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ECONOMIC AND EFFICIENT USE OF AUTOMATIC DATA PROCESSING EQUIPMENT

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HEARING

BEFORE A

SUBCOMMITTEE OF THE COMMITTEE ON GOVERNMENT OPERATIONS HOUSE OF REPRESENTATIVES

EIGHTY-EIGHTH CONGRESS

FIRST SESSION

ON

H.R. 5171

A BILL TO AUTHORIZE THE ADMINISTRATOR OF THE GENERAL SERVICES ADMINISTRATION TO COORDINATE AND OTHERWISE PROVIDE FOR THE ECONOMIC AND EFFICIENT PURCHASE, LEASE, MAINTENANCE, OPERATION, AND UTILIZATION OF ELECTRONIC DATA PROCESSING EQUIPMENT BY FEDERAL DEPARTMENTS AND AGENCIES

MAY 28, 1963

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ECONOMIC AND EFFICIENT USE OF AUTOMATIC DATA PROCESSING EQUIPMENT

Authorizing the Administrator of the General Services Administration To Coordinate and Otherwise Provide for the Economic and Efficient Purchase, Lease, Maintenance, Operation, and Utilization of Electronic Data Processing Equipment by Federal Departments and Agencies

(H.R. 5171)

TUESDAY, MAY 28, 1963

HOUSE OF REPRESENTATIVES,
GOVERNMENT ACTIVITIES SUBCOMMITTEE,
OF THE COMMITTEE ON GOVERNMENT OPERATIONS,
Washington, D.C.

The subcommittee met, pursuant to notice, at 10:15 a.m. in room H–329, the Capitol, Hon. Jack Brooks (chairman of the subcommittee) presiding.

Present: Representatives Jack Brooks, William S. Moorehead, Benjamin S. Rosenthal, and Bill Stinson.

Staff present: Ernest C. Baynard, staff administrator; Daniel L. Power, counsel, and Irma Reel, clerk.

Mr. BROOKS. The subcommittee will come to order.

The Government Activities Subcommittee, having been duly organized under the rules of the House of Representatives, and a quorum being present for the purpose of taking testimony and receiving evidence, the meeting is hereby called to order.

The purpose of the meeting this morning is to hear testimony on H.R. 5171, a bill to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies.

The purposes of H.R. 5171 are specific and direct. First, enactment of this measure will provide the necessary organization and authority for the centralized, coordinated management of automatic data processing equipment acquisition and utilization on a Government-wide basis. Second, through the use of this organization and authority as provided in H.R. 5171, more than $100 million a year in sound, accountable, direct savings can be realized to the obvious benefit and appreciation of the Nation's taxpayers.

The provisions of H.R. 5171, its purpose, and potential effect, stem from a recent report of the Comptroller General and the continuing interest of this subcommittee in getting a full dollar's worth of efficient, responsive Government for every tax dollar paid. In his report the Comptroller General emphasized in the strongest terms the need for centralized management, acquisition, and utilization of this costly but highly useful data processing equipment. He authoritatively outlined the cash savings which can result from such a program. In this report, submitted to Congress in March of this year, the Comptroller General advised, and I quote:

> Our study shows that very substantial amounts of money could be saved if the Federal Government purchased more of its data processing equipment needs. The detailed cost comparisons of 16 different electronic machine models, which constituted the principal part of our study, indicate potential savings of about $148 million over a 5-year period. These significant possible savings apply to only 523 of approximately 1,000 electronic data processing systems installed or planned for installation on a lease basic by June 30, 1963. For additional use of the 523 machines after 5 years, there would be further savings at the rate of over $100 million annually.

The Comptroller General continued by saying that:

> Decisions as to the financial advantages of purchasing will have to be made from the standpoint of the Government as a whole, and not primarily from the standpoint of individual using agencies as has been the practice in the past. In addition, more attention needs to be given to obtaining more complete utilization of the equipment acquired. We believe that the only practicable way in which the kind of coordinated management can be practiced to achieve the possible financial savings cited is through the establishment of a small, highly placed central management office in the executive branch of the Government.

The record of the House of Representatives in effecting responsible savings in expenditures and providing for increased economy and efficiency in Government is a commendable one. And, I believe, the contribution to these efforts of this subcommittee and the Government Operations Committee as a whole has been significant over the years.

Among the specific responsibilities of this committee is the obligation to receive and examine reports of the Comptroller General of the United States and of submitting such recommendations to the House as may be deemed necessary. H.R. 5171 constitutes such a recommendation. Following review of this measure, the Comptroller General, speaking for the General Accounting Office, in a letter dated May 15, 1963, advised that—

> We believe enactment of the bill would be in the best interest of the Government and will result in considerably more economical procurement and utilization of electronic data processing equipment.

According to the provisions of H.R. 5171, the General Services Administration is charged with the managing of automatic data processing equipment. This authority, of course, is to be exercised under the existing authority of the Bureau of the Budget in its exercise of comprehensive budgetary and policy control.

The GSA, as an operating agency of the executive, has been given the responsibility for assigning, regulating, or performing for executive agencies, as it finds advantageous in terms of economy, efficiency, or service, functions pertaining to procurement, supply and maintenance of real and personal property and nonpersonal services. The overall record of the GSA in assisting the President and the Bureau

of the Budget in bringing about more efficient and economical conduct of Government service has been an outstanding one.

As already demonstrated in actual, hard dollar savings, H.R. 5171 anticipates that the GSA also can be a valuable working tool of the Bureau of the Budget in effectively coordinating overall Government policies in regard to the procurement and utilization of exceptionally expensive automatic data processing equipment. The Bureau of the Budget, of course, will continue to exercise ultimate control for the President of the procurement and use of this equipment through its unquestioned authority in assisting the President in the preparation of the executive budget and control over the administration of the budget.

It can also be anticipated that under the coordinated management program proposed in H.R. 5171, legislative review and control of Government automatic data processing operations can be greatly improved. Comprehensive information—from one source—will be available to the substantive committees of Congress as a valuable aid to plans and programs. The Appropriations Committees will have all the facts concerning all ADP equipment readily available in determining proper funding for these important but costly installations. And, of course, effective centralization of the management of this equipment will materially assist the Government Operations Committee and the Comptroller General in our periodic review of these activities.

H.R. 5171 offers the opportunity for a comprehensive, coordinated Government-wide ADP program which can be reflected into improved governmental services to the American public. It is vitally important that the authority outlined in this proposal, which will have such a beneficial impact upon the internal management of governmental affairs, be approved without delay. Equally important, the American taxpayers can justifiably view with great impatience any delays postponing the day when savings amounting to more than $100 million a year can begin to accrue to their benefit.

(H.R. 5171 follows:)

[H.R. 5171, 88th Cong., 1st sess.]

A BILL To authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That title I of the Federal Property and Administrative Services Act of 1949 (63 Stat. 377), as amended, is hereby amended by adding a new section to read as follows:

"SEC. 111. The Administrator is authorized and directed to coordinate and control the purchase, lease, maintenance, and use of electronic data processing equipment by Federal agencies, and to operate or provide for the operation by delegation of authority or otherwise, of such equipment. Electronic data processing equipment suitable for efficient and effective use by Federal agencies shall be provided by the Administrator through purchase, lease, transfer of equipment from other Federal agencies, or otherwise and the Administrator is authorized and directed to provide by contract or otherwise for the maintenance and repair of such equipment. In carrying out his responsibilities under this section the Administrator is authorized to transfer electronic data processing equipment between Federal agencies, to require joint utilization of such equipment by two or more Federal agencies, and to establish equipment pools and data processing centers for such joint use when necessary for its

most efficient and effective utilization: *Provided*, That the Administrator, in his discretion, may delegate authority to lease, purchase, maintain, or operate (1) general classes of equipment, (2) equipment of special design needed to fulfill some unique requirement or special purpose of a particular Federal agency, and (3) equipment necessary for national defense and security.

"There is hereby authorized to be established on the books of the Treasury, an electronic data processing fund, which shall be available without fiscal year limitation for expenses, including personal services, other costs, and the procurement by lease, purchase, transfer, or otherwise of equipment, maintenance and repair of such equipment by contract or otherwise, necessary for the efficient coordination, operation, utilization of such equipment by and for Federal agencies.

"There are authorized to be appropriated to said fund such sums as may be required which, together with the value, as determined by the Administrator, of supplies and equipment from time to time transferred to the Administrator, less any liabilities assumed, shall constitute the capital of the fund: *Provided*, That said fund shall be credited with (1) advances and reimbursements from available appropriations and funds of any agency (including the General Services Administration), organization, or persons utilizing such equipment and services rendered them, at rates determined by the Administrator to approximate the costs thereof met by the fund (including depreciation of equipment, provision for accrued leave, and where appropriate, for terminal liability charges and for amortization of installation costs, but excluding, in the determination of rates prior to the fiscal year 1966, such direct operating expenses as may be directly appropriated for, which expenses may be charged to the fund and covered by advances or reimbursements from such direct appropriations) and (2) refunds or recoveries resulting from operations of the fund, including the net proceeds of disposal of excess or surplus personal property and receipts from carriers and others for loss of or damage to property: *Provided further*, That following the close of each fiscal year any net income, after making provisions for prior year losses, if any, shall be transferred to the Treasury of the United States as miscellaneous receipts."

Mr. BROOKS. As our first witness today, we have the honor of having with us the Honorable Joseph Campbell, the Comptroller General of the United States. Aside from an eminently successful career in business and in his profession, the Comptroller General has an illustrious record of public service. He has served as vice president and treasurer of Columbia University and subsequently was a member of the U.S. Atomic Energy Commission. In December 1954 he was appointed the Comptroller General for a term of 15 years.

Before hearing from the Comptroller General, I would like to add that in making recommendations relating to the utilization of ADP equipment, the Comptroller General practices what he preaches.

An impressive example of efficient acquisition and utilization of ADP equipment can be found in the General Accounting Office building. Following a long-range study in coordination with the Treasury Department, the Comptroller General has established an ADP system in cooperation with Treasury for the auditing and reconciliation of Government checks. Under this program, Treasury and the General Accounting Office auditing requirements have been carefully coordinated and the awesome task of balancing the Federal Government's checkbook has been effectively and efficiently resolved.

I might add that the Comptroller General's office commented as recently as yesterday that the Treasury Department anticipates processing 460 million checks annually. It may run eventually to 484 million. These are numbers of individual checks.

Also, using this same equipment, post office money orders are audited. And, furthermore, the equipment is made available to

other departments, such as Agriculture and Labor, to provide for its most efficient utilization on a Government-wide basis.

Mr. Campbell, it is a pleasure to welcome you and to have this opportunity for obtaining an expression of your recommendations on H.R. 5171.

STATEMENT OF HON. JOSEPH CAMPBELL, COMPTROLLER GENERAL OF THE UNITED STATES; ACCOMPANIED BY EDWARD J. MAHONEY, ASSOCIATE DIRECTOR, ACCOUNTING AND AUDITING POLICY STAFF; AND JOHN W. MOORE, ATTORNEY, OFFICE OF THE GENERAL COUNSEL

Mr. CAMPBELL. Thank you. Mr. Chairman and members of the subcommittee, at your request we appear before you today to present our views on H.R. 5171, a bill to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies.

In view of the extremely significant possible savings and of the great need for central coordination over procurement and utilization of this costly equipment, we favor enactment of the proposed legislation subject to the changes suggested to the chairman of the Government Operations Committee in our letter of May 15, 1963.

As you know, in recent years there has been a very sizable increase in the use of automatic data processing equipment in the Federal Government. Also, costs related to data procesing equipment programs have increased greatly in the past 3 or 4 years. For example, according to the Bureau of the Budget's inventory report of such equipment in the Federal Government, at the end of fiscal year 1959, 414 computer systems were installed in Federal agencies at an annual cost of $250 million. By June 30, 1963, it is estimated that there will be 1,169 computer systems installed at an annual cost of $568 million. Total Federal Government costs for data processing equipment for fiscal year 1963, including costs for punched card equipment, will amount to $688 million. These costs are exclusive of amounts for equipment installed for military tactical operations, intelligence, surveillance systems, and certain other classified activities of the Government.

Over the past several years our Office has made a number of studies in the automatic data processing field throughout the Federal Government so as to enable us to report to the Congress on the trend of development and use of these systems in Government operations generally. Our first Government-wide review was completed in 1958 and a special report, which summarized the results of our study, was submitted to the Congress on June 27, 1958. Our second overall report on this subject was completed in 1960 and a report entitled "Review of Automatic Data Processing Developments in the Federal Government" was submitted to the Congress on December 30, 1960.

These two reports were prepared for the express purpose of advising the Congress of the trend of development of this rapidly expanding field. Also, as a result of our regular accounting and auditing

work in the agencies, we have issued a number of audit reports to the Congress and to agency officials covering specific aspects of ADP operations.

In our December 1960 report to the Congress, we stated that:

> Generally, the practice of each Government agency is to procure equipment for its own needs (on either a purchase or a rental basis) and to trade in purchased equipment or exchange older rented equipment for newer models in accordance with its own particular needs. Possible needs of other agencies for the traded-in or exchanged equipment are generally not considered. However, it is possible that such equipment can be used to serve the needs of other Government agencies.
>
> At least one major equipment supplier offers terms under which used equipment can be purchased at a reduced price depending on the period of time the equipment has been in use. However, we believe that a Government-wide approach is needed to determine which machines should be purchased at the reduced prices and retained for Government use in lieu of new procurement. Likewise, before trading in purchased equipment which is no longer suitable for the original using organization, efforts should be made to determine the possibility of transferring the purchased equipment to other Government organizations requiring such equipment in lieu of new procurement.
>
> We believe that a mechanism should be established in the Government to provide the necessary arrangements whereby the procurement and transfer of data processing equipment between Government activities would be fully coordinated so as to keep costs as low as possible, consistent with obtaining needed processing facilities.

Because of lack of executive branch action on this suggestion, congressional interest in the subject, and the increase in costs associated with the use of ADP equipment in Federal operations, we made a comprehensive study of the relative merits of purchasing verus leasing of data processing equipment. Our report of this study, entitled "Financial Advantages of Purching Over Leasing of Electronic Data Processing Equipment in the Federal Government," was submitted to the Congress on March 6, 1963. A copy of this report was sent at that time to the chairman of this subcommittee.

In this report we pointed out that the cost comparisons made in our study demonstrated that very substantial amounts of money could be saved by the Government in the years to come if, in acquiring the use of needed data processing equipment, proper cost comparisons were made in advance, action were taken to purchase equipment when such comparisons indicated the financial advantages of such actions, and effective procedures were established to obtain the fullest practicable utilization of such equipment by Government agencies.

The cost comparisons with respect to the 16 machine models studied during our review indicate potential savings of approximately $148 million over a 5-year period. The 16 models used for our study represent 523 of the approximately 1,000 electronic data processing systems installed or planned for installation on a lease basis by June 30, 1963. For additional use of the 523 machines after 5 years, there would be further savings at the rate of over $100 million annually.

We further pointed out that with the present system of decentralized management in the Federal Government under which each agency makes its own decisions as to whether data processing equipment should be acquired by lease or purchase, there is no effective coordinating machinery to work to give consideration to these alternatives from the standpoint of benefit to the Government as a whole. Because of the very substantial financial savings that can be realized through

more extensive purchasing of such equipment and the related need for directing and coordinating its utilization throughout the Government, we recommended that the President of the United States establish in his organization a central management office suitably empowered with responsibility and authority to make decisions on the procurement and utilization of data processing equipment with the objective of obtaining and utilizing all needed facilities at least cost to the Government. Our report expressed the conviction that the establishment of a central management office for this function is the only practicable way to provide the kind of management that will make possible the realization of savings of hundreds of millions of dollars in the years to come. However, we recognize that there are various ways in which central control can be exercised over the procurment and utilization of this type of equipment. H.R. 5171 provides such an alternate method. We are not opposed to the method set forth in H.R. 5171; however, we feel that the mechanism proposed in H.R. 5171 for carrying out the detailed operations of coordination and control needs to be subject to the policy guidance and overall direction of the Office of the President.

We would like to call your attention to the fact that the study which formed the basis of our March 1963 report related only to costs for ADP equipment operated by Government agencies. It did not extend into costs incurred for equipment operated by Government contractors performing under negotiated contracts.

Although there is no comprehensive inventory of such equipment available, we believe, based on the preliminary work that we have done to date in this area in defense, space, and other Government programs where this equipment is extensively used, that the general practice is to lease rather than to purchase such equipment. It is very likely that total savings available through use of Government-owned, contractor-operated equipment would greatly exceed the savings indicated in our March report on agency-operated equipment. We therefore believe that, to the maximum extent practicable, data processing equipment or systems required by contractors in the performance of negotiated contracts with the Federal agencies where the whole or a substantial part of the cost of such equipment or systems would become a part of Government contract prices should be furnished by the Government with title or leasehold interest remaining in the Government subject substantially to the same laws and regulations applicable to in-house Government equipment. Thus, the committee may wish to consider amending H.R. 5171 to incorporate such a requirement.

Mr. Chairman, this concludes my prepared statement. We will be glad to answer any questions you or the members of your subcommittee may have regarding our work in this area.

I have with me today Mr. Edward Mahoney, who is in charge of our ADP group, and John Moore of the office of our General Counsel, who is familiar with most of the aspects of this problem.

Mr. BROOKS. Thank you very much. I would like to submit for the appendix of our record that March 1963 report which you mentioned in conjunction with your earlier reports.

We would be pleased to have Mr. Mahoney, who is the Associate Director of accounting and auditing policy staff, respond.

Turning first to this March 1963 report, sir, you suggest that a significant saving can result from purchase rather than lease of ADP equipment needed by Federal agencies; is that correct?

Mr. CAMPBELL. Yes, sir.

POOR UTILIZATION PRACTICES OF FEDERAL AGENCIES

Mr. BROOKS. In this and other reports you pointed out that other poor ADP utilization practices exist; is that right?

Mr. CAMPBELL. Yes, sir.

Mr. BROOKS. Have you found that some agencies made overpayments under lease agreements?

Mr. CAMPBELL. Yes.

Mr. BROOKS. I am referring to your June report.

Mr. CAMPBELL. Yes, our spot reviews have indicated that, in some of the civil and defense using agencies, there had been overcharges. I think the amount was about $125,000. I think that amount has been recovered.

Also in June 1962, the Department of Defense overcharge reported was about $207,000, but these are very isolated instances and are no indication of what the total overcharges might have been.

Mr. BROOKS. But does it indicate at least $375,000 was picked up just as a result of an incidental examination and report?

Mr. CAMPBELL. Yes, sir.

Mr. BROOKS. Have agencies on occasion failed to take advantage of discount sales prices available to them?

Mr. CAMPBELL. In some instances that happened. Offers to sell equipment at discount prices—on numerous occasions agencies such as FAA and Atomic Energy Commission have not taken advantage of these opportunities to obtain discounts, even though the purchase price was highly favorable as compared to annual rentals being paid on such equipment at that time.

Mr. BROOKS. Have agencies on occasion failed to take advantage of purchase provisions in the lease contracts when equipment involved would have had some continuing value to the Federal Government?

Mr. CAMPBELL. I would like Mr. Mahoney to answer that.

Mr. MAHONEY. Yes, Mr. Chairman. In these cases, as pointed out in our report, the idea is that the equipment is generally useful for many tasks, and it is general-purpose type equipment we are talking about. This means that in the final analysis, when one agency no longer has the need, we have in the Federal Government a successively lower level of need. If you should establish this organization in GSA, they could even use some of this equipment to help manage the program you are proposing to establish. This equipment can be used for long periods of time, no question about it.

Mr. BROOKS. I place in the record at this point a list of General Accounting Office reports on ADP equipment issued to the Congress.

EXHIBIT 1.—*List of GAO reports issued to the Congress on ADP equipment*

TITLE	Date	Reference B number
Survey of Progress and Trend of Development and Use of Automatic Data Processing in Business and Management Control Systems of the Federal Government as of December 1957.	June 1958	B-115369
Review of Automatic Data Processing Installation, New Orleans Commodity Office, Commodity Stabilization Service, Department of Agriculture, October 1959.	May 1960	B-133306
Audit of Check Payment and Reconciliation Functions, Office of the Treasurer of the United States, Treasury Department, December 1959.	August 1960	B-118608
Review of Automatic Data Processing System at the Transportation Materiel Command, Department of the Army, St. Louis, Mo.	September 1960	B-125073
Review of Automatic Data Processing Developments in the Federal Government.	December 1960	B-115369
Review of Automatic Data Processing Activities at Department Headquarters and at the New York and Richmond Offices, Post Office Department, March 1961.	January 1962	B-133385
Review of Automatic Data Processing of Series E U.S. Savings Bonds, Bureau of the Public Debt (Parkersburg, W. Va.; Office), Treasury Department.	April 1962	B-133180
Review of Automatic Data Processing System Used in Supply Management by the Department of the Navy Aviation Supply Office, Philadelphia, Pa.	May 1962	B-133118
Review of Selected Aspects of Awards by General Services Administration and Administration by Certain Using Agencies of Contracts for Rental of Electronic Data Processing Equipment.	June 1962	B-146732
Review of the Administration of Contracts for Rental of Automatic Data Processing Equipment at Selected Military Installations within the Department of Defense.	do	B-146732
Review of Planning for Automatic Data Processing Equipment, Washington, D.C., Regional Office, General Services Administration, October 1961.	August 1962	B-146744
Review of Automatic Data Processing Activities at Selected Regional Offices, General Services Administration.	November 1962	B-146732
Review of Selected Automatic Data Processing Activities under Atomic Energy Commission Cost-Type Contracts with University of Chicago and Midwestern Universities Research Association.	February 1963	B-146763
Study of Financial Advantages of Purchasing over Leasing of Electronic Data Processing Equipment in the Federal Government.	March 1963	B-115369
Review of Selected Automatic Data Processing Facilities, National Bureau of Standards, Department of Commerce.	April 1963	B-114821
Review of the Excessive Cost of Leasing Compared with Buying Certain Electronic Data Processing Equipment by the Department of the Air Force.	do	B-146732
REPORTS TO CONGRESSIONAL COMMITTEES [1]		
Review of Electric Accounting Machine Reports, U.S. Army Signal Supply Agency, Philadelphia, Pa.	Mar. 4, 1960	B-115386
Review of Payroll Earning Records Produced by EDP Equipment, Mare Island Naval Shipyard, Vallejo, Calif.	Apr. 6, 1960	B-132978
Review of Certain Aspects of EDP, San Antonio Air Materiel Area, Kelly Air Force Base, Tex.	June 30, 1960	B-118734
Review of Research and Development Costs for BIZMAC, Radio Corp. of America.	do	B-133311
Lease versus Purchase of ADP Equipment (Interim Report)	Aug. 26, 1960	B-133323
Lease versus Purchase of ADP Equipment	Nov. 8, 1961	B-115386
Committee on Government Operations, House of Representatives: Review of Procurement of ADP Equipment, U.S. Army, Fort Benjamin Harrison, Ind.	Feb. 8, 1960	B-115386
Committee on Veteran's Affairs, House of Representatives: Study of Feasibility and Desirability of Merging Insurance Office, Veterans' Administration.	Aug. 8, 1962	B-133063
Select Committee on Small Business, House of Representatives: Review of Department of the Army Procurement of ADP Equipment, Fort Meade, Md.	Jan. 29, 1960	B-114859
Committee on Post Office and Civil Service, House of Representatives:		B-133270
Investigation of Allegations Pertaining to Waste and Mismanagement in the Statistical Service Operations, Warner Robins Air Materiel Area, Robins Air Force Base, Ga.	Sept. 28, 1959	B-133090
Review of ADP Installation, Geological Survey, Department of the Interior.	Dec. 15, 1959	B-133261
Review of Selection and Utilization of ADP Equipment, National Institutes of Health, Public Health Service, Department of Health, Education, and Welfare.	Jan. 29, 1960	B-133268

[1] Reports not available for general distribution without permission of the congressional committee.

POOR ADP UTILIZATION—A SERIOUS AND COSTLY PROBLEM

Mr. BROOKS. Mr. Campbell, in light of this, do you feel that these poor utilization conditions, including the question of lease-versus-purchase, could be improved by having the kind of central coordination that is provided in this bill, H.R. 5171?

Mr. CAMPBELL. We are convinced of it. We hope that this will be done. This is one of the most serious problems the Government is facing in this area.

Mr. BROOKS. I have talked with Mr. Campbell at some length about this. He casually mentioned that he had been interested in this for a long time, and with some apologies to him, I was thinking he was referring to his 1958 report. The General said, "I was thinking, Jack, of the fact that about 1928 some people had had a machine"—what was it, they were going to use it at Columbia?

Mr. CAMPBELL. That was 35 years ago, one of the early installations of this very elementary type of computing system. We have in our office a select group of people who concentrate on the whole very, very difficult problem which we are facing and which I think is understated in our report. I think the expenditures will be far greater than we indicate.

24 HOURS A DAY UTILIZATION OF ADP EQUIPMENT ESSENTIAL TO MAXIMUM EFFICIENCY

Mr. BROOKS. Do your studies indicate an advantage in terms of economy and efficiency of utilizing this ADP equipment on a round-the-clock, 24-hour basis?

Mr. CAMPBELL. This is elementary. This equipment must be used around the clock, if possible.

Mr. BROOKS. In other words, anything less than 24 hours is an hour of wasted cost?

Mr. CAMPBELL. That is correct.

INCREASING USE OF ADP EQUIPMENT IN GOVERNMENT

Mr. BROOKS. You mentioned in your statement that the number of computer systems used in the Federal Government had increased from 414 in 1959 to 1,169 in 1963. Do you expect that this rate of growth will continue as you look back over the history of ADP?

Mr. CAMPBELL. I am convinced it will increase more in a geometric progression rather than arithmetic.

Mr. BROOKS. You do not expect it to reach a plateau in the near future?

Mr. CAMPBELL. Not in the near future.

Mr. MAHONEY. For example, Mr. Chairman, we recently were requested to pass on a system for the Air Force. In this particular one instance it involves installation of 160 computers for use at the base level. This gives you an idea of the thinking that is going on.

NEED FOR LONG-RANGE PLANNING AND FACTORS INVOLVED

Mr. BROOKS. That is significant. In your Government-wide report on the development of ADP in the Federal Government you stress need

for a more positive, central planning for development of a long-range nature to promote the maximum degree of efficiency, economy, and effectiveness in the administration and management of costly ADP facilities. Would you mention some of the specific factors which should be considered in development of long-range programs for the Government in use of ADP equipment?

Mr. MAHONEY. In addition to a short comment here, I might suggest that we provide you a little more information for the record on this because we feel this is very vital to the Federal Government's planning and thinking about this whole field.

Mr. BROOKS. We would be glad to accept for this record a run-down on factors and elements in the consideration of a long-range planning program for Government ADP utilization.

Mr. MAHONEY. Just for the moment I would like to mention some of the items that were covered in a report from the Comptroller General of the United States to the Government Operations Committee, March 27, 1962. In this letter the Comptroller General pointed out the need for more positive long-range planning throughout the Government. The information on page 64 of this report briefly covers the fact that we were asking for active central coordination in the Federal Government to assure good procurement, good contract administration, the same thing we are talking about today. Also listed is the need for effective leadership in the Government to minimize wasteful duplication of effort among individual agencies where they are working on the same kind of problems. Then to be alert to the possibilities of Government-wide integration of systems between Government agencies. Also the need for compatability and coordination and interchange of data through magnetic tape means between the Government and industry, and between Government agencies. We will furnish you a more detailed statement on this.

(The material referred to follows:)

STATEMENT OF THE GENERAL ACCOUNTING OFFICE ON THE SPECIFIC FACTORS TO BE CONSIDERED IN THE DEVELOPMENT OF A MORE POSITIVE LONG-RANGE PLANNING FOR THE USE OF AUTOMATIC DATA PROCESSING EQUIPMENT IN THE FEDERAL GOVERNMENT

In view of the large expenditures involved and the long-range implications of far-reaching effect on Government operations generally, we feel that more positive long-range planning efforts on some kind of a Government-wide basis than have been had in the past need to be undertaken if the Government is to achieve most effective, efficient, and economical use of these systems.

Among the important problems that require Government-wide attention, for example, are the following:

(1) The extent to which the Government is equipped with the required know-how to proceed with the development of electronic information systems in view of the costs involved and the enormous challenge presented to all levels of management. The answer to this question should, to a considerable degree, assist in determining the rate of growth which should be allowed or fostered.

(2) The extent to which long-range planning and control should be centralized in view of the potentials for development of integrated systems on a Government-wide scale.

Active central coordination is needed to assure good procurement practices. There is also need for an effective central information service within the Government so that officials at the many locations where equipment is rented will make most effective application of the contractual terms.

Effective leadership by a central agency could minimize wasteful duplication of effort among the individual agencies. At present, there is no adequate mechanism to prevent repetitive explorations by different agencies into the same or very similar applications which have previously been developed by other agencies. An effective information exchange is needed to help each agency become aware of both the results of completed studies and the nature of current work in progress by other agencies. Many of the same basic problems exist at more than one location.

In our June 1958 report, we commented on the unnecessary expense and duplication of effort involved in multiple development of electronic systems rather than comprehensive development at a single location prior to extension of the system to other locations.

No single operating agency can be expected to plan for Government-wide integration of systems. Comprehensive planning in connection with significant jobs could readily involve the functions of more than one agency, and a central planning group could actively encourage early consideration of automatic interchange of records, development programs, and research data. A central group should be alert to the desirability of reorganizations if better data processing could be arranged through integration of systems.

Central coordination could also provide assistance with regard to the interchange of magnetic tape records between industry and Government. We feel that there is a great undeveloped potential in this area which needs to be more aggressively pursued on a coordinated Government-wide basis. Millions of transactions flow between industry operations and the Federal Government each year. Many of these transactions are initially recorded on magnetic tapes by industry for its own use. Automatic transcription and subsequent automatic processing of these transactions for Government purposes are now possible through the use of these tapes. Only limited interchange of data in this manner has been accomplished to date. Wage records are reported on tapes to the Social Security Administration by a small number of companies. Also, arrangements have been made for exchange of data on magnetic tapes between the Department of Defense and several private firms.

Through elimination of the need for manual transcriptions of detailed records with correspondingly fewer errors and lower transcription costs, potential savings in this area are large enough to warrant full exploration of the possibilities. A joint and coordinated effort in this area can significantly contribute to the development of workable programs with industry and the individual agencies to accomplish this objective.

OPPORTUNITIES OFFERED FOR DEVELOPMENT OF INTEGRATED BUSINESS SYSTEMS

An interesting and important fact is that, for the most part, electronic equipment systems are universal in nature; i.e., computers can be used to perform an almost unlimited variety of work for both scientific and business purposes. For example, electronic computing devices have played an important role in the design and development of advanced missile systems. First, it was necessary to develop electronic computers as information-processing machines to assist in the solution of problems related to development of these new weapons. Other electronic computing devices were developed for use in guidance systems and were installed as integral parts of these weapon systems. In turn, data generated by operation of the weapon system are communicated and analyzed electronically to aid in designing improved weapons. Also, feedback data are used to provide an analysis of what is needed for design of new and improved data-processing equipment.

The foregoing example of feedback of data, its use in review and analysis of results, and related use in the design of improved systems can be significantly related to other Government programs.

For example, in business-type applications, electronic systems can be designed to provide for preparation of analytical reports on data trends and relationships, rates of flow, rates of change, etc., which in turn can be useful in providing improved data-processing systems to assist in the development of more effective management control systems.

Through the use of electronic equipment, opportunities are offered for development of integrated systems which compare and analyze planning factors in relation to actual results of program operations. For example, in business systems, this would involve:

1. Integration of planning and operating data for the purpose of comparison and analysis of the results of operations with planned programs, with promptly prepared results upon completion of operations as feedback for management information and action.

2. Use of built-in analysis techniques which provide information to improve the system itself.

3. Consolidation of data files and use of management-by-exception techniques in systems where closely related processes can be combined in integrated systems.

It must be recognized, however, that the broad objectives of integrated systems must be part of a master plan in which planning for systems design is broad enough to provide for development of basic criteria for the establishment of an integrated system while at the same time providing for a gradual implementation through a time-phased program.

It must also be recognized that implementation of individual segments of systems without regard for master planning concepts can result in a serious and costly duplication of effort. The high cost of installing electronic systems, including the costs for systems design, programing, and operation, requires that the utmost care be exercised in planning for the acquisition and use of these systems. Many systems have been constantly changed at high cost because of poor initial planning or failure to plan for opportunities to integrate closely related procedures. Inadequate and poorly phased systems planning causes serious problems in the development of electronic systems.

CENTRALIZATION POSSIBILITIES

Additional centralization of Government functions appears in the offing with the possibility that new and much faster large-scale electronic computer systems will serve as central processing facilities for increasingly large segments of Government operations. In this regard, consideration of how best to use this new technology on a Government-wide basis would necessarily require extensive planning to determine the proper degree of centralization of Government ADP support operations which would provide the most effective and efficient use of Government resources and facilities. This could be involved, for example, in the question of what degree of centralization should be planned for such Government-wide functions as transportation management services, personnel and payrolling services, and supply management support programs.

SAVINGS OF $100 MILLION A YEAR—A CONSERVATIVE ESTIMATE

Mr. BROOKS. Mr. Campbell, in your 1963 report you referred to savings after an interim 5-year period of approximately $100 million per year. This stemmed, I assume, from evaluation of 523 out of the approximately 1,000 ADP systems we anticipate being in use June 30.

Mr. CAMPBELL. That is correct.

Mr. BROOKS. As a result, assuming that efficient, centralized management you recommended in your reports on a Government-wide basis is established, together with an ever-increasing utilization of this equipment in Government, then the potential savings to the taxpayers could substantially exceed both the $148 million during the acquisition 5-year period and the $100 million you anticipate annually thereafter; is that correct?

Mr. CAMPBELL. That is correct. That is my personal view as a result of my experience. I think that is conservative.

Mr. BROOKS. This pertains just to the Government, agency-operated uses?

Mr. CAMPBELL. Yes, sir.

Mr. BROOKS. If you include contractor-operated equipment, where the Government picks up the tab, it might well double or triple those savings, would you say?

Mr. CAMPBELL. I would be reluctant to estimate what the savings might be if we brought in the contractor operations. I do not know, Mr. Chairman. I would think it would be substantial.

NEED TO EXTEND H.R. 5171 TO INCLUDE CONTRACTOR-OPERATED EQUIPMENT

Mr. BROOKS. Do we have as much contractor-operated equipment as agency-operated?

Mr. CAMPBELL. I do not know.

Mr. MAHONEY. I might mention at this point we feel this is one of the areas that has been badly neglected because in the Government today we do not even have an inventory of what this equipment is or where it is installed. For example, if we had an emergency situation, we would have to start at scratch. First, we would have to go to equipment suppliers and then, perhaps, directly to Government contractors to acquire knowledge concerning available time on these machines.

We feel this is collateral to this whole study. We should know where the equipment is, we should know what dollars we are putting in. Defense knows, for example, on an individual contract basis. It is not gathered together. This makes it extremely difficult to estimate.

We feel that from our brief analysis and work we have done in this field that the figures will be very significant. We cannot come out with any specific figure on it. We feel it will be very significant.

Mr. BROOKS. You feel it will be substantially larger than the savings stated in your report?

Mr. CAMPBELL. That is our feeling.

NO AGENCIES SHOULD BE EXEMPT FROM CENTRALIZED CONTROL

Mr. BROOKS. Turning to the provisions in H.R. 5171, Mr. Campbell, do you believe that any Federal agency should be exempt from this central control provided by the bill?

Mr. CAMPBELL. I would hope not. I would hope there would be no exemptions. I understand there might be cases where it would be necessary. I would like to start with the idea that there would be no exemptions.

Mr. BROOKS. You think every exemption basically will be potentially more wasteful than inclusion under the overall program?

Mr. CAMPBELL. Yes, sir. I feel that if there is an exemption, it should be made personally by the Administrator of the General Services Administration in collaboration with the President's Office.

Mr. BROOKS. Generally, then, you consider the basic approach toward centralization of acquisition and management of this ADP equipment as outlined in the bill to be an acceptable means by which we could achieve this increase in economy and efficiency that you have recommended in these various reports?

GSA HAS ABILITY TO WATCH OVER THIS COMPLEX PROBLEM

Mr. CAMPBELL. I have a deep and abiding respect for Mr. Boutin, Administrator of the General Services Administration, and for that

organization. I think they have the know-how and ability to watch over this whole complex problem. I do think that, in addition, they should have in this instance close consultation with the President's Office. This is how important this problem is to me.

Mr. BROOKS. I haven't talked with the President about this but I have talked with Mr. O'Brien. He seemed receptive. I am hopeful that Mr. Boutin, who was appointed by the President, will be able to work very closely with him.

I assume some of the experts you have, people like Mr. Mahoney, would be available to give them advice and suggestions.

ADP COSTS—A FIXED CHARGE ON GOVERNMENT

Mr. CAMPBELL. We are always available to GSA and to all Government agencies, for that matter, to the extent of our ability to help them. But I would point out that we are discussing here a fixed charge on the Government. This is very much like the fixed charge on the debt. What you are seeing here is growing into what many of you will see, after I am not here, will be a major fixed charge which cannot be reduced and which will probably grow, and properly so, if there is going to be control of the Government programs.

You saw yesterday the enormous problem we have in just the matter of taking care of the U.S. Treasury checks. It is the kind of fixed charge we mean.

Mr. BROOKS. This is a worthwhile goal to work on.

Mr. CAMPBELL. Yes, sir.

Mr. BROOKS. Are there any questions, Mr. Moorhead?

Mr. MOORHEAD. I would like to ask a few questions.

NEED FOR CONTINUING REVIEW OF AGENCY UTILIZATION PRACTICES

Mr. Campbell, I was interested in this problem you stated about these machines having to be operated 24 hours a day in order to be economical. Is there now, and the second question is, will there be, under this legislation, if enacted, any review of whether the various agencies are making full utilization of the equipment?

Mr. CAMPBELL. I think, yes; I assume there would be. I think GSA would naturally make this one of their first responsibilities.

Mr. MOORHEAD. But there is no such review today; is that correct?

Mr. MAHONEY. To a limited extent, the Bureau of the Budget recently has undertaken a program to provide information regarding available facilities throughout the Government.

I think we need a very active program on this, even going much beyond what the Bureau has done so far. Of course, we are losing time every day that we do not get on top of this.

Mr. MOORHEAD. There is waste there or potential savings?

Mr. MAHONEY. Yes.

Mr. CAMPBELL. I do not think anyone has the responsibility. That is the problem. We have to have some group that has the responsibility and whom you can call up here and discuss what is happening and how well the equipment is being managed.

CONTINUING CONGRESSIONAL REVIEW OF ADP UTILIZATION

Mr. BROOKS. Under this bill, of course, we would have a continuing interest in seeing just how well the GSA was implementing this responsibility. I am sure GSA would work at it. Also the Appropriations Committee would check GSA's budgets for the revolving fund. Then, the Bureau of the Budget would have its own review of the budget requests. Also, there is the fact that the individual agencies, when they put in a request for an expenditure for the acquisition of a substantial ADP capacity, they would have to get that approved possibly by their legislative committee, then by the House Appropriations Committee before they could ever request a new tier of machines from GSA as the supplier for the Government.

Mr. CAMPBELL. I would think also in the initial stage GSA would have to put its stamp of approval on the agency's request.

Mr. BROOKS. I guess that would be true, although it might be that they would just be able to supply the capacity required by a given agency. If the agency wanted an XYZ machine and GSA thought a DNP machine would do the job as well, GSA would be able to encourage the agency to use this one currently available. I do not think they would have any control over what their actual requirement or request was.

EQUIPMENT USED FOR TACTICAL, INTELLIGENCE, AND OTHER CLASSIFIED ACTIVITIES NOT INCLUDED IN GAO STUDY

Mr. MOORHEAD. Mr. Campbell, in your testimony you talked about potential savings of $148 million over a 5-year period, then $100 million per year.

Then on page 2 of your testimony you talk about these costs being exclusive of amounts for equipment installed for military tactical operations, intelligence, surveillance systems, and certain other classified activities of the Government. Were those costs included in your projected savings of $148 million and $100 million?

Mr. CAMPBELL. No. We have not gotten into classified installations, NSA or CIA.

Mr. MOORHEAD. Would those costs for these classified systems be covered under this bill, H.R. 5171?

Mr. CAMPBELL. I do not think so.

Mr. MAHONEY. I think there was an exclusion on page 2 of the bill.

Mr. BROOKS. It is contemplated that the decision as to whether or not all the Defense Department installations would be included would be a matter really for the President to decide. We were anticipating that if he thought the Defense installations should be exempted, it would be a matter for him to decide.

Then, if there is an overwhelming reason as to why a given agency should have a right to go and buy whatever it pleased and to use it the way it saw fit, this would be a decision that the GSA Administrator and possibly your own office would be called on and the President would probably make that decision.

Mr. CAMPBELL. This is one of the exemptions we discussed.

Mr. BROOKS. I have not discussed it with Mr. McNamara, although I believe Mr. McNamara said he believes the Defense Department should divest itself of all those responsibilities of procurement and acquisition that another Government agency can perform better or just as well as it. I think it may well be that he would concede that GSA could do this as well as, or better than, the Defense Department. He might be very pleased to submit his requirements to GSA and have it get, deliver, and install them wherever DOD wanted them.

Mr. MOORHEAD. If these activities were included in the legislation, the potential savings would be greater than that to which you have testified?

Mr. CAMPBELL. Yes, that is correct. I suspect there is some leeway there in savings. I say this without full knowledge of what they are doing.

Mr. MOORHEAD. I think we ought to be very rigid on granting exemptions.

Mr. BROOKS. I think the real conception of what the Defense Department might want to exempt would not be an ordinary administrative computer capacity but possibly some highly specialized tactical computer operations. That would be the only thing I would think they would want to consider exempting.

EQUIPMENT USED BY GOVERNMENT CONTRACTORS

Mr. MOORHEAD. When you talk about the ADP equipment operated by Government contractors, are you thinking in these cases of the special corporations like Rand and Aerospace or are you thinking much more broadly of totally independent corporations that do Government contracting?

Mr. CAMPBELL. I was thinking first of the corporations where practically all of their operations are for the account of the U.S. Government. I wanted to mention those. There are a number of them.

Then, of course, there are the other major contractors who do a great deal of Government work. In doing the work for us they have to have these installations specifically for our jobs.

Mr. MOORHEAD. Would not most of these be under the Defense Department or one of the services?

Mr. CAMPBELL. A large part would be Defense contractors, but AEC and NASA contractors are substantial users of such equipment.

Mr. MOORHEAD. Would they be exempted under this exemption of equipment necessary for national defense and security?

Mr. CAMPBELL. I do not see why. The agencies would not be. Therefore, I do not see why contractor operations would be.

Mr. MOORHEAD. Thank you, Mr. Chairman. I have no further questions.

Mr. BROOKS. Mr. Stinson.

CAPITAL COSTS OF PURCHASING EQUIPMENT

Mr. STINSON. What is the total purchase price of all the equipment that the Government would require to replace the equipment now being leased?

Mr. MAHONEY. We have some figures, Mr. Congressman, but this is a changing figure from month to month. You may realize that the sales price for this equipment declines each month. Also some equipment is offered for sale at accelerated discounts. We calculated a total that we could equate back to the 523 machines that were used here in the example in our March report. We did this to give some feeling for what dollars would be involved if the Government elected to purchase all of these machines.

