOUNTS PAYABLE	0	PROD
TOTAL	154	
ACCOUNTS RECEIVABLE		
TEALE DATA CENTER	0	PROD
TRANSPORTATION	11	PROD
** ACCOUNTS RECEIVABLE	11	PROD
TOTAL	25	
DEPARTMENT OF HEALTH SERVICES		
EQUALIZATION	3	NEW
FRANCHISE TAX	0	PROD
** ACCOUNTS RECEIVABLE	4	PROD
TOTAL	7	
BANK/FINANCIAL RECONCILIATION		
FORESTRY	0	PROD
TEACHERS RETIREMENT SYS	10	PROD
TREASURER	0	NEW
MOTOR VEHICLES	330	PROD
** BANK/FINANCIAL RECONCILIATION	0	PROD
TOTAL	340	
CHILD NUTRITION SERVICE BUREAU		
CHILD NUTRITION SERVICES BUREAU	146	PROD
ACCOUNT PAYABLE	8	PROD
ACCOUNTING DOCUMENTS	0	PROD
TRIAL BALANCE	0	PROD
EQUIPMENT ACCOUNTS PAYABLE	19	NEW
UTILITY BILLING SYSTEM	14	PROD
UTILITY BILLING	1	PROD
REGISTER OF INVOICES	4	PROD
UTILITY BILLING	5	PROD
** TOTAL	197**	
ACCOUNT RECEIVABLE		
REGISTER OF INVOICES	0	PROD
ACCTS 81 82 AND 84 CASH SYSTEM	0	PROD
DFM616 BUDGET REPORTS	11	PROD
TOLL BRIDGE ACCOUNTS RECEIVABL	25	PROD
ACCTS RECEIVABLE BILL CHECK	3	NEW
ACCT RECEIVABLE	0	PROD
ACCTS RECEIVABLE SYSTEM	4	PROD
CCI-CA CORRECTIONAL INDUSTRIES	0	PROD
CASUALTY/COMPLIANCE A/R	10	PROD
ACCOUNTS RECEIVABLE	0	NEW
PETITIONS AND REFUNDS	330	PROD
PIT--ACCOUNTS RECEIVABLE	0	PROD
** TOTAL	383**	
OUTSTANDING CHECK LISTING		
INVESTMENT ACCOUNTING SYSTEM	7	PROD
INVESTMENT ACCOUNTING SYSTEM	36	PROD
CTS BANK RECONCILIATION	0	NEW
BANK DEPOSIT RECONCILIATION	930	PROD
BANK RECONCILIATION	39	PROD
** TOTAL	1,012**	

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

		TOTAL COST (X 1000)	USE
ACCOUNTING & FINANCIAL SYSTEMS			
CONTINUED			
**	BOND AND COUPON RECONCILIATION TREASURER	14	PROD
**	BOND AND COUPON RECONCILIATION TOTAL	14**	
	CASH/FUNDS RECEIPT AND APPLICATION PUB EMPL RET SYS EQUALIZATION	14	PROD
	MOTOR VEHICLES	37	PROD
**	CASH/FUNDS RECEIPT AND APPLICATION FINANCIAL FORECAST CONTROLLER FINANCE DEPARTMENT OF HEALTH SERVICES	39	PROD
**	FINANCIAL FORECAST	461	PROD
**	FUND APPORTIONMENT EDUCATION	64	PROD
**	FUND APPORTIONMENT ALCOHOL AND DRUG ABUSE DEPARTMENT OF MENTAL HEALTH FOOD AND AGRICULTURE	0	PROD
**	FUND APPORTIONMENT INVESTMENT PORTFOLIO MANAGEMENT PUB EMPL RET SYS TREASURER	0	PROD
**	FUND APPORTIONMENT INVESTMENT PORTFOLIO MANAGEMENT OVERHEAD ALLOCATION TEALE DATA CENTER TRANSPORTATION	615**	
**	OVERHEAD ALLOCATION	259	PROD
**	OVERHEAD ALLOCATION	42	PROD
**	OVERHEAD ALLOCATION	26	NEW
**	OVERHEAD ALLOCATION	170	NEW
**	OVERHEAD ALLOCATION	4	NEW
**	OVERHEAD ALLOCATION	501**	
**	BOND AND COUPON RECONCILIATION TOTAL	320	PROD
**	BOND AND COUPON RECONCILIATION TOTAL	19	PROD
**	BOND AND COUPON RECONCILIATION TOTAL	2	PROD
**	BOND AND COUPON RECONCILIATION TOTAL	6	PROD
**	BOND AND COUPON RECONCILIATION TOTAL	80	PROD
**	BOND AND COUPON RECONCILIATION TOTAL	427**	
**	INVESTMENTS INVESTMENT INFORMATION SYSTEM TOTAL	50	PROD
**	INVESTMENTS INVESTMENT INFORMATION SYSTEM TOTAL	5	
**	INVESTMENTS INVESTMENT INFORMATION SYSTEM TOTAL	55**	
**	BILLING SYSTEM OVERHEAD RATE CARPOOL CARTAG SYSTEM TOTAL	0	NEW
**	BILLING SYSTEM OVERHEAD RATE CARPOOL CARTAG SYSTEM TOTAL	16	NEW
**	BILLING SYSTEM OVERHEAD RATE CARPOOL CARTAG SYSTEM TOTAL	0	PROD
**	BILLING SYSTEM OVERHEAD RATE CARPOOL CARTAG SYSTEM TOTAL	16**	