In that case the total additional outlay for the Government in the fiscal year involved would be something in the order of $275 million for that equipment, total additional outlay for the Federal Government to acquire those 523 machines.

Mr. STINSON. $275 million?

Mr. MAHONEY. Additional.

Mr. STINSON. We would have to spend that this year to start the system that we propose?

Mr. MAHONEY. Yes, sir. This figure changes every month because of the age of the equipment.

Mr. STINSON. How much could it fluctuate, would you say, over the year?

Mr. MAHONEY. It varies by contractor. The biggest supplier reduces purchase prices by 10 percent a year, so this is a fraction of a percent a month.

Also with most suppliers, we have lease-purchase options in the contracts that can be used to apply a percentage of rentals to the purchase price. We are building up equity in these particular cases to apply to the original sales price. It varies considerably by equipment models and it takes a good deal of calculating to come up with a precise figure. We did this for this particular set of equipment as of a few months ago, about the time our report went to press.

Mr. STINSON. Our total capital outlay would be $275 million to start with?

Mr. CAMPBELL. Yes, relative to these 523 machines.

Mr. STINSON. Thank you.

Mr. BROOKS. I might point out that, of course, it is not contemplated that they would try to buy those in one fiscal year. We do not necessarily have that capacity; the industry probably does not have that capacity to replace them all at one time. It would take a little time to phase them in.

GSA and the Comptroller General would make a decision as to whether or not it was more advisable on a given piece of equipment to purchase it or possibly to lease it.

There are some instances in which the Government might have a good lease term and it would be more advantageous to the Government to lease that machine for a short time. You are not going to go out and buy them all. You have to put a pencil to it and make the best choice.

PURCHASE WHEN ADVANTAGEOUS TO GOVERNMENT

Mr. MAHONEY. The basic thought in our report was that we should buy the equipment most advantageous to us at a particular point in time. Some of this equipment pays off very rapidly. In other cases

we have a major equity built up in the equipment today. We would want to take advantage of those initially.

Mr. CAMPBELL. The only exclusions are the intelligence and surveillance, such as CIA and NSA perhaps.

Mr. ROSENTHAL. With regard to those exclusions, is it because the public should not know the number of machines they have or that someone should not know the type of equipment they have?

Mr. CAMPBELL. Both.

Mr. ROSENTHAL. I feel rather strongly along the lines Mr. Moorhead suggested, that any exemptions should be very rigidly enforced. I think Congress is entitled to know almost everything there is. I think there has been too much classified skirt hiding, as Mr. Moss' subcommittee of this committee indicated. I, for one, would need some very compelling reason to leave in on page 2 of the bill lines 20 and 21, the statement that—the exemption of equipment for national defense and security. I would need very compelling reasons.

Mr. CAMPBELL. Of course, I agree with you a hundred percent. I think the idea of classification can be overdone. It can be very dangerous in many cases. We thought that where the Administrator of GSA has discretion and not the head of the agency, that we might explore these exemptions very carefully or he would explore them very carefully.

Mr. ROSENTHAL. Do you think he should have that option or that the Congress in enacting this bill should have that option of where the exemptions should lie?

Mr. CAMPBELL. I think if Congress had the option, it might be a lot stronger; but I do not think from an operating viewpoint it would be practical. I think he has to make these decisions on a day-to-day basis. I do not think that can be done if you had to have prior congressional approval.

EXEMPTION OF AGENCIES

Mr. ROSENTHAL. You think we should give the Administrator of GSA the prerogative to decide which agencies should be exempt under the bill?

Mr. CAMPBELL. That is right with respect to the special installations we are discussing.

Mr. ROSENTHAL. Those special installations you say would not apply to the Department of Defense but might apply to CIA or NASA?

Mr. CAMPBELL. CIA would be one certainly. Then within Defense, NSA would be another. I do not think there is anything in AEC that would require exemption.

Mr. MAHONEY. There are certain other intelligence activities in the Department of Defense.

Mr. ROSENTHAL. From recent events, it seems the Department of Defense has enough trouble picking airplanes, much less computers. That sounds light. I do not mean it that way. I would need a lot more convincing before being willing to leave any exclusions in this bill at the moment.

Mr. CAMPBELL. That is why we emphasized we think the Administrator should be closely in touch with the President on this. That is the level at which it should be considered. I do feel that it would be

difficult for Congress to delegate authority on a day-to-day basis as the occasion arises in this particular operation. These installations may be huge and complex.

Therefore, I would think that any exemption to be discussed would be not particularly public property but Congress would be aware of what was going on.

Mr. ROSENTHAL. Is it that these specialized intelligence agencies, for example, have different type equipment than is used by other Government agencies, more versatility or something?

Mr. MAHONEY. They have some that is of special purpose nature. They have some that is general purpose, that we would consider——

Mr. ROSENTHAL. I am sure they have very specific purpose, but is the mechanical part of the machine different from that used in the commercial world or other Government agencies?

Mr. MAHONEY. Some equipment is quite different and some is very advanced. For example, this is not classified information. In the information retrieval area in the intelligence activities there is a great deal of developmental work going on there.

In a sense—I mention special purpose versus general—this is a term of the trade dealing with the hardware involved. Even the special-purpose-type equipment, such as is being developed in these information retrieval programs, can be useful in other Government activities. If, for example, CIA or someone else goes on to some more advanced stage, that equipment still can be useful other places.

Your point is good. The Administrator of GSA certainly would have to be in on this at some point. I do not know exactly what the legislation will provide, what he can exclude. This is something I think your committee will have to decide.

Mr. ROSENTHAL. Is it that the equipment used by these specialized agencies is more sophisticated than other equipment?

Mr. MAHONEY. In some cases, yes.

Mr. CAMPBELL. They use a good deal of run-of-the-mill equipment but much of this equipment is special.

Mr. STINSON. Perhaps we could modify what you say to include normal or regular, routine equipment, of the nonspecialized type. Would that be acceptable to your thinking?

Mr. MAHONEY. Even some specialized equipment could be used in other agencies because we have the same kinds of problems to a lesser degree. I think your problem basically is the one you still need to concern yourself with as to whether the committee wants to give the Administrator the responsibility, which we think is probably all right.

Mr. BROOKS. Are there any further questions? I want to say, Mr. Campbell, you have been gracious and kind, you and Mr. Mahoney and Mr. Moore, to come down. We are grateful to have had you to testify.

Counsel, did you have any comment to add to this?

Mr. MOORE. No, Mr. Chairman, other than to say we will be glad to render you any assistance in drafting any changes you want.

Mr. BROOKS. We appreciate the suggested changes in your report. On the matter of exemptions, I believe that it is a matter that ought to be very carefully looked into and will be a pretty high-level policy decision. The less we go into it the better off we will be, but the concept that we all have and share, and that was stated by the Comp-

troller General, is that essentially nothing should be exempted unless there is some real, crying security need for it. Otherwise, some other agencies, as Mr. Mahoney pointed out, might use this same equipment for 8 hours a day.

We have with us now the Honorable Bernard Boutin, Administrator of General Services Administration. Mr. Boutin is well known to the subcommittee and is making an enviable record for himself in the administration of the important post he holds.

Before turning to specific questions, Mr. Boutin, I would like to introduce the people you have with you. I see Joe Moody, who is General Counsel; Mr. William P. Turpin, Assistant Administrator for Finance and Administration; Robert T. Griffin, Assistant Administrator.

If you have a statement to make concerning H.R. 5171, we will be pleased to hear it at this time.

STATEMENT OF BERNARD L. BOUTIN, ADMINISTRATOR, GENERAL SERVICES ADMINISTRATION; ACCOMPANIED BY ROBERT T. GRIFFIN, ASSISTANT ADMINISTRATOR; WILLIAM P. TURPIN, ASSISTANT ADMINISTRATOR FOR FINANCE AND ADMINISTRATION; AND JOE E. MOODY, GENERAL COUNSEL

Mr. BOUTIN. Mr. Chairman and members of the subcommittee, it is a pleasure as always to appear before you and your subcommittee concerning any matter in which you are interested. I am here today at your request for the purpose of expressing the views of the General Services Administration on your bill H.R. 5171 to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies.

Basically, the proposed legislation would add a new section 111 to title I of the Federal Property and Administrative Services Act of 1949 (5 U.S.C. 630), as amended, so as to centralize in the General Services Administration control over all electronic data processing equipment required by Federal agencies.

The bill would authorize the establishment on the books of the Treasury of an electronic data processing fund which would be available without fiscal year limitation for expenses, including personal services, other costs, and the procurement by lease, purchase, transfer, or otherwise of equipment, maintenance and repair of such equipment by contract or otherwise, necessary for the efficient coordination, operation, and utilization of such equipment by and for Federal agencies. Original capitalization of this fund would be by appropriation and transfer of assets, which would be reimbursed through user changes. In this connection it should be pointed out that according to the report of the Comptroller General to the Congress, dated March 6, 1963, and entitled "Study of Financial Advantages of Purchasing Over Leasing of Electronic Data Processing Equipment in the Federal Government," there would be very substantial savings to the Government if it purchased more of its requirements for electronic computers instead of leasing as was the case with respect to 86 percent of Federal

requirements in fiscal year 1962. This report recites, as an example, that if 523 of the approximately 1,000 electronic data processing systems installed or planned for installation by the Government on a lease basis by the end of fiscal year 1963 were purchased instead, potential savings would be about $148 million over a 5-year period and over $100 million annually thereafter.

With respect to the word "electronic" we suggest that wherever it appears in the bill such word be changed to read "automatic." This change is regarded as desirable to make it absolutely clear that the proposed authority of GSA would extend to complete data processing systems which may include electronic computers as well as such related items as punchcard equipment and tabulating machines which, while as part of the system, may not technically be within the term "electronic."

Further, we recommend elimination of the following language from the bill which appears to have been adopted from section 110 of the Federal Property and Administrative Services Act of 1949 and which has no application to automatic data processing equipment:

Page 3, line 10: "less any liabilities assumed"; page 3, lines 18 and 19: "where appropriate for terminal liability charges."

We construe the authority which would be vested in the Administrator of General Services by the first sentence of the proposed new section 111 to "control the purchase, lease, maintenance, and use" of automatic data processing equipment by Federal agencies as broad enough to authorize the exercise of such coordination and control through the issuance of appropriate regulations applicable not only to such equipment owned or leased by and in the possession of Federal agencies but also to use or services of such equipment in the possession of others and obtained by contract or other arrangement. Costs incurred by cost type contractors for acquisition by purchase, lease, contract, or otherwise of automatic data processing equipment or the use thereof required for the performance of such contracts, are costs which are reimbursable by Federal agencies under the terms of such contracts. This constitutes an area of indirect Government utilization of such equipment involving, so we understand, substantial cost to the United States. To remove any question as to whether the proposed authority of the Administrator of General Services to coordinate and control the purchase, lease, maintenance, and use of automatic data processing equipment encompasses such actions by cost type contractors where the expense is passed to the United States through reimbursement, it is recommended that the words "or at the expense of" be inserted in line 8, page 1 of the bill, between the words "by" and "Federal."

The budgetary requirements of the General Services Administration resulting from the enactment of H.R. 5171 would be increased to the extent of appropriations to the revolving fund which the bill would establish for the purchase and lease of automatic data processing equipment and services. Administrative and staff costs would be recovered through rental charges from the Federal agencies using the equipment owned by or leased through the revolving fund.

Since 1959, Mr. Chairman, many studies have been made of the use of automatic data processing by the Federal Government and a number of reports have been made on the subject. The recommendations

made in these various study reports have followed the same general pattern, calling for improved and careful planning and coordination of the efforts of Federal agencies. Many suggestions have been made for improvement of the management and utilization of automatic data processing resources throughout the Government.

The Comptroller General in his report to the Congress, previously mentioned, of March 6, 1963, concludes that—

> The only practical way in which the kind of coordinated management can be practiced to achieve the possible financial savings cited is through the establishment of a small, highly placed central management office in the executive branch of the Government.

The General Services Administration concurs in this conclusion of the Comptroller General. We believe that in order to achieve for the Government the full use potential of automatic data processing equipment, the requirements for which have shown stupendous growth during recent years, to assure full coordination of procurement by and use within the Government, and to obtain for the Government the most economical cost possible, it is essential that centralized management of and control over the procurement and utilization of all such equipment be estabilshed. We are, therefore, in complete accord with the purpose of H.R. 5171 which would accomplish these objectives.

We have not sought and are not now seeking the authority which would be vested in the Administrator of General Services by the enactment of this proposed legislation. However, if the Congress should determine, as a matter of policy, that the management of and control over the procurement and use of automatic data-processing equipment should be centralized in a single agency of the executive branch of the Government, it would appear that the General Services Administration would be the logical and appropriate agency to provide such a central management function for the Government. The provision of this service for all Federal agencies by the General Services Administration would be consistent with the declared purpose of the Congress in creating this agency to provide, for the Government, an economical and efficient system for the procurement of personal property and nonpersonal services, including related services such as contracting, the utilization of available property, the disposal of surplus property and the management of records. The utilization of automatic data-processing equipment has become so vital to the successful performance of these and many other functions of the Government that they no longer can be successfully handled without the use of such equipment.

As the volume of Government transactions required to be handled continues to grow during the ensuing years, and as automatic data-processing equipment becomes more technologically sophisticated, its potential for even greater application in the transaction of Government business affords the principal means by which the ever-increasing volume of Government business may be successfully carried out without proportionate increases in staff costs. At the same time, it must be recognized that Government utilization of such equipment either as owner or lessee entails substantial costs.

Accordingly, in my opinion, to achieve for the Government the maximum economic benefits from the use of such equipment, it is

highly desirable that prompt action be taken to assure (1) proper economic evaluation of such equipment now in use and proposed in the future; (2) maximum utilization of all such equipment owned or leased by the United States including arrangements for multiple agency use; and (3) that the total Government requirements for such equipment is fully brought to bear, both as to price and terms, in negotiating contracts with manufacturers for its use through purchase, lease, or other arrangements.

In my judgment, the many related purposes can best be achieved through the centralization of coordination and control of all aspects of automatic data processing in a single agency of the executive branch of the Government.

In view of the foregoing, the General Services Administration wholeheartedly endorses your bill, H.R. 5171, and urges its early enactment by the Congress.

This concludes my prepared statement, Mr. Chairman, but if you or members of your subcommittee have any questions you wish to ask, we shall endeavor to answer them at this time or supply the desired information for the record.

GSA—LOGICAL AGENCY TO PERFORM CENTRAL MANAGEMENT FUNCTION

Mr. BROOKS. Thank you very much, Mr. Boutin. Then you do agree, I take it, that GSA is the logical and most appropriate agency to provide this central management function that we all desire.

Mr. BOUTIN. Absolutely, Mr. Chairman, for a number of reasons. GSA, from its original conception by the Hoover Commission, by the Congress of the United States, and by President Truman at that time, was to be the business service organization for the entire Federal Government. It was intended that GSA perform many of these service functions, as we do now, in buildings and procurement and supply, management of personal and real property, and records management. This is the very concept of our agency.

I would absolutely agree with your statement. I would like to add that we agree completely with the statement of the Comptroller General that regardless of where this authority is placed, the whole concept of the bill itself in relation to the report of the Comptroller General is eminently sound. So if this legislation were to place this proposed central management function in some other agency, we would still favor its enactment.

Mr. BROOKS. You do feel that it probably ought to go to an operating agency of GSA's type, do you not?

Mr. BOUTIN. Absolutely. As I said, I think GSA is the logical place for this to go because of the experience we have had with revolving funds, and in servicing and working with the other agencies.

Mr. BROOKS. The Comptroller General was encouraging the full rapport between the President and his personal staff and the agency which would conduct this coordination. You have not been unavailable when the President has called, have you?

Mr. BOUTIN. Mr. Chairman, in answer to that, as you and members of the subcommittee know, the Administrator of General Services reports directly to the President. We do not go through any department. We go directly to the President.

We have a close and everyday liaison with the President and his Office. I agree with the statement of the Comptroller General that this is absolutely necessary.

Mr. BROOKS. You do not think he would be reluctant to call you and say, "Bernie, we have got to get together on this now." You would be there?

Mr. BOUTIN. It is not unusual to have the telephone ring and have the voice come on and say, "This is the President," and go right into what he has in mind. He is not bashful.

GSA PRESENTLY HAS SIMILAR RESPONSIBILITIES TO THOSE INHERENT IN H.R. 5171

Mr. BROOKS. He is not. After examining provisions of H.R. 5171, would you say GSA now has many responsibilities that are similar in every respect to those provided in this proposal?

Mr. BOUTIN. Let us look directly at the provisions of the bill itself. No. 1, the language of the legislation speaks to the point of utilization of available computers, transfer of computers, and so forth. This is the philosophy behind the bill.

In GSA we now have a Utilization and Disposal Service that performs exactly this type function. It is in hand.

No. 2, it speaks to the point of procurement. GSA now has Federal Supply Schedule contracts for procurement. It has know-how and capability without any additional people in these areas.

In records management we have the National Archives and Records Service. Many of the responsibilities that are inherent in the legislation are also available right now in General Services.

Mr. BROOKS. The bill provides for a revolving fund system of financing equipment purchases. Does GSA presently administer other revolving funds for the acquisition of equipment?

Mr. BOUTIN. Yes, we do. We have the Telecommunications Fund that was authorized last October. The chairman is familiar with that. He introduced the legislation for GSA. This is for the Federal telecommunications on the civil side of Government, working closely with Defense.

We have the General Supply Fund, a revolving fund.

We have the Buildings Management Fund for financing of rental space and for our whole Public Buildings Service operation. So we have three of these funds right now that we have had long experience with, at least with two of them.

NEED FOR LONG-RANGE PLANNING

Mr. BROOKS. Do you agree with the Comptroller General as to the need for long-range planning of the Government ADP requirements?

Mr. BOUTIN. There can be no question about this. If you just go back to 1953, where some of the largest manufacturers today were really just getting started in a big way, the changes, the technological advances that have taken place, new applications that the Comptroller General spoke about, new opportunities to use this type equipment to great financial benefit in terms of efficiency and timeliness of service,

to the whole Federal family, are just immense. This whole area is going to grow. It cannot help it. We agree with your statement.

CENTRALIZED MANAGEMENT WOULD MATERIALLY ASSIST BUREAU OF THE BUDGET

Mr. BROOKS. Through centralized management as provided in the bill could GSA materially assist the Bureau of the Budget and others in the Executive Offices of the President in development of long-range budgetary and management policies pertaining to ADP equipment?

Mr. BOUTIN. Absolutely we could. We, of course, work very closely with the Bureau of the Budget. In particular, right now, speaking of the Office of the President, we work closely with them on matters of procurement policy.

Of course, we do prescribe procurement policy now for the civil side of the Federal Government and work closely with the Department of Defense on the ASPR regulations. There is no question in my mind but that this legislation lends itself to a very close working relationship with the President, himself, and the Bureau of the Budget in formulating regulations and procedures.

Mr. BROOKS. Could you assume these responsibilities in a manner so as not to diminish or compromise the traditional budgetary and the policy control of the Bureau of the Budget?

Mr. BOUTIN. Yes, because, of course, the Bureau of the Budget, itself, would have to pass on any financial request for appropriations that we would make to the Congress. So, inherent in the legislation, itself and in the procedures of the executive side of the Federal Government, we go to the Bureau with fund requests, so they would have a close rein there. Then we would have to go to the Appropriations Committees of the Congress, itself.

GSA ADMINISTRATOR SUGGESTS MINIMUM OF EXEMPTIONS

Mr. BROOKS. On the exemption question, you heard the Comptroller General's comments on it. Do you agree with him that basically there ought to be a minimum of exemptions passed on by the Administrator, probably by and with the counsel of the President?

Mr. BOUTIN. Yes, I do completely agree with that. I would like to point out that the Administrator of General Services—in fact, all of his top assistants—have complete and absolute clearance as far as any security matters are concerned. We work now with the CIA, we work with the National Security Agency, we work with the Department of Defense in many other areas apart from ADP.

There very likely could occur, as the Comptroller General pointed out, certain instances where a requirement is for specifically engineered equipment that would not be the usual type of ADP equipment where an exemption would be desirable. I think this ought to be administered very tightly, that the Administrator ought to be thoroughly familiar with the exact reasons for an exemption, that the Office of the President should be equally familiar with those reasons. This would not be something that would be treated lightly, at all.

Mr. BROOKS. Do you feel that this authority to delegate this responsibility within limits would be helpful to you during the transition period of setting up this program?

Mr. BOUTIN. I do not think there can be any question about it, Mr. Chairman. I am sure you recognize and members of the subcommittee recognize that this is not going to be an easy job. The whole program that this bill speaks to, is not anything that will be accomplished overnight. It is going to require a great deal of research and careful planning. We do not want to make any mistakes. We do not want to go into this like a bull in a china closet. In the early stages we might conceivably want to delegate some authority on an interim basis. I would say it would be short term.

PERIOD OF TIME NECESSARY TO IMPLEMENT ADP PROGRAM

Mr. BROOKS. How long do you feel that it would take to fully implement the program on a Government-wide basis?

Mr. BOUTIN. Mr. Chairman, that is a difficult question and one that I have not been able to think through completely because of the various ramifications. As the Comptroller General testified this morning, with the changes that have taken place in the art itself, with the changes in equipment, with the new opportunities for applications—you say fully implement. It could be quite a long time.

When you say to implement, in a reasonable sense, where we would have a good hold on exactly what the problems are, to have issued our regulations controlling the use of this equipment, and to have made a careful evaluation and analysis of financial requirements, you are probably talking of a length of time, perhaps less than 3 years.

I would like to feel, Mr. Chairman, that if this bill, as I hope it will be, is passed by the Congress and approved by the President, that General Services will have the opportunity to work very closely with this subcommittee.

Already the Comptroller General has testified of his willingness to work with General Services. Naturally, we will work closely with the President and the Bureau of the Budget. But I think we have to have a very close relationship, in addition, with the Appropriations Committees and with this subcomittee of Congress. I think it would be highly desirable. We ought to make a real good start on this in 1 year, so that a year from now we ought to be able to make a real significant report to this subcommittee.

I also agree, with what little I know of the statistical background from reading the Comptroller General's report, that the estimates of savings are conservative, as the Comptroller General has already pointed out.

ADP FUNDS—AVAILABLE WITHOUT FISCAL YEAR LIMITATION

Mr. BROOKS. You can be sure of our continued interest in this problem. H.R. 5171 provides that the automatic data-processing fund shall be available without fiscal year limitation.

Do you believe that this is necessary for the most efficient and economical administration of the program?

Mr. BOUTIN. If this were not so, Mr. Chairman, I would say that the whole matter would come tumbling down. We just could not possibly administer the provisions of the bill unless it is without regard to fiscal year.

Mr. BROOKS. Now, from the standpoint of officially administering the program, what safeguards do you suggest will assure continued legislative control over any expenditures for this costly equipment?

Mr. BOUTIN. Mr. Chairman, I think that the safeguards are here already. As I have testified, we have the Bureau of the Budget, and its relation, as far as any financial requests are concerned, with the program of the President. We have the Government Operations Committees of the House and Senate, the watchdog committees. In addition to that there are the Appropriations Committees who hear the appropriation requests of the various using agencies, where the money has to come from, to go into the revolving fund.

So I would say that we have ample safeguards right now.

Mr. BROOKS. In addition to these safeguards, would it be possible for your agency, with this responsibility, to give a prospective analysis of the projected cost of this program, so that the Appropriations Committees could have some idea next year of what you are planning to expend, and what you are going to program?

Mr. BOUTIN. Mr. Chairman, I think it goes without saying—I am sure that you know, your coming from Texas, as well or better than I do—Congressman Thomas, who is chairman of our Appropriations Subcommittee, would not let us sit across from the table from him very long unless we were able to give him a good, firm projection of financial requirements.

So, definitely, this is true.

We would have to be able to project the requirements from the information we have at hand, for a minimum of a 5-year period. I am sure you also know that if you were to locate him on the floor of the House, or over in his office right now, he could probably tell you within a few dollars the balance of any one of our revolving funds as of this morning.

So there is going to be quite a lot of safeguard and very careful evaluation.

TIMELINESS OF H.R. 5171

Mr. BROOKS. I fully realize you are not requesting directly or indirectly that this authority be extended to your agency, and did not know I was introducing the bill until I talked to you about it. Furthermore, I think there would be no question as to the difficulties which would be encountered. Obviously, some of these agencies are not going to welcome somebody suggesting that they use an available machine that will do the job, when they would like to go buy a new, fancy one that would do their job and six others that they do not need to have done.

But I do not think we can overlook the importance to the taxpayers in the development of this centralized program. And with these

factors in mind, do you have any reservations insofar as GSA's ability to carry out the responsibilities outlined in H.R. 5171?

Mr. BOUTIN. Mr. Chairman, I do not. And I would like to point out on that note that right now is an ideal time, in my judgment, from what I know of this entire matter, for such legislation to be introduced. The changes that are taking place, not only in equipment, itself, but in methods of data transmission by wire, the opportunity of one computer center to handle a number of small agency requirements, pooling of these requirements, all of this lends itself, I think, to exactly what you, the members of this subcommittee, are looking to accomplish here, and what the Comptroller General has said must be accomplished to save this money.

Mr. MOORHEAD. Mr. Chairman?

Mr. BROOKS. Mr. Moorhead.

AVAILABILITY OF PERSONNEL

Mr. MOORHEAD. I would like to ask, Mr. Boutin, if you have in GSA at the present time personnel who are capable of analyzing these tremendously difficult machines and these difficult processes and the varying needs of this department or that department?

Mr. BOUTIN. Well, let me answer the question this way, Congressman:

No. 1, in the ADP area of GSA, itself, for our own requirements, we have about 481 people. Some of these are operators; some are programers, the whole gamut. In addition to that, we have substantial know-how in our procurement operation, where, in fact, they have already gone out to the manufacturers and have developed these schedules of costs, both for lease and purchase.

So we do have substantial in-house capability right now.

Mr. MOORHEAD. But you would have to get additional in-house staff of very high caliber to manage a program of this size, would you not?

Mr. BOUTIN. Well, I would like to think, Congressman, that we have people of that caliber right now.

Now, how many additional people would be required, I could not tell you. It would be minimal. It may require some reassignment. Somebody may be in a certain job now we may want to reassign into a very small staff function that the Comptroller General referred to.

Mr. MOORHEAD. Thank you.

TRADE-IN OF EQUIPMENT

Mr. BROOKS. On trade-ins, Mr. Boutin, I understand that today an agency can trade in a purchased computer on a new model and receive credit against the purchase price.

Now, under this program you establish, would any particular agency receive the credit under those circumstances?

Mr. BOUTIN. Under the program as outlined by the bill, any trade-in would go into the revolving fund, itself, as would additional amounts of money required for the new piece of equipment come from the revolving fund. The revolving fund is the vehicle that would

handle this. But it would give us an opportunity to make an evaluation on a given piece of equipment that may no longer be required, or may be obsolete for the use, let us say, of HEW, that we may have an agency requiring some ADP equipment right at that time that could utilize this piece of equipment that HEW does not need, with benefit to the Government.

PRICE BENEFIT OF BULK PURCHASES

Mr. BROOKS. Is the Government obtaining any price benefit today from bulk purchase or lease of ADP equipment?

Mr. BOUTIN. That is difficult to answer, because all of this is now on schedule. Some benefit, yes. A greater benefit than large industrial users would have, I doubt. I think that we can do better in our pricing, in the prices the Government receives under the provisions of this bill, where we could group our requirements together.

Mr. BROOKS. Now, at this point, I would like to place in the record the copy of the Bureau of the Budget's memos on ADP equipment, dated October 14, 1961, and October 9, 1959; also, as an appendix, the Bureau of the Budget's inventory of ADP equipment in the Federal Government, dated August 1962.

(The memos referred to follow:)

EXECUTIVE OFFICE OF THE PRESIDENT
BUREAU OF THE BUDGET
WASHINGTON 25, D. C.

October 14, 1961

CIRCULAR NO. A-54

TO THE HEADS OF EXECUTIVE DEPARTMENTS AND ESTABLISHMENTS

SUBJECT: Policies on selection and acquisition of automatic data processing (ADP) equipment

1. Purpose. This Circular prescribes policies on (a) making selections of equipment to be acquired for use in the automatic data processing (ADP) program of the executive branch, and (b) making determinations as to whether the ADP equipment to be acquired will be leased, purchased, or leased with an option to purchase.

2. Scope. The ADP equipment affected by the policies stated herein includes:

a. Electronic digital computers, irrespective of use, size, capacity, or price;

b. All peripheral or auxiliary equipment used in support of electronic computers, whether or not cable-connected and whether selected and acquired with the computer or separately;

c. Punched-card equipment, whether used in conjunction with or independent of an electronic computer; and

d. Data transmission or communications equipment that is selected and acquired solely or primarily for use with a configuration of ADP equipment which includes an electronic computer.

Analog computers are covered only when computers of this type are being used as equipment peripheral to a digital computer.

Items of ADP equipment that are (a) physically incorporated in a weapon, or (b) manufactured for the Government under a developmental contract, are not affected by the policies stated herein.

3. Applicability. The policies herein apply to ADP equipment acquired by the Government and to that ADP equipment which is acquired and operated by Government contractors solely to process Government data at Government expense (e.g., Government-owned, contractor-operated facilities). These policies do not apply to ADP equipment acquired by universities and similar institutions with financial assistance through grants-in-aid of Government funds.

The policy provisions of this Circular become applicable when a determination has been made that the utilization of ADP equipment is essential. It is assumed that such determinations have been preceded by and are based upon the results of well-documented studies which provide an adequate factual basis for concluding (a) that the functions or processes for which the ADP equipment can be used are essential to perform, and (b) that the systems, procedures, and methods to be employed in performing these functions or processes have been designed to achieve the highest practicable degree of effectiveness with optimum efficiency and operational economy. Guidelines for planning and conducting studies preceding a decision to utilize ADP equipment, for the development of system specifications, and for equipment evaluation and selection are contained in Bureau of the Budget Bulletin No. 60-6, "Automatic Data Processing (ADP) Program of the Executive Branch: Studies preceding the acquisition of ADP equipment," dated March 18, 1960.

4. Policies on equipment selection. The selection of ADP equipment includes the initial selection of ADP equipment, the selection of ADP equipment additional to that on hand, the selection of ADP equipment to replace ADP equipment on hand, the modification of equipment on hand, usually for the purpose of increasing memory capacity, computational capability, or speed of input or output, or combinations of the foregoing. In all these circumstances, the following policies apply:

a. The selection of ADP equipment will not be made until system specifications are available to serve as a basis for selection. For purposes of this Circular, the term "system specifications" means (1) the delineation of the objectives which the system is intended to accomplish; (2) the data processing requirements underlying that accomplishment, i.e., a description of the data output and its intended uses, the data input, data files, volumes of data, processing frequencies and timing; and (3) such ADP equipment capabilities as may need to be identified. System specifications will be designed to insure free competition among equipment manufacturers.

b. The officials responsible for making decisions on the selection of ADP equipment will assure that the selection process accords equal opportunity and appropriate consideration to all manufacturers who offer equipment capable of meeting the system specifications. In this connection, the selection process may be facilitated by written invitations to manufacturers to submit proposals as a means for obtaining information regarding the capabilities of ADP equipment to meet the system specifications.

c. Two prime factors will be considered in the selection of equipment: (1) its capability to fulfill the system specifications, and (2) its overall costs, in terms of acquisition, preparation for use, and operation. The term overall costs, as used in this paragraph, will be interpreted to include such cost elements as personnel, purchase price or rentals, maintenance of purchased equipment, site preparation and installation, programming and training. When ADP equipment of two or more manufacturers meets the system specifications, the equipment which represents the least overall cost to the Government will be selected. Factors which do not relate directly or indirectly to the capability of ADP equipment to meet system specifications or overall costs normally will not be included in the considerations unless a conclusive judgment cannot be made on the basis of the two prime factors.

5. Policies on equipment acquisition. Most commercially available ADP equipment can be acquired by purchase or by lease, with or without an option to purchase. The General Services Administration has contracts with principal manufacturers, listed in Federal Supply Schedules (FSS), for the rental of ADP equipment. GSA currently is negotiating contracts for the purchase (including provisions for trade-in allowances) and maintenance of ADP equipment. Until such time as these contracts appear on the Federal Supply Schedule, it will be necessary for departments and agencies to negotiate purchase and maintenance transactions. All ADP equipment acquisition transactions are subject to prevailing policies, laws and regulations governing procurement by Federal Government agencies. In addition, except for equipment that can be acquired by the purchase method only, the following policies are applicable:

a. The method of acquiring ADP equipment will be determined after careful consideration of the relative merits of all methods available (i.e., purchase, lease, or lease-with-option-to-purchase). The method chosen will be that which offers the greatest advantage to the Government under the circumstances which pertain to each situation. In this connection, the following general guidelines will be taken into account:

(1) The purchase method is preferred when all of the following conditions exist:

(a) The system study which preceded the selection of the equipment has established a reasonable expectancy that the ADP equipment under consideration can be successfully and advantageously used.

(b) A comparative cost analysis of the alternative methods of acquisition, of the types illustrated by Attachments A and B, indicates that a cost advantage can be obtained by the purchase method in six years or less after the date of delivery. This analysis usually will include the following cost elements under each method: for the lease method--rental costs, including maintenance; for the purchase method--purchase costs, including purchase price, maintenance, and other one-time costs applicable only to purchase; for the lease-with-option-to-purchase method--rental costs, and purchase costs less credits applicable upon purchase. In addition to the cost elements described above, the residual value of equipment to the Federal Government will be considered as a factor in a comparative cost analysis. Trade-in allowances quoted by manufacturers may be used as a representation of the residual value.

(c) The capabilities of the ADP equipment will continue to be needed and will be sufficient to satisfy the system requirements, current and projected, for a period beyond the point in time at which the purchase method begins to provide a cost advantage. The possibility that future technological advances will render the selected equipment comparatively obsolete before the cost advantage point is reached should not rule out purchase if the selected equipment is expected to be able to satisfy the system requirements.

(2) The lease-with-option-to-purchase method is indicated when it is necessary or advantageous to proceed with the acquisition of the equipment that meets system specifications, but it is desirable to defer temporarily a decision on purchase because circumstances do not fully satisfy the conditions which would indicate purchase. This situation might arise when it is determined that a short period of operational experience is desirable to prove the validity of a system design on which there is no previous experience, or where decisions which might substantially alter the system specifications are imminent.

(3) The lease method, without option to purchase, is indicated only when it is necessary or advantageous to proceed with the acquisition of equipment that meets system specifications and it has been established conclusively that any one of the conditions under which purchase is indicated is not attainable.

b. Negotiations or renegotiations of equipment delivery dates will be conducted in a manner which insures that firm and final commitments by the Government to accept delivery of ADP equipment on a specific date will not be made until it has been determined through a readiness review that the using agency will be prepared to use the equipment productively as soon as it becomes operational

6. Review of current or pending lease transactions.

a. Lease or lease-with-purchase-option transactions in effect at the time this Circular is issued, and which are expected to remain in effect until fiscal year 1964, will be reviewed in the light of the provisions of paragraph 5. If it is found to be to the advantage of the Government to purchase leased ADP equipment in this category, steps will be taken to make such purchases during the earliest fiscal year in which funds for this purpose are available to the agency. Reviews of current lease transactions should be undertaken as soon as practicable and completed by June 30, 1962.

b. The method of acquisition of ADP equipment selected but not yet accepted for delivery at the time this Circular is issued will be reviewed for adherence to the policies herein stated, and, when indicated, the basis of acquisition will be changed to conform if permitted by the terms of the contract or agreement.

7. Documentation. System studies (sometimes referred to as applications studies, feasibility studies, and by other terms), system specifications, and readiness reviews will be fully documented. Decisions on the selection of ADP equipment, on the method of acquisition, and on the review of the current status of the method of acquisition also will be documented to reflect adequately the considerations taken into account and the basis for the decisions.

8. Administration of policies. The head of each executive department and establishment will establish the necessary framework of procedures, including appropriate reviews and controls, that will assure compliance with the policies herein stated.

By direction of the President:

DAVID E. BELL
Director

Attachments 2

ATTACHMENT A
CIRCULAR NO. A-54

LEASE VS. PURCHASE
REPRESENTATIVE ADP COMPUTER SYSTEM
BASED ON TWO-SHIFT USE

ITEM OF COST	COSTS BY FISCAL YEAR					
	1962*	1963	1964	1965	1966	1967
1. Purchase basis:	$	$	$	$	$	$
a. Purchase costs.	600,000	0	0	0	0	0
b. Maintenance, cumulative.	45,000	90,000	135,000	190,000	245,000	300,000
c. Cumulative, purchase basis.	645,000	690,000	735,000	790,000	845,000	900,000
2. Lease basis, cumulative (including maintenance).	200,000	400,000	600,000	800,000	1,000,000	1,200,000
3. Purchase basis exceeds lease basis.	445,000	290,000	135,000	--	--	--
4. Lease basis exceeds purchase basis.	--	--	--	10,000	145,000	300,000

* Year acquired, utilized full year.

ATTACHMENT B
CIRCULAR NO. A-54

LEASE VS. LEASE-WITH-
OPTION-TO-PURCHASE
REPRESENTATIVE ADP COMPUTER SYSTEM
BASED ON ONE-SHIFT USE

ITEM OF COST	COSTS BY FISCAL YEAR					
	1962*	1963	1964	1965	1966	1967
1. Lease basis, with-option-to-purchase: (Option exercised at end of first year).	$	$	$	$	$	$
a. Lease.	150,000	--	--	--	--	--
b. Less, credit upon purchase.	-75,000	--	--	--	--	--
c. Purchase costs.	600,000	0	0	0	0	0
d. Maintenance, cumulative.	26,000	52,000	78,000	108,000	138,000	168,000
e. Cumulative, lease/option basis.	701,000	727,000	753,000	783,000	813,000	843,000
2. Lease basis, cumulative (including maintenance).	150,000	300,000	450,000	600,000	750,000	900,000
3. Lease/option exceeds lease basis.	551,000	427,000	303,000	183,000	63,000	--
4. Lease basis exceeds lease/option basis.	--	--	--	--	--	57,000

* Year acquired, utilized full year.

EXECUTIVE OFFICE OF THE PRESIDENT
BUREAU OF THE BUDGET
WASHINGTON 25, D.C.

October 9, 1959

BULLETIN NO. 60-4

TO THE HEADS OF EXECUTIVE DEPARTMENTS AND ESTABLISHMENTS

SUBJECT: Automatic data processing (ADP) program of the executive branch: Definitions and reports required

1. Purpose. This Bulletin (a) provides an initial statement of Government-wide policy on the scope of the Automatic Data Processing (ADP) program of the executive branch; (b) establishes certain uniform ADP terms; and (c) makes provisions for executive agencies to submit the first in a series of annual reports on the utilization of automatic data processing equipment and personnel.

2. Policy on program scope and definitions of terms. For purposes of this Bulletin, and as a means for establishing Government-wide policy on the scope of the ADP program of the executive branch, the following definitions will apply:

a. The initials "ADP" mean automatic data processing.

b. The term "automatic data processing" means the processing of data with and through ADP equipment.

c. The term "ADP equipment" embraces all equipment used in automatic data processing, including (1) punched card equipment, whether used alone or in conjunction with electronic computers; (2) electronic computers and the several types of peripheral or auxiliary equipment which are directly involved in computer utilization; (3) data transmission systems that employ the use of devices which convey data automatically or electronically from place to place, or from equipment to equipment, for processing in an ADP system; and (4) all other equipment not identified above which is used in automatic data processing in conjunction with punched card equipment or electronic computers and which has not been identified as being excluded specifically from the scope and meaning of the term "ADP equipment."

d. The term "ADP system" means any system for processing data which involves the use of ADP equipment.

e. The term "ADP program," when applied to the executive branch of the Government, embraces the planning, development, administration, management, coordination, control, operation, and review and evaluation of ADP systems in all fields of ADP equipment utilization, except those fields that may hereafter be identified as being excluded specifically from the scope and meaning of the term "ADP program." For the purpose of reviewing and evaluating ADP systems and programs or determining and reporting their costs or status, the term "ADP program" also embraces all phases and steps toward acquiring and using ADP equipment, beginning with that phase which in the ADP Responsibilities Study Report, recently distributed, is referred to as initial planning, and continuing through all subsequent phases identified in that report. ADP equipment operated by contractors solely to process Government data at Government expense is considered part of the "ADP program;" however, ADP equipment acquired and operated by universities and other similar institutions, with financial assistance through grants-in-aid of Government funds, will not be considered part of the "ADP program" of the executive branch of the Government.

In anticipation of the need for excluding certain specified equipment and certain specified uses of ADP equipment from the scope of the ADP program, these definitions need not be construed as being fully applicable until January 1, 1960. For the intervening period, agencies may propose to the Bureau of the Budget such exclusions or revisions as they deem appropriate. On or about January 1, 1960, the Bureau of the Budget will issue revised policies on program scope, after full consideration of those proposed revisions or exclusions which were received from agencies on or before November 30, 1959.

3. Uniformity in the use of ADP terms. The terms defined in paragraph 2 of this Bulletin will hereafter be used uniformly when references are made to the automatic data processing (ADP) program of the executive branch in lieu of other terms indicated by initials such as EDP, EDPM, EDPS and IDP.

4. Report of utilization of ADP equipment. Agencies of the executive branch will submit to the Bureau of the Budget on or before December 31, 1959, a report of ADP equipment used or to be used by them, the purposes served by using the equipment, and the actual or estimated costs of operation of units of ADP equipment. Data on

interagency sharing of ADP equipment also will be reported. The format for this report is shown in the attached exhibit. The cost portion (PART II) of this report will be developed in a manner which will assure that these costs can be identified with or related to the budget requests submitted separately to the Bureau of the Budget in response to Bureau of the Budget Circular No. A-11. The report will be submitted to the Bureau of the Budget in duplicate. Those agencies that did not use ADP equipment during fiscal year 1959 and do not contemplate using such equipment during fiscal years 1960 and 1961 will submit a negative report.

It is anticipated that the reporting requirement will be repeated annually, revised as experience demands.

ELMER B. STAATS
Acting Director

Attachment

EXHIBIT No. 1
Bulletin No. 60-4

DATA PROCESSING EQUIPMENT AND PERSONNEL
UTILIZATION REPORT
FOR FISCAL YEARS 1959, 1960, and 1961

AGENCY REPORTING: _____

DATE OF REPORT: _____

PART I. USES OF ADP EQUIPMENT

DESCRIPTION OF USE -- CURRENT AND PLANNED	ADP UNIT INVOLVED (CROSS-REFERENCE TO PART II)

Instructions for Part I:

1. List separately (a) current uses (i.e., actually in operation on 6-30-59) and (b) planned uses (i.e., to become operational in FY 1960 or 1961).
2. Number uses separately and consecutively to facilitate cross-references to Part II.
3. Describe use fully but succinctly.
4. Report work volume to indicate size.
5. Identify end product(s) of each use.
6. If use is to be discontinued during the three-year period of this report, so state.
7. All uses will be reported unless exclusions are granted in accordance with paragraph 2 of the Bulletin to which this Exhibit is attached.

/Identify in this column, by number, the ADP unit listed in Part II which is involved in each listed use./

The following hypothetical entries will serve as examples of entries in Part I:

CURRENT UTILIZATION	
1. Operation of national inventory control point for military personal property. xxxx line items in inventory. Updated daily. xxxx line items active daily on the average. Automatic print-out of (a) inventory control form, xxxx per month; (b) procurement authorizations, xxxx per month; (c) shipping documents, xxx per month; (d) bills of lading, xxx per month; (etc.).	Unit #1

PART I. USES OF ADP EQUIPMENT	
DESCRIPTION OF USE -- CURRENT AND PLANNED	ADP UNIT INVOLVED (CROSS-REFERENCE TO PART II)
CURRENT UTILIZATION (Cont'd)	
2. (Description of use)	Unit #1
3. (Description of use)	Unit #2
PLANNED UTILIZATION	
4. Preparation of payrolls for xxxx persons. Includes automatic print-out of (a) earnings statements, (b) leave balances, (c) personal services costs by organization, work program, and grade, (d) statement of deductions, and (e) miscellaneous personnel statistical reports. Feasibility study, including systems analysis, is under way and scheduled for completion in second quarter of FY 1960. Application scheduled to go on existing equipment during first quarter of FY 1961.	Unit #1
5. (Description of use)	Unit #3

DATA PROCESSING EQUIPMENT AND PERSONNEL UTILIZATION REPORT FOR FISCAL YEARS 1959, 1960, and 1961
(Continued)

AGENCY REPORTING: _____

(See definitions and instructions following)

PART II. COST OF OPERATION OF AUTOMATIC DATA PROCESSING UNITS

IDENTIFICATION OF ADP UNIT

UNIT NO.: _____

RESPONSIBILITY: _____ LOCATION: _____

DATE OF INSTALLATION: _____ USES (Cross-Reference to Part I): _____

BASIC UNIT(S) _____

ITEMS OF COST	COSTS BY FISCAL YEAR		
	1959 ACTUAL	1960 ESTIMATED	1961 ESTIMATED
A. OPERATING COSTS			
1. Salaries paid during year			
2. Overtime paid during year			
3. Rental of Computer Equipment, prime shift			
4. Rental of Computer Equipment, extra shift			
5. Rental of Punched Card (EAM) Equipment, basic & extra			
6. Supplies			
7. Contractual Services			
8. Total Operating Expenses (A 1 through A 7)			
B. CAPITAL OUTLAY (Obligations)			
1. Purchase of Equipment			
2. Site preparation			
3. Total Capital Outlay (Obligations)			

C. CAPITAL OUTLAY - COSTS	PURCHASE OF EQUIPMENT	SITE PREPARATION	TOTAL
1. Costs Through FY 1958			
2. Costs, FY 1959			
3. Costs, FY 1960 (Estimated)			
4. Costs, FY 1961 (Estimated)			
5. Costs, FY 1962 (Estimated)			
6. Costs to Complete (Estimated)			
7. Total Costs (C 1 through C 6)			
D. CAPITAL OUTLAY - APPROPRIATIONS			
1. Through FY 1960			
2. Requested FY 1961			
3. Needed to Complete			
4. Total Capital Outlay Appropriations			

E. PERSONNEL UTILIZATION	FY 1959 ACTUAL	FY 1960 ESTIMATED	FY 1961 ESTIMATED
1. Number of Personnel Involved in ADP Operations, End of Year			
2. Number of Personnel Shifts			

INSTRUCTIONS FOR PART II

1. For purposes of this report, an Automatic Data Processing (ADP) Unit is any organizational entity which processes data with the use of ADP equipment (see the Bulletin to which these instructions are attached for definition of ADP equipment).

The operation of an ADP Unit:

(a) includes the manual or mechanical conversion of raw data into the forms necessary for input to the data processing machinery used, e.g., input such as punched cards, paper tape, magnetic tape, etc., but excludes the earlier steps taken to produce the raw data;

(b) includes the manual and mechanical processing and use of the converted data to prepare end products such as more punched cards, more tapes and typed or printed reports and other documents for intended consumers, but excludes the use of these reports and documents by those consumers;

(c) includes the function of programming and reprogramming applications for ADP equipment and the systems analysis directly involved in that function, but excludes those studies of administrative systems that may be made before the programming function becomes applicable;

(d) includes systems engineering to the extent that this function is performed for scientific and engineering applications on ADP equipment;

(e) includes installation and testing of ADP equipment and experimental runs (debugging) of programs developed for the equipment;

(f) includes the preparation of a site for ADP equipment, e.g., construction, remodeling, air conditioning, rewiring, new circuitry, etc., but excludes the cost of power and other utilities and housekeeping;

(g) includes the use of data transmission systems, e.g., leased-line or Government-operated-line communication networks, transceivers, radio or microwave networks, and other communication systems, to the extent that these systems are involved in automatic data processing, but excludes the use of these systems for other purposes (Note: At the option of the reporting agency, the expense of operating data transmission systems may be reported as a separate line item or be included in the line items provided);

(h) includes preventive maintenance and repair of ADP equipment, whether included in equipment rental charges, by separate contract or by force account.

The foregoing eight items will be included in the costs herein reported, whether or not these items come within the organizational jurisdiction of the chief of the ADP Unit.

2. The following instructions pertain to specific items in the report format outlined:

(a) Unit No.: Number automatic data processing units consecutively (1, 2, 3, etc.). Prepare separate Part II for each unit.

(b) Location: Indicate city, and State or country.

(c) Responsibility: The bureau, office, field installation or other entity responsible for operating the ADP Unit.

(d) Date of installation: Report month and year when the unit was installed or is sheduled to be installed.

(e) Basic unit(s): If computer equipment is used, report make and model, e.g., "IBM 705, Univac 1103." If unit uses punched card equipment only, indicate "EAM."

(f) Uses: Report uses (sometimes referred to as "applications") by reference to the numbers appearing in Part I.

(g) Salaries paid during year: Report the amount of salaries paid during FY 1959 or to be paid during FY 1960 and FY 1961, excluding overtime, to personnel engaged in data processing operations. (See instructions for item E1 for the types of personnel whose earnings are to be reported.)

(h) Overtime paid during year: Report overtime paid in FY 1959 or to be paid in FY 1960 and FY 1961.

(i) Rentals of equipment (A3, 4 and 5): Report all rentals paid or to be paid during the three fiscal years, including part-year rentals of ADP equipment.

(j) Supplies (A6): Report the costs of specialized supply items used during the year, including tapes, cards for punching, paper for printing, etc.; but do not include costs of administrative and office supplies such as pads, pencils, etc. Where no record is maintained of the supplies actually used, the amount ordered or delivered may be reported, with a footnote indicating the basis selected.

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(k) Contractual services (A7): Includes all contracts involved with automatic data processing operations, such as contracts for programming, maintenance, training, use of service bureaus, management studies, systems analysis, and other costs not elsewhere classified. Contracts entered into before or in lieu of the acquisition of ADP equipment will be reported. Entries on this line will be footnoted to indicate the types of costs and services involved.

(NOTE: In the event operating costs are to be reported which are not applicable to those entered in items A1 through A7, agencies will add a new line identified as "7a - Other Costs" and footnote their reports to explain the nature of these costs.)

(l) Capital outlay - costs (C1 through C7): All agencies will report in terms of cost, whether or not accrual systems of accounting have been adopted. Where agencies have not adopted accrual systems of accounting, estimated costs may be used when different from obligations.

(m) Capital outlay - appropriations (D1 through D4): Explain any significant items of financing from other sources, e.g., another agency's appropriation.

(n) Number of personnel involved in ADP operations, end of year (E1): Include all personnel involved in data processing operations as their principal occupation, whether or not assigned to the ADP Unit, e.g., unit chief and assistants, supervisors, programmers, systems analysts, systems engineers, equipment operators, coders, clerks, typists, stenographers, key-punch operators, maintenance engineers. Do not include departmental and headquarters ADP staff personnel who are not directly involved in automatic data processing operations.

(o) Number of personnel shifts (E2): Report number of 8-hour shifts per day for which separate staffs are employed. Report fractions of shifts where applicable.

DATA PROCESSING EQUIPMENT AND PERSONNEL
UTILIZATION REPORT
FOR FISCAL YEARS 1959, 1960, and 1961
(Continued)

AGENCY REPORTING: _____

PART III. IDLE ADP EQUIPMENT TIME: AVAILABLE OR NEEDED

(Note: This requirement pertains only to interagency sharing of equipment time.)

1. ADP EQUIPMENT TIME AVAILABLE

A. Identification of ADP Unit involved: (by cross-reference to Part II).
B. Amount of time available: (expressed in hours by shift and, if necessary, by specific days or periods).
C. Special conditions to be met, if any: (including such items as charges and necessary flexibility in scheduling equipment use).
D. Specific person to contact for further negotiation:

(Repeat A through D above for each ADP Unit in which idle time is available for use of another agency.)

2. IDLE ADP EQUIPMENT TIME NEEDED

A. General description of requirement:
B. Specification of type of ADP equipment, when applicable:
C. How much time needed and when:
D. Special conditions to be met, if any:
E. Specific person to contact for further negotiation:

(Repeat A through E above for each requirement which necessitates separate identification.)

3. REPORT OF TRANSACTIONS INVOLVING INTERAGENCY SHARING OF ADP EQUIPMENT TIME, FY 1959

(Note: These transactions will be reported only by the agency having custody of the ADP equipment utilized.)

A. Name of agency which received the service:
B. General description of the service, indicating number of hours and whether one-time or recurring:
C. Funds (to be) transferred in payment for service:
D. ADP Unit involved (cross-reference to Part II):

(Repeat A through D above for each instance in which ADP equipment time was shared with another agency during FY 1959.)

Mr. BROOKS. I want to say, Mr. Boutin, that we appreciated having you here.

NEED FOR LEGISLATION

Did you have any questions, Mr. Rosenthal?

Mr. ROSENTHAL. Yes.

Could the purposes of this bill have been handled just as well by Executive order, by the President, rather than by legislation?

Mr. BOUTIN. We could have probably gotten there under the provisions of the 1949 act. There would have been some questions, some legal questions.

I would prefer to see it accomplished by passage of this legislation, Congressman, for a number of reasons:

No. 1, it clearly identifies the interest and the intent of Congress, itself. So, then, there is no question in anyone's mind of exactly what the Congress wants to have done.

No. 2, it spells out the authorities very clearly and very concisely, so there is no doubt in anyone's mind there.

So which is more desirable between the two? I say the legislation is substantially more desirable.

Mr. ROSENTHAL. I only asked that because I suspect some of our colleagues on the floor might ask that very same question.

Mr. BOUTIN. Well, you have a great many problems if you do not have the legislation. For instance, the revolving fund and how that was going to be administered. You would probably end up with a requirement for some legislation anyway, clarification, authorization for revolving fund.

I would say that this is the way to do it, clearly.

AMOUNT OF CAPITAL IN ADP REVOLVING FUND

Mr. ROSENTHAL. And, once again, can you tell us briefly why you feel there should not be any amount specified to be authorized in this legislation?

Mr. BOUTIN. Well, No. 1, we do not have a fix, and I do not think anyone else has, as the Comptroller General has testified and Mr. Mahoney, on exactly the requirement there is going to be on a continuing basis.

What are the assets that would be transferred to GSA at the outset of it? What are going to be the requirements for replacement equipment?

I cite as an example of that the importance of an agency's program, itself. General Services is a very good example.

In order to conform with the MILSTRIP requirements, single-line requisitioning of the Department of Defense, which became effective last July 1 on a crash basis, we changed our whole concept of ADP utilization within a matter of about 5 months. This, however, is not the end that we are seeking. We are now going from that plateau into a long-range program.

It would have been foolish for us to have purchased at that time. But it is prudent for us to purchase when we go into the long range.

So we are going to have to take a look at the requirements of each specific agency and department in order to pinpoint exactly what the financial requirements are going to be.

Mr. ROSENTHAL. And each of these agencies—this is the part that I find a little difficult to understand—each of these agencies, would they reduce their budgetary requests accordingly, because they would not need the funds to purchase this equipment?

Mr. BOUTIN. Yes, that is absolutely true. And also their budgetary requirements would be adjusted to the user charge that they would pay to GSA, rather than the rental that they would pay the manufacturers—whatever difference there may be in that area.

You would have in one great, big pot the total financial requirements within the framework of the revolving fund. And the only thing the agencies would then have would be the user charge that they would pay the General Services.

Mr. ROSENTHAL. The only thought I had, Mr. Chairman, is, I think, when we do prepare the report, we ought to have some financial analysis and anticipation of the costs of this program.

Mr. BROOKS. I think we can get this in fairly good terms.

Mr. BOUTIN. But it would have to be flexible, Mr. Chairman.

Mr. ROSENTHAL. We might meet some opposition on the floor if we cannot logically say this is going to cost X. We cannot just come in with an open-end desire.

Mr. BROOKS. To be fair about it, there is no way to know what HEW or what some of the given constituent agencies of the Congress are going to require. Take the Labor Department. It has a request for a certain capacity, and it is approved by the appropriate legislative committees. To implement that requirement that Congress has passed, it will need a certain type of machinery. You cannot anticipate exactly what this requirement will be.

That requirement would then have to be met out of the pool of equipment available to your GSA-ADP pool. And if GSA had equipment that would meet that need, then GSA would issue it to the Department of Labor.

Mr. ROSENTHAL. I am sure an analysis can be made, Mr. Chairman, of an approximate.

Mr. BROOKS. Well, we can get some figures, and we will. But, as he said, it would be flexible. We might be able to, and I would be hopeful that we could, get a pro rata saving—it is a little difficult—of purchase over lease of a given dollar input to the revolving fund. In other words, say $275 million expenditure over a 5-year period would result in a $148 million saving. And we might be able to relate the input to the savings as opposed to the present and old system.

Mr. STINSON. Mr. Chairman?

Mr. BROOKS. Mr. Stinson.

Mr. STINSON. Would you go along with the Comptroller General's figure of $275 million as the total capital outlay for providing the necessary equipment?

Mr. BOUTIN. We would really have no fix on this, you see, because the Comptroller General and his staff are the ones that have done this valuation, have made this evaluation, after long months of study. And, of course, that $275 million is related to the 523 machines. So when you start looking overall, it is pretty hard to pinpoint.

But I would have no doubt of the validity of the figures of the Comptroller General. We have not conducted a similar audit. We have had no opportunity, really, to do it.

Mr. STINSON. Well, would it be possible to take into consideration the value of the equipment currently being used by the various agencies, and come up with some kind of a figure, as to the total value of the equipment?

Could you do something like that?

The Congress, I would think, is going to have to have some kind of assurance as to how much capital outlay is going to be required, or they are not going to go along with this program.

Mr. BOUTIN. I would say, in answer to that, that it would be quite easy to come up with a figure along the lines you request from the information the Comptroller General has available right now. I would say he and his staff can come up with a pretty good fix on that, Congressman.

Mr. BROOKS. We will work on that. And I would just add, as an additional thought, that, of course, if we adopt this program and continue to lease or rent, you would still have considerable savings. Purchases would be made only with justification to the Appropriations Committees.

Mr. STINSON. Mr. Chairman, may I also suggest that, while we are getting some figures together, that we could come up with the approximate number of people that would be required to implement this saving. I think this would be a question that would be asked on the floor when this bill would come up. It usually is.

Mr. BROOKS. We will work on that.

I want to say, Mr. Boutin, that we certainly have appreciated your coming down. It would be helpful if you would furnish us with a memorandum outlining the comparable duties presently performed by the GSA to those set forth under H.R. 5171.

(The memorandum referred to follows:)

In accordance with request made at the hearings on H.R. 5171 on May 28, 1963, following is a statement outlining existing GSA activities and centralized service operations which are comparable to those proposed to be vested in GSA by H.R. 5171.

This legislation would have the effect of instituting for automatic data processing equipment and related services, the same efficient and economical management and utilization systems envisioned for all types of property and records when the Hoover Commission recommended, and the Congress established, the GSA.

1. CENTRALIZED PROCUREMENT AND CONTRACTING

Thousands of items are contracted for by GSA under its Federal Supply Schedule contracts against which the various Federal Agencies place orders throughout the year.

Specific purchasing and contracting techniques have been developed to meet the basic objectives of GSA's supply programs which are (1) continuity of supply, (2) short lead time, (3) flexibility to meet changing requirements, and (4) advantageous prices.

It is our practice to utilize a method of term contracting in stores item buying which provides a contract source against which orders may be placed as requirements arise. This has been advantageous to both the Government and supplier, enables GSA to minimize its inventories, and still provide rapid service. The contractor is in a position to commit raw materials, organize production schedules, avoid overtime to meet delivery schedules for large quantities, reduce the cost of production, and permits the contractor to meet Government de-

livery requirements on a businesslike basis without jeopardizing commercial accounts. This system has been effective with regard to most volume stock items and has produced advantageous prices as well as promoting industry confidence in doing business with the Government on a sound and realistic basis. We have achieved a situation analogous to that which commercial firms normally establish with respect to continuing supply relationships. In other words, we do business with industry on a basis to which they are accustomed and need not adjust in order to deal with the Government.

The same term contracting method has recently been applied successfully to items delivered directly to using agencies, such as appliances, furniture, heavy duty storage racks, wire rope, etc. However, in buying vehicles, bulk paper products, and other items where close production scheduling is essential to attracting advantageous prices, consistent with normal industry practices definite quantity procurements are made.

Term contracts are also utilized in connection with the Federal Supply Schedules program where using agencies place orders directly against contracts made by GSA. These contracts take full advantage of industry distribution systems in meeting Government supply needs and minimize the necessity for Government distribution of the items involved. Here, again, the Government is doing business with industry on the same basis as industry does business with its other customers. Adequate provision is made for using agencies to make direct purchases for emergency needs.

Taken on a total basis, approximately 80 percent of GSA's buying programs provide for direct delivery from the supplier to use point. This has resulted from a policy of designing our programs to make items available at the point of use when needed at the lowest overall cost to the Government, utilizing industry distribution to the maximum extent feasible and not undertaking distribution through Government warehouse system unless overall advantages will accrue.

Motor vehicles, office furniture and furnishings, typewriters, and automatic data processing equipment, and related maintenance services are examples of items covered by the FSS schedules. The centralized procurement of ADP equipment envisioned by H.R. 5171 would be consistent with the foregoing functions and should produce further economies to the Government through "bulk" buying.

2. CENTRALIZED SERVICES FOR OTHER AGENCIES

The authority which H.R. 5171 would vest in GSA is similar to several other existing GSA activities:

(a) Supply distribution system

GSA stores and distributes to other agencies thousands of line items of supply. Its supply distribution complex includes 46 depots, annexes, and retail stores. The operation is financed through a General Supply Fund (revolving) which, last year did $446.9 million in business.

(b) Motor pool

The GSA interagency motor pool is an example of an equipment pool provided for use of Federal agencies by GSA. In fiscal year 1962, the motor pool provided 24,359 vehicles which traveled 249 million miles. During the past 6 years, the average utilization per vehicle year increased from 7,907 to 11,684 miles, while the cost per mile decreased from 11.7 to 7.7 cents during the same period.

(c) Printing and reproduction

As authorized by the Joint Committee on Printing, GSA operates six field printing and duplicating plants for use by other Federal agencies as well as by GSA activities.

(d) Telecommunications

Telecommunications service for the Federal agencies is provided by GSA through the Federal Telecommunication System. The objective of FTS is to provide a unified system of day-to-day and emergency communications services for all Federal civilian agencies, compatible with military systems. The scope of the system encompasses all civilian agency telecommunications system planning, engineering, management, and operation of facilities and services.

Telephone, teletypewriter, data transmission, facsimile, and all forms of communications services necessary for Federal civilian agencies will be provided largely through utilization of the facilities of common carriers. Centralized

procurement of facilities and consolidation of services are prime considerations in realizing requirements of the system.

Significant improvements in service and savings have already resulted. During fiscal year 1962 consolidated switchboards in 85 cities served 9 percent more main and extension lines than in fiscal year 1961, with an increase of less than 4 percent in operating positions. The first stage of a nationwide direct distance dialing system was initiated on February 15, of this year, connecting 43 major cities in the United States.

GSA's consolidation of various teletypewriter networks formerly operated by civil agencies resulted in an annual savings of $1.8 million over commercial communication rates. Further savings in this area may be anticipated as the requirements for high speed data transmission facilities increase and the planned GSA Advanced Records System is installed. Central procurement of leased intercity communication lines are resulting in savings estimated at $7 million per year to the Federal agencies.

3. CENTRALIZED MANAGEMENT ACTIVITIES

(*a*) *Property inventories*

GSA is now taking and publishing annually, or as required, inventories of property including (1) real property owned by the Government, (2) real property leased by the Government, (3) annual motor vehicle report, (4) jurisdictional status of real property, and (5) water pollution facilities. More recently we began compilation and publication of the annual inventory of ADP equipment in Government.

(*b*) *Supply management surveys*

As a regular practice, GSA staff assists other agencies in establishing and maintaining efficient supply management systems. Many surveys have been made of other agency activities and the recommendations made by GSA have resulted in substantial economies to the Government.

(*c*) *Buildings and space management*

GSA is providing space to all Federal agencies in existing Federal buildings, through construction of new buildings, or through centralized leasing of space. This centralization of procurement of space and related services, and the control of space utilization by GSA is saving the Government many millions of dollars annually. Executive Order 11035 issued by the President last July strengthened GSA's authority in this area.

GSA is already providing specially designed space and safety features required for Federal Government computer installations and promulgating protection, environment, and safety regulations that will avoid some of the costly fires and other disasters which have occurred in the past.

(*d*) *Utilization and disposal of excess and surplus property*

Through the Utilization and Disposal Service, GSA promotes the maximum possible use of excess personal and real property by Federal agencies, and provides for the rehabilitation of personal property owned by the Government to extend its useful life. We also arrange for the utilization of available excess personal property by the Federal agencies and arrange for the sale of items to the public when there is no longer a demand by the Federal agencies for such items.

Computers and other ADP equipment purchased by the Federal agencies and no longer required already come to this Service for screening and disposition. While only a few computers have been declared excess to date, we are presently in the process of developing a special regulation governing the procedures for reporting excess to GSA and making these computers a first source of supply for agencies in the market for ADP equipment.

(*e*) *Records management*

The National Archives and Records Service has provided substantial guidance and assistance to the Federal agencies in the analysis of paperwork management problems and the development and installation of improved procedures and methods. It also provides a very effective source data automation development and training program to encourage the use of integrated data processing techniques.

GSA operates 14 regional records centers and 2 national personnel records centers which provide for selective retention and low-cost storage of Federal records. During the past year, 286,900 square feet of office space and 246,900 square feet of storage space were cleared. Transfers of records to the centers likewise cleared 48,700 file cabinets, 8,600 transfer cases, and 611,200 linear feet of shelving.

Mr. BROOKS. Do your associates there have any comment they might want to add?

Mr. Turpin?

Mr. TURPIN. No, sir.

Mr. Boutin is very familiar with the whole program and many of the details. I do not believe I can supplement any of his comments at this time, Mr. Chairman.

Mr. BROOKS. Mr. Moody?

Mr. MOODY. Nothing further to add, Mr. Chairman.

Mr. BROOKS. Mr. Griffin?

Mr. GRIFFIN. No, sir.

Mr. BROOKS. We have been very pleased to hear the Comptroller General, Joseph Campbell, reiterate the critical need for more effective management of the hundreds of millions of dollars of the automatic data processing equipment now being used by the Federal Government.

We are also pleased to have heard Mr. Bernard Boutin of the GSA testify that the GSA has the capacity to promptly implement this legislative proposal.

I would say, with a cash savings of substantially more than $100 million every year at stake, I believe the taxpayers will want this subcommittee to continue its intensive work towards effecting these savings at the earliest possible moment. If there are no further questions from the members, the subcommittee stands adjourned.

(Whereupon, at 11:50 a.m., the subcommittee adjourned, subject to the call of the Chair.)

APPENDIXES

APPENDIX I

REPORT TO THE CONGRESS OF THE UNITED STATES, STUDY OF FINANCIAL ADVANTAGES OF PURCHASING OVER LEASING OF ELECTRONIC DATA-PROCESSING EQUIPMENT IN THE FEDERAL GOVERNMENT, BY THE COMPTROLLER GENERAL OF THE UNITED STATES, MARCH 1963

COMPTROLLER GENERAL OF THE UNITED STATES,
Washington, March 6, 1963.

B-115369.

To the President of the Senate and the Speaker of the House of Representatives:

Herewith for the information of the Congress is the report on our study of the relative financial advantages of purchasing over leasing of electronic data processing equipment in the Federal Government.

The Federal Government is a large user of data processing equipment in its operations, but most of the equipment is leased. Of a total of 1,006 electronic computers installed in the Government at June 30, 1962, 867, or 86 percent, were leased. Rental payments for the fiscal year 1962 on such equipment were about $145 million. These statistics exclude equipment used in certain classified military, intelligence, and surveillance operations.

Our study shows that very substantial amounts of money could be saved if the Federal Government purchased more of its data processing equipment needs. he detailed cost comparisons of 16 different electronic machine models, which constituted the principal part of our study, indicate potential savings of about $148 million over a 5-year period. These significant possible savings apply to only 523 of approximately 1,000 electronic data processing systems installed or planned for installation on a lease basis by June 30, 1963. For additional use of the 523 machines after 5 years, there would be further savings at the rate of over $100 million annually.

We believe that, to fully realize savings of such magnitude, basic changes in the Government's overall management system will be necessary. Decisions as to the financial advantages of purchasing will have to be made from the standpoint of the Government as a whole, and not primarily from the standpoint of individual using agencies as has been the practice in the past. In addition, more attention needs to be given to obtaining more complete utilization of the equipment acquired. We believe that the only practicable way in which the kind of coordinated management can be practiced to achieve the possible financial savings cited is through the establishment of a small, highly placed Central Management Office in the executive branch of the Government. Accordingly, we are recommending to the President of the United States that he establish such an Office in his organization.

The report also contains a general recommendation to the heads of all using departments and agencies that they arrange for a prompt and complete reappraisal of their current plans to lease data processing equipment and take such action as is possible to realize the financial savings that may be available from purchasing such equipment and fully utilizing it.

Copies of this report are being sent to the President of the United States, to the Director, Bureau of the Budget, and to the heads of all departments and agencies that use electronic data processing equipment.

JOSEPH CAMPBELL,
Comptroller General of the United States.

INTRODUCTION

In the period of a little over 10 years since the introduction of the first general-purpose electronic computer at the Bureau of the Census in the Department of Commerce, the use of electronic computing devices has expanded widely throughout the Federal Government. This equipment is being used in a great variety of Government operations and for many different purposes.

As of June 30, 1962, there were approximately 1,006 electronic computers[1] installed in Federal Government agencies. Of this total, 867, or 86 percent, were leased and only 139 had been purchased by the Government. Rental payments for the use of leased equipment were approximately $145 million for the fiscal year 1962.

The General Accounting Office has made a study of the relative financial advantages of purchasing the electronic data processing (EDP) equipment used by the Federal Government over the practice of leasing such equipment. This study was prompted in the first instance by the Subcommittee on Census and Government Statistics of the Committee on Post Office and Civil Service, House of Representatives, which conducted hearings in 1959 on the use of electronic data processing equipment in the Federal Government.

At that time, members of the subcommittee raised a question as to the economic aspects of the apparently predominant pracitce in the Federal Government of leasing electronic data processing equipment rather than purchasing it. The suggestion was made that the General Accounting Office and the Bureau of the Budget inquire into this policy. Other congressional committees have also expressed interest in this problem.

Federal agency policies and practices in the procurement of EDP equipment were studied by both our Office and the Bureau of the Budget. On August 26, 1960, and November 8, 1961, our Office submitted to the subcommittee two short reports on the results of these joint studies. The second of these reports transmitted a copy of Bureau of the Budget circular No. A–54, which had been issued in October 1961, to prescribe policies on selection and acquisition of automatic data processing equipment to be observed by Federal agencies and contractors operating Government-owned facilities. These reports and the circular A–54 summarize the principal factors requiring consideration in management decisions as to the method of acquiring ADP equipment and are accordingly included in this report as appendix I.

In the meantime, the General Accounting Office undertook a more comprehensive study of the relative financial advantages of the two basic methods of procuring the use of EDP equipment, and the results of this extended work is the subject of this report.

GENERAL SCOPE OF STUDY

The principal part of our additional study consisted of selecting 18 electronic data processing system models, which we consider to be generally representative, and computing the comparative costs over a 5-year period of use of such machines by leasing and by purchasing.

The factors considered in making these computations are described on pages 15 to 18, and the results of these computations are summarized in exhibits A, B, and C.

During this study, we also reviewed selected instances as to individual Federal agency action on price reductions announced by manufacturers for the purchase of data processing equipment.

SUMMARY OF CONCLUSIONS AND RECOMMENDATION

The cost comparisons made in our study demonstrate that very substantial amounts of money can be saved by the Federal Government in the years to come if, in acquiring the use of needed data processing equipment, proper cost comparisons are made in advance, action is taken to purchase equipment when such comparisons indicate the financial advantage of such action, and effective procedures exist to obtain the fullest, practicable utilization of such equipment by Government agencies.

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[1] Electronic data processing machines estimated to be installed in Federal Government operations, exclusive of those used for military tactical operations, intelligence, surveillance systems, and certain other military programs. The source of these statistics is the "Inventory of Automatic Data-Processing (ADP) Equipment in the Federal Government" published by the Bureau of the Budget, August 1962.

The cost comparisons with respect to 16 of the 18 machine models studied during our review indicate potential savings of approximately $148 million over a 5-year period (see exhibit A). The 16 different electronic machine models used for our study represent 523 of the approximately 1,000 electronic data processing systems installed or planned for installation on a lease basis by June 30, 1963. For additional use of the 523 machines after 5 years, there would be further savings at the rate of over $100 million annually.

The general conclusions which we have reached on the basis of our study are as follows:

1. If possible and substantial savings are to be fully realized, management decisions as to whether data processing equipment should be purchased or leased should be made from the standpoint of advantage to the Government as a whole and not from the standpoint of the individual using agencies.

2. Because of the substantial savings that may be available, all decisions to acquire the use of data processing equipment should be supported by specific computations showing the comparative costs of acquiring by lease and by purchase.

3. Where purchasing is financially advantageous, the realizable savings increase in proportion with the increase in utilization of the machines.

4. The savings possible through purchasing are more pronounced for the larger and more complex machine systems.

5. While significant savings may be realizable in many instances through purchasing rather than leasing, for some types of electromechanical equipment, it is more advantageous financially to lease rather than to purchase.

With the present system of decentralized management in the Federal Government under which each agency makes its own decisions as to whether the use of data processing equipment should be acquired by lease or by purchase, there is no effective coordinating machinery at work to give consideration to these alternatives from the standpoint of benefit to the Government as a whole. Because of the very substantial financial savings that can be realized through more extensive purchasing of such equipment and the related need for directing and coordinating its utilization throughout the Government, we are recommending to the President of the United States that a central management office suitably empowered to perform these functions be established in his organization. We are convinced that the establishment of such an office is the only practicable way to provide the kind of management that will make possible the realization of savings of hundreds of millions of dollars in the years to come.

Expanding Use of Electronic Data Processing Systems in the Federal Government

In our report to the Congress on "Review of Automatic Data Processing Developments in the Federal Government" (B–115369, Dec. 30, 1960), we stated that there had been a continuous, upward trend in both the quantity and complexity of electronic data processing equipment being used in Government operations. This trend continues. New areas of computer use are being pioneered in such fields as automatic retrieval of information and in communication systems where electronic computers seem destined to play an increasing role. Also, the application of many new scientific management techniques depends on computers to process the enormous number of calculations that are required to carry out such advanced techniques.

Evolution of Equipment

During fiscal year 1960, Federal agencies began receiving deliveries of the more advanced solid-state equipment. This new equipment was brought about through the development of the transistor and other solid-state devices which are used in place of the vacuum tube found in earlier computer models. Transistors are but a fraction of the size of vacuum tubes, require less power, generate less heat, and are generally more reliable. The diminutive size of transistors has led to miniaturization of circuitry so that whole circuits can be placed on small card forms. In contrast to the vacuum tube systems, the solid-state systems are more compact, require less floor space and reinforced flooring, require less special power and air-conditioning facilities, are more easily maintained, and operate at faster speeds and with greater versatility.

Today, suppliers offer a broad range of solid-state equipment that can be applied to many operations throughout Government, as well as business and industry.

NUMBER OF SYSTEMS IN USE OR PLANNED

For the past several years, the Bureau of the Budget has published an inventory report setting forth statistics on the Federal Government's use of automatic data-processing equipment. These reports are based on data submitted by all Federal agencies. They exclude information on data-processing systems used for military tactical operations, intelligence, surveillance systems, and certain other military programs.

Statistics on electronic systems set forth in these reports show:

At June 30	Number of systems	Number leased	Number purchased	Percent purchased
1960 (actual)	531	433	98	18.5
1961 (actual)	730	613	117	16.0
1962 (estimated)	1,006	867	139	13.8
1963 (projected)	1,169	1,006	163	13.9

THE PRACTICE OF LEASING

The Federal Government's practice of leasing data-processing equipment originated prior to the development of electronic computers, at a time when mechanized data-processing systems consisted primarily of electric accounting machines (EAM). Most of these machines were supplied by the International Business Machines Corp. (IBM), whose policy was to lease rather than to sell this type of equipment. In view of this policy, as well as certain conditions considered to be of a monopolistic nature, the Attorney General of the United States, on January 21, 1952, entered a complaint against this company in the District Court of the United States for the Southern District of New York, charging violations of sections 1 and 2 of the "act to protect trade and commerce against unlawful restraints and monopolies" (commonly known as the Sherman Antitrust Act).

Final judgment was filed and entered in a consent decree 4 years later on January 25, 1956, by which time IBM was also manufacturing electronic data-processing equipment. Among other provisions, the judgment provided that IBM offer data-processing equipment for sale as well as for lease. In accordance with this decree, IBM has since offered its equipment for lease or for sale.

This change in policy did not have any immediate effect on the practice of Government agencies of leasing this kind of equipment, and it has not subsequently had any material effect on the practice. For example, at the present time, more than 7 years after the equipment was offered for sale, most EAM equipment manufactured by IBM is leased and, of the 670 EDP machines manufactured by IBM and reported to be on hand at the close of fiscal year 1962, only 37, or 6 percent, had been purchased.

In addition to the International Business Machines Corp., about 20 other manufacturers supply the Government with electronic data-processing equipment. All of these manufacturers offer equipment on a purchase as well as on a lease basis. The following tabulation lists the manufacturers furnishing such equipment to the Federal Government as of June 30, 1962, and shows the total number of systems in use, the number leased and purchased, and the percentage the purchased systems bear to the total number of systems. This information is summarized from the "Inventory of Automatic Data-Processing Equipment in the Federal Government," published by the Bureau of the Budget, August 1962.

Manufacturer	Total number of systems	Number leased	Number purchased	Percentage purchased
Advanced Scientific Instruments, Inc.	1			
Bendix Computer Division, Bendix Corp.	36	26	1	100.0
Burroughs Corp.	37	23	10	28.0
Control Data Corp.	28	20	14	38.0
Alwac Computer Division, El-Tronics, Inc.	7		8	29.0
General Electric Corp.	6	6	7	100.0
General Mills	1			
Librascope Division, General Precision, Inc.	4	1	1	100.0
Minneapolis-Honeywell Regulator Co.	9	9	3	75.0
International Business Machines Corp.	670	633		
Monroe Calculating Machine Co.	2	2	37	6.0
Autonetics Division, North American Aviation, Inc.	24	12		
The National Cash Register Co.	11	9	12	50.0
Packard Bell Electronics Corp.	5	4	2	18.0
Philco Corp.	6	6	1	20.0
Radio Corp. of America	42	40		
Univac, Division of Sperry Rand Corp.	64	48	2	5.0
Royal McBee Corp.	37	27	16	25.0
Sylvania Electric Products, Inc.	1	1	10	27.0
Others [1]	15			
Total	1,006	867	15	100.0
			139	13.8

[1] Manufacturers that furnish computer systems built specifically for a particular application. Generally they are not easily adapted to other applications.

INCREASED USE OF ELECTRONIC DATA PROCESSING SYSTEMS

The following tabulation shows as of the close of fiscal year 1962 the number of computer systems used by each department or agency, the number leased, the number purchased, and the percentage those purchased bear to the total.

Department or agency	Number of computer systems	Number leased	Number purchased	Percentage purchased
Department of Defense:				
Office of the Secretary	27	26	1	4.0
Department of the Air Force	263	244	19	7.0
Department of the Army	158	133	25	16.0
Department of the Navy	178	151	27	15.0
Total	626	554	72	12.0
Atomic Energy Commission	112	72	40	36.0
National Aeronautics and Space Administration	83	76	7	8.0
Department of the Treasury	34	34		
Department of Commerce	29	20	9	31.0
Department of Health, Education, and Welfare	28	28		
Department of Agriculture	15	13	2	13.0
Federal Aviation Agency	15	12	3	20.0
Post Office Department	13	13		
General Services Administration	10	10		
Veterans' Administration	9	8	1	11.0
Department of the Interior	8	6	2	25.0
All others	24	21	3	13.0
Total	1,006	867	139	13.8

BUREAU OF THE BUDGET CIRCULAR NO. A–54

After studying the various factors affecting lease-purchase decisions, the Bureau of the Budget issued Circular No. A–54, in October 1961, prescribing policies to be observed by Federal agencies in acquiring ADP equipment. This circular requires that agencies use a 6-year factor in ascertaining which method is most favorable from the standpoint of expenditures. In other words, if rental charges over a 6-year period exceed purchase and related maintenance costs, the decision to purchase should be made. Normally, most systems would be purchased under this policy. However, the application of the policy is dependent upon the user's having a continued need for the particular equipment throughout the 6-year period. If a user anticipates changes in data processing requirements which might necessitate equipment changes prior to the expiration of the amortization period, he need not purchase.

As indicated by the statistics on computers in use or planned (see p. 7), the Bureau's circular has apparently had little effect so far on lease-purchase decisions by individual agencies.

LIMITED PERSPECTIVE USED IN DETERMINING THE USEFULNESS OF DATA PROCESSING EQUIPMENT TO THE GOVERNMENT

With more than 1,000 systems now in use (exclusive of certain military tactical, intelligence, and surveillance systems), the Federal Government is the world's largest user of electronic data processing equipment. For the most part, the equipment is general purpose in nature; that is, it can be used to perform numerous different kinds of tasks once programed to do so. Because of the wide variety of Government equipment needs, most equipment installed can be considered to be useful to the extent that, if purchased and no longer needed for its originally intended purpose, it can be placed in use for other purposes in other activities.

Government applications range from critical scientific and defense operations to many less demanding administrative functions. In making lease versus purchase determinations, each Federal agency considers only the various factors involved from its own standpoint, and this practice has had much to do with the fact that 86 percent of the systems now in use are leased. If, however, the usefulness of equipment is considered from the standpoint of advantage to the Government as a whole, including consideration of use for subsequent or less demanding tasks as well as for the primary or originally intended purposes, the economic advantage of purchasing becomes more evident. Had this viewpoint been used in making lease versus purchase decisions in the past and if an effective procedure had existed for transferring equipment within the Government, the fears of a loss of flexibility through purchasing, which has to some extent influenced individual agency decisions to lease, should have been overcome.

In some cases, because of defense or other critical national needs, it is necessary to use the latest models of equipment. However, most EDP equipment is general purpose in nature and it could fulfill data processing needs in less demanding areas for a number of years after it has outlived its usefulness for the original task.

ECONOMIC OBSOLESCENCE VERSUS TECHNOLOGICAL OBSOLESCENCE

Development of new equipment has been so rapid that much electronic equipment is technologically surpassed by more advanced models by the time it is installed. However, from an economic point of view, considering overall Government needs, most equipment can be considered as having a useful life of at least 5 years. The physical life of such equipment may extend well beyond a 5-year period after which maintenance and upkeep charges become the main cost factors to be considered. If the originally installed equipment can be productively and satisfactorily used at a lower cost than newly developed equipment, it would seem that, unless timeliness of data processing or some other feature becomes the overriding factor, the older equipment should be retained in use until the cost advantage favors conversion to the technically superior equipment.

DETAILED COST COMPARISONS

During our study, we selected 18 electronic data processing models and determined for each component the costs of leasing, purchasing, and maintenance and the interest applicable to these costs. For each component, we then compared the total cost of rental over a 5-year period with the cost of outright purchase plus the cost of maintenance. All comparisons were made for one-, two-, and three-shift operations. These comparisons are summarized in exhibit B and are set forth in detail for each machine system in exhibit C.

A condensed summary of the results of these comparisons is shown below.

Manufacturer	System identification	Savings or losses (−) from purchasing instead of leasing		
		1 shift	2 shifts	3 shifts
		176 hours	*352 hours*	*528 hours*
International Business Machines Corp	7090	$644,000	$2,184,000	$3,724,000
Philco Corp	2000	−143,000	1,181,000	2,505,000
International Business Machines Corp	7080	333,000	1,397,000	2,461,000
Control Data Corp	1604	923,000	1,830,000	2,737,000
Minneapolis-Honeywell Regulator Co	800	112,000	673,000	1,233,000
Burroughs Corp	5000	315,000	886,000	1,456,000
Univac, Division of Sperry Rand Corp	Univac-III	−15,000	276,000	566,000
International Business Machines Corp	7070	70,000	432,000	795,000
The National Cash Register Co	315	38,000	83,000	143,000
International Business Machines Corp	1410	67,000	323,000	579,000
Univac, Division of Sperry Rand Corp	Univac SS-90.	−21,000	149,000	335,000
Minneapolis-Honeywell Regulator Co	400	23,000	171,000	318,000
International Business Machines Corp	1401 [1]	27,000	158,000	288,000
Do	1401 [2]	7,000	137,000	267,000
Do	1401 [3]	−11,000	41,000	94,000
Control Data Corp	160A	24,000	75,000	127,000
		200 hours	*484 hours*	*612 hours*
Radio Corp. of America	501	80,000	42,000	45,000
Do	301	26,000	18,000	23,000

[1] Card and tape system operated as offline equipment to a larger system.
[2] Card and tape system.
[3] Card system.

FACTORS CONSIDERED IN MAKING COST COMPARISONS

The factors considered in our computations were:

Time period: Five years.

Lease: Rentals and interest on rentals.

Purchase: Purchase price, interest on purchase price, maintenance costs, and interest on maintenance costs.

These factors are described more fully in the following sections. Other costs related to the acquisition and use of data processing systems, such as transportation, site preparation, and training costs, are identical under either lease or purchase arrangements and consequently for comparison purposes can be excluded.

Five-year period

Federal Government experience with electronic data processing devices over the past 12 years has shown that with proper maintenance this type of equipment has a useful lifespan of at least 5 to 10 years. Some of the machines installed in Federal agencies in the early and mid-1950's are still in service. Generally speaking the older machines that are still in use are those which were purchased outright by the Government. Also, despite the rapid changes that have taken place in equipment design, a large number of machines that were rented were used for periods of 5 years or more before being replaced by modern equipment.

It is generally agreed that the new "second generation" solid-state machines will have a considerably longer useful life than the "first generation" vacuum tube type of machines. The question of economic obsolescence versus technological obsolescence related to the useful life of electronic equipment is discussed briefly on page 13.