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

ACCOUNTING & FINANCIAL SYSTEMS CONTINUED

**	PAYMENT/EXPENSE DISTRIBUTION MOTOR VEHICLES				
**	PAYMENT/EXPENSE DISTRIBUTION				
	PROGRAM REIMBURSEMENT - FEDERAL AND STATE				
	HIGHWAY PATROL				
	TRANSPORTATION				
	WATER RESOURCES				
	SOCIAL SERVICES				
	STUDENT AID COMM				
**	PROGRAM REIMBURSEMENT - FEDERAL AND STATE				
	PROJECT MANAGEMENT AND BUDGETTING				
	EDUCATION				
	HIGHWAY PATROL				
	TRANSPORTATION				
**	PROJECT MANAGEMENT AND RUDGETING				
	PROJECT MANAGEMENT, COSTING AND BILLING				
	TRANSPORTATION				
	WATER RESOURCES				
	DEPARTMENT OF HEALTH SERVICES				
**	PROJECT MANAGEMENT, COSTING AND BILLING				
	DEPT ACCTG EXPENDITURE REPORT				
	TOTAL				
	CHP 431 OVERTIME GRANTS				
	INTERSTATE COST EST. SYS.-PROD				
	UTILITY COST ACCOUNTING SYSTEM				
	FINANCIAL ACCOUNTING EXCHANGE				
	SCHOLARSHIP NEW APPLICANT				
	SCHOLARSHIP RENEWAL				
	COLLEGE OPPORTUNITY GRANT				
	OCCUP EDUCATION & TRAINING GNT				
	PAYMENT SYSTEM				
	TOTAL				
	VOC EDUC FIELD OPERATIONS				
	DATA PROCESSING OPERATING EXP				
	SUPPORT SERV (MISC) RATCH				
	MAC BUDGET MONITOR. SYST.				
	TEALE DATA CENTER NEEDS STUDY				
	NEEDS STUDY				
	BID OPENING				
	RIGHT OF WAY SUPPORT PROG.MGMT				
	RIGHT OF WAY EXCESS LANDS SYST				
	RIGHT OF WAY MGMT. SYST. DEVEL				
	EQUIP WORK ORDERS MGMT REP SYS				
	DISTRICT 01 PILOT BUDGET				
	ADMINISTRATIVE REPORTS				
	STAFF AND MAINT MAN-YR SYSTEM				
	ACCOUNTING OPEA WORKOVOR LIST				
	DISTRICT RELOCATION ASSIST PGM				
	MAINTENANCE MANAGEMENT				
	DISTRICT MANAGEMENT INFORMATION				
	TOTAL				
**	DIST EDP UNIT BILLING				
	UTILITY BILLING				
	CSO MANAGEMENT SYSTEMS				
**	FPS-FAMILY PLANNING SYSTEM				
	TOTAL				