We selected 5 years as being a conservative estimate of the economic useful life of electronic data processing machines for purposes of making comparisons of lease costs with purchase costs. It should be noted that to the extent that this period is less than the actual useful life of the equipment, the computed savings are understated.

Rentals

Each year since fiscal year 1958, the General Services Administration on behalf of the Federal Government has entered into contracts with equipment suppliers for the rental of EDP equipment. In fiscal year 1962, 17 rental contracts were in effect. Through January 15, 1963, 16 contracts had been written covering fiscal year 1963.

Basically these contracts are concerned with rental rates and the terms and conditions that bear upon the application of these rates. The rates are established by the supplier and are the same as those charged commercial users of this equipment. These rates are accepted by the General Services Administration for use through the Government without further negotiation. The terms and conditions, however, are negotiated. The rental rates appearing in these contracts for use of equipment are the rates used in our computations.

Purchase price

For fiscal year 1962, for the first time, two of these contracts contained purchase and maintenance sections as well as sections on rental arrangements. In fiscal year 1963, 14 contracts containing purchase sections and 13 containing maintenance sections had been written through January 15, 1963. As in the case of rental prices, purchase prices are set by the suppliers and are not further negotiated by the General Services Administration. Terms and conditions relating to purchasing are, however, negotiated.

Where purchase contracts had been established, the contract prices were used in our computations. In those cases where no purchase contract was in effect, purchase price information was obtained directly from the supplier.

Purchase price data used in our computations relate to new equipment. Most installed equipment is offered for sale to users at reduced prices, usually depending on the length of time that the equipment has been installed. On the other hand, in almost all cases, rental prices do not decrease with the aging of the equipment. To the extent that used equipment was included in our determinations of projected savings, the cost of purchasing is overstated and estimated savings from purchasing are understated.

Maintenance costs

As mentioned previously, contracts providing for the maintenance of purchased equipment have been written with equipment suppliers for fiscal years 1962 and 1963. For these contracts, as for the rental and purchase contracts, rates proposed by the suppliers are accepted and the terms and conditions are negotiated.

Interest

It is our position that interest is a cost which is related to all Government expenditures. In our calculations of applicable interest costs, we used the average rate of marketable obligations of the outstanding public debt as of December 31, 1961 (3.146 percent).

SIGNIFICANCE OF COMPUTED SAVINGS ON INDIVIDUAL SYSTEMS

As indicated in the condensed summary on page 14, 14 of the 18 systems compared for the 5-year base period show a purchase advantage on a one-shift basis. All 18 systems show a purchase advantage on a two- and three-shift basis. These comparisons show clearly that purchase, rather than lease, of electronic data processing equipment can result in substantial savings. Some widely used models of electronic data processing equipment offer the greatest purchase advantages.

For example, the purchase of a representative IBM 7090 system could result in savings of $644,000 if operated on a one-shift basis, $2.184,000 if operated on a full two-shift basis, and $3.724.000 if operated on a three-shift basis. Continued use of the system past the 5-year period would produce additional savings of from $772,000 to $1,512,000 annually depending upon the extent of use. (These additional savings are measured by equipment rentals not paid less estimated maintenance costs.)

According to the inventory of automatic data processing equipment in the Federal Government, issued by the Bureau of the Budget in August 1962, there will be 42 IBM 7090 and 7094 systems in use by June 1963. Of these, 6 are to be purchased and 36 are to be leased. To illustrate the magnitude of savings available through purchasing, the following tabulation projects the estimated amount of savings that could be realized over a 5-year period for the 36 systems if they were purchased rather than leased and the estimated amount of annual savings for each year of continued use beyond the initial 5 years. These projected savings are based on the computed savings applicable to the representative IBM 7090 system shown in exhibit C and on the planned use per month as reported by the respective agencies to the Bureau of the Budget.

Estimated savings available to the Government through purchasing 36 IBM 7090 and 7094 systems scheduled to be leased by June 30, 1963

Agency	Location	Use per month		Estimated savings over 5-year period available through purchase	Estimated annual savings after initial 5-year period
		Hours	Shift equivalent		
Atomic Energy Commission	Albuquerque, N. Mex.	300	1¾	$1,799,000	$994,000
Do	New York, N.Y.	176	1	644,000	772,000
Do	do	350	2	2,184,000	1,068,000
Do	San Francisco, Calif.	616	3½	4,494,000	1,512,000
Do	do	616	3½	4,494,000	1,512,000
Department of Commerce	Washington, D.C.	200	1¼	1,029,000	846,000
Do	do	176	1	644,000	772,000
Do	Denver, Colo.	176	1	644,000	772,000
Do	Washington, D.C.	480	2¾	3,339,000	1,290,000
Do	do	200	1¼	1,029,000	846,000
Department of the Air Force	Dayton, Ohio	210	1¼	1,029,000	846,000
Do	do	354	2	2,184,000	1,068,000
Do	Fort Walton, Fla.	176	1	644,000	772,000
Do	Washington, D.C.	450	2½	2,954,000	1,216,000
Do	do	215	1¼	1,029,000	846,000
Do	Omaha, Nebr.	340	2	2,184,000	1,068,000
Do	do	176	1	644,000	772,000
Department of the Army	Washington, D.C.	125	1	644,000	772,000
Do	Huntsville, Ala.	260	1½	1,414,000	920,000
Do	White Sands, N. Mex.	264	1½	1,414,000	920,000
Department of the Navy	Washington, D.C.	183	1	644,000	772,000
Do	China Lake, Calif.	176	1	644,000	772,000
Do	Dahlgren, Va.	407	2¼	2,569,000	1,142,000
Do	Baltimore, Md.	272	1½	1,414,000	920,000
Do	Point Mugu, Calif.	176	1	644,000	772,000
Do	Washington, D.C.	287	1¾	1,799,000	994,000
Federal Aviation Agency	Atlantic City, N.J.	211	1¼	1,029,000	846,000
National Aeronautics and Space Administration.	Cleveland, Ohio	240	1¼	1,029,000	846,000
Do	Newport News, Va.	200	1¼	1,029,000	846,000
Do	Huntsville, Ala.	528	3	3,724,000	1,364,000
Do	do	528	3	3,724,000	1,364,000
Do	Washington	347	2	2,184,000	1,068,000
Do	do	140	1	644,000	772,000
Do	do	140	1	644,000	772,000
Do	do	140	1	644,000	772,000
Do	Mountain View, Calif.	176	1	644,000	772,000
Total				57,449,000	34,378,000

The foregoing tabulation shows that total estimated savings of $57,449,000 could be achieved over an initial 5-year period of use through purchasing rather than leasing these 36 systems. It shows also that estimated savings for each year of continued use past this period would be $34,378,000. (These annual savings represent the amount of rental costs not incurred less maintenance costs.) Thus, if these systems were purchased, rather than rented, and used for 7 years, the Government would realize savings of approximately $126,200,000.

Another example of savings available through purchasing is offered by the IBM model 7080 system. The purchase of this model would produce savings of $333,000 when the system is operated on a one-shift basis. Operation on a two-shift basis would produce savings of $1,397,000. On a three-shift basis, the savings would be $2,461,000. Continued use past the initial 5-year period

would produce additional annual savings of from $537,000 to $945,000 depending on the extent of use of the equipment.

According to the Bureau of the Budget inventory published in August 1962, there will be 16 IBM 7080 systems in use in the Government by June 30, 1963. One of these is to be purchased and 15 are to be leased. Based on the computed savings applicable to the representative IBM 7080 system, shown in Exhibit C, and on the planned monthly use as reported by the respective agencies to the Bureau of the Budget, estimated savings available through purchase, rather than lease, of the 15 IBM 7080 systems would be as shown in the following tabulation:

Estimated savings available to the Government through purchasing 15 IBM 7080 systems scheduled to be leased by June 30, 1963

Agency	Location	Use per month		Estimated savings over 5-year period available through purchase	Estimated annual savings after initial 5-year period
		Hours	Shift equivalent		
Office of Secretary of Defense	Dayton, Ohio	550	3	$2,461,000	$945,000
Do	Battle Creek, Mich	480	2¾	2,195,000	894,000
Department of the Air Force	Dayton, Ohio	400	2¼	1,663,000	792,000
Do	Ogden, Utah	450	2½	1,929,000	843,000
Do	Oklahoma City, Okla	400	2¼	1,663,000	792,000
Do	Harrisburg, Pa	400	2¼	1,663,000	792,000
Do	Mobile, Ala	400	2¼	1,663,000	792,000
Do	San Antonio, Tex	400	2¼	1,663,000	792,000
Do	Memphis, Tenn	400	2¼	1,663,000	792,000
Department of the Army	St. Louis, Mo	367	2	1,397,000	741,000
Department of the Navy	Harrisburg, Pa	250	1½	865,000	639,000
Do	Washington, D.C	220	1¼	599,000	588,000
Department of Health, Education, and Welfare	Baltimore, Md	442	2½	1,929,000	843,000
Do	Baltimore, Md	372	2	1,397,000	741,000
Veterans Administration	Chicago, Ill	380	2¼	1,663,000	792,000
Total				24,413,000	11,778,000

This tabulation shows that, through purchasing rather than leasing, estimated savings of $24,413,000 could be realized over an initial 5-year period of use and that there would be additional savings of $11,778,000 for each year of continued use past this period. If used for a total of 7 years, the purchase of the 15 systems would produce estimated savings of $47,969,000.

These projections of estimated savings applicable to the IBM 7090, 7094, and 7080 systems and similar projections applicable to 14 systems [2] of the remaining 16 involved in our study show that the possible total savings available over a 5-year period would approximate $148 million. These projections are summarized in exhibit A. For additional use after the initial 5-year period, there would be further savings at the rate of over $100 million a year.

These significant possible savings apply to only 523 of the approximately 1,000 systems that will be leased throughout the Federal Government by June 30, 1963. The full potential of the possible savings that could be realized through a management system that would give full recognition to these possibilities is difficult to estimate. However, we believe that the Government could save hundreds of millions of dollars in the next several years as a result of proper consideration of the financial benefits of purchasing and appropriate action, including the establishment of effective arrangements to promote the fullest, practicable utilization by all Federal agencies of data processing systems.

NEED TO CONSIDER SEPARATELY EACH COMPONENT FOR LEASE OR PURCHASE

The detailed cost comparisons of the 18 systems set forth in exhibit C demonstrate that each component of a system should be considered separately for lease

[2] Two of the systems (Burroughs B–5000 and Sperry Rand UNIVAC III) for which we made cost comparisons are new, and the Bureau of the Budget inventory report showed none of these two systems scheduled to be under lease by June 30, 1963.

or purchase. These computations show that the cost advantage of purchasing some electromechanical components, such as printers, card readers, and card punches, is not as great as the cost advantage available through the purchase of electronic components. In some cases, it is clearly disadvantageous to purchase electromechanical components. This is due in part to pricing policies of equipment suppliers and to the greater need for maintenance on electromechanical components because of the inherent wearing characteristics of mechanical parts. These factors would have to be weighed heavily in considering the purchase of these components. It might well be that, for the small cost advantage available, it would not be worth the risk of purchasing a component that may cause a serious maintenance problem or one that may have to be completely replaced because of constantly increasing maintenance requirements.

Because of these factors, detailed computations such as those shown in exhibit C should be made in order to provide the financial information necessary for deciding which components should be purchased and which one should be leased.

SAVINGS AVAILABLE THROUGH FULL USE OF GOVERNMENT-OWNED FACILITIES

Our comparisons demonstrate two additional points that should be emphasized. First, the larger or more sophisticated a system, the greater the rate of purchase advantage. This point is illustrated in the following tabulation of selected IBM systems analyzed. The rate of purchase advantage may be expressed as the percentage the purchase advantage (savings) bears to the total cost of purchasing.

IBM system	Cost to purchase [1]	One shift		Two shifts		Three shifts	
		Amount of purchase advantage	Rate of purchase advantage	Amount of purchase advantage	Rate of purchase advantage	Amount of purchase advantage	Rate of purchase advantage
			Percent		*Percent*		*Percent*
7090	$3,632,000	$644,000	18	$2,184,000	57	$3,724,000	94
7080	2,653,000	333,000	13	1,397,000	50	2,461,000	84
7070	967,000	70,000	7	432,000	42	795,000	74
1410	711,000	67,000	9	323,000	42	579,000	70
1401 [2]	415,000	27,000	7	158,000	34	288,000	57
1401 [3]	411,000	7,000	2	137,000	31	267,000	55
1401 [4]	188,000	−11,000	−6	41,000	20	94,000	42

[1] Includes maintenance for one shift only.
[2] Card and staple system operated as off-line equipment to a larger system.
[3] Card and tape system.
[4] Card system.

On a one-shift basis, the percentage of purchase advantage steadily increases with each more costly system—from minus 6 percent for the least costly system to 18 percent for the most costly. On a two-shift basis, these rates run from 20 to 57 percent, and for three shifts, they run from 42 to 94 percent.

A second important point is that the more use made of equipment, the greater the rate of purchase advantage. This factor is also illustrated by the foregoing tabulation which shows in each case that the rate of purchase advantage increases with greater use of the system. For example, the IBM 7090 system shows an increase in the rate from 18 percent for a one-shift operation to 57 percent for two shifts and 94 percent for three shifts.

When considered together, these two points demonstrate that significant economies are available through purchase and joint or multiple use of large data-processing facilities. The Bureau of the Budget's published inventory of automatic data-processing equipment shows that a number of electronic data-processing systems are scheduled for operation on a one- or two-shift basis. For example, 22 of the 23 IBM 7070, 7072, and 7074 systems that will be leased by June 1963, are scheduled to be operated for less than two shifts. Twelve of these systems will be operated for one shift or less. The low utilization scheduled for these machines is a result of individual agency planning and, since the potential savings available from purchasing increases with additional use of the equipment, it seems evident that more effective procedures are needed to coordinate throughout the Government the use of large data-processing facilities.

This kind of management action should help to significantly reduce the Government's overall data-processing costs.

FAILURE TO TAKE PROMPT ADVANTAGE OF REDUCED SALES PRICES

During our study we noted a number of instances where savings could apparently have been realized if prompt action had been taken to purchase installed data-processing equipment at reduced sales prices offered by the manufacturers. In these instances, the possible savings are based on considering the action from the standpoint of advantage to the Government overall and not from the standpoint solely of the individual using agencies.

IBM MODEL 704 SYSTEMS

On September 19, 1960, the International Business Machines Corp., announced that it would sell certain components of IBM 704 systems at 30 percent of the original price. This significant reduction in purchase price was not accompanied by a corresponding reduction in the rental charges for the particular components. According to the Bureau of the Budget inventory as of June, 30, 1960, the Government had on hand 30 IBM 704 systems of which 4 had been purchased and 26 were leased. Had prompt action been taken by using agencies to purchase such equipment, the possible savings to the Government would have been relatively significant. Following are some examples:

Federal Aviation Agency

The Federal Aviation Agency in December 1959, leased an IBM 704 system for use at Oklahoma City, Okla., for use in the control of aircraft in flight and in the flight inspection of ground navigational aids. Under the discounted pricing policy, components of this system renting for $23,400 per month and originally priced at $1,116,800 became available for purchase for $335,000. The Agency decided not to buy this system, however.

Had these components been purchased in December 1960, the Government would have saved $87,500 through June 1962, and would be adding to these savings at the rate of $21,800 for each month of use after that date. These estimates of savings take into consideration the cost of maintaining purchased equipment under a manufacturer's maintenance service contract.

In this case, if the Federal Aviation Agency had purchased rather than continued to lease the components subject to the discount prices, it would have saved $349,000 through June 1963, the anticipated replacement date. At that time, the Government would own the equipment and could relocate it in a less critical area in place of other leased equipment and this procedure would create additional monthly savings to the extent that the rental of the replaced equipment would exceed the cost of maintaining the Government-owned equipment.

Atomic Energy Commission

The Atomic Energy Commission leased an IBM 704 system for use in research and development work at the Argonne National Laboratory in Argonne, Ill. The equipment was installed in November 1957, at a monthly rental of $47,340. If the system had been purchased originally rather than leased, it would have cost approximately $2 million.

On March 1, 1961, 5 months after IBM offered to sell the system at the discounted purchase price, the Atomic Energy Commission purchased certain components of the system for $598,000 for which it had been paying monthly rentals of $41,290. Had this equipment been purchased in October 1960, when it was first offered for sale at the discounted price, the Government would have saved over $200,000 (5 months' rental charges at $41,290 less estimated maintenance costs).

In this case, the agency attributed the delay in purchasing to fund limitations but has stated that it will give special attention to future situations where delays may cause the incurrence of otherwise avoidable expenditures of Government funds.[3]

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[3] This transaction is also described in our report to the Congress on "Review of Selected Automatic Data-Processing Activities Under Atomic Energy Commission Cost-Type Contracts With University of Chicago and Midwestern Universities Research Association" (B-146763, Feb. 7, 1963).

IBM MODEL 650 SYSTEMS

On May 12, 1961, the IBM Corp. established an accelerated discount purchase plan on components of IBM model 650 systems. At that time, 136 of these systems were in use throughout the Government, 5 of which had been purchased and 131 were leased. Under the accelerated discount purchase plan, components were discounted 15 percent for each year used up to a maximum of 5 years or 75 percent. Consequently, components that had been in use for 5 years could be purchased for as little as 25 percent of the original selling price. Examples of possible savings follow.

Air Force Logistics Command

At the time of the announced price change, the Air Force Logistics Command of the Department of the Air Force was leasing 36 IBM 650 systems. The rentals for these machines range from $4,200 to $23,000 per month. Purchase of some of this equipment under the accelerated discount plan could have resulted in significant savings. For example, eight of the nine components that made up three of this command's small-scale systems could have been purchased at approximately the cost of 1 year's rental; purchasing would have produced savings of about $146,000 over the intended period of use.

Air materiel area, Hill Air Force Base, Ogden, Utah.—At this location, two of the three components of a small-scale 650 system originally priced at $167,540 could have been purchased under the accelerated discount plan in July 1961 for 31 percent of the original price or $52,000. This amount was less than 1 year's rental for these components. If these components had been purchased at the time of the announcement and taking into account the cost of maintaining purchased equipment under a manufacturer's maintenance service contract, the Government could have realized savings through June 1962 of $600. Beginning in July 1962, recurring monthly savings of $4,300 would have accrued to the Government. We have been advised that this system is to be replaced in April 1963; however, savings to the Government of $43,600 could have been realized up to that date had these two components been purchased under the accelerated discount purchase plan. In addition, this equipment would be Government owned at that point in time and would be available for transfer to another Government electronic data processing facility for use in lieu of other identical equipment being rented.

Air materiel area, Oklahoma City, Okla.—At this location, all three components of the system could have been purchased under this plan in July 1961 for $68,000—less than 1 year's rental. This action would have produced savings of $1,500 through June 1962 plus recurring monthly savings, beginning July 1962, of $5,500. This system also is scheduled to be replaced in April 1963; however, the purchase of these components under the discount plan would have produced total savings to the Government of $56,500.

2709th Air Force Vehicle Group, Memphis, Tenn.—At this location, all three components of the system could have been purchased in July 1961 at 25 percent of the original price of $209,000, or $52,000. The purchase of this system would have produced savings of $2,100 through July 1962, and beginning in August 1962 recurring monthly savings of $4,000 would have accrued to the Government. The purchase of this system, scheduled to be replaced in June 1963, would have produced total savings of $46,100.

At these three Air Force installations, for each month after the replacement dates that the eight components could be productively used, additional savings to the Government of at least $10,750 would be obtained.

The Department of the Air Force has informed us of its awareness that "had the selected 650's in the Air Force Logistics Command been purchased at the time the discount was announced, a savings in equipment cost would have resulted." This agency also informed us that it was not notified by the manufacturer of the price reduction for the IBM model 650.

Post Office Department

In the Post Office Department 13 small-scale IBM model 650 systems have been leased for use in a number of post office regional offices. These machines were installed over a period of 4 years beginning in September 1956.

Under the accelerated discount plan, two of the three components of the system operated in the Richmond office, originally priced at $161,000, could have been purchased in July 1961 at 26 percent of the original price or $42,000. If these

two components had been purchased at that time, the Government would have realized savings of $500 through the end of August 1962. Then, beginning with September 1962 recurring savings of $3,000 would be realized for each month that the Post Office Department used the equipment productively, either at the original location or at other locations to replace the 650 type equipment being rented.

At Minneapolis, all three components of a similar system, originally priced at $199,000, could have been purchased in July 1961 at 29 percent of the original price or $57,000. Had this system been purchased, the Government would have realized savings of $3,000 to October 1962 and in November 1962 would have started realizing recurring monthly savings of $3,700.

Other model 650 components in use in the Post Office Department could also have been purchased at greatly reduced prices. The percentage of the original sales prices at which these components could have been purchased as of July 1, 1962, is shown below.

[In percent]

Location	IBM 650 components		
	650	655	533
Philadelphia	31	31	31
Cincinnati	31	31	25
Atlanta	29	29	29
Boston	41	41	41

In November 1962, an IBM 1401 system was installed in the Richmond office to replace the existing IBM 650 system. Current Post Office plans call for the replacement of the remaining 12 IBM 650 systems with 10 IBM 1401 systems. It is anticipated that this conversion will be completed prior to December 1963. As in the case of the IBM 704 systems, savings could have been realized had some components of the 650 equipment been purchased when the accelerated discount plan was announced. For example, if the two components at the Richmond office had been purchased at the discounted price in July 1961, savings of $15,500 would have been realized through January 31, 1963; additional savings would be realized at the rate of $3,000 for each month that the components could be productively used at either Richmond or some other post office regional office.

If the system at Minneapolis had been purchased in July 1961, savings of $14,100 would have been realized through January 1963. Also, additional savings would be realizable at the rate of $3,700 for each month past that date during which there was productive use of the system at either Minneapolis or some other post office regional office. Upon replacement, these five components would contribute further savings at the rate of $6,700 for each month that they could be used productively elsewhere in the Government in lieu of rented equipment.

The Post Office Department has expressed disagreement with these observations on the basis that funds were not available to it for purchasing such equipment at the time the reduced prices were announced and that by the time funding authority could have been obtained purchase action would have resulted in losses rather than savings.

The Department's views are expressed primarily from the standpoint of its own management problem. We recognize that the availability of funds is an important problem. However, our obesrvations concerning the acquisition of such equipment and the possible savings from such action are based on the advantage to the Government overall rather than the advantage to an individual agency.

Possible Effects of Increased Government Purchasing

The cost comparisons made in our study as to the relative financial advantage of purchasing or of leasing data processing equipment are based on the pricing terms of existing contracts between the Government and the manufacturers or on pricing information obtained directly from the manufacturers.

The possibility that prices would be increased if the Government purchased more equipment is a factor that cannot be fully evaluated at this time. We believe that there is some protection against increased purchase prices under the terms of the consent decree filed and entered in 1956 by the United States of America against the International Business Machines Corp. Paragraph (a) of section IV of this judgment, identified as civil action No. 72-344, states: "(a) It is the purpose of this section IV of this final judgment to assure to users and prospective users of IBM tabulating and electronic data processing machines at any time being offered by IBM for lease and sale an opportunity to purchase and own such machines at prices and upon terms and conditions which shall not be substantially more advantageous to IBM than the lease charges, terms, and conditions for such machines."

As IBM is the Government's largest supplier of EDP equipment, with 67 percent of the numerical volume, this provision should give some protection against unwarranted price increases.

MAINTENANCE

The purchase of equipment carries with it the responsibility for maintaining it in efficient working order. Maintenance service may either be provided by employees of the Government or be obtained by contract with manufacturers. For our cost comparisons, we used the quoted maintenance price terms of the manufacturers under their maintenance contracts.

Throughout our study, we could find no indication that the quality of maintenance provided under the terms of manufacturers' maintenance service contracts was not as good as that provided under lease agreements. As in the case of prices, the possibility that the quality of maintenance provided for purchased equipment might suffer if the Government were to adopt a purchase policy cannot be fully evaluated at this time. Here again, however, we believe that the interests of the Government are reasonbly well protected by the terms of the above-mentioned final judgment. Section VI provides as follows:

"IBM is hereby ordered and directed:

"(*a*) to offer to render, without separate charge, to purchasers from it of tabulating or electronic data-processing machines the same type of services, other than maintenance and repair services, which it renders without separate charge to lessees of the same types of machines;

"(*b*) to offer, commencing 1 year after the entry of this final judgment and so long thereafter as IBM shall continue to render repair and maintenance service, to maintain and repair at reasonable and nondiscriminatory prices and terms IBM tabulating and electronic data-processing machines for the owners of such machines: *Provided*, That, if any such machine shall be altered, or connected by mechanical or electrical means to another machine, in such a manner as to render its maintenance and repair impractical for IBM personnel having had the standard training and instruction provided by IBM to such maintenance and repair personnel, then IBM shall not be required by this final judgment to render maintenance and repair service for such IBM machine; and

"(*c*) to offer to sell at reasonable and nondiscriminatory prices and terms, to owners of IBM tabulating or electronic data-processing machines (whether or not the purchaser receives IBM repair and maintenance service) and to persons engaged in the business of maintaining and repairing such machines and during the period when IBM has such parts and subassemblies available for use in its leased machines, repair and replacement parts and subassemblies for any tabulating machines or electronic data-processing machines manufactured by IBM."

It is of interest to note that, in addition to the maintenance services covered in paragraphs (*b*) and (*c*), the services, such as machine time to test programs, training, systems analysis, counseling, and software, which are extended without charge to lessees of equipment are guaranteed to purchasers of equipment under paragraph (*a*).

CONCLUSIONS

On the basis of our study, we conclude that the Government can save very substantial amounts of money through more extensive purchasing of data-processing equipment. We have also reached the following general conclusions:

1. If possible and substantial savings are to be fully realized, management decisions as to whether data-processing equipment should be purchased or

leased should be made from the standpoint of advantage to the Government as a whole and not from the standpoint of the individual using agencies.

2. Because of the substantial savings that may be available, all decisions to acquire the use of data-processing equipment should be supported by specific computations showing the comparative costs of acquiring by lease and by purchase.

3. Where purchasing is financially advantageous, the realizable savings increase in proportion with the increase in utilization of the machines.

4. The savings possible through purchasing are more pronounced for the larger and more complex machine systems.

5. While significant savings may be realizable in many instances through purchasing rather than leasing, for some types of electromechanical equipment, it is more advantageous financially to lease rather than to purchase.

Need for More Effective Management of the Procurement and Utilization of Data-Processing Equipment in the Federal Government

In our report to the Congress on review of automatic data-processing developments in the Federal Government (B–115369, Dec. 30, 1960), we stated that:

"Generally, the practice of each Government agency is to procure equipment for its own needs (on either a purchase or a rental basis) and to trade in purchased equipment or exchange older rented equipment for newer models in accordance with its own particular needs. Possible needs of other agencies for the traded-in or exchanged equipment are generally not considered. However, it is possible that such equipment can be used to serve the needs of other Government agencies.

"At least one major equipment supplier offers terms under which used equipment can be purchased at a reduced price depending on the period of time the equipment has been in use. However, we believe that a Government-wide approach is needed to determine which machines should be purchased at the reduced prices and retained for Government use in lieu of new procurement. Likewise, before trading in purchased equipment which is no longer suitable for the original using organization, efforts should be made to determine the possibility of transferring the purchased equipment to other Government organizations requiring such equipment in lieu of new procurement.

"We believe that a mechanism should be established in the Government to provide the necessary arrangements whereby the procurement and transfer of data-processing equipment between Government activities would be fully coordinated so as to keep costs as low as possible consistent with obtaining needed processing facilities."

We are aware of no significant progress toward an effective coordinating mechanism in the Federal Government for achieving the interrelated objectives cited.

Our current study of the financial advantages of purchasing data-processing equipment over leasing it further emphasizes the great need in the Federal Government for a better coordinated and integrated management system for achieving the fullest degree of economy and efficiency in acquiring and utilizing this kind of equipment.

Under the present system of decentralized management, each agency makes its own decision as to the method of acquiring this equipment. There is no effective coordinating machinery at work to give proper consideration to lease-purchase decisions from the standpoint of advantage to the Govrenment as a whole. Unless adequate measures are taken to provide a stronger management system, millions of dollars of unnecessary expenditures will continue to be made. We are convinced that the establishment of a strong central management office in the executive branch of the Federal Government is essential to bring about the kind of management improvement that is needed to minimize such wasteful expenditures.

Recommendation to the President of the United States

In view of the need for more effective and coordinated management of the procurement and utilization of data-processing equipment in the Federal Government and the substantial financial savings that can be realized through improved managment of this function, we recommend that the President of the United States establish in his organization a central management office suitably

empowered with authority and responsibility to make decisions on the procurement and utilization of data-processing equipment with the objective of obtaining and utilizing all needed facilities at least cost to the Government.

RECOMMENDATION TO HEADS OF USING DEPARTMENTS AND AGENCIES

In view of the substantial savings that may be realized from more extensive purchasing, we recommend that the heads of all using departments and agencies, as an interim measure pending action on the above recommendation, arrange for a prompt and complete reappraisal of their current plans to lease data-processing equipment and take such action as is possible to realize the financial savings that may be available from purchasing such equipment and fully utilizing it.

EXHIBIT A

Estimated savings available to the Government through purchasing 523 of the 1,006 electronic computer systems scheduled to be leased as of June 30, 1963

Manufacturer	System identification	Number of systems	Estimated savings available through purchase over 5-year period	Estimated annual savings after initial 5-year period
International Business Machines Corp.[1]	7090	36	$57,449,000	$34,378,000
Philco Corp	2000	6	13,706,000	6,821,000
International Business Machines Corp	7080	15	24,413,000	11,778,000
Control Data Corp	1604	7	8,956,000	3,825,000
Minneapolis-Honeywell Regulator Co	800	8	3,700,000	3,194,000
International Business Machines Corp.[2]	7070	23	4,148,000	4,787,000
The National Cash Register Co	315	2	76,000	300,000
International Business Machines Corp	1410	27	5,713,000	4,500,000
Univac, Division of Sperry Rand Corp.[3]	SS-90	16	1,902,000	1,987,000
Minneapolis-Honeywell Regulator Co	400	3	217,000	322,000
International Business Machines Corp.[4]	1401	310	24,693,000	26,965,000
Control Data Corp.[5]	160-A	16	474,000	431,000
Radio Corp. of America	501	27	1,666,000	4,648,000
Do	301	27	654,000	1,344,000
Total		[6] 523	147,767,000	105,280,000

[1] Includes IBM 7090 and 7094 systems.
[2] Includes IBM 7070, 7072, and 7074 systems.
[3] Includes Univac SS-80 and SS-90 systems.
[4] Because there is no available analysis of the many types of IBM 1401 systems included in the inventory of automatic data processing (ADP) equipment in the Federal Government published by the Bureau of the Budget, August 1962, we have projected savings for all 310 systems based on the medium-sized card and tape system for which computations were made in our study.
[5] Includes Control Data Corp. 160 and 160-A systems.
[6] These projections are based on the number of systems that will be leased on June 30, 1963, as shown by the Bureau of the Budget inventory report. The same report shows no plans for leasing the Burroughs B-5000 and the Sperry-Rand Univac III, and therefore no projections for these systems are made above.

EXHIBIT B

Summary of comparison of lease and purchase costs of selected electronic data processing systems over a 5-year period

Manufacturer	System identification	1 shift or 176 hours per month [1]			2 shifts or 352 hours per month [1]			3 shifts or 528 hours per month [1]		
		Cost to lease [2]	Cost to purchase [3]	Savings or loss (−) on purchase basis	Cost to lease [2]	Cost to purchase [3]	Savings or loss (−) on purchase basis	Cost to lease [2]	Cost to purchase [3]	Savings or loss (−) on purchase basis
International Business Machines Corp	7090	$4,276,000	$3,632,000	$644,000	$5,986,000	$3,802,000	$2,184,000	$7,696,000	$3,972,000	$3,724,000
Philco Corp	2000	4,218,000	4,361,000	−143,000	5,905,000	4,724,000	1,181,000	7,592,000	5,087,000	2,505,000
International Business Machines Corp	7080	2,986,000	2,653,000	333,000	4,180,000	2,783,000	1,397,000	5,375,000	2,914,000	2,461,000
Control Data Corp	1604	2,748,000	1,825,000	923,000	3,848,000	2,018,000	1,830,000	4,947,000	2,210,000	2,737,030
Minneapolis-Honeywell Regulator Co	800	1,942,000	1,830,000	112,000	2,715,000	2,042,000	673,000	3,489,000	2,256,000	1,233,000
Burroughs Corp	5000	1,527,000	1,212,000	315,000	2,139,000	1,253,000	886,000	2,750,000	1,294,000	1,456,000
Univac Division of Sperry Rand Corp	Univac III	1,218,000	1,233,000	−15,000	1,706,000	1,430,000	276,000	2,193,000	1,627,000	566,000
International Business Machines Corp	7070	1,037,000	967,000	70,000	1,452,000	1,020,000	432,000	1,867,000	1,072,000	795,000
The National Cash Register Co	315	886,000	848,000	38,000	1,019,000	936,000	83,000	1,196,000	1,053,000	143,000
International Business Machines Corp	1410	778,000	711,000	67,000	1,089,000	766,000	323,000	1,401,000	822,000	579,000
Univac Division of Sperry Rand Corp	Univac SS-90	674,000	695,000	−21,000	945,000	796,000	149,000	1,215,000	880,000	335,000
Minneapolis-Honeywell Regulator Co	400	603,000	580,000	23,000	844,000	673,000	171,000	1,084,000	766,000	318,000
International Business Machines Corp.[4]	1401	442,000	415,000	27,000	619,000	461,000	158,000	795,000	507,000	288,000
Do.[5]	1401	418,000	411,000	7,000	586,000	449,000	137,000	753,000	486,000	267,000
Do.[6]	1401	177,000	188,000	−11,000	248,000	207,000	41,000	319,000	225,000	94,000
Control Data Corp	160-A	157,000	133,000	24,000	220,000	145,000	75,000	282,000	155,000	127,000
		200 hours per month [1]			484 hours per month [1]			612 hours per month [1]		
Radio Corp. of America	501	1,049,000	969,000	80,000	1,225,000	1,183,000	42,000	1,324,000	1,279,000	45,000
Do	301	292,000	266,000	26,000	340,000	322,000	18,000	369,000	346,000	23,000

[1] Shift hours for 1, 2, and 3 shifts are based on multiples of the monthly 176-hour use period designated in General Services Administration, Federal Supply Service, electronic data processing rental contracts with equipment suppliers, except for the contract with RCA which is based on 1 shift of 200 hours, and extended use for 5 days and 7 days converted to 484 and 612 hours for 2 and 3 shifts, respectively.

[2] Calculations for 2 and 3 shift rental amounts are based on full use for 352 and 528 hours, respectively, of all components of each system. In actual practice, rental amounts for peripheral devices would be slightly lower than the amounts shown in this exhibit because of contract provisions which allow averaging of use of multiple units of these components for contract payment purposes. Use of the figures as shown has the effect of slightly overstating the cost to lease.

[3] Calculations for 2 and 3 shift maintenance amounts are based on full shift charges for manufacturers' maintenance service contracts. As a practical matter, most installations would arrange for extra shift maintenance on an on-call basis which would be somewhat lower than the amounts shown in this exhibit. The use of the full amount has the effect of slightly overstating the cost to purchase and tends to offset the conditions noted in footnote 2.

[4] Card and tape system operated as off-line equipment to a larger system.

[5] Card and tape system.

[6] Card system.

EXHIBIT C

Comparison of lease and purchase costs over a 5-year period

IBM 7090 TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Saving or loss (−) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
1 shift	1	Instruction processing	7108	$636,000	$26,261	$662,261	$449,500	$42,423	$33,612	$1,380	$526,916	$135,344
	1	Arithmetic sequence	7109	520,500	21,492	541,992	368,000	34,731	27,396	1,126	431,253	110,738
	1	Console control	7151	73,500	3,034	76,534	61,700	5,823	780	32	68,335	8,199
	1	Core storage	7302	1,050,000	43,355	1,093,355	840,000	79,279	34,800	1,436	955,516	137,839
	1	Multiplexor	7606	234,000	9,662	243,662	156,300	14,751	8,928	364	180,344	63,317
	1	Data channel	7607	256,500	10,591	267,091	197,500	18,640	11,016	452	227,608	39,482
	2	do	7607–2	393,000	16,227	409,227	318,000	30,012	14,304	587	362,904	46,323
	1	Power converter	7608	42,000	1,734	43,734	25,000	2,359	96	3	27,459	16,274
	3	Data channel console	7617	40,500	1,672	42,172	32,700	3,086	2,952	120	38,858	3,313
	1	Power control	7618	54,000	2,229	56,229	35,000	3,303	312	12	38,627	17,601
	1	Printer	716	72,000	2,972	74,972	54,200	5,115	7,656	299	67,271	7,701
	1	Card punch	721	38,100	1,573	39,673	21,820	2,059	4,620	181	28,680	10,992
	12	Tape drives	729–4	648,000	26,756	674,756	495,000	46,718	93,312	3,825	638,855	35,900
	1	Card reader	711	48,000	1,981	49,981	32,000	3,020	4,191	163	39,374	10,607
		Total		4,106,100	169,545	4,275,645	3,086,720	291,324	243,975	9,987	3,632,007	643,638
2 shifts	1	Instruction processing	7108	890,400	36,765	927,165	449,500	42,423	47,056	1,932	540,913	386,252
	1	Arithmetic sequence	7109	728,700	30,088	758,788	368,000	34,731	38,354	1,576	442,662	316,126
	1	Console control	7151	102,900	4,248	107,148	61,700	5,823	1,092	45	68,660	38,488
	1	Core storage	7302	1,470,000	60,698	1,530,698	840,000	79,279	48,720	2,011	970,010	560,687
	1	Multiplexor	7606	327,600	13,526	341,126	156,300	14,751	12,499	510	184,061	157,065
	1	Data channel	7607	359,100	14,827	373,927	197,500	18,640	15,422	633	232,196	141,731
	2	do	7607–2	550,200	22,718	572,918	318,000	30,012	20,025	822	368,860	204,057
	1	Power converter	7608	58,800	2,427	61,227	25,000	2,359	134	5	27,499	33,728
	3	Data channel console	7617	56,700	2,341	59,041	32,700	3,086	4,132	168	40,087	18,953
	1	Power control	7618	75,600	3,121	78,721	35,000	3,303	436	17	38,757	39,963
	1	Printer	716	100,800	4,162	104,962	54,200	5,115	15,312	599	75,226	29,735
	1	Card punch	721	53,340	2,202	55,542	21,820	2,059	9,240	363	33,482	22,059
	12	Tape drives	729–4	907,200	37,459	944,659	495,000	46,718	186,624	7,651	735,993	208,665
	1	Card reader	711	67,200	2,774	69,974	32,000	3,020	8,382	327	43,729	26,245
		Total		5,748,540	237,363	5,985,903	3,086,720	291,324	407,432	16,665	3,802,142	2,183,761

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

IBM 7090 TAPE SYSTEM—Continued

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
3 shifts	1	Instruction processing	7108	$1,144,800	$47,270	$1,192,070	$449,500	$42,423	$60,501	$2,484	$554,910	$637,159
	1	Arithmetic sequence	7109	936,900	38,685	975,585	368,000	34,731	49,312	2,027	454,071	521,514
	1	Console control	7151	132,300	5,462	137,762	61,700	5,823	1,404	57	68,985	68,777
	1	Core storage	7302	1,890,000	78,040	1,968,040	840,000	79,279	62,640	2,586	984,505	983,534
	1	Multiplexor	7606	421,200	17,391	438,591	156,300	14,751	16,070	656	187,778	250,813
	1	Data channel	7607	461,700	19,064	480,764	197,500	18,640	19,828	814	236,783	243,980
	2	do	7607–2	707,400	29,209	736,609	318,000	30,012	25,747	1,057	374,817	361,792
	1	Power converter	7608	75,600	3,121	78,721	25,000	2,359	172	6	27,539	51,182
	3	Data channel console	7617	72,900	3,010	75,910	32,700	3,086	5,313	216	41,316	34,593
	1	Power control	7618	97,200	4,013	101,213	35,000	3,303	561	22	38,887	62,325
	1	Printer	716	129,600	5,351	134,951	54,200	5,115	22,968	899	83,182	51,768
	1	Card punch	721	68,580	2,831	71,411	21,820	2,059	13,860	544	38,284	33,127
	12	Tape drives	729–4	1,166,400	48,162	1,214,562	495,000	46,718	279,936	11,477	833,131	381,430
	1	Card reader	711	86,400	3,567	89,967	32,000	3,020	12,573	491	48,084	41,883
		Total		7,390,980	305,182	7,696,162	3,086,720	291,324	570,889	23,342	3,972,277	3,723,885

PHILCO 2000 CARD AND TYPE SYSTEM

1 shift	1	Arithmetic and control	211	$660,000	$27,252	$687,252	$500,000	$47,190	$105,000	$4,335	$656,525	$30,726
	1	Floating point option	1100	54,000	2,229	56,229	40,000	3,775	8,400	346	52,522	3,707
	1	Index register	1111–8	78,000	3,220	81,220	60,000	5,662	12,600	520	78,783	2,437
	1	Core storage	2232	1,230,000	50,788	1,280,788	925,000	87,301	194,250	8,020	1,214,572	66,215
	1	I/O processor	236	264,000	10,900	274,900	200,000	18,876	42,000	1,734	262,610	12,290
	15	Tape drives	234	765,000	31,587	796,587	570,000	53,796	119,700	4,942	748,439	48,148
	2	Printers	256	280,800	11,594	292,394	320,000	30,201	67,200	2,774	420,176	−127,781
	2	Card readers	258	96,000	3,963	99,963	96,000	9,060	20,160	832	126,052	−26,088
	2	Card punch control	259	163,800	6,763	170,563	190,000	17,932	39,900	1,647	249,479	−78,916
	2	Card punch	265	42,000	1,734	43,734	30,000	2,831	6,300	260	39,391	4,342

	2	Universal buffer control	280	187,200	7,729	194,929	220,000	20,763	46,200	1,907	288,871	−93,941
	2	Paper tape system	241	216,000	8,918	224,918	160,000	15,100	33,600	1,387	210,088	14,830
	1	Accounting clock	293	13,500	557	14,057	10,000	943	2,100	86	13,130	926
		Total		4,050,300	167,241	4,217,541	3,321,000	313,435	697,410	28,796	4,360,642	−143,101
2 shifts	1	Arithmetic and control	211	924,000	38,153	962,153	500,000	47,190	157,500	6,503	711,193	250,959
	1	Floating point option	1100	75,600	3,121	78,721	40,000	3,775	12,600	520	56,895	21,826
	1	Index register	1111-8	109,200	4,509	113,709	60,000	5,662	18,900	780	85,343	28,365
	1	Core storage	2232	1,722,000	71,103	1,793,103	925,000	87,301	291,375	12,031	1,315,707	477,395
	1	I/O processor	236	369,600	15,261	384,861	200,000	18,876	63,000	2,601	284,477	100,383
	15	Tape drives	234	1,071,000	44,222	1,115,222	570,000	53,796	179,550	7,413	810,760	304,462
	2	Printers	256	393,120	16,232	409,352	320,000	30,201	100,800	4,162	455,163	−45,811
	2	Card readers	258	134,400	5,549	139,949	96,000	9,060	30,240	1,248	136,549	3,400
	2	Card punch control	259	229,320	9,468	238,788	190,000	17,932	59,850	2,471	270,253	−31,464
	2	Card punch	265	58,800	2,427	61,227	30,000	2,831	9,450	390	42,671	18,556
	2	Universal buffer control	280	262,080	10,821	272,901	220,000	20,763	69,300	2,861	312,925	−40,023
	2	Paper tape system	241	302,400	12,486	314,886	160,000	15,100	50,400	2,081	227,581	87,304
	1	Accounting clock	293	18,900	780	19,680	10,000	943	3,150	130	14,223	5,456
		Total		5,670,420	234,138	5,904,558	3,321,000	313,435	1,046,115	43,195	4,723,746	1,180,811
3 shifts	1	Arithmetic and control	211	1,188,000	49,053	1,237,053	500,000	47,190	210,000	8,671	765,861	471,192
	1	Floating point option	1100	97,200	4,013	101,213	40,000	3,775	16,800	693	61,268	39,944
	1	Index register	1111-8	140,400	5,797	146,197	60,000	5,662	25,200	1,040	91,903	54,293
	1	Core storage	2232	2,214,000	91,418	2,305,418	925,000	87,301	388,500	16,041	1,416,843	888,575
	1	I/O processor	236	475,200	19,621	494,821	200,000	18,876	84,000	3,468	306,344	188,477
	15	Tape drives	234	1,377,000	56,857	1,433,857	570,000	53,796	239,400	9,885	873,081	560,776
	2	Printers	256	505,440	20,870	526,310	320,000	30,201	134,400	5,549	490,151	36,159
	2	Card reader	258	172,800	7,135	179,935	96,000	9,060	40,320	1,664	147,045	32,889
	2	Card punch control	259	294,840	12,174	307,014	190,000	17,932	79,800	3,295	291,027	15,987
	2	Card punch	265	75,600	3,121	78,721	30,000	2,831	12,600	520	45,951	32,769
	2	Universal buffer control	280	336,960	13,913	350,873	220,000	20,763	92,400	3,815	336,978	13,894
	2	Paper tape system	241	388,800	16,054	404,854	160,000	15,100	67,300	2,774	245,075	159,778
	1	Accounting clock	293	24,300	1,003	25,303	10,000	943	4,200	173	15,317	9,986
		Total		7,290,540	301,034	7,591,574	3,321,000	313,435	1,394,820	57,593	5,086,849	2,504,725

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

IBM 7080 TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
1 shift	1	Arith/logic unit	7102	$870,000	$35,923	$905,923	$685,000	$64,650	$43,716	$1,799	$795,166	$110,757
	1	Console control unit	7153	96,000	3,963	99,963	80,250	7,574	2,730	112	90,666	9,297
	1	Core storage 80K	7302	600,000	24,774	624,774	480,000	45,302	22,800	941	549,043	75,730
	1	Central storage and I/O control 2 channels.	7305	438,000	18,085	456,085	345,000	32,561	14,196	583	392,341	63,744
	1	Power unit	7804	96,000	3,963	99,963	60,000	5,662	1,995	81	67,739	32,224
	1	Console card reader	7502	16,500	681	17,181	13,500	1,274	909	36	15,720	1,461
	1	Tape control	7621	208,200	8,596	216,796	153,800	14,515	14,148	580	183,043	33,752
	7	Tape drives	729–5	315,000	13,006	328,006	260,400	24,576	52,080	2,130	339,187	−11,180
	4	do	729–6	228,000	9,414	237,414	169,800	16,025	32,544	1,334	219,704	17,709
		Total		2,867,700	118,410	2,986,110	2,247,750	212,142	185,118	7,601	2,652,612	333,498
2 shifts	1	Arith/logic unit	7102	1,218,000	50,292	1,268,292	685,000	64,650	61,202	2,519	813,372	454,919
	1	Console control unit	7153	134,400	5,549	139,949	80,250	7,574	3,822	156	91,802	48,146
	1	Core storage 80K	7302	840,000	34,684	874,684	480,000	45,302	31,920	1,318	558,540	316,144
	1	Central storage and I/O control 2 channels.	7305	613,200	25,319	638,519	345,000	32,561	19,874	817	398,252	240,266
	1	Power unit	7804	134,400	5,549	139,949	60,000	5,662	2,793	114	68,570	71,379
	1	Console card reader	7502	23,100	953	24,053	13,500	1,274	1,818	73	16,666	7,387
	1	Tape control	7621	291,480	12,035	303,515	153,800	14,515	19,807	812	188,935	114,580
	7	Tape drives	729–5	441,000	18,209	459,209	260,400	24,576	104,160	4,261	393,397	65,811
	4	do	729–6	319,200	13,180	332,380	169,800	16,025	65,088	2,669	253,583	78,796
		Total		4,014,780	165,774	4,180,554	2,247,750	212,142	310,485	12,743	2,783,121	1,397,433
3 shifts	1	Arith/logic unit	7102	1,566,000	64,661	1,630,661	685,000	64,650	78,688	3,239	831,579	799,082
	1	Console control unit	7153	172,800	7,135	179,935	80,250	7,574	4,914	201	92,939	86,995
	1	Core storage 80K	7302	1,080,000	44,594	1,124,594	480,000	45,302	41,040	1,694	568,036	556,557
	1	Central storage and I/O control 2 channels.	7305	788,400	32,553	820,953	345,000	32,561	25,552	1,051	404,164	416,789
	1	Power unit	7804	172,800	7,135	179,935	60,000	5,662	3,591	147	69,400	110,534
	1	Console card reader	7502	29,700	1,226	30,926	13,500	1,274	2,727	110	17,612	13,314
	1	Tape control	7621	374,760	15,474	390,234	153,800	14,515	25,466	1,044	194,826	195,407
	7	Tape drives	729–5	567,000	23,412	590,412	260,400	24,576	156,240	6,391	447,608	142,803
	4	do	729–6	410,400	16,945	427,345	169,800	16,025	97,632	4,004	287,461	139,884
		Total		5,161,860	213,139	5,374,999	2,247,750	212,142	435,852	17,885	2,913,630	2,461,368

NOTE.—Amounts may not add in dollar columns because of omission of cents.