GENERIC TYPE REPORT

TOTAL
COST
(X 1000) USE

ACCOUNTING & FINANCIAL SYSTEMS CONTINUED

PROJECT PROGRESS PAYMENT CALCULATION TRANSPORTATION	159	PROD
PROGRESS PAY (MAINT)	77	NEW
PROGRESS PAY DEVELOPMENT	0	PROD
WORKING DAYS CALENDAR TOTAL	236**	
** PROJECT PROGRESS PAYMENT CALCULATION		
PROPERTY INVENTORY (FIXED ASSET ACCOUNTING) CONTROLLER	261	PROD
FORESTRY	27	PROD
GENERAL SERVICES	2	PROD
HIGHWAY PATROL	8	PROD
PARKS AND RECREATION	7	PROD
TEALE DATA CENTER	0	NEW
TRANSPORTATION	0	PROD
WATER RESOURCES	0	PROD
DEPARTMENT OF DEVELOPMENTAL SERVICES	0	PROD
** PROPERTY INVENTORY (FIXED ASSET ACCOUNTING)	0	PROD
VOUCHERS PAYABLE/RECONCILEMENT	0	PROD
DEPARTMENT OF HEALTH SERVICES	0	PROD
** VOUCHERS PAYABLE/RECONCILEMENT	0	PROD
*** ACCOUNTING & FINANCIAL SYSTEMS		
UNCLAIMED PROPERTY ACCT SYSTEM	261	PROD
PROPERTY	27	PROD
REI REAL ESTATE	2	PROD
SPACE MGMT SPACE INVENTORY	8	PROD
CHP PROPERTY INVENTORY	7	PROD
ARTIFACTS INV	0	NEW
ACCOUNTING	0	PROD
STATE FURNISHED MATERIALS	0	PROD
NON-EXPENDABLE INVENTORY	0	PROD
R/W RENTAL SYSTEM	0	PROD
MAJOR EQUIPMENT REPORT	0	PROD
EQUIPMENT ACCOUNTING SYSTEM	14	PROD
PROPERTY EQUIPMENT INVENT HOSP	9	PROD
PROPERTY EQUIPMENT INVENT HOSP	0	PROD
TOTAL	328**	
** AVP-WIC AUTHORIZED VENDOR PROJ		
TOTAL	175	NEW
TOTAL	175**	
*** ACCOUNTING & FINANCIAL SYSTEMS		
TOTAL	11,391***	

GENERIC TYPE REPORT

	TOTAL COST (X 1000)	USE
OTHER SYSTEMS		
ACTUARIAL		
PUB EMPL RET SYS	204	PROD
TEACHERS RETIREMENT SYS	25	PROD
** ACTUARIAL	8	NEW
	237**	
CARPOOL PROCESSING		
TRANSPORTATION		
CARPOOL PROCESSING	20	PROD
MATCHING SYSTEM	3	PROD
COMPUTER CARPOOL SYST	20	PROD
TOTAL	43**	
** CARPOOL PROCESSING		
DEMOCRAPHIC DISTRIBUTION		
FINANCE		
ALCOHOL AND DRUG ABUSE		
POPULATION RESEARCH	127	PROD
DRUNK DRIVING CONVICTIONS	1	PROD
FOLLOW-UP PROJECT	4	PROD
DRINKING DRIVER PROGRAM	13	NEW
MANAGEMENT INFORMATION SYSTEM	13	PROD
ALCOHOL RELATED ARRESTS	3	PROD
TOTAL	161**	
** DEMOCRAPHIC DISTRIBUTION		
ELECTIONS		
SECRETARY OF STATE		
SEMI-OFFICIAL CANVASS	45	PROD
MEDIA EQUIPMENT	27	
TOTAL	72**	
** ELECTIONS		
FHWA		
TRANSPORTATION		
PRODUCTION OF FEDERAL BILL	33	PROD
MAINT. FED. CURRENT BILL. SYST	30	PROD
FEDERAL AID REPORTS	36	PROD
TOTAL	99**	
** FHWA		
MISCELLANEOUS TAXABLE PROPERTY REPORTING		
MOTOR VEHICLES		
HOUSE TRAILER PROCESS	0	PROD
CO ASSESSOR SPECIAL VEHICLE	0	NEW
TOTAL	0**	
** MISCELLANEOUS TAXABLE PROPERTY REPORTING		
MISCELLANEOUS PRODUCTION MAINTENANCE		
HIGHWAY PATROL		
DATA GUIDANCE (TSO)	18	
LISTING OF SCHEDULED JOBS	27	
SUPPORT SERV (MISC) TSO	1	PROD
TOTAL	55**	
** MISCELLANEOUS PRODUCTION MAINTENANCE		
*** OTHER SYSTEMS		
TOTAL	667***	

cc: Members of the Legislature
Office of the Governor
Office of the Lieutenant Governor
Secretary of State
State Controller
State Treasurer
Legislative Analyst
Director of Finance
Assembly Office of Research
Senate Office of Research
Assembly Majority/Minority Consultants
Senate Majority/Minority Consultants
California State Department Heads
Capitol Press Corps