CDC 1604 CARD AND TAPE SYSTEM

1 shift	1	Central processor	1604	$1,806,000	$74,571	$1,880,571	$990,000	$93,436	$118,200	$4,880	$1,206,516	$674,055
	2	Tape drive banks	1607	606,000	25,022	631,022	290,000	27,370	90,000	3,716	411,086	219,936
	1	Printer	1612	110,400	4,558	114,958	73,500	6,936	24,000	990	105,427	9,530
	1	Control unit	1610A	90,000	3,716	93,716	57,000	5,379	11,400	470	74,250	19,465
	1	Card reader	Modified IBM 088.	21,480	886	22,366	16,170	1,526	4,129	154	21,979	387
	1	Card punch	Modified IBM 523.	5,640	232	5,872	4,730	446	898	33	6,108	−235
		Total		2,639,520	108,988	2,748,508	1,431,400	135,095	248,627	10,246	1,825,369	923,139
2 shifts	1	Central processor	1604	2,528,400	104,400	2,632,800	990,000	93,436	178,500	7,370	1,269,306	1,363,493
	2	Tape drive banks	1607	848,400	35,031	883,431	290,000	27,370	180,000	7,432	504,802	378,628
	1	Printer	1612	154,560	6,381	160,941	73,500	6,936	48,000	1,981	130,418	30,523
	1	Control unit	1610A	126,000	5,202	131,202	57,000	5,379	17,400	718	80,498	50,704
	1	Card reader	Modified IBM 088	30,072	1,241	31,313	16,170	1,526	8,258	308	26,263	5,050
	1	Card punch	Modified IBM 523	7,896	326	8,222	4,730	446	1,796	67	7,040	1,181
		Total		3,695,328	152,584	3,847,912	1,431,400	135,095	433,954	17,879	2,018,330	1,829,582
3 shifts	1	Central processor	1604	3,250,800	134,229	3,385,029	990,000	93,436	238,500	9,847	1,331,784	2,053,245
	2	Tape drive banks	1607	1,090,800	45,040	1,135,840	290,000	27,370	270,000	11,148	598,518	537,321
	1	Printer	1612	198,720	8,205	206,925	73,500	6,936	72,000	2,972	155,409	51,515
	1	Control unit	1610A	162,000	6,689	168,689	57,000	5,379	23,100	953	86,433	82,255
	1	Card reader	Modified IBM 088	38,664	1,596	40,260	16,170	1,526	12,387	463	30,547	9,713
	1	Card punch	Modified IBM 523	10,152	419	10,571	4,730	446	2,694	101	7,972	2,598
		Total		4,751,136	196,179	4,947,315	1,431,400	135,095	618,682	25,488	2,210,665	2,736,650

NOTE.—Amounts may not add in dollar columns because of omission of cents.

92270 O—63——6

Comparison of lease and purchase costs over a 5-year period—Continued

HONEYWELL 800 TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (−) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
1 shift	1	Central processor	801	$513,000	$21,182	$534,182	$410,400	$38,733	$27,540	$1,089	$477,762	$56,419
	1	Floating point unit	801-B	126,000	5,202	131,202	100,800	9,513	6,480	256	117,049	14,152
	2	Additional memory	802	192,000	7,927	199,927	153,600	14,496	10,368	409	178,874	21,053
	2	Tape controls	803	240,000	9,909	249,909	192,000	18,120	12,960	512	223,593	26,316
	8	Tape drives	804-1	432,000	17,837	449,837	345,600	32,617	93,312	3,689	475,219	−25,381
	1	Printer control	806-3	87,000	3,592	90,592	69,600	6,568	9,396	371	85,936	4,655
	1	Printer	822-3	117,000	4,831	121,831	79,800	7,531	30,780	1,217	119,328	2,502
	1	Card reader control	807-2	66,000	2,725	68,725	52,800	4,983	3,888	153	61,825	6,900
	1	Punch control	808-1	63,000	2,601	65,601	50,400	4,756	3,888	153	59,198	6,402
	1	Card punch	824-1	9,240	381	9,621	7,435	701	2,616	102	10,854	−1,233
	1	Card reader	823-2	19,500	805	20,305	14,700	1,387	3,753	140	19,980	324
		Total		1,864,740	76,997	1,941,737	1,477,135	139,412	204,981	8,096	1,829,624	112,112
2 shifts	1	Central processor	801	718,180	29,654	747,835	410,400	38,733	55,080	2,178	506,391	241,443
	1	Floating point unit	801-B	176,371	7,282	183,653	100,800	9,513	12,960	512	123,785	59,867
	2	Additional memory	802	268,876	11,102	279,979	153,600	14,496	20,736	819	189,652	90,326
	2	Tape controls	803	329,760	13,616	343,376	192,000	18,120	25,920	1,024	237,065	106,310
	8	Tape drives	804-1	605,184	24,988	630,172	345,600	32,617	186,624	7,379	572,221	57,951
	1	Printer control	806-3	121,848	5,031	126,879	69,600	6,568	18,792	743	95,703	31,175
	1	Printer	822-3	163,780	6,762	170,543	79,800	7,531	61,560	2,434	151,325	19,217
	1	Card reader control	807-2	92,400	3,815	96,215	52,800	4,983	7,776	307	65,866	30,348
	1	Punch control	808-1	88,238	3,643	91,881	50,400	4,756	7,776	307	63,240	28,641
	1	Card punch	824-1	13,886	573	14,459	7,435	701	5,232	204	13,573	886
	1	Card reader	823-2	29,215	1,206	30,421	14,700	1,387	7,506	280	23,874	6,547
		Total		2,607,741	107,676	2,715,418	1,477,135	139,412	409,962	16,192	2,042,701	672,716
3 shifts	1	Central processor	801	923,361	38,126	931,488	410,400	38,733	82,620	3,267	535,020	426,467
	1	Floating point unit	801-B	226,742	9,362	236,104	100,800	9,513	19,440	768	130,522	105,582
	2	Additional memory	802	345,753	14,276	360,030	153,600	14,496	31,104	1,229	200,430	159,599
	2	Tape controls	803	419,520	17,322	436,842	192,000	18,120	38,880	1,537	250,538	186,304
	8	Tape drives	804-1	778,368	32,139	810,507	345,600	32,617	279,936	11,069	669,223	141,284
	1	Printer control	806-3	156,696	6,470	163,166	69,600	6,568	28,188	1,114	105,471	57,694

	1	Printer	822-3	210,561	8,694	219,255	79,800	7,531	92,340	3,651	183,322	35,932
	1	Card reader control	807-2	118,800	4,905	123,705	52,800	4,983	11,664	461	69,908	53,796
	1	Punch control	808-1	113,476	4,685	118,162	50,400	4,756	11,664	461	67,282	50,880
	1	Card punch	824-1	18,532	765	19,298	7,435	701	7,848	306	16,291	3,006
	1	Card reader	823-2	38,930	1,607	40,537	14,700	1,387	11,259	421	27,767	12,770
		Total		3,350,743	138,356	3,489,099	1,477,135	139,412	614,943	24,289	2,255,779	1,233,320

BURROUGHS B-5000 CARD AND TAPE SYSTEM

1 shift	1	Central processor	B-5280	$384,000	$15,855	$399,855	$265,600	$25,067	$11,112	$451	$302,230	$97,625
	2	I/O channel	B-5282	270,000	11,148	281,148	186,750	17,625	9,888	401	214,664	66,483
	4	Memory module	B-460	300,000	12,387	312,387	207,500	19,583	11,088	451	238,622	73,764
	1	Storage drum	B-430	102,000	4,211	106,211	70,550	6,658	3,072	125	80,405	25,806
	1	Card reader	B-124	24,000	990	24,990	16,600	1,566	3,696	150	22,013	2,977
	1	Printer	B-321	72,000	2,972	74,972	49,800	4,700	9,240	375	64,115	10,856
	1	Card punch	B-303	27,000	1,114	28,114	18,675	1,762	3,396	137	23,971	4,143
	6	Tape drives	B-422	288,000	11,891	299,891	199,200	18,800	46,296	1,881	266,177	33,714
		Total		1,467,000	60,574	1,527,675	1,014,675	95,765	97,788	3,974	1,212,202	315,371
2 shifts	1	Central processor	B-5280	537,600	22,198	559,798	265,600	25,067	15,556	632	306,856	252,941
	2	I/O channel	B-5282	378,000	15,608	393,608	186,750	17,625	13,843	562	218,780	174,827
	4	Memory module	B-460	420,000	17,342	437,342	207,500	19,583	15,523	631	243,238	194,103
	1	Storage drum	B-430	142,800	5,896	148,696	70,550	6,658	4,300	175	81,684	67,011
	1	Card reader	B-124	33,600	1,387	34,987	16,600	1,566	5,174	210	23,551	11,435
	1	Printer	B-321	100,800	4,162	104,962	49,800	4,700	12,936	526	67,962	36,999
	1	Card punch	B-303	37,800	1,560	39,360	18,675	1,762	4,754	193	25,385	13,975
	6	Tape drives	B-422	403,200	16,648	419,848	199,200	18,800	64,814	2,633	285,448	134,400
		Total		2,053,800	84,803	2,138,603	1,014,675	95,765	136,903	5,564	1,252,907	885,696
3 shifts	1	Central processor	B-5280	691,200	28,540	719,740	265,600	25,067	20,001	812	311,481	408,258
	2	I/O channel	B-5282	486,000	20,067	506,067	186,750	17,625	17,798	722	222,896	283,170
	4	Memory module	B-460	540,000	22,297	562,297	207,500	19,583	19,958	811	247,854	314,443
	1	Storage drum	B-430	183,600	7,581	191,181	70,550	6,658	5,529	225	82,963	108,217
	1	Card reader	B-124	43,200	1,783	44,983	16,600	1,566	6,652	270	25,090	19,893
	1	Printer	B-321	129,600	5,351	134,951	49,800	4,700	16,632	676	71,808	63,142
	1	Card punch	B-303	48,600	2,006	50,606	18,675	1,762	6,112	248	26,798	23,808
	6	Tape drives	B-422	518,400	21,405	539,805	199,200	18,800	83,332	3,385	304,719	235,086
		Total		2,640,600	109,033	2,749,633	1,014,675	95,765	176,018	7,153	1,293,612	1,456,021

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

UNIVAC III CARD AND TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
1 shift	1	Central processor	4121	$480,000	$19,819	$499,819	$390,000	$36,808	$35,100	$1,449	$463,357	$36,462
	1	Tape synchronizer	4135	174,000	7,184	181,184	145,000	13,685	14,400	594	173,679	7,504
	1	Tape power supply	4123	21,000	867	21,867	17,500	1,651	2,400	99	21,650	216
	10	Tape units	4126	300,000	12,387	312,387	240,000	22,651	78,000	3,220	343,871	−31,484
	1	Card reader	4133	45,000	1,858	46,858	35,000	3,303	12,000	495	50,798	−3,940
	1	Card punch	4127	51,000	2,105	53,105	40,000	3,775	22,800	941	67,516	−14,410
	1	Printer	4152	99,000	4,087	103,087	79,000	7,456	24,600	1,015	112,071	−8,983
		Total		1,170,000	48,310	1,218,310	946,500	89,330	189,300	7,816	1,232,947	−14,636
2 shifts	1	Central processor	4121	672,000	27,747	699,747	390,000	36,808	70,200	2,898	499,906	199,840
	1	Tape synchronizer	4135	243,600	10,058	253,658	145,000	13,685	28,800	1,189	188,674	64,984
	1	Tape power supply	4123	29,400	1,213	30,613	17,500	1,651	4,800	198	24,149	6,464
	10	Tape units	4126	420,000	17,342	437,342	240,000	22,651	156,000	6,441	425,092	12,249
	1	Card reader	4133	63,000	2,601	65,601	35,000	3,303	24,000	990	63,294	2,307
	1	Card punch	4127	71,400	2,948	74,348	40,000	3,775	45,600	1,882	91,258	−16,909
	1	Printer	4152	138,600	5,722	144,322	79,000	7,456	49,200	2,031	137,687	6,635
		Total		1,638,000	67,634	1,705,634	946,500	89,330	378,600	15,632	1,430,063	275,571
3 shifts	1	Central processor	4121	864,000	35,675	899,675	390,000	36,808	105,300	4,347	536,453	363,219
	1	Tape synchronizer	4135	313,200	12,932	326,132	145,000	13,685	43,200	1,783	203,668	122,463
	1	Tape power supply	4123	37,800	1,560	39,360	17,500	1,651	7,200	297	26,648	12,711
	10	Tape units	4126	540,000	22,297	562,297	240,000	22,651	234,000	9,662	506,313	55,983
	1	Card reader	4133	81,000	3,344	84,344	35,000	3,313	36,000	1,486	75,789	8,554
	1	Card punch	4127	91,800	3,790	95,590	40,000	3,775	68,400	2,824	114,999	−19,408
	1	Printer	4152	178,200	7,358	185,558	79,000	7,456	73,800	3,047	163,303	22,254
		Total		2,106,000	86,959	2,192,959	946,500	89,330	567,900	23,449	1,627,179	565,779

NOTE.—Amounts may not add in dollar columns because of omission of cents.

IBM 7070 TAPE SYSTEM

1 shift	1	Console control	7150	$18,000	$743	$18,743	$13,050	$1,231	$1,008	$39	$15,329	$3,413
	1	Core storage	7301	210,000	8,671	218,671	195,000	18,404	2,025	80	215,509	3,161
	1	Console card reader	7501	4,500	185	4,685	3,100	292	351	14	3,757	927
	1	I/O control	7600	49,500	2,043	51,543	34,200	3,227	1,317	51	38,796	12,747
	1	Arith. and prog. control	7601	180,000	7,432	187,432	145,500	13,732	5,694	224	165,150	22,281
	1	Core storage control	7602	96,000	3,963	99,963	73,950	6,979	2,037	80	83,046	16,917
	1	Tape control	7604	162,000	6,689	168,689	125,500	11,844	5,469	219	143,033	25,655
	1	Power converter	7802	24,000	990	24,990	20,000	1,887	378	15	22,280	2,710
	6	Tape drives	729–2	252,000	10,405	262,405	216,000	20,386	42,480	1,737	280,603	−18,197
		Total		996,000	41,126	1,037,126	826,300	77,986	60,759	2,462	967,508	69,617
2 shifts	1	Console control	7150	25,200	1,040	26,240	13,050	1,231	1,411	55	15,748	10,492
	1	Core storage	7301	294,000	12,139	306,139	195,000	18,404	2,835	112	216,351	89,788
	1	Console card reader	7501	6,300	260	6,560	3,100	292	702	28	4,123	2,436
	1	I/O control	7600	69,300	2,861	72,161	34,200	3,227	1,843	72	39,344	32,817
	1	Arith. and prog. control	7601	252,000	10,405	262,405	145,500	13,732	7,971	314	167,518	94,886
	1	Core storage control	7602	134,400	5,549	139,949	73,950	6,979	2,851	112	83,893	56,055
	1	Tape control	7604	226,800	9,364	236,164	125,500	11,844	7,656	307	145,308	90,856
	1	Power converter	7802	33,600	1,387	34,987	20,000	1,887	529	21	22,438	12,549
	6	Tape drives	729–2	352,800	14,567	367,567	216,000	20,386	84,960	3,474	324,820	42,547
		Total		1,394,400	57,576	1,451,976	826,300	77,986	110,761	4,499	1,019,546	432,429
3 shifts	1	Console control	7150	32,400	1,337	33,737	13,050	1,231	1,814	71	16,167	17,570
	1	Core storage	7301	378,000	15,608	393,608	195,000	18,404	3,645	144	217,193	176,414
	1	Console card reader	7501	8,100	334	8,434	3,100	292	1,053	43	4,488	3,945
	1	I/O control	7600	89,100	3,679	92,779	34,200	3,227	2,370	93	39,891	52,887
	1	Arith. and prog. control	7601	324,000	13,378	337,378	145,500	13,732	10,249	404	169,885	167,492
	1	Core storage control	7602	172,800	7,135	179,935	73,950	6,979	3,666	144	84,740	95,194
	1	Tape control	7604	291,600	12,040	303,640	125,500	11,844	9,844	395	147,584	156,056
	1	Power converter	7802	43,200	1,783	44,983	20,000	1,887	680	27	22,595	22,388
	6	Tape drives	729–2	453,600	18,729	472,329	216,000	20,386	127,440	5,211	369,037	103,292
		Total		1,792,800	74,026	1,866,826	826,300	77,986	160,763	6,535	1,071,584	795,242

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

NCR 315 CARD AND PAPER TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
1 shift	2	File processor	315-3	$360,000	$14,864	$374,864	$330,000	$31,145	$24,000	$990	$386,136	—$11,271
	1	Printer	340-3	85,500	3,530	89,030	72,500	6,842	15,600	644	95,586	−6,556
	5	CRAM	353-1	285,000	11,767	296,767	190,000	17,932	47,500	1,961	257,393	39,374
	1	Card punch buffer	354-1	27,000	1,114	28,114	25,000	2,359	1,800	74	29,233	−1,118
	1	Interconnector	435	11,400	470	11,870	7,500	707	810	33	9,051	2,819
	1	Paper tape R/P	472-1	27,000	1,114	28,114	15,000	1,415	3,000	123	19,539	8,575
	1	Card reader	472-2	27,000	1,114	28,114	20,000	1,887	5,000	206	27,094	1,020
	1	Card punch	7550	28,200	1,164	29,364	20,250	1,911	1,890	78	24,129	5,235
		Total		851,100	35,142	886,242	680,250	64,202	99,600	4,112	848,164	38,078
2 shifts	2	File processor	315-3	414,000	17,094	431,094	330,000	31,145	44,400	1,833	407,378	23,715
	1	Printer	340-3	98,325	4,059	102,384	72,500	6,842	28,860	1,191	109,394	−7,009
	5	CRAM	353-1	327,750	13,533	341,283	190,000	17,932	87,875	3,628	299,435	41,847
	1	Card punch buffer	354-1	31,050	1,282	32,332	25,000	2,359	3,330	137	30,827	1,505
	1	Interconnector	435	13,110	541	13,651	7,500	707	1,498	61	9,768	3,883
	1	Paper tape R/P	472-1	31,050	1,282	32,332	15,000	1,415	5,550	229	22,194	10,137
	1	Card reader	472-2	31,050	1,282	32,332	20,000	1,887	9,250	381	31,519	812
	1	Card punch	7550	32,430	1,339	33,769	20,250	1,911	3,496	144	25,802	7,966
		Total		978,765	40,414	1,019,179	680,250	64,202	184,260	7,608	936,320	82,859
3 shifts	2	File processor	315-3	486,000	20,067	506,067	330,000	31,145	71,520	2,953	435,618	70,448
	1	Printer	340-3	115,425	4,766	120,191	72,500	6,842	46,488	1,919	127,750	−7,559
	5	CRAM	353-1	384,750	15,886	400,636	190,000	17,932	141,550	5,844	355,326	45,309
	1	Card punch buffer	354-1	36,450	1,505	37,955	25,000	2,359	5,364	221	32,944	5,010
	1	Interconnector	435	15,390	635	16,025	7,500	707	2,413	99	10,721	5,304
	1	Paper tape R/P	472-1	36,450	1,505	37,955	15,000	1,415	8,940	369	25,724	12,230
	1	Card reader	472-2	36,450	1,505	37,955	20,000	1,887	14,900	615	37,402	552
	1	Card punch	7550	38,070	1,571	39,641	20,250	1,911	5,632	232	28,025	11,615
		Total		1,148,985	47,442	1,196,427	680,250	64,202	296,808	12,255	1,053,515	142,912

NOTE.—Amounts may not add in dollar columns because of omission of cents.

1 shift	1	Central processor	1411–3	$340,800	$14,072	$354,872	$273,475	$25,810	$5,052	$206	$304,544	$50,327
	1	Console	1415–1	15,000	619	15,619	13,600	1,283	645	25	15,554	64
	1	I/O synchronizer	1414–3	77,100	3,183	80,283	55,575	5,245	1,869	76	62,765	17,517
	1	Card read/punch	1402–2	36,900	1,523	38,423	32,700	3,086	4,344	174	40,304	−1,881
	1	Printer	1403–2	51,000	2,105	53,105	37,125	3,503	11,724	472	52,825	280
	1	I/O synchronizer	1414–1	58,500	2,415	60,915	43,500	4,105	858	35	48,498	12,417
	4	Tape drives	729–2	168,000	6,936	174,936	144,000	13,590	28,320	1,158	187,068	−12,131
		Total		747,300	30,856	778,156	599,975	56,625	52,812	2,149	711,561	66,595
2 shifts	1	Central processor	1411–3	477,120	19,700	496,820	273,475	25,810	10,104	413	309,803	187,017
	1	Console	1415–1	21,000	867	21,867	13,600	1,283	1,290	51	16,225	5,641
	1	I/O synchronizer	1414–3	107,940	4,456	112,396	55,575	5,245	3,738	153	64,711	47,685
	1	Card read/punch	1402–2	51,660	2,133	53,793	32,700	3,086	8,688	349	44,823	8,969
	1	Printer	1403–2	71,400	2,948	74,348	37,125	3,503	23,448	944	65,021	9,326
	1	I/O synchronizer	1414–1	81,900	3,381	85,281	43,500	4,105	1,716	70	49,391	35,890
	4	Tape drives	729–2	235,200	9,711	244,911	144,000	13,590	56,640	2,316	216,546	28,364
				1,046,220	43,199	1,089,419	599,975	56,625	105,624	4,298	766,523	322,896
3 shifts	1	Central processor	1411–3	613,440	25,329	638,769	273,475	25,810	15,156	620	315,062	323,707
	1	Console	1415–1	27,000	1,114	28,114	13,600	1,283	1,935	77	16,896	11,218
	1	I/O synchronizer	1414–3	138,780	5,730	144,510	55,575	5,245	5,607	229	66,656	77,853
	1	Card read/punch	1402–2	66,420	2,742	69,162	32,700	3,086	13,032	523	49,341	19,820
	1	Printer	1403–2	91,800	3,790	95,590	37,125	3,503	35,172	1,416	77,217	18,373
	1	I/O synchronizer	1414–1	105,300	4,347	109,647	43,500	4,105	2,574	105	50,284	59,363
	4	Tape drives	729–2	302,400	12,486	314,886	144,000	13,590	84,960	3,474	246,024	68,861
		Total		1,345,140	55,542	1,400,682	599,975	56,625	158,436	6,447	821,484	579,198

NOTE—Amounts may not add in dollar columns because of omission of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

UNIVAC SS 90 TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
1 shift	1	Central processor	7933	$290,100	$11,978	$302,078	$213,000	$20,102	$60,420	$2,494	$296,017	$6,060
	1	Tape synchronizer	7914	60,000	2,477	62,477	50,000	4,719	15,000	619	70,338	−7,860
	6	Tape drives	7915	162,000	6,689	168,689	120,000	11,325	40,320	1,664	173,310	−4,621
	1	Card reader	7945	18,300	755	19,055	13,500	1,274	3,900	161	18,835	220
	1	Read/punch	7946	58,500	2,415	60,915	42,700	4,030	20,100	829	67,659	−6,744
	1	Printer	7912	59,100	2,440	61,540	43,300	4,086	21,000	867	69,253	−7,713
		Total		648,000	26,756	674,756	482,500	45,538	160,740	6,637	695,415	−20,658
2 shifts	1	Central processor	7933	406,140	16,760	422,900	213,000	20,102	96,672	3,991	333,766	89,143
	1	Tape synchronizer	7914	84,000	3,468	87,468	50,000	4,719	24,000	990	79,709	7,758
	6	Tape drives	7915	226,800	9,364	236,164	120,000	11,325	64,512	2,663	198,501	37,663
	1	Card reader	7945	25,620	1,057	26,677	13,500	1,274	6,240	257	21,271	5,406
	1	Read/punch	7946	81,900	3,381	85,281	42,700	4,030	32,160	1,327	80,217	5,063
	1	Printer	7912	82,740	3,416	86,156	43,300	4,086	33,600	1,387	82,374	3,782
		Total		907,200	37,459	944,659	482,500	45,538	257,184	10,619	795,841	148,817
3 shifts	1	Central processor	7933	522,180	21,561	543,741	213,000	20,102	126,882	5,239	365,224	178,517
	1	Tape synchronizer	7914	108,000	4,459	112,459	50,000	4,719	31,500	1,300	87,519	24,939
	6	Tape drives	7915	291,600	12,040	303,640	120,000	11,325	84,672	3,496	219,493	84,146
	1	Card reader	7945	32,940	1,360	34,300	13,500	1,274	8,190	338	23,302	10,997
	1	Read/punch	7946	105,300	4,347	109,647	42,700	4,030	42,210	1,742	90,682	18,965
	1	Printer	7912	106,380	4,392	110,772	43,300	4,086	44,100	1,820	93,307	17,464
		Total		1,166,400	48,162	1,214,562	482,500	45,538	337,554	13,938	879,530	335,031

HONEYWELL 400 CARD AND TAPE SYSTEM

1 shift	1	Central processor	401	$238,500	$9,847	$248,347	$178,875	$16,882	$32,136	$1,270	$229,164	$19,183
	1	Additional memory	402	78,000	3,220	81,220	58,500	5,521	4,212	166	68,399	12,820
	4	Tape drives	404	216,000	8,918	224,918	172,800	16,308	46,656	1,844	237,609	−12,690
	1	Card reader	423	19,500	805	20,305	14,700	1,387	3,753	140	19,980	324

	1	Card punch	424	12,240	505	12,745	8,881	838	1,905	77	11,702	1,045
	1	Multiply-divide	451	15,000	619	15,619	11,250	1,061	810	32	13,153	2,463
		Total		579,240	23,917	603,157	445,006	41,999	89,472	3,532	580,010	23,147
2 shifts	1	Central processor	401	334,068	13,794	347,862	178,875	16,882	64,272	2,541	262,570	85,291
	1	Additional memory	402	109,257	4,511	113,768	58,500	5,521	8,424	333	72,778	40,990
	4	Tape drives	404	302,592	12,494	315,086	172,800	16,308	93,312	3,689	286,110	28,975
	1	Card reader	423	27,314	1,127	28,442	14,700	1,387	7,506	280	23,874	4,568
	1	Card punch	424	15,936	658	16,594	8,881	838	3,810	155	13,685	2,908
	1	Multiply-divide	451	21,019	867	21,887	11,250	1,061	1,620	64	13,995	7,891
		Total		810,187	33,453	843,640	445,006	41,999	178,944	7,065	673,015	170,625
3 shifts	1	Central processor	401	429,636	17,740	447,376	178,875	16,882	96,408	3,812	295,977	151,398
	1	Additional memory	402	140,515	5,802	146,317	58,500	5,521	12,636	499	77,156	69,160
	4	Tape drives	404	389,184	16,069	405,253	172,800	16,308	139,968	5,534	334,611	70,642
	1	Card reader	423	35,128	1,450	36,579	14,700	1,387	11,259	421	27,767	8,811
	1	Card punch	424	19,632	810	20,442	8,881	838	5,715	233	15,668	4,774
	1	Multiply-divide	451	27,038	1,116	28,154	11,250	1,061	2,430	96	14,837	13,316
		Total		1,041,134	42,989	1,084,124	445,006	41,999	268,416	10,598	766,019	318,104

IBM 1401 CARD AND TAPE OFF-LINE SYSTEM

1 shift	1	Central processor	1401	$216,900	$8,956	$225,856	$164,185	$15,495	$7,962	$324	$187,967	$37,888
	1	Card read/punch	1402	35,100	1,449	36,549	31,150	2,939	3,330	128	37,548	−998
	1	Printer	1403	46,500	1,920	48,420	34,000	3,208	11,724	472	49,405	−985
	3	Tape drives	729–2	126,000	5,202	131,202	108,000	10,193	21,240	868	140,301	−9,098
		Total		424,500	17,528	442,028	337,335	31,837	44,256	1,793	415,222	26,805
2 shifts	1	Central processor	1401	303,660	12,538	316,198	164,185	15,495	15,924	649	196,254	119,943
	1	Card read/punch	1402	49,140	2,029	51,169	31,150	2,939	6,660	256	41,006	10,162
	1	Printer	1403	65,100	2,688	67,788	34,000	3,208	23,448	944	61,601	6,186
	3	Tape drives	729–2	176,400	7,283	183,683	108,000	10,193	42,480	1,737	162,410	21,273
		Total		594,300	24,539	618,839	337,335	31,837	88,512	3,587	461,272	157,566
3 shifts	1	Central processor	1401	390,420	16,120	406,540	164,185	15,495	23,886	974	204,541	201,999
	1	Card read/punch	1402	63,180	2,608	65,788	31,150	2,939	9,990	384	44,464	21,323
	1	Printer	1403	83,700	3,456	87,156	34,000	3,208	35,172	1,416	73,797	13,358
	3	Tape drives	729–2	226,800	9,364	236,164	108,000	10,193	63,720	2,605	184,518	51,646
		Total		764,100	31,550	795,650	337,335	31,837	132,768	5,381	507,322	288,327

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

IBM 1401 CARD AND TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
1 shift	1	Central processor	1401	$149,100	$6,156	$155,256	$142,035	$13,405	$4,887	$197	$160,525	—$5,268
	1	Card read/punch	1402	33,600	1,387	34,987	30,215	2,851	3,090	118	36,275	—1,287
	1	Printer	1403	46,500	1,920	48,420	34,000	3,208	11,724	472	49,405	—985
	1	Additional storage	1406	34,500	1,424	35,924	24,500	2,312	816	33	27,661	8,262
	4	Tape drives	7330	108,000	4,459	112,459	88,000	8,305	12,732	521	109,558	2,900
	1	Paper tape reader	1011	30,000	1,238	31,238	22,400	2,114	2,880	111	27,505	3,733
		Total		401,700	16,586	418,286	341,150	32,197	36,129	1,454	410,931	7,355
2 shifts	1	Central processor	1401	208,740	8,619	217,359	142,035	13,405	9,774	395	165,610	51,748
	1	Card read/punch	1402	47,040	1,942	48,982	30,215	2,851	6,180	236	39,483	9,498
	1	Printer	1403	65,100	2,688	67,788	34,000	3,208	23,448	944	61,601	6,186
	1	Additional storage	1406	48,300	1,994	50,294	24,500	2,312	1,632	67	28,511	21,782
	4	Tape drives	7330	151,200	6,243	157,443	88,000	8,305	25,464	1,042	122,811	34,631
	1	Paper tape reader	1011	42,000	1,734	43,734	22,400	2,114	5,760	222	30,496	13,237
		Total		562,380	23,221	585,601	341,150	32,197	72,258	2,908	448,514	137,086
3 shifts	1	Central processor	1401	268,380	11,081	279,461	142,035	13,405	14,661	593	170,695	108,766
	1	Card read/punch	1402	60,480	2,497	62,977	30,215	2,851	9,270	355	42,691	20,285
	1	Printer	1403	83,700	3,456	87,156	34,000	3,208	35,172	1,416	73,797	13,358
	1	Additional storage	1406	62,100	2,564	64,664	24,500	2,312	2,448	100	29,360	35,303
	4	Tape drives	7330	194,400	8,027	202,427	88,000	8,305	38,196	1,563	136,065	66,361
	1	Paper tape reader	1011	54,000	2,229	56,229	22,400	2,114	8,640	333	33,487	22,742
		Total		723,060	29,855	752,915	341,150	32,197	108,387	4,363	486,098	266,817

IBM 1401 CARD SYSTEM

1 shift	1	Central processor	1401	$90,900	$3,753	$94,653	$91,100	$8,598	$3,183	$127	$103,008	−$8,355
	1	Card read/punch	1402	33,000	1,362	34,362	30,000	2,831	3,090	118	36,039	−1,677
	1	Printer	1403	46,500	1,920	48,420	34,000	3,208	11,724	472	49,405	−985
		Total		170,400	7,035	177,435	155,100	14,638	17,997	718	188,453	−11,017
2 shifts	1	Central processor	1401	127,260	5,254	132,514	91,100	8,598	6,366	254	106,318	26,195
	1	Card read/punch	1402	46,200	1,907	48,107	30,000	2,831	6,180	236	39,248	8,859
	1	Printer	1403	65,100	2,688	67,788	34,000	3,208	23,448	944	61,601	6,186
		Total		238,560	9,850	248,410	155,100	14,638	35,994	1,436	207,168	41,241
3 shifts	1	Central processor	1401	163,620	6,756	170,376	91,100	8,598	9,549	382	109,629	60,746
	1	Card read/punch	1402	59,400	2,452	61,852	30,000	2,831	9,270	355	42,456	19,396
	1	Printer	1403	83,700	3,456	87,156	34,000	3,208	35,172	1,416	73,797	13,358
		Total		306,720	12,664	319,384	155,100	14,638	53,991	2,154	225,883	93,501

CDC 160A PAPER TAPE SYSTEM

1 shift	1	Central processor	160-A	$135,000	$5,574	$140,574	$90,000	$8,494	$13,500	$557	$112,551	$28,022
	1	Input-output typewriter	161	15,720	649	16,369	10,500	990	8,400	346	20,237	−3,868
		Total		150,720	6,223	156,943	100,500	9,485	21,900	904	132,789	24,153
2 shifts	1	Central processor	160-A	189,000	7,804	196,804	90,000	8,494	21,000	867	120,361	76,442
	1	Input-output typewriter	161	22,008	908	22,916	10,500	990	12,600	520	24,611	−1,694
		Total		211,008	8,712	219,720	100,500	9,485	33,600	1,387	144,972	74,748
3 shifts	1	Central processor	160-A	243,000	10,033	253,033	90,000	8,494	27,000	1,114	126,609	126,424
	1	Input-output typewriter	161	28,296	1,168	29,464	10,500	990	16,800	693	28,984	479
		Total		271,296	11,202	282,498	100,500	9,485	43,800	1,808	155,593	126,904

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

RCA 501 TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
Base rental.	1	Central processor	503	$333,720	$13,779	$347,499	$218,500	$20,622	$18,000	$714	$257,836	$89,662
	1	Storage	561-2	210,120	8,676	218,796	150,500	14,204	3,024	115	167,843	50,952
	10	Tape units	581	340,200	14,047	354,247	297,000	28,030	85,440	3,465	413,936	−59,689
	1	Tape switching unit	547-6	18,540	765	19,305	11,800	1,113	1,032	40	13,986	5,318
	1	EM printer	535	105,060	4,338	109,398	85,000	8,022	21,672	873	115,567	−6,169
		Total		1,007,640	41,606	1,049,246	762,800	71,993	129,168	5,210	969,171	80,074
Extended use, 5 days.	1	Central processor	503	390,000	16,103	406,103	218,500	20,622	30,745	1,221	271,089	135,013
	1	Storage	561-2	246,000	10,157	256,157	150,500	14,204	5,171	198	170,073	86,084
	10	Tape units	581	396,000	16,351	412,351	297,000	28,030	236,755	9,601	571,387	−159,035
	1	Tape switching unit	547-6	21,600	891	22,491	11,800	1,113	1,781	70	14,765	7,726
	1	EM printer	535	122,400	5,054	127,454	85,000	8,022	60,114	2,422	155,558	−28,104
		Total		1,176,000	48,558	1,224,558	762,800	71,993	334,568	13,513	1,182,874	41,683
Extended use, 7 days.	1	Central processor	503	420,000	17,342	437,342	218,500	20,622	36,490	1,450	277,063	160,279
	1	Storage	561-2	264,000	10,900	274,900	150,500	14,204	6,138	235	171,077	103,822
	10	Tape units	581	432,000	17,837	449,837	297,000	28,030	304,953	12,366	642,350	−192,512
	1	Tape switching unit	547-6	23,400	966	24,366	11,800	1,113	2,119	83	15,116	9,249
	1	EM printer	535	132,600	5,475	138,075	85,000	8,022	77,440	3,120	173,582	−35,507
		Total		1,272,000	52,522	1,324,522	762,800	71,993	427,142	17,255	1,279,191	45,331

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Base rental.	1	Central processor	304	$145,260	$5,997	$151,257	$112,900	$10,655	$5,748	$230	$129,534	$21,723
	1	Paper tape reader	311	7,440	307	7,747	5,900	556	414	16	6,887	859
	1	Data file control	317	7,740	319	8,059	6,250	589	474	19	7,332	726
	1	Paper tape R/P	321	10,500	433	10,933	7,800	736	1,158	45	9,739	1,194
	1	Data record file	361	18,540	765	19,305	14,900	1,406	6,126	246	22,678	−3,373
	1	Printer	333	43,260	1,786	45,046	32,200	3,039	11,748	472	47,459	−2,413
	1	Printer control	316	9,300	384	9,684	7,850	740	540	21	9,152	531
	1	Typewriter verifier	326	9,300	384	9,684	4,500	424	1,176	45	6,146	3,537
	1	Card reader	323	21,660	894	22,554	15,850	1,495	2,052	80	19,478	3,076
	1	Card reader control	314	8,040	331	8,371	6,900	651	480	19	8,050	321
		Total		281,040	11,604	292,644	215,050	20,296	29,916	1,196	266,459	26,185
Extended use, 5 days.	1	Central processor	304	168,000	6,936	174,936	112,900	10,655	15,937	640	140,133	34,803
	1	Paper tape reader	311	8,700	359	9,059	5,900	556	1,163	45	7,666	1,392
	1	Data file control	317	9,000	371	9,371	6,250	589	1,326	54	8,220	1,151
	1	Paper tape R/P	321	12,300	507	12,807	7,800	736	3,236	126	11,899	908
	1	Data record file	361	21,600	891	22,491	14,900	1,406	16,997	684	33,987	−11,495
	1	Printer	333	50,400	2,081	52,481	32,200	3,039	32,639	1,312	69,190	−16,709
	1	Printer control	316	10,800	445	11,245	7,850	740	1,460	57	10,109	1,136
	1	Typewriter verifier	326	10,800	445	11,245	4,500	424	3,254	126	8,306	2,939
	1	Card reader	323	25,200	1,040	26,240	15,850	1,495	5,630	219	23,196	3,044
	1	Card reader control	314	9,300	384	9,684	6,900	651	1,400	55	9,006	677
		Total		326,100	13,465	339,565	215,050	20,296	83,046	3,323	321,716	17,848
Extended use, 7 days.	1	Central processor	304	183,000	7,556	190,556	112,900	10,655	20,530	824	144,910	45,645
	1	Paper tape reader	311	9,300	384	9,684	5,900	556	1,501	59	8,017	1,666
	1	Data file control	317	9,900	408	10,308	6,250	589	1,710	70	8,619	1,688
	1	Paper tape R/P	321	13,200	545	13,745	7,800	736	4,173	162	12,872	872
	1	Data file record	361	23,400	966	24,366	14,900	1,406	21,897	881	39,084	−14,718
	1	Printer	333	54,600	2,254	56,854	32,200	3,039	42,054	1,691	78,985	−22,130
	1	Printer control	316	11,700	483	12,183	7,850	740	1,874	74	10,540	1,642
	1	Typewriter verifier	326	11,700	483	12,183	4,500	424	4,191	163	9,279	2,903
	1	Card reader	323	27,600	1,139	28,739	15,850	1,495	7,243	282	24,872	3,867
	1	Card reader control	314	10,200	421	10,621	6,900	651	1,814	71	9,437	1,183
		Total		354,600	14,641	369,241	215,050	20,296	106,992	4,281	346,620	22,620

NOTE.—Amounts may not add in dollar columns because of omissions of cents.

Comparison of lease and purchase costs over a 5-year period—Continued

RCA 501 TAPE SYSTEM

Extent of use	Components			Lease alternative			Purchase alternative					Savings or loss (—) on purchase basis
	Quantity	Type	Model	Cost to lease	Interest on cost to lease	Total cost to lease	Cost to purchase	Interest on cost to purchase	Cost to maintain	Interest on cost to maintain	Total cost to purchase	
Base rental.	1	Central processor	503	$333,720	$13,779	$347,499	$218,500	$20,622	$18,000	$714	$257,836	$89,662
	1	Storage	561–2	210,120	8,676	218,796	150,500	14,204	3,024	115	167,843	50,952
	10	Tape units	581	340,200	14,047	354,247	297,000	28,030	85,440	3,465	413,936	−59,689
	1	Tape switching unit	547–6	18,540	765	19,305	11,800	1,113	1,032	40	13,986	5,318
	1	EM printer	535	105,060	4,338	109,398	85,000	8,022	21,672	873	115,567	−6,169
		Total		1,007,640	41,606	1,049,246	762,800	71,993	129,168	5,210	969,171	80,074
Extended use, 5 days.	1	Central processor	503	390,000	16,103	406,103	218,500	20,622	30,745	1,221	271,089	135,013
	1	Storage	561–2	246,000	10,157	256,157	150,500	14,204	5,171	198	170,073	86,084
	10	Tape units	581	396,000	16,351	412,351	297,000	28,030	236,755	9,601	571,387	−159,035
	1	Tape switching unit	547–6	21,600	891	22,491	11,800	1,113	1,781	70	14,765	7,726
	1	EM printer	535	122,400	5,054	127,454	85,000	8,022	60,114	2,422	155,558	−28,104
		Total		1,176,000	48,558	1,224,558	762,800	71,993	334,568	13,513	1,182,874	41,683
Extended use, 7 days.	1	Central processor	503	420,000	17,342	437,342	218,500	20,622	36,490	1,450	277,063	160,279
	1	Storage	561–2	264,000	10,900	274,900	150,500	14,204	6,138	235	171,077	103,822
	10	Tape units	581	432,000	17,837	449,837	297,000	28,030	304,953	12,366	642,350	−192,512
	1	Tape switching unit	547–6	23,400	966	24,366	11,800	1,113	2,119	83	15,116	9,249
	1	EM printer	535	132,600	5,475	138,075	85,000	8,022	77,440	3,120	173,582	−35,507
		Total		1,272,000	52,522	1,324,522	762,800	71,993	427,142	17,255	1,279,191	45,331

NOTE.—Amounts may not add in dollar columns because of omission of cents.

Base rental.	1	Central processor	304	$145,260	$5,997	$151,257	$112,900	$10,655	$5,748	$230	$129,534	$21,723
	1	Paper tape reader	311	7,440	307	7,747	5,900	556	414	16	6,887	859
	1	Data file control	317	7,740	319	8,059	6,250	589	474	19	7,332	726
	1	Paper tape R/P	321	10,500	433	10,933	7,800	736	1,158	45	9,739	1,194
	1	Data record file	361	18,540	765	19,305	14,900	1,406	6,126	246	22,678	−3,373
	1	Printer	333	43,260	1,786	45,046	32,200	3,039	11,748	472	47,459	−2,413
	1	Printer control	316	9,300	384	9,684	7,850	740	540	21	9,152	531
	1	Typewriter verifier	326	9,300	384	9,684	4,500	424	1,176	45	6,146	3,537
	1	Card reader	323	21,660	894	22,554	15,850	1,495	2,052	80	19,478	3,076
	1	Card reader control	314	8,040	331	8,371	6,900	651	480	19	8,050	321
		Total		281,040	11,604	292,644	215,050	20,296	29,916	1,196	266,459	26,185
Extended use, 5 days.	1	Central processor	304	168,000	6,936	174,936	112,900	10,655	15,937	640	140,133	34,803
	1	Paper tape reader	311	8,700	359	9,059	5,900	556	1,163	45	7,666	1,392
	1	Data file control	317	9,000	371	9,371	6,250	589	1,326	54	8,220	1,151
	1	Paper tape R/P	321	12,300	507	12,807	7,800	736	3,236	126	11,899	908
	1	Data record file	361	21,600	891	22,491	14,900	1,406	16,997	684	33,987	−11,495
	1	Printer	333	50,400	2,081	52,481	32,200	3,039	32,639	1,312	69,190	−16,709
	1	Printer control	316	10,800	445	11,245	7,850	740	1,460	57	10,109	1,136
	1	Typewriter verifier	326	10,800	445	11,245	4,500	424	3,254	126	8,306	2,939
	1	Card reader	323	25,200	1,040	26,240	15,850	1,495	5,630	219	23,196	3,044
	1	Card reader control	314	9,300	384	9,684	6,900	651	1,400	55	9,006	677
		Total		326,100	13,465	339,565	215,050	20,296	83,046	3,323	321,716	17,848
Extended use, 7 days.	1	Central processor	304	183,000	7,556	190,556	112,900	10,655	20,530	824	144,910	45,645
	1	Paper tape reader	311	9,300	384	9,684	5,900	556	1,501	59	8,017	1,666
	1	Data file control	317	9,900	408	10,308	6,250	589	1,710	70	8,619	1,688
	1	Paper tape R/P	321	13,200	545	13,745	7,800	736	4,173	162	12,872	872
	1	Data file record	361	23,400	966	24,366	14,900	1,406	21,897	881	39,084	−14,718
	1	Printer	333	54,600	2,254	56,854	32,200	3,039	42,054	1,691	78,985	−22,130
	1	Printer control	316	11,700	483	12,183	7,850	740	1,874	74	10,540	1,642
	1	Typewriter verifier	326	11,700	483	12,183	4,500	424	4,191	163	9,279	2,903
	1	Card reader	323	27,600	1,139	28,739	15,850	1,495	7,243	282	24,872	3,867
	1	Card reader control	314	10,200	421	10,621	6,900	651	1,814	71	9,437	1,183
		Total		354,600	14,641	369,241	215,050	20,296	106,992	4,281	346,620	22,620

NOTE.—Amounts may not add in dollar columns because of omission of cents.

APPENDIX I–A

COMPTROLLER GENERAL OF THE UNITED STATES,
Washington, August 26, 1960.

Hon. JOHN LESINSKI,
Chairman, Subcommittee on Census and Government Statistics, Committee on Post Office and Civil Service, House of Representatives.

DEAR MR. CHAIRMAN: During the hearing held by your subcommittee on June 5, 1959, on the use of automatic data-processing equipment in the Federal Government, representatives of the General Accounting Office and the Bureau of the Budget were requested to make a study of Federal agency policies with regard to lease versus purchase of automatic data-processing equipment.

A considerable amount of work has been done by our agencies on this study, working with representatives of other Government agencies and ADP equipment suppliers in an effort to ascertain the basis for present agency practices in acquiring the use of this kind of equipment. Since a significant amount of detailed analysis work remains to be done, we are submitting this interim progress report at this time to advise you of the status of the study and to summarize some of the information obtained.

INTERAGENCY ADP REPORT ON RENTAL VERSUS PURCHASE OF ADP EQUIPMENT

In April 1958, a task force of the interagency ADP committee completed a report entitled "Rental Versus Purchase Criteria for ADP and EAM Equipment." This report was widely circulated in the Federal Government and it has been extensively used as a reference document in connection with individual agency studies of the lease versus purchase problem.

BACKGROUND OF GOVERNMENT PRACTICE WITH REGARD TO LEASE VERSUS PURCHASE

Over the years, it has been the practice of Federal agencies to lease rather than to purchase punched card and electronic data-processing machines. As of the present time, most of the punched card and electronic equipment used in Government operations is on a lease basis. Numerous reasons have been advanced as justification for this practice. Chief among these reasons are the following:

1. Leased equipment can more easily be replaced by new, improved equipment, thereby encouraging the use of the most modern equipment.
2. Maintenance of the equipment is the supplier's responsibility, which carries with it the need for the suppliers' organization, rather than the Government, to retain a trained maintenance staff and to supply maintenance material and spare parts.
3. Modification and improvement of leased equipment can be more readily provided by the trained maintenance staff of the equipment supplier.
4. Systems and procedures help is more readily available from the equipment supplier if the equipment is being leased.
5. Leasing is a hedge against obsolescence.
6. Capital investment is not required.
7. The risk of major loss by fire or other disaster is avoided.
8. Leasing provides a hedge against failure of the system to operate as expected.
9. Leasing provides a hedge against changing missions and military or other requirements.

On the other hand, agencies that have purchased equipment outright contend that overall costs to the Government are lower, particularly when the equipment is used on a multiple-shift basis. Among the principal arguments that have been advanced in favor of purchasing ADP equipment are the following:

1. Overall costs to the Government are lower over a long period of time.
2. Data-processing systems that were installed 6 and 7 years ago are still in use and performing dependable service.
3. If the equipment ceases to be economically efficient for the original activity, the equipment might well be used in another Government activity.
4. If it is necessary to exchange equipment for any reason, the trade-in allowance can be applied to the purchase price of the new equipment.
5. Purchase prevents additional charges by the suppliers for multiple-shift usage.
6. There is no danger of being unable to renew a lease or having to pay a premium rental for renewal.

Out of the 540 computers installed in Government as of June 1960, only 85 have been purchased. The continuation of the trend toward leasing is evidenced by the fact that for the current fiscal year, only 4 machines are scheduled to be purchased out of the approximately 100 computers scheduled for installation.

In our studies, we have found that in some instances agency regulations favor leasing as a matter of agency policy by considering leasing to be the normal practice and requiring specific cost study justifications for the purchase of equipment. Also, our reviews have disclosed that some agencies have recently concluded studies which support the contention that purchase of certain kinds of equipment is less costly in the long run, particularly where extra shifts of usage of the equipment is involved.

In view of the results of these agency studies, we plan to pursue our review along the lines of attempting to more specifically develop the criteria which should be considered in arriving at lease versus purchase decisions in the agencies. At the present time, since the preponderance of all Government EDP equipment is leased, it is apparent that under existing agency programs, present practices favor leasing rather than outright purchase of equipment. We feel, therefore, at this point in our studies, that agencies should give more favorable consideration to purchasing ADP equipment in those instances where savings can be demonstrated over a period of several years even though large capital outlays would be involved initially. This requirement can be established through Bureau of the Budget regulation, or other executive branch action; and provision could be made for a review of individual agency determinations during the regular budget review cycle, using criteria established by the Bureau of the Budget as an outgrowth of our present study.

This status report has been reviewed with representatives of the Bureau of the Budget and the information discussed herein has their concurrence. We will continue to carry out our studies of this matter and we will keep you advised as further developments occur.

Sincerely yours,

JOSEPH CAMPBELL.

APPENDIX I–B

COMPTROLLER GENERAL OF THE UNITED STATES,
Washington, November 8, 1961.

B–115386.

Hon. JOHN LESINSKI,
Chairman, Subcommittee on Census and Government Statistics, Committee on Post Office and Civil Service, House of Representatives.

DEAR MR. CHAIRMAN: In an interim progress report to your committee on the subject of lease versus purchase of automatic data processing equipment in the Federal Government, dated August 26, 1960, we advised you of the status of the study of this matter which we were conducting jointly with the Bureau of the Budget at the request of your committee.

We commented in the report that our studies to that point indicated that agencies should give more favorable consideration to purchasing ADP equipment in instances where savings could be demonstrated over a period of several years even though large capital outlays would be involved initially. We further stated that this requirement could be established through Bureau of the Budget regulations or other executive branch action, and provision could be made for a review of individual agency determinations during the regular budget review cycle, using criteria established by the Bureau of the Budget as an outgrowth of the studies being conducted.

On October 14, 1961, the Bureau of the Budget issued its circular No. A–54 to the heads of executive departments and establishments on policies on selection and acquisition of automatic data processing equipment. A copy of this circular is enclosed for your information and use. This document establishes executive branch policy with regard to not only the question of lease versus purchase of ADP equipment, but also the matter of selection and acquisition of such equipment by the agencies.

We believe that with the release of this circular the initial joint study with the Bureau of the Budget of this matter has been completed. However, our Office plans to carry out additional reviews in individual agencies with respect to the

utilization of ADP equipment, including the lease versus purchase subject, and we will keep you informed on the results of this work.

Sincerely yours,

JOSEPH CAMPBELL.

APPENDIX I–C

EXECUTIVE OFFICE OF THE PRESIDENT,
BUREAU OF THE BUDGET,
Washington, D.C., October 14, 1961.

Circular No. A–54.

Subject: Policies on selection and acquisition of automatic data processing (ADP) equipment.

To the Heads of Executive Departments and Establishments:

1. *Purpose.*—This Circular prescribes policies on (a) making selections of equipment to be acquired for use in the automatic data processing (ADP) program of the executive branch, and (b) making determinations as to whether the ADP equipment to be acquired will be leased, purchased, or leased with an option to purchase.

2. *Scope.*—The ADP equipment affected by the policies stated herein includes:

(*a*) Electronic digital computers, irrespective of use, size, capacity, or price;

(*b*) All peripheral or auxiliary equipment used in support of electronic computers, whether or not cable-connected and whether selected and acquired with the computer or separately;

(*c*) Punched-card equipment, whether used in conjunction with or independent of an electronic computer; and

(*d*) Data transmission or communications equipment that is selected and acquired solely or primarily for use with a configuration of ADP equipment which includes an electronic computer.

Analog computers are covered only when computers of this type are being used as equipment peripheral to a digital computer.

Items of ADP equipment that are (a) physically incorporated in a weapon, or (b) manufactured for the Government under a developmental contract, are not affected by the policies stated herein.

3. *Applicability.*—The policies herein apply to ADP equipment acquired by the Government and to that ADP equipment which is acquired and operated by Government contractors solely to process Government data at Government expense (e.g., Government-owned, contractor-operated facilities). These policies do not apply to ADP equipment acquired by universities and similar institutions with financial assistance through grants-in-aid of Government funds.

The policy provisions of this circular become applicable when a determination has been made that the utilization of ADP equipment is essential. It is assumed that such determinations have been preceded by and are based upon the results of well-documented studies which provide an adequate factual basis for concluding (*a*) that the functions or processes for which the ADP equipment can be used are essential to perform, and (*b*) that the systems, procedures, and methods to be employed in performing these functions or processes have been designed to achieve the highest practicable degree of effectiveness with optimum efficiency and operational economy. Guidelines for planning and conducting studies preceding a decision to utilize ADP equipment, for the development of system specifications, and for equipment evaluation and selection are contained in Bureau of the Budget Bulletin No. 60–6, "Automatic data processing (ADP) program of the executive branch: Studies preceding the acquisition of ADP equipment," dated March 18, 1960.

4. *Policies on equipment selection.*—The selection of ADP equipment includes the initial selection of ADP equipment, the selection of ADP equipment additional to that on hand, the selection of ADP equipment to replace ADP equipment on hand, the modification of equipment on hand, usually for the purpose of increasing memory capacity, computational capability, or speed of input or output, or combinations of the foregoing. In all these circumstances, the following policies apply:

(*a*) The selection of ADP equipment will not be made until system specifications are available to serve as a basis for selection. For purposes

of this circular, the term "system specifications" means (1) the delineation of the objectives which the system is intended to accomplish; (2) the data processing requirements underlying that accomplishment, i.e., a description of the data output and its intended uses, the data input, data files, volumes of data, processing frequencies and timing; and (3) such ADP equipment capabilities as may need to be identified. System specifications will be designed to insure free competition among equipment manufacturers.

(*b*) The officials responsible for making decisions on the selection of ADP equipment will assure that the selection process accords equal opportunity and appropriate consideration to all manufacturers who offer equipment capable of meeting the system specifications. In this connection, the selection process may be facilitated by written invitations to manufacturers to submit proposals as a means for obtaining information regarding the capabilities of ADP equipment to meet the system specifications.

(*c*) Two prime factors will be considered in the selection of equipment: (1) its capability to fulfill the system specifications, and (2) its overall costs, in terms of acquisition, preparation for use, and operation. The term "overall costs," as used in this paragraph, will be interpreted to include such cost elements as personnel, purchase price or rentals, maintenance of purchased equipment, site preparation and installation, programing and training. When ADP equipment of two or more manufacturers meets the system specifications, the equipment which represents the least overall cost to the Government will be selected. Factors which do not relate directly or indirectly to the capability of ADP equipment to meet system specifications or overall costs normally will not be included in the considerations unless a conclusive judgment cannot be made on the basis of the two prime factors.

5. *Policies on equipment acquisition.*—Most commercially available ADP equipment can be acquired by purchase or by lease, with or without an option to purchase. The General Services Administration has contracts with principal manufacturers, listed in Federal Supply Schedules (FSS), for the rental of ADP equipment. GSA currently is negotiating contracts for the purchase (including provisions for trade-in allowances) and maintenance of ADP equipment. Until such time as these contracts appear on the Federal Supply Schedule, it will be necessary for departments and agencies to negotiate purchase and maintenance transactions. All ADP equipment acquisition transactions are subject to prevailing policies, laws, and regulations governing procurement by Federal Government agencies. In addition, except for equipment that can be acquired by the purchase method only, the following policies are applicable:

(*a*) The method of acquiring ADP equipment will be determined after careful consideration of the relative merits of all methods available (i.e., purchase, lease, or lease with option to purchase). The method chosen will be that which offers the greatest advantage to the Government under the circumstances which pertain to each situation. In this connection, the following general guidelines will be taken into account:

(1) The purchase method is preferred when all of the following conditions exist:

(i) The system study which preceded the selection of the equipment has established a reasonable expectancy that the ADP equipment under consideration can be successfully and advantageously used.

(ii) A comparative cost analysis of the alternative methods of acquisition, of the types illustrated by attachments A and B, indicates that a cost advantage can be obtained by the purchase method in 6 years or less after the date of delivery. This analysis usually will include the following cost elements under each method: for the lease method—rental costs, including maintenance; for the purchase method—purchase costs, including purchase price, maintenance, and other onetime costs applicable only to purchase; for the lease-with-option-to-purchase method—rental costs, and purchase costs less credits applicable upon purchase. In addition to the cost elements described above, the residual value of equipment to the Federal Government will be considered as a factor in a comparative cost analysis. Trade-in allowances quoted by manufacturers may be used as a representation of the residual value.

(iii) The capabilities of the ADP equipment will continue to be needed and will be sufficient to satisfy the system requirements, current and projected, for a period beyond the point in time at which the purchase method begins to provide a cost advantage. The possibility that future technological advances will render the selected equipment comparatively obsolete before the cost advantage point is reached should not rule out purchase if the selected equipment is expected to be able to satisfy the system requirements.

(2) The lease-with-option-to-purchase method is indicated when it is necessary or advantageous to proceed with the acquisition of the equipment that meets system specifications, but it is desirable to defer temporarily a decision on purchase because circumstances do not fully satisfy the conditions which would indicate purchase. This situation might arise when it is determined that a short period of operational experience is desirable to prove the validity of a system design on which there is no previous experience, or where decisions which might substantially alter the system specifications are imminent.

(3) The lease method, without option to purchase, is indicated only when it is necessary or advantageous to proceed with the acquisition of equipment that meets system specifications and it has been established conclusively that any one of the conditions under which purchase is indicated is not attainable.

(*b*) Negotiations or renegotiations of equipment delivery dates will be conducted in a manner which insures that firm and final commitments by the Government to accept delivery of ADP equipment on a specific date will not be made until it has been determined through a readiness review that the using agency will be prepared to use the equipment productively as soon as it becomes operational.

6. *Review of current or pending lease transactions.*—(*a*) Lease or lease-with-purchase-option transactions in effect at the time this circular is issued, and which are expected to remain in effect until fiscal year 1964, will be reviewed in the light of the provisions of paragraph 5. If it is found to be to the advantage of the Government to purchase leased ADP equipment in this category, steps will be taken to make such purchases during the earliest fiscal year in which funds for this purpose are available to the Agency. Reviews of current lease transactions should be undertaken as soon as practicable and completed by June 30, 1962.

(*b*) The method of acquisition of ADP equipment selected but not yet accepted for delivery at the time this circular is issued will be reviewed for adherence to the policies herein stated, and, when indicated, the basis of acquisition will be changed to conform if permitted by the terms of the contract or agreement.

7. *Documentation.*—System studies (sometimes referred to as applications studies, feasibility studies, and by other terms), system specifications, and readiness reviews will be fully documented. Decisions on the selection of ADP equipment, on the method of acquisition, and on the review of the current status of the method of acquisition also will be documented to reflect adequately the considerations taken into account and the basis for the decisions.

8. *Administration of policies.*—The head of each executive department and establishment will establish the necessary framework of procedures, including appropriate reviews and controls, that will assure compliance with the policies herein stated.

By direction of the President:

DAVID E. BELL, *Director.*

Attachments.

[Attachment A]

Lease versus purchase representative ADP computer system based on 2-shift use

Item of cost	Costs by fiscal year					
	1962 [1]	1963	1964	1965	1966	1967
1. Purchase basis:						
(a) Purchase costs	$600,000	0	0	0	0	0
(b) Maintenance, cumulative	45,000	$90,000	$135,000	$190,000	$245,000	$300,000
(c) Cumulative, purchase basis	645,000	690,000	735,000	790,000	845,000	900,000
2. Lease basis, cumulative (including maintenance)	200,000	400,000	600,000	800,000	1,000,000	1,200,000
3. Purchase basis exceeds lease basis	445,000	290,000	135,000			
4. Lease basis exceeds purchase basis				10,000	145,000	300,000

[1] Year acquired, utilized full year.

[Attachment B]

Lease versus lease-with-option-to-purchase representative ADP computer system based on 1-shift use

Item of cost	Costs by fiscal year					
	1962 [1]	1963	1964	1965	1966	1967
1. Lease basis, with-option-to-purchase: (option exercised at end of 1st year).						
(a) Lease	$150,000					
(b) Less, credit upon purchase	−75,000					
(c) Purchase costs	600,000	0	0	0	0	0
(d) Maintenance, cumulative	26,000	$52,000	$78,000	$108,000	$138,000	$168,000
(e) Cumulative, lease/option basis	701,000	727,000	753,000	783,000	813,000	843,000
2. Lease basis, cumulative (including maintenance)	150,000	300,000	450,000	600,000	750,000	900,000
3. Lease/option exceeds lease basis	551,000	427,000	303,000	183,000	63,000	
4. Lease basis exceeds lease/option basis						57,000

[1] Year acquired, utilized full year.

APPENDIX II

INVENTORY OF AUTOMATIC DATA PROCESSING (ADP) EQUIPMENT IN THE FEDERAL GOVERNMENT

INCLUDING

COSTS, CATEGORIES OF USE, AND PERSONNEL UTILIZATION

AUGUST 1962

Executive Office of the President

Bureau of the Budget

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APPENDIX C IDENTIFICATION OF COMPUTER CODES

PREFACE

This document includes information on the utilization of all automatic data processing (ADP) equipment in the executive branch of the Federal Government, except for equipment which is used in military operational and certain classified activities within the Department of Defense.

The information is based on reports prepared by the Federal agencies in accordance with Bureau of the Budget Circular A-55, dated March 14, 1962, subject: Annual reports on the utilization of automatic data processing equipment in the executive branch.

Tables I through IV contain tabulations of the data reported by the agencies. Table I contains a summary tabulation by agency. Tables II, III, and IV contain listings of computer installations; each of these tables contains the same information, but is arranged in a different form; i.e., Table II lists the installations by agency, Table III lists them by geographic location, and Table IV lists them by make and model.

Highlights of the information contained in these tables are presented in graphic form in Charts 1 through 9 which precede the tables. Each chart is accompanied by an explanatory text. Historical data obtained from previous years' reports are included in some charts to portray trends.

Data for fiscal year 1961 and prior years are on an actual basis; data for fiscal years 1962 and 1963 are estimates.

Explanations of certain terms used throughout the document, and listings of codes by which the Federal departments and the computer makes and models may be fully identified are found in Appendixes A, B, and C, respectively.

Questions or comments related to this document may be directed to the Management Improvement and Research Branch, Office of Management and Organization, Bureau of the Budget, Washington 25, D. C. (telephone: code 113, extension 2733).

CHART NO. 1

NUMBER OF AGENCIES WITH ADP ORGANIZATIONAL UNITS

1. There are 40 out of 62 agencies in the executive branch which use ADP equipment. At the end of FY 1962, 29 of these 40 were utilizing electronic digital computers.

2. The usual pattern, as evidenced by the chart, is for an agency to install punched-card units first and then progress to the use of computers as the systems demand faster or more sophisticated data processing methods.

Number of Agencies With ADP Organizational Units

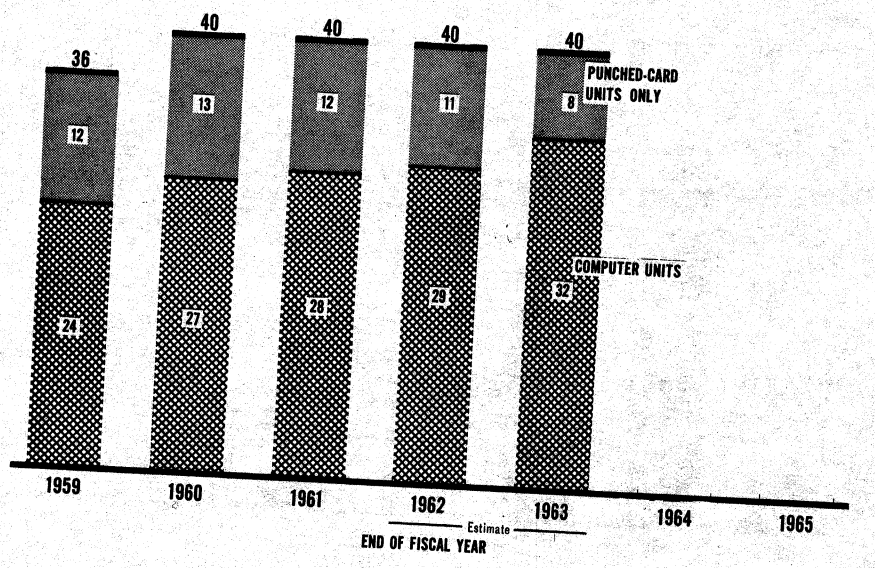

CHART NO. 2

NUMBER OF ADP ORGANIZATIONAL UNITS

1. An ADP organizational unit is an element of an organization which has custody of and operates equipment configurations consisting of (a) punched-card equipment only or (b) one or more electronic digital computers together with the supporting peripheral and punched-card equipment.

2. The number of ADP organizational units is increasing steadily. Note that this growth is accounted for by an increase in the number of computer units, inasmuch as the number of units with punched-card equipment only has virtually stabilized over the years.

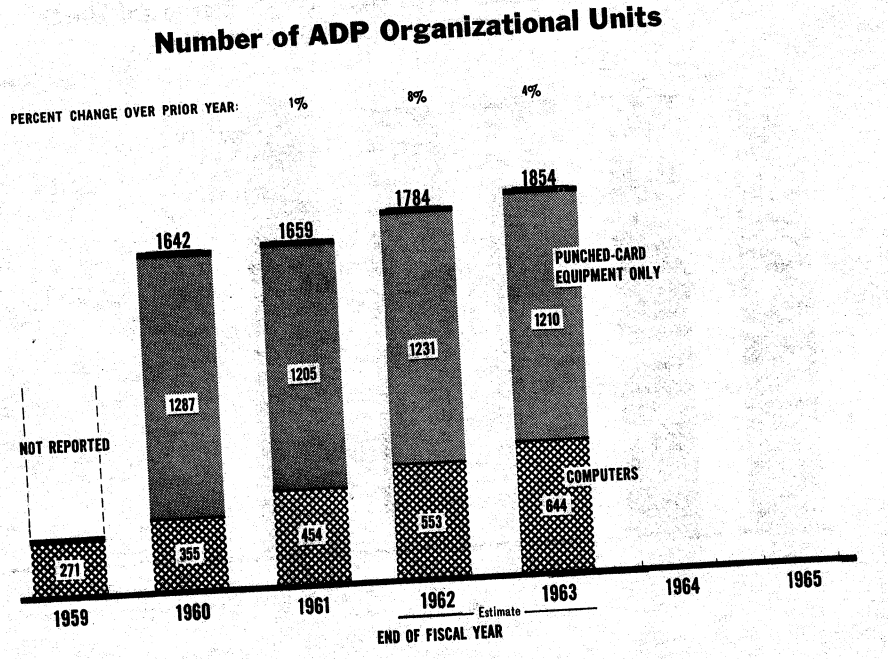

CHART NO. 3

TOTAL COSTS - ALL ADP UNITS

1. In FY 1962, the costs for all ADP units totaled $597 million and for FY 1963 are estimated to be $688 million. These costs include the salaries of personnel, equipment rentals, supplies, equipment purchase and maintenance, and site preparation. They also include the cost of ADP services procured by organizations not having ADP units of their own, either from Government or commercial sources.

2. The continuous increase in total ADP costs is accounted for by a corresponding growth in the number of computer units and the procurement of ADP contractual services; the costs of punched-card units appear to have leveled off and are estimated to be lower in FY 1963.

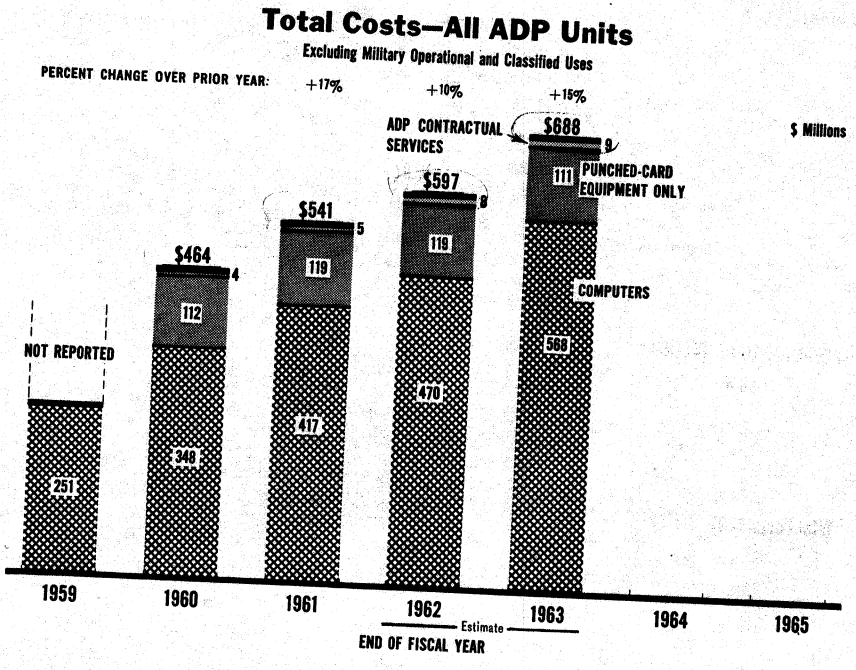

CHART NO. 4

DISTRIBUTION OF TOTAL ADP COSTS BY AGENCY

FY 1962

ADP costs for the Department of Defense in FY 1962 totaled $397 million, almost twice the costs of all other Government agencies combined ($200 million).

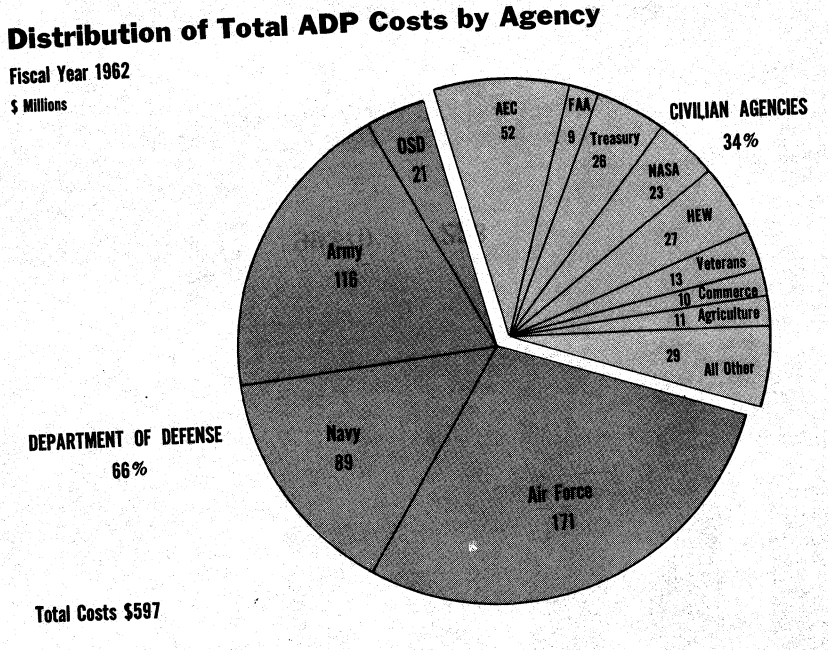

CHART NO. 5

MAN-YEARS UTILIZED IN ADP OPERATIONS

1. Personnel reported include: (a) supervisors of ADP units, (b) systems analysts and programmers, (c) equipment operators, and (d) supporting clerical personnel. Excluded are departmental staff personnel who are not connected with any specific ADP unit.

2. Note that while the number of computer units has increased from 271 in FY 1959 to an estimated 644 in FY 1963 (as portrayed on Chart No. 2) or 136 percent, the number of man-years for computer units has increased from 24,400 to 45,100 or only 85 percent. This is attributed to the advent of smaller computer units and more effective utilization of personnel.

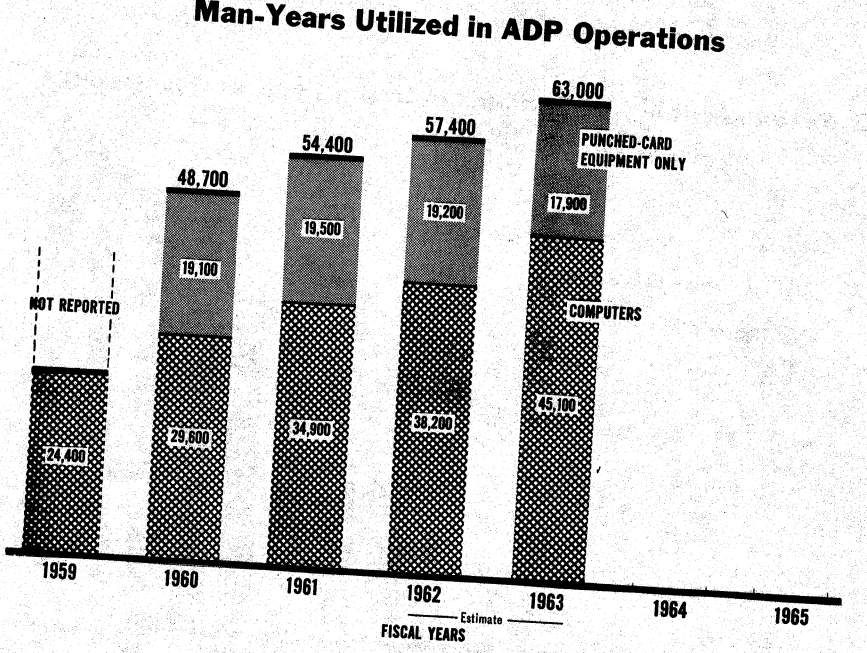

CHART NO. 6

GROWTH IN NUMBER OF COMPUTERS IN THE FEDERAL GOVERNMENT

1. The first computers installed in the Federal Government--still in use--were for scientific purposes. These were the EDVAC, installed in July 1949 at the Ballistics Research Laboratories in Aberdeen, Maryland, and the SEAC, built and installed at the National Bureau of Standards in 1950. The first computer installed for administrative or business-type purposes was the UNIVAC I--delivered to the Bureau of the Census in mid-1950.

2. During the early 1950's, uses of computers were concentrated primarily in the scientific area. Business-type uses came into prominence about 1956.

3. The projection of 1500 computers by FY 1966 reflects a slight leveling off from the sharp upward trend experienced during FY 1958 - 1962, but recognizes a sustained growth as units with punched-card equipment only convert to the use of electronic computers.

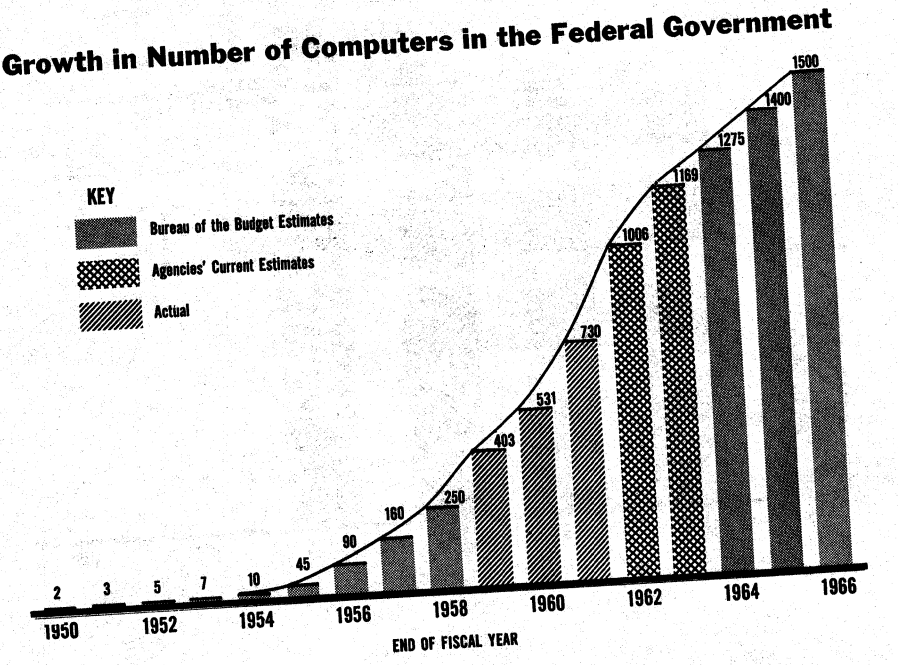

CHART NO. 7

NUMBER OF COMPUTERS BY CATEGORY OF USE
FY 1962

There are 1006 computers installed as of June 30, 1962. Of these, 786 are used for one category of work, broken down as follows:

274 for scientific work only
265 for administrative work only (i.e., payroll, accounting, personnel, etc.)
224 for program operations work only (i.e., major work programs of the agency such as Treasury's disbursing operations, Veterans Administration's benefit payments, military inventory control programs, etc.)
23 for classified and other uses.

Two hundred twenty computers are used for two or more categories of work.

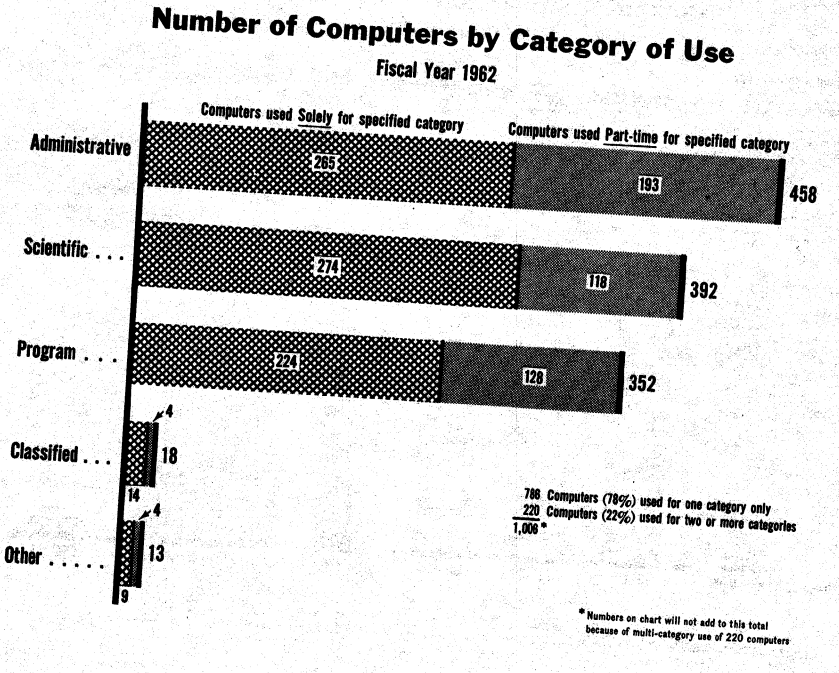

CHART NO. 8

COMPUTER UTILIZATION - HOURS PER MONTH

1. Seven hundred fifty-one (75 percent) of the 1006 computers installed at the end of FY 1962 were reported operating at least 176 hours per month--which is the equivalent of a normal 40-hour work week and is the number of hours for which a basic minimum monthly rental charge is made. Two hundred fifty-five (25 percent) were reported operating less than 176 hours per month.

2. Two hundred forty-four(24 percent) were reported operating at least 352 hours per month (the equivalent of a 2-shift day); 59 (6 percent) were reported operating at least 528 hours per month (3-shift day).

3. The average utilization for all computers reported was 267 hours per month.

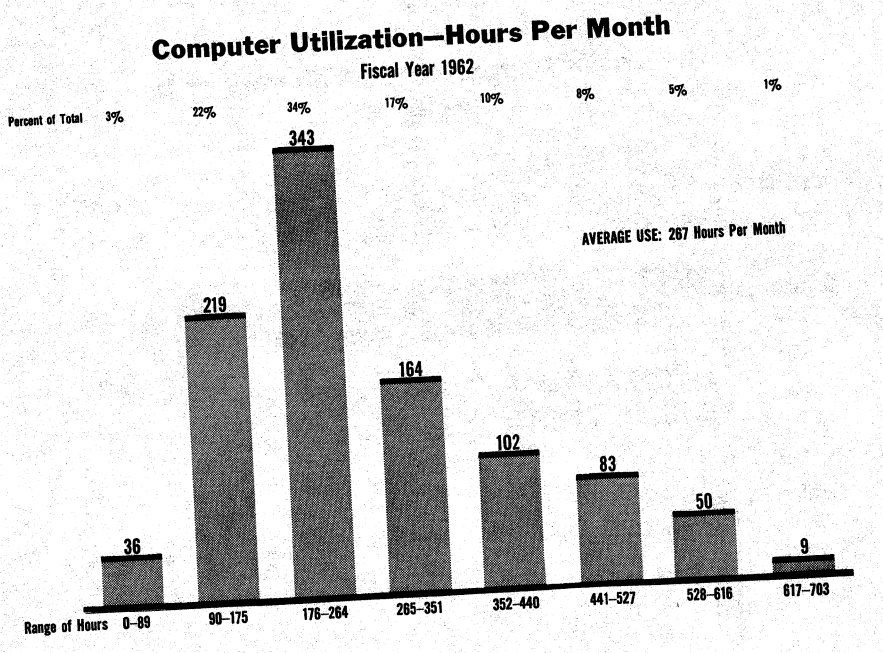

CHART NO. 9

NUMBER OF COMPUTERS PURCHASED AND LEASED

1. Although the number of purchased computers has increased in each of the fiscal years reported, the percentage which this number bears to the total number of computers has declined, except for a slight increase anticipated in FY 1963.

2. Bureau of the Budget Circular A-54 issued in October 1961 requires that careful consideration be given to all alternative acquisition methods as a basis for choosing the method which provides the greatest advantage to the Government. It may be expected that there will be a greater proportion of purchases in the future as an objective consideration of the alternatives is applied to each case.

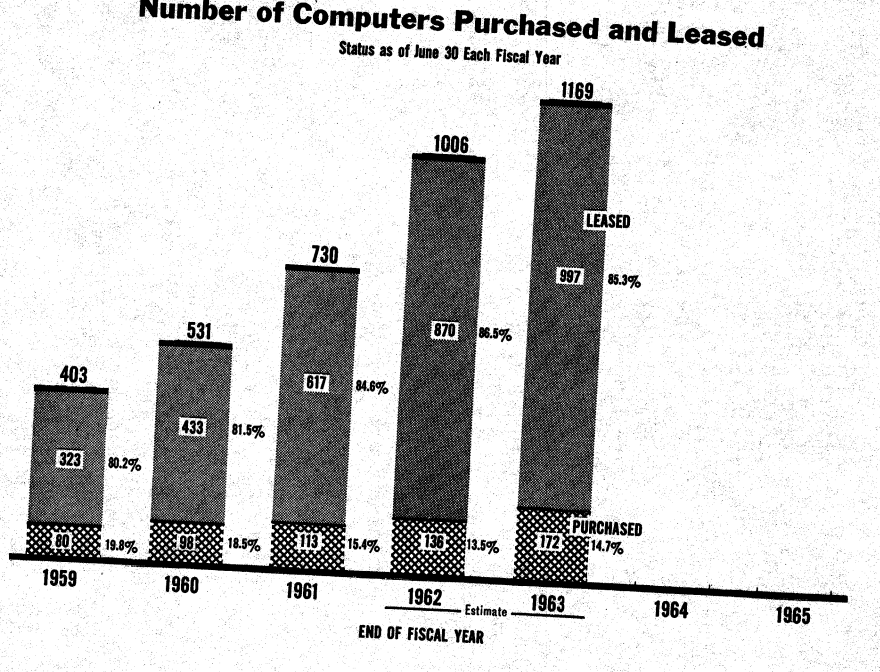

TABLE 1

SUMMARY OF ADP INSTALLATIONS IN THE FEDERAL GOVERNMENT
FISCAL YEARS 1961 - 1963

(Excludes Military Operational and Classified Uses in the Department of Defense)

DEPARTMENT	FISCAL YEAR	ADP UNITS WITH COMPUTERS						ADP UNITS WITH PUNCHED-CARD EQUIPMENT ONLY					ADP CONTRACTUAL SERVICES COSTS (THOUS)	GRAND TOTAL ALL COSTS (THOUS)
		NO. OF UNITS	NO. OF COMPUTERS	MAN-YEARS	COSTS (Thousands of Dollars)			NO. OF UNITS	MAN-YEARS	COSTS (Thousands of Dollars)				
					OPERATING	CAPITAL	TOTAL			OPERATING	CAPITAL	TOTAL		
TOTAL	61	454	730	34481	374246	42627	416873	1205	19548	118308	853	119161	4747	540781
TOTAL	62	553	1006	38210	435116	34865	469981	1231	19196	117539	874	118413	8434	596828
TOTAL	63	644	1169	45107	529367	38556	567923	1210	17941	110348	673	111021	9406	688350
AEC	61	54	77	1517	27866	20523	48389	43	236	2432	92	2524	914	51827
AEC	62	71	112	1825	33103	16064	49167	39	143	1436	87	1523	1428	52118
AEC	63	70	119	2001	38763	10958	49721	33	128	1198	93	1291	1336	52348
AGRI	61	8	8	858	7647	1940	9587	29	315	2481	21	2502	385	12474
AGRI	62	10	15	808	6945	464	7409	29	322	2497	21	2518	666	10593
AGRI	63	10	21	976	8052	442	8494	27	338	2623	12	2635	765	11894
AID	61	1	1	5	43	14	57	1	15	116		116		173
AID	62	1	1	15	109		109	1	8	78		78		187
AID	63	1	1	23	173		173	1	5	51		51		224
BOB	61												13	13
BOB	62												13	13
BOB	63												10	10
CAB	61	1	1	6	126	12	126	1	1	1		1		127
CAB	62	1	1	9	180		192	1	1	2		2		194
CAB	63	1	1	19	228		228	1	1	2		2		230
CIA	61	3	3	144	1947	11	1958	6	87	793		793		2751
CIA	62	3	4	140	1901	173	2074	6	98	877		877		2951
CIA	63	3	6	155	2162	21	2183	5	98	887		887		3070
COMM	61	14	23	831	7978	229	8207	24	187	1386	32	1418	52	9677
COMM	62	16	29	871	7624	1095	8719	24	174	920	25	945	147	9811
COMM	63	18	36	1005	11476	4407	15883	22	177	833	11	844	124	16851
CSC	61	1	1	12	124	12	124	1	37	293		293		417
CSC	62	2	2	56	525		537							537
CSC	63	1	1	64	529		529							529
CZGOV	61							3	24	172		172		172
CZGOV	62							3	27	195		195		195
CZGOV	63							3	29	218		218		218
DCGOV	61	1		50	338	2	338	10	73	426		426	40	804
DCGOV	62	1	1	50	360		362	10	73	426		426	66	854
DCGOV	63	1	1	49	377		377	12	83	506	2	508	95	980
TOTAL, DEPARTMENT OF DEFENSE (OSD, AIR FORCE, ARMY, AND NAVY)														
	61	289	465	24263	252665	15652	268317	695	15338	85769	525	86294	1762	356373
	62	346	626	26791	293389	12918	306307	717	15225	87132	550	87682	2735	396724
	63	425	750	31559	355622	14884	370506	707	14327	82302	433	82735	2569	455810
OSD	61	12	21	1028	13493	1795	15288	11	76	396	9	405	131	15824
OSD	62	13	27	1251	19044	1337	20381	13	86	488	10	498	301	21180
OSD	63	19	45	1853	29970	2632	32602	21	108	807	45	852	230	33684
AF	61	114	202	10503	114486	1917	116403	306	6548	37624	100	37724	1166	155293
AF	62	135	263	11548	128711	3012	131723	308	6223	37090	63	37153	1806	170682
AF	63	170	316	13643	152962	3126	156088	297	5360	32309	106	32415	1634	190137
ARMY	61	91	122	6044	60295	6415	66710	241	6638	35607	364	35971	439	103120
ARMY	62	108	158	6975	72160	5464	77624	254	6746	36929	462	37391	579	115594
ARMY	63	138	190	8872	91611	7401	99012	246	6710	36728	247	36975	660	136647
NAVY	61	72	120	6688	64391	5525	69916	137	2076	12142	52	12194	26	82136
NAVY	62	90	178	7017	73474	3105	76579	142	2170	12625	15	12640	49	89268
NAVY	63	98	199	7191	81079	1725	82804	143	2149	12458	35	12493	45	95342
EXIMB	62												21	21
EXIMB	63												30	30
FAA	61	11	14	195	6534	11	6545	28	59	651	6	657	130	7332
FAA	62	11	15	240	7292	79	7371	32	74	1158	22	1180	161	8712
FAA	63	10	15	289	8229	160	8389	35	127	1435	30	1465	35	9889

Table 1 – Continued

DEPARTMENT	FISCAL YEAR	ADP UNITS WITH COMPUTERS						ADP UNITS WITH PUNCHED-CARD EQUIPMENT ONLY					ADP CONTRACTUAL SERVICES COSTS (THOUS)	GRAND TOTAL ALL COSTS (THOUS)
		NO. OF UNITS	NO. OF COMPUTERS	MAN-YEARS	COSTS (Thousands of Dollars)			NO. OF UNITS	MAN-YEARS	COSTS (Thousands of Dollars)				
					OPERATING	CAPITAL	TOTAL			OPERATING	CAPITAL	TOTAL		
FCC	61							1	12	95		95	52	147
FCC	62							1	13	98		98	19	117
FCC	63	1	1	31	291	1020	1311	1	10	75		75	46	1432
FDIC	61							1	10	89		89	17	106
FDIC	62							1	11	103		103	34	137
FDIC	63							1	11	106		106	40	146
FHLBB	61							3	3	28	5	33	48	81
FHLBB	62							6	4	39	4	43	67	110
FHLBB	63							6	10	70	4	74	107	181
FPC	61													
FPC	62													
FPC	63	1	1	1 22	17 296	18	17 314	1 1	12 13	81 95		81 95	34	81 146 314
FRS	61	1	1	9	214		214							214
FRS	62	1	1	10	262		262							262
FRS	63	1	1	10	244		244							244
FTC	61													
FTC	62													
FTC	63							1	7	70		70		70
								1	8	88		88		88
								1	10	109		109		109
GSA	61	6	6	188	2055	275	2330	4	70	649	4	653		2983
GSA	62	10	10	331	3441	163	3604							3604
GSA	63	10	10	437	4799	59	4858							4858
HEW	61	4	12	2133	18024	751	18775	22	495	3038	5	3043	603	22421
HEW	62	9	28	2523	22548	121	22669	27	458	2858	3	2861	1923	27453
HEW	63	11	31	2764	24996	46	25042	29	329	2002	1	2003	1373	28418
HHFA	61	1	1	120	883	100	983	6	56	379		379		1362
HHFA	62	1	2	127	1117		1117	6	55	423		423		1540
HHFA	63	1	2	138	1276		1276	6	60	465		465		1741
INT	61	7	7	122	1380	15	1395	12	98	765	22	787	277	2459
INT	62	8	8	138	1520	536	2056	12	102	984	14	998	355	3409
INT	63	9	9	162	1756	29	1785	12	114	1021	1	1022	318	3125
ICC	61	1	1	27	210		210	2	27	153		153	1	364
ICC	62	1	1	30	229		229	2	26	148		148	2	379
ICC	63	1	1	40	288	5	293	1	17	95		95	20	408
JUST	61	2	4	56	740	2	742	4	46	295		295		1037
JUST	62	2	3	59	761		761	4	47	311		311		1072
JUST	63	2	3	59	761		761	4	48	324		324		1085
LABOR	61	1	1	142	948	23	971	1	9	35		35	27	1033
LABOR	62	1	2	173	1246		1246	2	16	96	2	98	61	1405
LABOR	63	1	2	170	1376	25	1401	2	16	149		149	50	1600
NASA	61	19	61	381	15120	2473	17593	7	34	217	51	268	5	17866
NASA	62	24	83	506	20579	1929	22508	7	33	233		233	15	22756
NASA	63	25	90	685	28426	1512	29938	7	34	243		243	1953	32134
NLRB	61							1	9	53		53		53
NLRB	62							1	11	82		82		82
NLRB	63							1	14	96		96		96
NSF	61							1	1	8		8	292	300
NSF	62							2	2	15	2	17	420	437
NSF	63							2	6	45	5	50	262	312
OEP	61	1	1	76	1531	247	1778	1	11	82		82		1860
OEP	62	1	1	83	1368	25	1393	1	11	90	5	95		1488
OEP	63	1	1	100	1668	220	1888	1	13	98	1	99		1987
PEACE	61												12	12
PEACE	62												103	103
PEACE	63												112	112
PO	61	11	13	510	4990			6	308	2136		2136		7126
PO	62	11	13	502	5009		4990	6	304	2151		2151		7160
PO	63	11	13	503	5056		5009 5056	6	292	2089		2089		7145
RRB	61	1	2	128	1143	3	1146	3	15	149		149		1295
RRB	62	1	2	90	1057	1	1058	3	13	135		135		1193
RRB	63	1	2	84	1175		1175	3	13	133		133		1308

Table 1 – Continued

DEPARTMENT	FISCAL YEAR	ADP UNITS WITH COMPUTERS						ADP UNITS WITH PUNCHED-CARD EQUIPMENT ONLY					ADP CONTRACTUAL SERVICES COSTS (THOUS)	GRAND TOTAL ALL COSTS (THOUS)
		NO. OF UNITS	NO. OF COMPUTERS	MAN-YEARS	COSTS (Thousands of Dollars)			NO. OF UNITS	MAN-YEARS	COSTS (Thousands of Dollars)				
					OPERATING	CAPITAL	TOTAL			OPERATING	CAPITAL	TOTAL		
SBA	61	1	1	19	188	11	199							199
SBA	62	1	1	21	255		255							255
SBA	63	1	1	29	293		293							293
								1	7	61		61		61
								1	8	75		75		75
								1	8	72		72		72
SEC	61													
SEC	62													
SEC	63													
								3	55	458	27	485		485
								3	61	528	15	543		584
								2	23	193	5	198		644
STATE	61			5	41		41							
STATE	62			41	418	28	446							
STATE	63	1	1											
								62	776	6676	1	6677	88	22719
								62	736	6247	40	6287	98	25945
								61	576	5583	50	5633	89	31270
TREAS	61	9	17	2239	15644	310	15954							
TREAS	62	13	34	2389	18660	900	19560							
TREAS	63	16	36	3050	23321	2227	25548							
								4	10	73		73		1071
								4	7	55		55		1409
								3	5	45		45		1449
TVA	61	2	2	70	987	11	998							
TVA	62	2	2	79	1141	213	1354							
TVA	63	2	2	94	1266	138	1404							
								1	10	94	21	115	29	144
								1	12	125	15	140	66	206
								1	15	149	4	153	72	225
USIA	61													
USIA	62													
USIA	63													
								216	1095	8104	41	8145		13092
								215	1100	7839	69	7908		12503
								213	1004	7131	21	7152		15559
VA	61	4	7	380	4921	26	4947							
VA	62	5	9	338	4437	158	4595							
VA	63	8	11	548	6050	2357	8407							

TABLE 2

INVENTORY OF COMPUTERS - BY DEPARTMENT

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
AEC	HEADQUARTERS	1	GERMANTOWN MD			NOT DET	P	A	130
AEC	BROOKHAVEN O	2	NEW YORK		IBM 7090		L	S	176
AEC	BROOKHAVEN O	2	NEW YORK			IBM 7094	L	S	176
AEC	BROOKHAVEN O	2	NEW YORK		IBM 1401	IBM 1401	L	S	352
AEC	BROOKHAVEN O	2	NEW YORK		IBM 1401	IBM 1401	L	S	352
AEC	BROOKHAVEN O	3	NEW YORK	MERLIN	MERLIN	MERLIN	P	S	176
AEC	BROOKHAVEN O	4	NEW YORK	ROY LG30	ROY LG30	ROY LG30	P	S	352
AEC	BROOKHAVEN O	4	NEW YORK	ROY LG30	ROY LG30	ROY LG30	L	S	352
AEC	BROOKHAVEN O	5	NEW YORK	ROY LG30	ROY LG30	ROY LG30	P	S	176
AEC	PITTSBRG NRO	6	NEW YORK		REM SS90	REM SS90	L	A	176
AEC	PITTSBRG NRO	7	PITTSBURGH	IBM 305	IBM 305	IBM 305	L	A	176
AEC	SCHENECTADY NRO	8	PITTSBURGH	PHI 2000	PHI 2000	PHI 2000	L	S	350
AEC	SCHENECTADY NRO	9	SCHENECTADY	IBM 650	IBM 650		L	S	500
AEC	SCHENECTADY NRO	10	SCHENECTADY	PHI 2000	PHI 2000		L	A	85
AEC	SAVANNAH RIVER	11	SCHENECTADY		IBM 1620	PHI 2000	L	AS	600
AEC	SAVANNAH RIVER	12	AUGUSTA	IBM 650	IBM 650	IBM 1620	L	S	115
AEC	SAVANNAH RIVER	12	AUGUSTA		IBM 1401		L	A	352
AEC	SAVANNAH RIVER	12	AUGUSTA			IBM 1401	P	A	352
AEC	SAVANNAH RIVER	13	AUGUSTA	IBM 1620	IBM 1620	IBM 1401	L	A	352
AEC	SAVANNAH RIVER	14	AUGUSTA	IBM 650		IBM 1620	L	S	176
AEC	IDAHO OO	15	SCOVILLE IDAHO		IBM 704	IBM 704	L	S	264
AEC	IDAHO OO	16	SCOVILLE IDAHO	IBM 1620	IBM 1620	IBM 1620	L	S	176
AEC	IDAHO OO	17	IDAHO FALLS	IBM 650	IBM 650	IBM 650	L	APS	130
AEC	HANFORD OO	18	RICHLAND WASH		IBM 1401	IBM 1401	L	S	296
AEC	HANFORD OO	18	RICHLAND WASH	IBM 7090	IBM 7090	IBM 7090	L	A	155
AEC	HANFORD OO	18	RICHLAND WASH	IBM 1401	IBM 1401	IBM 1401	P	APS	235
AEC	OAK RIDGE OO	19	CINCINNATI	IBM 1401	IBM 1401	IBM 1401	L	APS	290
AEC	OAK RIDGE OO	19	CINCINNATI	ROY LG30	ROY LG30		L	APS	290
AEC	OAK RIDGE OO	19	CINCINNATI			ROY 4000	L	A	320
AEC	OAK RIDGE OO	20	PORTSMOUTH O	IBM 650	IBM 1401	IBM 1401	P	A	110
AEC	OAK RIDGE OO	20	PORTSMOUTH O				P	A	170
AEC	OAK RIDGE OO	21	KNOXVILLE		IBM 1410	IBM 1410	L	PS	169
AEC	OAK RIDGE OO	21	KNOXVILLE	IBM 7090	IBM 7090	IBM 7090	P	APS	200
AEC	OAK RIDGE OO	21	KNOXVILLE	IBM 1401	IBM 1401	IBM 1401	P	AS	530
AEC	OAK RIDGE OO	21	KNOXVILLE		CDC 160A		P	AS	510
AEC	OAK RIDGE OO	21	KNOXVILLE			IBM 1401	L	AS	250
AEC	OAK RIDGE OO	22	KNOXVILLE			IBM 1401	P	AS	510
AEC	OAK RIDGE OO	22	KNOXVILLE	ORACLE	ORACLE		P	AS	510
AEC	OAK RIDGE OO	23	KNOXVILLE			CDC 1604	P	S	352
AEC	OAK RIDGE OO	24	PADUCAH KY	IBM 1401	IBM 1401		L	S	176
AEC	OAK RIDGE OO	25	KNOXVILLE	IBM 305	IBM 305		P	A	485
AEC	SAN FRAN OO	26	ST LOUIS		IBM 1401	IBM 1401	L	A	115
AEC	SAN FRAN OO	27	SAN FRANCISCO	IBM 1401	IBM 1401	IBM 1401	L	A	250
AEC	SAN FRAN OO	27	SAN FRANCISCO	IBM 650	IBM 650	IBM 650	P	AS	86
AEC	SAN FRAN OO	27	SAN FRANCISCO	IBM 709	IBM 709	IBM 709	P	S	616
AEC	SAN FRAN OO	27	SAN FRANCISCO		IBM 1401	IBM 1401	L	S	600
AEC	SAN FRAN OO	27	SAN FRANCISCO			IBM 1401	L	S	620
AEC	SAN FRAN OO	27	SAN FRANCISCO			IBM 1401	L	S	620
AEC	SAN FRAN OO	27	SAN FRANCISCO		IBM 7090		L	S	620
AEC	SAN FRAN OO	27	SAN FRANCISCO			IBM 7094	L	S	616
AEC	SAN FRAN OO	28	SAN FRANCISCO			IBM 7094	L	S	616
AEC	SAN FRAN OO	29	SAN FRANCISCO		IBM 1401	IBM 1401	L	AS	650
AEC	SAN FRAN OO	29	SAN FRANCISCO	IBM 650	IBM 650	IBM 650	P	S	440
AEC	SAN FRAN OO	29	SAN FRANCISCO	IBM 709			L	S	616
AEC	SAN FRAN OO	29	SAN FRANCISCO	IBM 1401	IBM 1401	IBM 1401	P	AS	616
AEC	SAN FRAN OO	29	SAN FRANCISCO		IBM 1410	IBM 1410	P	S	600
AEC	SAN FRAN OO	29	SAN FRANCISCO	IBM 7090	IBM 7090		P	S	651
AEC	SAN FRAN OO	29	SAN FRANCISCO	IBM 7090	IBM 7090	IBM 7094	P	S	651
AEC	SAN FRAN OO	29	SAN FRANCISCO			IBM 7094	P	S	667
AEC	SAN FRAN OO	29	SAN FRANCISCO		IBM 7090		L	S	667
AEC	SAN FRAN OO	29	SAN FRANCISCO			DEC PDP1	P	S	650
AEC	SAN FRAN OO	30	SAN DIEGO	REM LARC	IBM 7030	IBM 7030	P	S	350
AEC	SAN FRAN OO	30	SAN DIEGO	CDC 1604	REM LARC	REM LARC	P	S	650
AEC	SAN FRAN OO	30	SAN DIEGO	CDC 160	CDC 1604	CDC 1604	P	S	650
AEC	SAN FRAN OO	30	SAN DIEGO				P	S	171
AEC	CHICAGO OO	31	CHICAGO		CDC 160A	CDC 160A	P	S	250
AEC	CHICAGO OO	32	CHICAGO			CDC 160A	P	S	250
AEC	CHICAGO OO	33	CHICAGO	IBM 1620	IBM 1620	IBM 1620	L	S	176
AEC	CHICAGO OO	34	CHICAGO		IBM 1620	IBM 1620	L	S	100
AEC	CHICAGO OO	34	CHICAGO	ROY LG30	ROY LG30	IBM 1620	L	S	400
AEC	CHICAGO OO	34	CHICAGO			ROY LG30	P	S	170
AEC	CHICAGO OO	35	CHICAGO			NOT DET	P	S	164
AEC	CHICAGO OO	36	CHICAGO	NAA REC2	NAA REC2	NOT DET	P	S	200
AEC	CHICAGO OO	36	CHICAGO	IBM 704	IBM 704	NAA REC2	P	S	173
AEC	CHICAGO OO	36	CHICAGO	IBM 1401	IBM 1401	IBM 704	P	S	150
AEC	CHICAGO OO	36	CHICAGO	GEORGE	GEORGE	IBM 1401	P	S	456
AEC	CHICAGO OO	37	CHICAGO		ASI 210	GEORGE	P	S	257
AEC	CHICAGO OO	37	CHICAGO	IBM 650		ASI 210	P	S	315
AEC	NEVADA OO	38	GOLETA CAL		IBM 1401	IBM 1401	L	AS	100
AEC	NEVADA OO	39	LAS VEGAS		NAA REC2	NAA REC2	P	AS	211
AEC	NEVADA OO	39	LAS VEGAS		IBM 1620	IBM 1620	L	S	176
AEC	NEW YORK OO	40	NEW YORK	IBM 704		IBM 1401	L	AS	200
AEC	NEW YORK OO	40	NEW YORK		IBM 7090		L	S	220
AEC	NEW YORK OO	40	NEW YORK				L	S	176
AEC	NEW YORK OO	40	NEW YORK			IBM 7094	L	S	600
AEC	NEW YORK OO	41	NEW YORK		IBM 1401	IBM 1401	L	S	300
AEC	NEW YORK OO	42	MIDDLETOWN CON	IBM 1620	IBM 1620	IBM 1620	L	S	350
AEC	ALBUQUERQUE OO	43	MIDDLETOWN CON	IBM 305	IBM 305	IBM 305	L	S	300
AEC	ALBUQUERQUE OO	44	LAS VEGAS	BEN G15	BEN G15	BEN G15	L	A	140
AEC	ALBUQUERQUE OO	44	LAS VEGAS	IBM 305			L	S	250
AEC	ALBUQUERQUE OO	45	ST PETERSBURG		IBM 1401	IBM 1401	L	AS	176
AEC	ALBUQUERQUE OO	46	ALBUQUERQUE		IBM 1401	IBM 1401	L	PS	120
AEC	ALBUQUERQUE OO	47	ALBUQUERQUE	ROY LG30	ROY LG30	ROY LG30	P	AP	300
AEC	ALBUQUERQUE OO	48	ALBUQUERQUE	IBM 1620	IBM 1620	IBM 1620	L	S	140
AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	NCR 102	NCR 102	NCR 102	P	S	150
AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	IBM 705			L	S	150
AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	IBM 7090	IBM 7090	IBM 7090	L	AS	120
AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	IBM 1401	IBM 1401	IBM 1401	L	AS	350
AEC	ALBUQUERQUE OO	50	ALBUQUERQUE	IBM 1401	IBM 1401	IBM 1401	L	AS	300
AEC	ALBUQUERQUE OO	50	ALBUQUERQUE		IBM 1401	IBM 1401	L	AS	300
AEC	ALBUQUERQUE OO	51	ALBUQUERQUE	ROY LG30	ROY LG30	IBM 1401	L	A	300
						ROY LG30	P	S	140
									140
									100

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
AEC	ALBUQUERQUE OO	52	ALBUQUERQUE	CDC 160	CDC 160	CDC 160	L	S	176
AEC	ALBUQUERQUE OO	53	KAVAI ISLAND		PAB 250		L	S	170
AEC	ALBUQUERQUE OO	53	JOHNSON ISLAND		PAB 250	PAB 250	L	S	170
AEC	ALBUQUERQUE OO	54	ALBUQUERQUE	IBM 704			L	AS	350
AEC	ALBUQUERQUE OO	54	ALBUQUERQUE		CDC 1604	CDC 1604	L	AS	350
AEC	ALBUQUERQUE OO	54	ALBUQUERQUE		CDC 160	CDC 160	L	AS	350
AEC	ALBUQUERQUE OO	54	ALBUQUERQUE		IBM 1401		L	AS	160
AEC	ALBUQUERQUE OO	55	SAN FRANCISCO			IBM 1401	L	AS	160
AEC	ALBUQUERQUE OO	55	SAN FRANCISCO	IBM 1620			L	S	160
AEC	ALBUQUERQUE OO	56	SAN FRANCISCO		IBM 1620	IBM 1620	L	S	200
AEC	ALBUQUERQUE OO	56	SAN FRANCISCO		IBM 1401	IBM 1401	L	A	100
AEC	ALBUQUERQUE OO	57	SAN FRANCISCO	REM SS90	REM SS90		L	AP	200
AEC	ALBUQUERQUE OO	58	BURLINGTON IA			REM SS80	L	AP	200
AEC	ALBUQUERQUE OO	58	BURLINGTON IA	IBM 650			L	AS	210
AEC	ALBUQUERQUE OO	59	AMARILLO		IBM 1620	IBM 1620	L	AS	110
AEC	ALBUQUERQUE OO	59	AMARILLO		IBM 1401	IBM 1401	L	AS	90
AEC	ALBUQUERQUE OO	59	AMARILLO	IBM 1401	IBM 1401	IBM 1401	L	A	140
AEC	ALBUQUERQUE OO	60	DENVER	BEN G15	BEN G15	BEN G15	L	S	340
AEC	ALBUQUERQUE OO	61	DENVER		BEN G15	BEN G15	L	S	700
AEC	ALBUQUERQUE OO	62	DENVER		BEN G15	BEN G15	P	S	360
AEC	ALBUQUERQUE OO	63	DENVER		IBM 1620	IBM 1620	P	S	165
AEC	ALBUQUERQUE OO	64	DAYTON OHIO			IBM 1401	L	ACS	160
AEC	ALBUQUERQUE OO	64	DAYTON OHIO				L	AS	199
AEC	ALBUQUERQUE OO	65	KANSAS CITY	IBM 650	IBM 650		L	S	254
AEC	ALBUQUERQUE OO	65	KANSAS CITY	BEN G15	BEN G15		L	S	75
AEC	ALBUQUERQUE OO	65	KANSAS CITY			BEN G20	L	S	278
AEC	ALBUQUERQUE OO	65	KANSAS CITY		IBM 1401	IBM 1401	L	A	401
AEC	ALBUQUERQUE OO	65	KANSAS CITY	IBM 650	IBM 650		L	AS	176
AEC	ALBUQUERQUE OO	65	KANSAS CITY			IBM 1410	L	A	300
AEC	ALBUQUERQUE OO	65	KANSAS CITY		IBM 305	IBM 305	L	A	150
AEC	ALBUQUERQUE OO	66	ALBUQUERQUE	IBM 305	IBM 1620	IBM 1620	L	A	150
AEC	ALBUQUERQUE OO	66	ALBUQUERQUE		IBM 1620	IBM 1620	L	S	250
AEC	ALBUQUERQUE OO	67	ALBUQUERQUE	IBM 1620	BEN G15	BEN G15	L	S	350
AEC	ALBUQUERQUE OO	68	ALBUQUERQUE	BEN G15			P	S	400
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	IBM 704	IBM 704	IBM 704	P	S	100
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	IBM 704			L	S	260
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	IBM 650	IBM 1401	IBM 1401	L	S	260
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	IBM 1401	IBM 1401	IBM 1401	L	S	260
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	IBM 1401	IBM 1401	IBM 1401	L	S	260
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM		IBM 1620	IBM 1620	L	S	176
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM		IBM 7090	IBM 7090	P	S	400
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	IBM 7090	IBM 7090	IBM 7090	P	S	400
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	IBM 7030	IBM 7030	IBM 7030	P	S	300
AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	MANIAC	MANIAC	MANIAC	P	S	350
AEC	ALBUQUERQUE OO	70	LOS ALAMOS NM	IBM 1401	IBM 1401	IBM 1401	L	A	175
AEC	ALBUQUERQUE OO	71	LOS ALAMOS NM		IBM 1401	IBM 1401	L	A	100
AEC	ALBUQUERQUE OO	72	LOS ALAMOS NM	IBM 1401	IBM 1401	IBM 1401	L	A	115
AEC	LOS ALAMOS AO	73	LOS ALAMOS NM						
AGRI	AGRI ECONOMICS	1	WASHINGTON	IBM 650	IBM 650	IBM 650	L	P	400
AGRI	AGRI ECONOMICS	1	WASHINGTON			IBM 1401	L	P	176
AGRI	AGRI ECONOMICS	1	WASHINGTON			IBM 7072	L	P	176
AGRI	RESEARCH SERV	2	WASHINGTON		IBM 1401	IBM 1401	L	AP	179
AGRI	RESEARCH SERV	2	WASHINGTON		IBM 1620	IBM 1620	L	P	153
AGRI	STAB AND CONS	3	NEW ORLEANS	IBM 705	IBM 705	IBM 705	P	AP	250
AGRI	STAB AND CONS	3	NEW ORLEANS		IBM 1401	IBM 1401	P	AP	200
AGRI	STAB AND CONS	3	NEW ORLEANS		IBM 1401	IBM 1401	L	AP	150
AGRI	STAB AND CONS	4	DALLAS	IBM 7070	IBM 7070	IBM 7070	L	P	176
AGRI	STAB AND CONS	4	DALLAS		IBM 1401	IBM 1401	L	P	176
AGRI	STAB AND CONS	5	CHICAGO	IBM 650	IBM 650	IBM 650	L	AP	599
AGRI	STAB AND CONS	5	CHICAGO		IBM 1401	IBM 1401	L	P	347
AGRI	STAB AND CONS	6	KANSAS CITY			IBM 7074	L	P	176
AGRI	STAB AND CONS	6	KANSAS CITY			IBM 1401	L	P	176
AGRI	STAB AND CONS	6	KANSAS CITY			IBM 1401	L	P	176
AGRI	STAB AND CONS	6	KANSAS CITY		REM UII	REM UII	L	P	340
AGRI	STAB AND CONS	6	KANSAS CITY			REM UII	L	P	340
AGRI	STAB AND CONS	7	KANSAS CITY	REM UII			L	P	368
AGRI	STAB AND CONS	8	PORTLAND ORE	IBM 650	IBM 650	IBM 650	L	APS	424
AGRI	FOREST SERVICE	9	SAN FRANCISCO	IBM 650	IBM 650	IBM 650	L	AS	260
AGRI	FOREST SERVICE	10	MISSOULA MONT	IBM 650	IBM 650	IBM 650	L	APS	184
AGRI	FOREST SERVICE	11	MADISON WIS		IBM 1620	IBM 1620	L	PS	158
AID	ADMINISTRATION	1	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	A	199
CAB	CARRIER ACCOUNT	1	WASHINGTON	ROY LG30			L	P	140
CAB	CARRIER ACCOUNT	1	WASHINGTON		IBM 1401	IBM 1401	L	P	105
CIA	CIA	1	WASHINGTON	ELT ALW3	ELT ALW3	ELT ALW3	P	C	150
CIA	CIA	1	WASHINGTON			IBM 1401	R	C	140
CIA	CIA	2	WASHINGTON	IBM 650			L	P	200
CIA	CIA	2	WASHINGTON		IBM 1401	IBM 1401	L	P	200
CIA	CIA	2	WASHINGTON		IBM 1410	IBM 1410	L	P	200
CIA	CIA	3	WASHINGTON	RCA 501	RCA 501	RCA 501	L	A	200
CIA	CIA	3	WASHINGTON			IBM 1401	L	A	200
COMM	CENSUS	1	WASHINGTON	REM 1105	REM 1105	REM 1105	P	P	550
COMM	CENSUS	1	WASHINGTON	REM 1105	REM 1105	REM 1105	P	P	550
COMM	CENSUS	1	WASHINGTON		IBM 1401	IBM 1401	L	P	420
COMM	CENSUS	1	WASHINGTON			REM 1107	P	P	550
COMM	CENSUS	1	WASHINGTON	REM UI	REM UI		L	P	500
COMM	CENSUS	1	WASHINGTON	REM UI	REM UI	REM UI	L	P	500
COMM	CENSUS	1	WASHINGTON	IBM 650			L	P	434
COMM	CENSUS	2	PARSONS KANSAS	IBM 650	IBM 650	IBM 650	P	AS	280
COMM	CENSUS	3	WASHINGTON			IBM 1620	P	S	200
COMM	COAST AND GEO	3	WASHINGTON		IBM 1401	IBM 1401	L	P	165
COMM	COAST AND GEO	4	WASHINGTON		IBM 305		L	X	90
COMM	MARITIME ADM	5	WASHINGTON	IBM 305		NOT DET	L	X	170
COMM	PATENT OFFICE	5	WASHINGTON			NOT DET	L	A	170
COMM	PATENT OFFICE	6	WASHINGTON				L	AP	150
COMM	PATENT OFFICE	7	WASHINGTON	IBM 650			L	AP	285
COMM	PUBLIC ROADS	7	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	AS	180
COMM	PUBLIC ROADS	8	VANCOUVER	IBM 650			L	AS	60
COMM	PUBLIC ROADS	8	VANCOUVER		IBM 1401	IBM 1401	P	AS	

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
COMM	PUBLIC ROADS	9	DENVER		IBM 1620	IBM 1620	L	AS	100
COMM	NAT BUR STAND	10	WASHINGTON	PILOT	PILOT	PILOT	P	P	
COMM	NAT BUR STAND	10	WASHINGTON	SEAC	SEAC	SEAC	P	P	
COMM	NAT BUR STAND	10	WASHINGTON	ANALOG	ANALOG	ANALOG	P	S	60
COMM	NAT BUR STAND	11	WASHINGTON	IBM 704			P	S	20
COMM	NAT BUR STAND	11	WASHINGTON		IBM 7090	IBM 7090	L	PS	428
COMM	NAT BUR STAND	11	WASHINGTON		IBM 1401	IBM 1401	L	PS	200
COMM	NAT BUR STAND	11	WASHINGTON	ROY 4000			L	P	295
COMM	NAT BUR STAND	11	WASHINGTON				L	PS	25
COMM	NAT BUR STAND	12	DENVER			IBM 7094	L	PS	176
COMM	NAT BUR STAND	12	DENVER	CDC 160	CDC 160	CDC 160	L	S	77
COMM	NAT BUR STAND	12	DENVER	CDC 1604	CDC 1604	CDC 1604	L	S	171
COMM	NAT BUR STAND	12	DENVER		IBM 1401	IBM 1401	L	S	176
COMM	WEATHER BUREAU	13	WASHINGTON			IBM 7090	L	S	176
COMM	WEATHER BUREAU	13	WASHINGTON	BEN G15			L	S	176
COMM	WEATHER BUREAU	14	WASHINGTON		IBM 1620	IBM 1620	L	S	176
COMM	WEATHER BUREAU	14	WASHINGTON	IBM 1620	IBM 1620	IBM 1620	L	S	200
COMM	WEATHER BUREAU	14	WASHINGTON		IBM 1401	IBM 1401	L	S	176
COMM	WEATHER BUREAU	15	WASHINGTON		IBM 7030	IBM 7030	L	S	176
COMM	WEATHER BUREAU	15	WASHINGTON	IBM 7090	IBM 7090		L	P	480
COMM	WEATHER BUREAU	15	WASHINGTON			IBM 7094	L	P	480
COMM	WEATHER BUREAU	15	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	P	P	300
COMM	WEATHER BUREAU	16	WASHINGTON		IBM 1401	IBM 1401	P	P	225
COMM	WEATHER BUREAU	16	WASHINGTON			IBM 7094	L	PS	200
COMM	WEATHER BUREAU	16	WASHINGTON			IBM 1401	L	PS	180
COMM	WEATHER BUREAU	17	ASHEVILLE NC	IBM 650		CDC 160A	L	PS	180
COMM	WEATHER BUREAU	17	ASHEVILLE NC				L	PS	300
COMM	WEATHER BUREAU	18	FT WORTH		HON 800	HON 800	L	PS	176
COMM	WEATHER BUREAU	19	MIAMI		IBM 1620	IBM 1620	L	PS	160
COMM	WEATHER BUREAU	19	MIAMI	IBM 650			L	PS	170
					GEL 225	GEL 225	L	PS	190
CSC	RET AND INS	1	WASHINGTON						
CSC	MGMT SERV	2	WASHINGTON	BEN G15	BEN G15		L	P	575
					IBM 1401	IBM 1401	L	AP	176
DCGOV	GENERAL ADMIN	1	WASHINGTON						
					IBM 1401	IBM 1401	L	AP	156
DEPARTMENT OF DEFENSE									
OSD	WEAP SYS EV GP	1	WASHINGTON						
OSD	OASD ISA	2	WASHINGTON	CDC 1604	CDC 1604	CDC 1604	P	S	540
OSD	DASA	3	WASHINGTON			NOT DET	L	A	200
OSD	DASA	4	HAGERSTOWN	ROY LG30			L	S	100
OSD	DASA	4	HAGERSTOWN	ROY LG30	ROY LG30		L	C	5
OSD	DASA	5	ALBUQUERQUE	ROY LG30	ROY LG30		L	C	5
OSD	DASA	5	ALBUQUERQUE	IBM 305	IBM 305		L	A	270
OSD	DASA	6	WASHINGTON		IBM 1401	IBM 1401	L	P	130
OSD	DASA	6	WASHINGTON		CDC 1604	CDC 1604	L	P	235
OSD	DASA	6	WASHINGTON		CDC 160	CDC 160	L	P	235
OSD	DASA	6	WASHINGTON		CDC 160	CDC 160	L	P	235
OSD	DASA	6	HAGERSTOWN			IBM 1401	L	P	235
OSD	DASA	6	HAGERSTOWN		IBM 1401	IBM 1401	L	P	176
OSD	DEF COMM AGENCY	7	WASHINGTON	PHI 2000	PHI 2000	CDC 1604	L	P	176
OSD	DEF COMM AGENCY	8	COLORADO SPR			PHI 2000	L	P	572
OSD	DEF COMM AGENCY	9	FRANCE			IBM 1410	L	P	374
OSD	DEF COMM AGENCY	10	HONOLULU			IBM 1410	P	P	374
OSD	DEF COMM AGENCY	11	HAGERSTOWN			IBM 1410	P	P	374
OSD	DEF SUP AGENCY	12	DAYTON OHIO			IBM 1410	P	P	374
OSD	DEF SUP AGENCY	12	DAYTON OHIO			IBM 650	L	A	382
OSD	DEF SUP AGENCY	12	DAYTON OHIO			IBM 7080	L	A	550
OSD	DEF SUP AGENCY	12	DAYTON OHIO			NOT DET	L	A	550
OSD	DEF SUP AGENCY	12	DAYTON OHIO			IBM 1401	L	A	353
OSD	DEF SUP AGENCY	12	DAYTON OHIO			IBM 1401	L	A	353
OSD	DEF SUP AGENCY	12	DAYTON OHIO			IBM 1401	L	A	353
OSD	DEF SUP AGENCY	12	DAYTON OHIO			NOT DET	L	A	353
OSD	DEF SUP AGENCY	13	COLUMBUS OHIO			NOT DET	L	A	353
OSD	DEF SUP AGENCY	13	COLUMBUS OHIO	IBM 705			L	A	353
OSD	DEF SUP AGENCY	13	COLUMBUS OHIO	IBM 1401			L	A	520
OSD	DEF SUP AGENCY	13	COLUMBUS OHIO		HON 800	HON 800	L	A	392
OSD	DEF SUP AGENCY	13	COLUMBUS OHIO			NOT DET	L	A	440
OSD	DEF SUP AGENCY	13	COLUMBUS OHIO			HON 400	L	A	120
OSD	DEF SUP AGENCY	14	PHILADELPHIA	IBM 650	IBM 650		L	A	300
OSD	DEF SUP AGENCY	14	PHILADELPHIA	IBM 650			L	A	532
OSD	DEF SUP AGENCY	14	PHILADELPHIA		IBM 7070	IBM 7070	L	A	660
OSD	DEF SUP AGENCY	14	PHILADELPHIA		IBM 1401	IBM 1401	L	A	395
OSD	DEF SUP AGENCY	14	PHILADELPHIA			IBM 1401	L	A	184
OSD	DEF SUP AGENCY	15	RICHMOND	IBM 650			L	A	236
OSD	DEF SUP AGENCY	15	RICHMOND	IBM 650			L	A	417
OSD	DEF SUP AGENCY	15	RICHMOND	IBM 7070			L	A	417
OSD	DEF SUP AGENCY	15	RICHMOND	IBM 1401	IBM 1401	IBM 1401	L	A	418
OSD	DEF SUP AGENCY	15	RICHMOND		IBM 1401	IBM 1401	L	A	392
OSD	DEF SUP AGENCY	16	PHILADELPHIA		IBM 7074	IBM 7074	L	A	292
OSD	DEF SUP AGENCY	16	PHILADELPHIA	IBM 650			L	A	350
OSD	DEF SUP AGENCY	16	PHILADELPHIA	RCA 501	RCA 501	RCA 501	L	A	117
OSD	DEF SUP AGENCY	16	PHILADELPHIA		RCA 501	RCA 501	L	A	417
OSD	DEF SUP AGENCY	16	PHILADELPHIA			RCA 501	L	A	364
OSD	DEF SUP AGENCY	16	PHILADELPHIA		RCA 301	RCA 301	L	A	460
OSD	DEF SUP AGENCY	17	WASHINGTON	IBM 705	IBM 705	RCA 301	L	A	276
OSD	DEF SUP AGENCY	17	BATTLE CREEK				L	A	276
OSD	DEF SUP AGENCY	17	WASHINGTON	IBM 1401	IBM 1401	IBM 7080	L	P	480
OSD	DEF SUP AGENCY	17	BATTLE CREEK				L	P	480
OSD	DEF SUP AGENCY	17	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	P	439
OSD	DEF SUP AGENCY	17	BATTLE CREEK				L	P	439
OSD	DEF SUP AGENCY	17	WASHINGTON			IBM 1401	L	P	483
OSD	DEF SUP AGENCY	17	BATTLE CREEK		IBM 1401		L	P	511
OSD	DEF SUP AGENCY	17	BATTLE CREEK			IBM 1401	L	P	511
OSD	DEF SUP AGENCY	18	NEW YORK			IBM 1401	L	A	193
OSD	DEF SUP AGENCY	19	CHICAGO	IBM 1401	IBM 1401	NOT DET	L	A	120
OSD	DEF SUP AGENCY	20	WASHINGTON	REM UFC1	REM UFC1		L	AP	593
OSD	CINCPAC	20	WASHINGTON			IBM 1410	L	AP	97
		21	OAHU			IBM 1401	L	AP	134
AF	ALASKAN AIR COM	1	ANCHORAGE ALAS		IBM 305	IBM 305	L	A	400

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
AF	ALASKAN AIR COM	2	ANCHORAGE ALAS			NOT DET	L	P	77
AF	ALASKAN AIR COM	3	FAIRBANKS ALAS			IBM 305	L	A	312
AF	AERO CHART CEN	4	ST LOUIS	BUR 220	BUR 220	BUR 220	L	APS	253
AF	AERO CHART CEN	4	ST LOUIS		IBM 1401	IBM 1401	L	APS	192
AF	AERO CHART CEN	4	ST LOUIS			NOT DET	L	APS	264
AF	AERO CHART CEN	4	ST LOUIS	IBM 650	IBM 650		L	C	205
AF	AERO CHART CEN	5	ST LOUIS			RCA 501	L	C	300
AF	AERO CHART CEN	5	ST LOUIS			NOT DET	L	C	176
AF	AERO CHART CEN	6	ST LOUIS	NAA REC2	NAA REC2	NAA REC2	P	C	172
AF	AERO CHART CEN	6	ST LOUIS	NAA REC2	NAA REC2	NAA REC2	P	C	172
AF	AERO CHART CEN	6	ST LOUIS	NAA REC2	NAA REC2	NAA REC2	P	C	172
AF	AERO CHART CEN	6	ST LOUIS	NAA REC2	NAA REC2	NAA REC2	P	C	172
AF	AERO CHART CEN	6	ST LOUIS	NAA REC2	NAA REC2	IBM 705	L	A	320
AF	AIR DEF COMM	7	COLORADO SPR	IBM 705	IBM 705	IBM 1401	L	A	272
AF	AIR DEF COMM	7	COLORADO SPR		IBM 1401	NCR 390	L	A	150
AF	AIR DEF COMM	8	COLORADO SPR		NCR 390	IBM 305	L	A	454
AF	AIR DEF COMM	9	PANAMA CITY FL		IBM 305	IBM 305	L	A	288
AF	AIR DEF COMM	10	SAN FRANCISCO	IBM 305	IBM 305	IBM 305	L	A	352
AF	AIR DEF COMM	11	SPOKANE			IBM 305	L	A	325
AF	AIR DEF COMM	12	NEWBURGH NY		IBM 305	IBM 305	L	A	383
AF	AIR DEF COMM	13	DETROIT		IBM 305	IBM 305	L	A	323
AF	AIR DEF COMM	14	FALMOUTH MASS			IBM 305	L	A	380
AF	AIR DEF COMM	15	SAULT ST MARIE			IBM 305	L	A	380
AF	AIR DEF COMM	16	GWINN MICH			IBM 305	L	A	305
AF	AIR DEF COMM	17	KANSAS CITY	IBM 305	IBM 305	IBM 305	L	A	240
AF	AIR DEF COMM	18	DULUTH MINN			IBM 305	L	A	533
AF	AIR DEF COMM	19	GRAND FORKS ND		IBM 305	IBM 305	L	A	242
AF	AIR DEF COMM	20	MADISON WIS	IBM 305	IBM 305	IBM 305	L	A	447
AF	AIR DEF COMM	21	TACOMA WASH	IBM 305	IBM 305		L	AP	441
AF	AIR DEF COMM	22	DENVER	RCA 501	RCA 501	RCA 501	L	AP	176
AF	ACCTG AND FIN	22	DENVER			NOT DET	L	A	176
AF	ACCTG AND FIN	23	COLORADO SPR	IBM 1401	IBM 1401	IBM 1401	P	AP	375
AF	AIR FORCE ACAD	24	ST LOUIS	RCA 501	RCA 501	RCA 501	L	AP	350
AF	AF COMM SERVICE	25	DAYTON OHIO		IBM 1401	IBM 1401	L	AP	330
AF	LOGISTICS COMM	25	DAYTON OHIO	IBM 650	IBM 650		L	AP	450
AF	LOGISTICS COMM	25	DAYTON OHIO			NOT DET	L	P	450
AF	LOGISTICS COMM	25	DAYTON OHIO			NOT DET	L	P	380
AF	LOGISTICS COMM	25	DAYTON OHIO				L	P	450
AF	LOGISTICS COMM	25	DAYTON OHIO	IBM 305	IBM 305	NOT DET	L	A	120
AF	LOGISTICS COMM	25	DAYTON OHIO	ROY LG30			L	AP	570
AF	LOGISTICS COMM	25	DAYTON OHIO	IBM 705			L	AP	400
AF	LOGISTICS COMM	25	DAYTON OHIO		IBM 7080	IBM 7080	L	AP	490
AF	LOGISTICS COMM	25	DAYTON OHIO	IBM 1401	IBM 1401	IBM 1401	L	P	490
AF	LOGISTICS COMM	25	DAYTON OHIO		IBM 1401	IBM 1401	L	P	490
AF	LOGISTICS COMM	25	DAYTON OHIO	IBM 305	IBM 305	IBM 305	L	A	280
AF	LOGISTICS COMM	26	DAYTON OHIO	IBM 650	IBM 650		L	AP	360
AF	LOGISTICS COMM	27	SACRAMENTO			NOT DET	L	AP	360
AF	LOGISTICS COMM	27	SACRAMENTO	IBM 650	IBM 650	IBM 650	L	AP	370
AF	LOGISTICS COMM	27	SACRAMENTO	IBM 650			L	P	290
AF	LOGISTICS COMM	27	SACRAMENTO	REM UFCO	REM UFCO		L	P	410
AF	LOGISTICS COMM	27	SACRAMENTO		REM SS80	REM SS80	L	P	450
AF	LOGISTICS COMM	27	SACRAMENTO			REM SS80	L	P	450
AF	LOGISTICS COMM	27	SACRAMENTO			REM 1105	L	AP	500
AF	LOGISTICS COMM	27	SACRAMENTO	REM 1105	REM 1105	REM STEP	L	P	450
AF	LOGISTICS COMM	27	SACRAMENTO		REM STEP		L	AP	350
AF	LOGISTICS COMM	28	OGDEN UTAH	IBM 650	IBM 650		L	AP	350
AF	LOGISTICS COMM	28	OGDEN UTAH			NOT DET	L	AP	570
AF	LOGISTICS COMM	28	OGDEN UTAH	IBM 650	IBM 650	IBM 650	L	AP	500
AF	LOGISTICS COMM	28	OGDEN UTAH	IBM 1401	IBM 1401	IBM 1401	L	AP	430
AF	LOGISTICS COMM	28	OGDEN UTAH	IBM 705			L	AP	460
AF	LOGISTICS COMM	28	OGDEN UTAH	IBM 705			L	AP	500
AF	LOGISTICS COMM	28	OGDEN UTAH		IBM 1401	IBM 1401	L	P	450
AF	LOGISTICS COMM	28	OGDEN UTAH		IBM 1401	IBM 1401	L	AP	450
AF	LOGISTICS COMM	28	OGDEN UTAH		IBM 7080	IBM 7080	L	AP	410
AF	LOGISTICS COMM	28	OGDEN UTAH		IBM 650		L	AP	400
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 650		NOT DET	L	P	500
AF	LOGISTICS COMM	29	OKLAHOMA CITY		IBM 650		L	P	510
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 650	IBM 650	IBM 650	L	P	520
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 650	IBM 650	IBM 650	L	P	590
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 1401	IBM 1401	IBM 1401	L	P	400
AF	LOGISTICS COMM	29	OKLAHOMA CITY			NOT DET	L	P	570
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 705	IBM 705	IBM 705	L	P	410
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 305	IBM 305	IBM 305	L	P	560
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 1401	IBM 1401	IBM 1401	L	P	570
AF	LOGISTICS COMM	29	OKLAHOMA CITY	IBM 705			L	P	500
AF	LOGISTICS COMM	29	OKLAHOMA CITY		IBM 1401	IBM 1401	L	P	500
AF	LOGISTICS COMM	29	OKLAHOMA CITY		IBM 1401	IBM 1401	L	P	400
AF	LOGISTICS COMM	29	OKLAHOMA CITY		IBM 7080	IBM 7080	L	P	400
AF	LOGISTICS COMM	29	OKLAHOMA CITY			NOT DET	L	P	240
AF	LOGISTICS COMM	30	HARRISBURG	IBM 650	IBM 650		L	AP	400
AF	LOGISTICS COMM	30	HARRISBURG			NOT DET	L	P	560
AF	LOGISTICS COMM	30	HARRISBURG	IBM 650	IBM 650	IBM 650	L	P	480
AF	LOGISTICS COMM	30	HARRISBURG	IBM 1401	IBM 1401	IBM 1401	L	P	500
AF	LOGISTICS COMM	30	HARRISBURG	IBM 705	IBM 705		L	P	500
AF	LOGISTICS COMM	30	HARRISBURG		IBM 1401	IBM 1401	L	P	500
AF	LOGISTICS COMM	30	HARRISBURG		IBM 1401	IBM 1401	L	P	500
AF	LOGISTICS COMM	30	HARRISBURG			IBM 7080	L	P	400
AF	LOGISTICS COMM	30	NEWARK OHIO			NOT DET	L	P	176
AF	LOGISTICS COMM	31	MACON GA	IBM 650			L	AP	410
AF	LOGISTICS COMM	31	MACON GA	IBM 650	IBM 650	IBM 650	L	AP	470
AF	LOGISTICS COMM	31	MACON GA	IBM 650	IBM 650		L	AP	340
AF	LOGISTICS COMM	31	MACON GA			IBM 650	L	AP	400
AF	LOGISTICS COMM	31	MACON GA	REM UFCO		NOT DET	L	P	400
AF	LOGISTICS COMM	31	MACON GA		REM SS80	REM SS80	L	P	490
AF	LOGISTICS COMM	31	MACON GA		REM SS80	REM SS80	L	P	400
AF	LOGISTICS COMM	31	MACON GA	REM 1105	REM 1105	REM 1105	L	P	290
AF	LOGISTICS COMM	31	MACON GA		REM STEP	REM STEP	L	P	400
AF	LOGISTICS COMM	31	MACON GA	IBM 650	IBM 650		L	AP	430
AF	LOGISTICS COMM	32	MOBILE ALA		IBM 650		L	AP	200
AF	LOGISTICS COMM	32	MOBILE ALA			NOT DET	L	AP	400
AF	LOGISTICS COMM	32	MOBILE ALA			IBM 650	L	P	470
AF	LOGISTICS COMM	32	MOBILE ALA	IBM 650	IBM 650	IBM 650	L	P	590
AF	LOGISTICS COMM	32	MOBILE ALA	IBM 1401	IBM 1401		L	P	550
AF	LOGISTICS COMM	32	MOBILE ALA	IBM 705			L	P	610
AF	LOGISTICS COMM	32	MOBILE ALA	IBM 705			L	P	610
AF	LOGISTICS COMM	32	MOBILE ALA		IBM 1401	IBM 1401	L	P	580
AF	LOGISTICS COMM	32	MOBILE ALA		IBM 1401	IBM 1401	L	P	580
AF	LOGISTICS COMM	32	MOBILE ALA		IBM 1401	IBM 1401	L	P	580
AF	LOGISTICS COMM	32	MOBILE ALA		IBM 7080	IBM 7080	L	P	400

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
AF	LOGISTICS COMM	33	SAN ANTONIO	IBM 650	IBM 650		L	AP	290
AF	LOGISTICS COMM	33	SAN ANTONIO			NOT DET	L	AP	400
AF	LOGISTICS COMM	33	SAN ANTONIO	IBM 650	IBM 650	IBM 650	L	AP	410
AF	LOGISTICS COMM	33	SAN ANTONIO	IBM 650	IBM 650	IBM 650	L	AP	420
AF	LOGISTICS COMM	33	SAN ANTONIO		IBM 1401	IBM 1401	L	P	500
AF	LOGISTICS COMM	33	SAN ANTONIO	IBM 705	IBM 705		L	P	470
AF	LOGISTICS COMM	33	SAN ANTONIO	IBM 705	IBM 705		L	P	480
AF	LOGISTICS COMM	33	SAN ANTONIO	IBM 1401	IBM 1401	IBM 1401	L	P	530
AF	LOGISTICS COMM	33	SAN ANTONIO		IBM 1401	IBM 1401	L	P	530
AF	LOGISTICS COMM	34	SAN BERNARDINO			IBM 7080	L	P	400
AF	LOGISTICS COMM	34	SAN BERNARDINO	IBM 650	IBM 650		L	AP	350
AF	LOGISTICS COMM	34	SAN BERNARDINO			NOT DET	L	AP	400
AF	LOGISTICS COMM	34	SAN BERNARDINO	BUR 205	BUR 205	BUR 205	P	AP	400
AF	LOGISTICS COMM	34	SAN BERNARDINO	BUR 220	BUR 220	BUR 220	L	P	490
AF	LOGISTICS COMM	34	SAN BERNARDINO	IBM 705			L	P	580
AF	LOGISTICS COMM	34	SAN BERNARDINO	IBM 705	IBM 705	IBM 705	L	P	550
AF	LOGISTICS COMM	34	SAN BERNARDINO	IBM 705	IBM 705	IBM 705	L	P	590
AF	LOGISTICS COMM	34	SAN BERNARDINO	IBM 1401	IBM 1401	IBM 1401	L	P	540
AF	LOGISTICS COMM	34	SAN BERNARDINO	IBM 1401	IBM 1401	IBM 1401	L	P	550
AF	LOGISTICS COMM	35	DAYTON OHIO		IBM 1401	IBM 1401	L	P	550
AF	LOGISTICS COMM	35	DAYTON OHIO	IBM 650	IBM 650		L	AP	310
AF	LOGISTICS COMM	35	DAYTON OHIO	IBM 650	IBM 650		L	AP	310
AF	LOGISTICS COMM	35	DAYTON OHIO	REM UI	REM UI		L	P	550
AF	LOGISTICS COMM	35	DAYTON OHIO	REM 1105			L	P	520
AF	LOGISTICS COMM	35	DAYTON OHIO		REM STEP		L	P	500
AF	LOGISTICS COMM	35	DAYTON OHIO		IBM 7080		L	P	400
AF	LOGISTICS COMM	35	DAYTON OHIO		IBM 1401		L	P	420
AF	LOGISTICS COMM	36	MEMPHIS		IBM 1401		L	P	420
AF	LOGISTICS COMM	36	MEMPHIS	IBM 650	IBM 650		L	AP	380
AF	LOGISTICS COMM	36	MEMPHIS			NOT DET	L	AP	400
AF	LOGISTICS COMM	36	MEMPHIS	IBM 705			L	P	590
AF	LOGISTICS COMM	36	MEMPHIS	IBM 1401	IBM 1401	IBM 1401	L	P	540
AF	LOGISTICS COMM	36	MEMPHIS		IBM 1401	IBM 1401	L	P	400
AF	LOGISTICS COMM	37	UTICA NY		IBM 7080	IBM 7080	L	P	400
AF	LOGISTICS COMM	37	UTICA NY	IBM 650	IBM 650		L	AP	340
AF	LOGISTICS COMM	37	UTICA NY			NOT DET	L	AP	400
AF	LOGISTICS COMM	37	UTICA NY	REM UFCO	REM UFCO	REM UFCO	L	P	400
AF	LOGISTICS COMM	37	UTICA NY	REM 1105	REM 1105	REM 1105	L	P	320
AF	LOGISTICS COMM	38	FRANCE		REM STEP	REM STEP	L	P	400
AF	SYSTEMS COMM	39	WASHINGTON			IBM 650	P	P	150
AF	SYSTEMS COMM	39	WASHINGTON		IBM 1401	IBM 1401	L	A	260
AF	SYSTEMS COMM	39	WASHINGTON	IBM 650	IBM 650		L	A	270
AF	SYSTEMS COMM	40	WASHINGTON			IBM 7070	L	A	150
AF	SYSTEMS COMM	40	WASHINGTON	REM 5S90	REM 5S90	REM 5S90	L	A	329
AF	SYSTEMS COMM	41	DAYTON OHIO		REM 5S90	REM 5S90	L	A	433
AF	SYSTEMS COMM	41	DAYTON OHIO	IBM 7090	IBM 7090	IBM 7090	L	P	210
AF	SYSTEMS COMM	42	DAYTON OHIO	IBM 1401	IBM 1401	IBM 1401	L	P	126
AF	SYSTEMS COMM	42	DAYTON OHIO	BUR 205	BUR 205	BUR 205	L	A	227
AF	SYSTEMS COMM	42	DAYTON OHIO	BUR E101	BUR E101	BUR E101	L	S	90
AF	SYSTEMS COMM	42	DAYTON OHIO			NOT DET	L	S	150
AF	SYSTEMS COMM	42	DAYTON OHIO			NOT DET	L	S	330
AF	SYSTEMS COMM	42	DAYTON OHIO			NOT DET	L	AS	352
AF	SYSTEMS COMM	42	DAYTON OHIO	IBM 7090	IBM 7090	IBM 7090	L	AS	352
AF	SYSTEMS COMM	42	DAYTON OHIO	IBM 1401	IBM 1401	IBM 1401	L	AS	354
AF	SYSTEMS COMM	43	SAN ANTONIO	BUR 204	BUR 204	BUR 204	P	S	330
AF	SYSTEMS COMM	44	SAN ANTONIO	NCR 102	NCR 102	NCR 102	P	S	110
AF	SYSTEMS COMM	45	ALAMOGORDO NM	IBM 650	IBM 650	IBM 650	L	SX	145
AF	SYSTEMS COMM	45	ALAMOGORDO NM			CDC 160A	L	PS	610
AF	SYSTEMS COMM	45	ALAMOGORDO NM			ROY 4000	L	S	200
AF	SYSTEMS COMM	45	ALAMOGORDO NM	REM 1103	REM 1103	REM 1103	P	PS	161
AF	SYSTEMS COMM	46	BAKERSFIELD	REM 1103	REM 1103	REM 1103	P	PS	375
AF	SYSTEMS COMM	46	BAKERSFIELD	IBM 704			L	AS	325
AF	SYSTEMS COMM	46	BAKERSFIELD		IBM 7090		L	AS	632
AF	SYSTEMS COMM	46	BAKERSFIELD			NOT DET	L	S	440
AF	SYSTEMS COMM	46	BAKERSFIELD			NOT DET	L	AS	176
AF	SYSTEMS COMM	46	LOS ANGELES			NOT DET	L	AS	352
AF	SYSTEMS COMM	47	BAKERSFIELD	READIX	READIX	READIX	P	S	352
AF	SYSTEMS COMM	47	BAKERSFIELD	BUR E102	BUR E102		P	S	176
AF	SYSTEMS COMM	48	ROME NY			NOT DET	L	AS	140
AF	SYSTEMS COMM	48	ROME NY	BUR 205	BUR 205	BUR 205	L	AS	280
AF	SYSTEMS COMM	49	COCOA BEACH		REM 1103	REM 1103	P	S	220
AF	SYSTEMS COMM	49	COCOA BEACH	IBM 7090	IBM 7090		L	P	210
AF	SYSTEMS COMM	49	COCOA BEACH		IBM 1401		L	P	340
AF	SYSTEMS COMM	49	COCOA BEACH		IBM 1401		L	P	425
AF	SYSTEMS COMM	49	COCOA BEACH	IBM 1401			L	P	420
AF	SYSTEMS COMM	49	COCOA BEACH			NOT DET	L	P	445
AF	SYSTEMS COMM	49	COCOA BEACH			NOT DET	L	P	400
AF	SYSTEMS COMM	49	COCOA BEACH			NOT DET	L	P	250
AF	SYSTEMS COMM	49	COCOA BEACH			NOT DET	L	P	230
AF	SYSTEMS COMM	49	COCOA BEACH	IBM 7090	IBM 7090		L	P	250
AF	SYSTEMS COMM	49	COCOA BEACH	IBM 1401	IBM 1401	IBM 1401	L	P	220
AF	SYSTEMS COMM	49	COCOA BEACH			NOT DET	L	P	160
AF	SYSTEMS COMM	49	COCOA BEACH		IBM 1620	IBM 1620	L	P	220
AF	SYSTEMS COMM	49	COCOA BEACH		IBM 1620	IBM 1620	L	P	165
AF	SYSTEMS COMM	49	COCOA BEACH	BEN G15	BEN G15		L	P	220
AF	SYSTEMS COMM	50	FT WALTON FLA	BEN G15			L	P	230
AF	SYSTEMS COMM	50	FT WALTON FLA	IBM 7090	BEN G15		L	P	265
AF	SYSTEMS COMM	50	FT WALTON FLA	IBM 1401	IBM 7090	IBM 7090	L	P	252
AF	SYSTEMS COMM	50	FT WALTON FLA	IBM 1401	IBM 1401	IBM 1401	L	AS	176
AF	SYSTEMS COMM	50	FT WALTON FLA	REM 1103	IBM 1401	IBM 1401	L	S	176
AF	SYSTEMS COMM	50	FT WALTON FLA	ROY LG30	ROY LG30		L	AS	176
AF	SYSTEMS COMM	50	FT WALTON FLA			NOT DET	L	P	176
AF	SYSTEMS COMM	51	ALBUQUERQUE	IBM 650	IBM 650	IBM 650	L	S	176
AF	SYSTEMS COMM	51	ALBUQUERQUE	IBM 704			L	S	176
AF	SYSTEMS COMM	51	ALBUQUERQUE		CDC 1604	CDC 1604	L	A	146
AF	SYSTEMS COMM	51	ALBUQUERQUE		CDC 160A	CDC 160A	L	S	457
AF	SYSTEMS COMM	51	ALBUQUERQUE			NOT DET	L	S	445
AF	SYSTEMS COMM	51	ALBUQUERQUE	IBM 650	IBM 650		L	S	100
AF	SYSTEMS COMM	51	ALBUQUERQUE			NOT DET	L	A	370
AF	SYSTEMS COMM	52	BEDFORD MASS	BEN G15	BEN G15	BEN G15	L	A	200
AF	SYSTEMS COMM	52	BEDFORD MASS	IBM 709	IBM 709		L	S	240
AF	SYSTEMS COMM	52	BEDFORD MASS		PHI 2000	PHI 2000	L	PS	121
AF	SYSTEMS COMM	52	BEDFORD MASS	IBM 1620	IBM 1620	IBM 1620	L	APSC	260
				IBM 650	IBM 650	IBM 650	L	APS	293
							L	AS	104
									352

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
AF	SYSTEMS COMM	52	BEDFORD MASS			NOT DET	L	A	220
AF	TRAINING COMM	53	SAN ANTONIO	BUR 220	BUR 220	BUR 220	L	A	209
AF	TRAINING COMM	53	SAN ANTONIO		IBM 1401	IBM 1401	L	A	154
AF	TRAINING COMM	54	SACRAMENTO			RCA 301	L	A	176
AF	TRAINING COMM	55	BIG SPRING TEX			RCA 301	L	A	176
AF	TRAINING COMM	56	WICHITA FALLS			RCA 301	L	A	176
AF	TRAINING COMM	57	AMARILLO			RCA 301	L	A	176
AF	AIR UNIVERSITY	58	MONTGOMERY ALA	REM UI	REM UI		P	A	320
AF	AIR UNIVERSITY	58	MONTGOMERY ALA			NOT DET	P	A	178
AF	AIR UNIVERSITY	59	MONTGOMERY ALA			NOT DET	L	A	176
AF	AIR UNIVERSITY	60	DAYTON OHIO		IBM 1620	IBM 1620	L	A	125
AF	AIR UNIVERSITY	61	DAYTON OHIO	IBM 1620	IBM 1620	IBM 1620	L	A	244
AF	AIR UNIVERSITY	62	DENVER	RCA 501	RCA 501	RCA 501	L	AP	326
AF	CONT AIR COMM	63	WARNER ROBINS			NOT DET	L	A	136
AF	CONT AIR COMM	64	WASHINGTON	REM UFC1	REM UFC1		L	A	383
AF	HQS COMMAND	64	WASHINGTON	REM SS80	REM SS80		L	A	262
AF	HQS COMMAND	64	WASHINGTON			NOT DET	L	A	250
AF	HQS COMMAND	64	WASHINGTON			NOT DET	L	A	250
AF	HQS COMMAND	64	WASHINGTON				L	A	576
AF	HQS USAF	65	WASHINGTON	IBM 705	IBM 705		L	A	670
AF	HQS USAF	65	WASHINGTON			NOT DET	L	AP	331
AF	HQS USAF	65	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	SP	450
AF	HQS USAF	65	WASHINGTON	IBM 7090	IBM 7090	IBM 7090	L	SP	328
AF	HQS USAF	65	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	AP	160
AF	HQS USAF	65	WASHINGTON	BUR E101	BUR E101	BUR E101	L	P	143
AF	HQS USAF	66	WASHINGTON	ROY LG30	ROY LG30	ROY LG30	L	P	215
AF	HQS USAF	66	WASHINGTON	IBM 7090	IBM 7090	IBM 7090	L	P	275
AF	HQS USAF	67	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	P	275
AF	HQS USAF	67	WASHINGTON		IBM 1401	IBM 1401	L	P	275
AF	HQS USAF	67	WASHINGTON	IBM 7070			L	C	578
AF	HQS USAF	68	WASHINGTON		IBM 7074	IBM 7074	L	C	300
AF	HQS USAF	68	WASHINGTON		IBM 1401	IBM 1401	L	C	176
AF	HQS USAF	68	WASHINGTON	ROY LG30	ROY LG30		P	C	156
AF	HQS USAF	69	SACRAMENTO		IBM 1620		L	C	176
AF	HQS USAF	69	SACRAMENTO			IBM 1401	P	C	176
AF	HQS USAF	69	SACRAMENTO			IBM 1620	P	C	176
AF	HQS USAF	69	SACRAMENTO		IBM 1401	IBM 1401	L	P	300
AF	HQS USAF	70	WASHINGTON				L	A	474
AF	HQS USAF	71	ST LOUIS	IBM 650			L	A	114
AF	MATS	71	ST LOUIS	IBM 650			L	A	344
AF	MATS	71	ST LOUIS		RCA 501	RCA 501	L	A	165
AF	MATS	71	ST LOUIS		RCA 301	RCA 301	L	A	90
AF	MATS	72	ST LOUIS			GEL 225	L	A	364
AF	MATS	73	ALBANY GA	NAA REC2	NAA REC2	NAA REC2	P	S	270
AF	MATS	73	ALBANY GA			NAA REC2	P	S	348
AF	MATS	74	ASHEVILLE NC	IBM 705	IBM 705	IBM 705	L	P	395
AF	MATS	74	ASHEVILLE NC	IBM 1401	IBM 1401	IBM 1401	L	P	340
AF	MATS	75	OMAHA	IBM 7090	IBM 7090	IBM 7090	L	P	407
AF	MATS	75	OMAHA		IBM 1401	IBM 1401	L	P	198
AF	MATS	76	SAN FRANCISCO		RCA 301	RCA 301	L	A	90
AF	MATS	77	SAVANNAH			GEL 225	L	A	166
AF	MATS	78	SAN FRANCISCO			GEL 225	L	A	115
AF	MATS	81	CHARLESTON SC			GEL 225	L	A	90
AF	MATS	82	BERMUDA			GEL 225	L	A	142
AF	MATS	83	ORLANDO FLA		ROY 4000	ROY 4000	L	S	90
AF	MATS	84	AZORES			GEL 225	L	S	176
AF	MATS	85	BEDFORD MASS			NOT DET	L	S	190
AF	AEROSPACE RES	86	DAYTON OHIO	IBM 1620	IBM 1620	IBM 1620	L	A	235
AF	AEROSPACE RES	87	HONOLULU	BUR 220	BUR 220		L	AP	113
AF	PACIFIC FORCES	87	HONOLULU			IBM 1401	L	P	112
AF	PACIFIC FORCES	88	HONOLULU	IBM 650	IBM 650		L	P	176
AF	PACIFIC FORCES	88	HONOLULU			NOT DET	L	P	288
AF	PACIFIC FORCES	89	HONOLULU			IBM 1401	L	A	176
AF	PACIFIC FORCES	90	PHILIPPINES			IBM 1620	L	P	138
AF	PACIFIC FORCES	91	JAPAN	IBM 650	IBM 650	IBM 650	L	A	443
AF	PACIFIC FORCES	92	JAPAN	IBM 650	IBM 650		L	AP	325
AF	PACIFIC FORCES	92	JAPAN			NOT DET	L	A	352
AF	PACIFIC FORCES	93	JAPAN			IBM 1401	L	P	176
AF	PACIFIC FORCES	93	JAPAN			IBM 1620	L	P	176
AF	PACIFIC FORCES	94	OKINAWA			IBM 1620	L	P	176
AF	PACIFIC FORCES	95	KOREA			IBM 1620	L	P	176
AF	PACIFIC FORCES	96	JAPAN	BUR 205	BUR 205		L	A	481
AF	PACIFIC FORCES	96	JAPAN			IBM 1401	L	A	352
AF	PACIFIC FORCES	96	JAPAN			IBM 1620	L	P	176
AF	PACIFIC FORCES	96	JAPAN			IBM 1620	L	P	176
AF	PACIFIC FORCES	97	JAPAN				L	A	416
AF	STRATEGIC AIR C	98	OMAHA	IBM 650			L	A	360
AF	STRATEGIC AIR C	98	OMAHA	IBM 650			L	A	300
AF	STRATEGIC AIR C	98	OMAHA		NCR 304	NCR 304	L	A	207
AF	STRATEGIC AIR C	98	OMAHA		NCR 304	NCR 304	L	A	176
AF	STRATEGIC AIR C	98	OMAHA			NCR 390	L	A	297
AF	STRATEGIC AIR C	99	OMAHA	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	99	OMAHA			NOT DET	L	P	176
AF	STRATEGIC AIR C	100	OMAHA	BUR 220	BUR 220	BUR 220	P	P	176
AF	STRATEGIC AIR C	100	OMAHA	ELT ALW3	ELT ALW3	ELT ALW3	P	P	176
AF	STRATEGIC AIR C	100	OMAHA	NAA REC2	NAA REC2	NAA REC2	P	P	398
AF	STRATEGIC AIR C	100	OMAHA	IBM 704			L	P	236
AF	STRATEGIC AIR C	101	OMAHA		IBM 1401	IBM 1401	L	P	270
AF	STRATEGIC AIR C	101	OMAHA		IBM 1401	IBM 1401	L	P	176
AF	STRATEGIC AIR C	101	OMAHA		IBM 7090	IBM 7090	L	A	450
AF	STRATEGIC AIR C	101	OMAHA		IBM 650	IBM 650	L	A	450
AF	STRATEGIC AIR C	102	SANTA BARBARA	IBM 650		IBM 305	L	P	120
AF	STRATEGIC AIR C	102	SANTA BARBARA		IBM 305		L	P	100
AF	STRATEGIC AIR C	103	HAWAII	IBM 305		NOT DET	L	P	160
AF	STRATEGIC AIR C	103	HAWAII		IBM 305		L	P	176
AF	STRATEGIC AIR C	104	ENGLAND	IBM 305		NOT DET	L	A	340
AF	STRATEGIC AIR C	104	ENGLAND		IBM 305		L	A	176
AF	STRATEGIC AIR C	105	SHREVEPORT	IBM 305		NOT DET	L	A	176
AF	STRATEGIC AIR C	105	SHREVEPORT			NOT DET	L	A	247
AF	STRATEGIC AIR C	105	SHREVEPORT		IBM 305		L	A	176
AF	STRATEGIC AIR C	106	COLUMBUS OHIO	IBM 305		NOT DET	L	A	247
AF	STRATEGIC AIR C	106	COLUMBUS OHIO		IBM 305	IBM 305	L	A	229
AF	STRATEGIC AIR C	107	TAMPA	IBM 305	IBM 305	IBM 305	L	A	193
AF	STRATEGIC AIR C	108	COLUMBUS MISS	IBM 305	IBM 305	IBM 305	L	A	275
AF	STRATEGIC AIR C	109	ORLANDO FLA	IBM 305	IBM 305	IBM 305	L	A	194
AF	STRATEGIC AIR C	110	PUERTO RICO	IBM 305	IBM 305				
AF	STRATEGIC AIR C	111	KNOBNOSTER MO						

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
AF	STRATEGIC AIR C	112	LITTLE ROCK	IBM 305	IBM 305	IBM 305	L	A	205
AF	STRATEGIC AIR C	113	MIAMI	IBM 305	IBM 305		L	A	173
AF	STRATEGIC AIR C	113	MIAMI			NOT DET	L	A	176
AF	STRATEGIC AIR C	114	CLINTON OKLA	IBM 305	IBM 305	IBM 305	L	A	187
AF	STRATEGIC AIR C	115	BLYTHEVILLE AR	IBM 305	IBM 305		L	A	177
AF	STRATEGIC AIR C	115	BLYTHEVILLE AR			NOT DET	L	A	150
AF	STRATEGIC AIR C	116	AUSTIN TEXAS	IBM 305	IBM 305		L	A	188
AF	STRATEGIC AIR C	116	AUSTIN TEXAS			NOT DET	L	A	160
AF	STRATEGIC AIR C	117	ALBANY GA	IBM 305	IBM 305		L	A	292
AF	STRATEGIC AIR C	117	ALBANY GA			NOT DET	L	A	176
AF	STRATEGIC AIR C	118	OSCODA MICH	IBM 305	IBM 305		L	A	289
AF	STRATEGIC AIR C	118	OSCODA MICH			NOT DET	L	A	176
AF	STRATEGIC AIR C	119	CHICOPEE MASS	IBM 305	IBM 305		L	A	339
AF	STRATEGIC AIR C	119	CHICOPEE MASS			NOT DET	L	A	176
AF	STRATEGIC AIR C	119	CHICOPEE MASS			NOT DET	L	A	353
AF	STRATEGIC AIR C	120	FORT WORTH	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	120	FORT WORTH			NOT DET	L	A	280
AF	STRATEGIC AIR C	121	ROSWELL NM	IBM 305	IBM 305	IBM 305	L	A	194
AF	STRATEGIC AIR C	122	RAPID CITY SD	IBM 305	IBM 305	IBM 305	L	A	300
AF	STRATEGIC AIR C	123	LIMESTONE ME	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	123	LIMESTONE ME			NOT DET	L	A	297
AF	STRATEGIC AIR C	124	EL PASO	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	124	EL PASO			NOT DET	L	A	232
AF	STRATEGIC AIR C	125	ALTUS OKLA	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	125	ALTUS OKLA			NOT DET	L	A	307
AF	STRATEGIC AIR C	126	BANGOR MAINE	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	126	BANGOR MAINE			NOT DET	L	A	207
AF	STRATEGIC AIR C	127	PLATTSBURGH NY	IBM 305	IBM 305	IBM 305	L	A	261
AF	STRATEGIC AIR C	128	LABRADOR	IBM 305	IBM 305	IBM 305	L	A	256
AF	STRATEGIC AIR C	129	PORTSMOUTH NH	IBM 305	IBM 305		L	A	281
AF	STRATEGIC AIR C	130	PERU IND	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	130	PERU IND			NOT DET	L	A	179
AF	STRATEGIC AIR C	131	NEWFOUNDLAND	IBM 305	IBM 305	IBM 305	L	A	275
AF	STRATEGIC AIR C	132	RIVERSIDE CAL	IBM 305	IBM 305		L	A	176
AF	STRATEGIC AIR C	132	RIVERSIDE CAL			NOT DET	L	A	176
AF	STRATEGIC AIR C	132	RIVERSIDE CAL			NOT DET	L	A	176
AF	STRATEGIC AIR C	133	MERCED CAL	IBM 305	IBM 305		L	A	348
AF	STRATEGIC AIR C	133	MERCED CAL			NOT DET	L	A	176
AF	STRATEGIC AIR C	134	SPOKANE	IBM 305	IBM 305		L	A	213
AF	STRATEGIC AIR C	134	SPOKANE			NOT DET	L	A	176
AF	STRATEGIC AIR C	135	TUCSON	IBM 305	IBM 305		L	A	216
AF	STRATEGIC AIR C	135	TUCSON			NOT DET	L	A	176
AF	STRATEGIC AIR C	136	TOPEKA KAN	IBM 305	IBM 305		L	A	261
AF	STRATEGIC AIR C	136	TOPEKA KAN			NOT DET	L	A	176
AF	STRATEGIC AIR C	137	GREAT FALLS	IBM 305	IBM 305	IBM 305	L	A	233
AF	STRATEGIC AIR C	138	SALINA KAN	IBM 305	IBM 305	IBM 305	L	A	194
AF	STRATEGIC AIR C	139	MTN HOME IDAHO	IBM 305	IBM 305	IBM 305	L	A	190
AF	STRATEGIC AIR C	140	LINCOLN NEBR	IBM 305	IBM 305		L	A	232
AF	STRATEGIC AIR C	140	LINCOLN NEBR			NOT DET	L	A	176
AF	STRATEGIC AIR C	141	MOSES LAK WASH	IBM 305	IBM 305	IBM 305	L	A	223
AF	STRATEGIC AIR C	142	GLASGOW MONT	IBM 305	IBM 305	IBM 305	L	A	251
AF	STRATEGIC AIR C	143	ENGLAND	IBM 305	IBM 305	IBM 305	L	A	260
AF	STRATEGIC AIR C	144	CHEYENNE			NOT DET	L	A	176
AF	STRATEGIC AIR C	145	ABILENE TEXAS	IBM 305	IBM 305	IBM 305	L	A	237
AF	STRATEGIC AIR C	146	MARYSVILLE CAL	IBM 305	IBM 305		L	A	213
AF	STRATEGIC AIR C	146	MARYSVILLE CAL			NOT DET	L	A	176
AF	STRATEGIC AIR C	147	GUAM	IBM 305	IBM 305	IBM 305	L	A	165
AF	STRATEGIC AIR C	148	SPAIN	IBM 305	IBM 305	IBM 305	L	A	235
AF	STRATEGIC AIR C	149	SPAIN			NOT DET	L	A	176
AF	STRATEGIC AIR C	150	SPAIN			NOT DET	L	A	176
AF	STRATEGIC AIR C	151	WICHITA KAN			NOT DET	L	A	176
AF	TACTICAL AIR C	152	HAMPTON VA	BUR 220	BUR 220	BUR 220	L	AS	430
AF	TACTICAL AIR C	152	HAMPTON VA			IBM 1401	L	A	176
AF	TACTICAL AIR C	153	MYRTLE BEACH		IBM 1401	IBM 1401	L	A	176
AF	TACTICAL AIR C	153	MYRTLE BEACH			IBM 305	L	A	264
AF	TACTICAL AIR C	154	GOLDSBORO NC	IBM 305	IBM 305		L	A	264
AF	TACTICAL AIR C	154	GOLDSBORO NC	IBM 305	IBM 305		L	A	264
AF	TACTICAL AIR C	154	GOLDSBORO NC		IBM 1401	IBM 1401	L	A	176
AF	TACTICAL AIR C	154	GOLDSBORO NC			NOT DET	L	A	398
AF	TACTICAL AIR C	155	SUMTER SC		IBM 1401	IBM 1401	L	A	176
AF	TACTICAL AIR C	155	SUMTER SC			IBM 305	L	A	264
AF	TACTICAL AIR C	156	HAMPTON VA		IBM 1401	IBM 1401	L	A	176
AF	TACTICAL AIR C	156	HAMPTON VA			IBM 305	L	A	264
AF	TACTICAL AIR C	157	ALEXANDRIA LA		IBM 1401	IBM 1401	L	A	176
AF	TACTICAL AIR C	157	ALEXANDRIA LA			IBM 305	L	A	264
AF	TACTICAL AIR C	158	SAN BERNARDINO		IBM 305		L	A	264
AF	TACTICAL AIR C	158	SAN BERNARDINO			NOT DET	L	A	352
AF	TACTICAL AIR C	158	SAN BERNARDINO		IBM 1401	IBM 1401	L	A	330
AF	TACTICAL AIR C	159	CLOVIS NM		IBM 1401	IBM 1401	L	A	176
AF	TACTICAL AIR C	159	CLOVIS NM		IBM 305	IBM 305	L	A	176
AF	TACTICAL AIR C	160	LAS VEGAS		IBM 1401		L	A	264
AF	TACTICAL AIR C	160	LAS VEGAS		IBM 305		L	A	176
AF	TACTICAL AIR C	161	PHOENIX ARIZ			NOT DET	L	A	352
AF	TACTICAL AIR C	161	PHOENIX ARIZ		IBM 1401	IBM 1401	L	A	318
AF	TACTICAL AIR C	162	SMYRNA TENN		IBM 305	IBM 305	L	A	176
AF	TACTICAL AIR C	162	SMYRNA TENN		IBM 1401	IBM 1401	L	A	264
AF	TACTICAL AIR C	163	FAYETTEVILLE			IBM 305	L	A	176
AF	TACTICAL AIR C	163	FAYETTEVILLE		IBM 1401	IBM 1401	L	A	264
AF	TACTICAL AIR C	164	TAMPA			IBM 305	L	A	176
AF	TACTICAL AIR C	164	TAMPA			IBM 1401	L	A	264
AF	USAF EUROPE	165	GERMANY			IBM 305	L	A	176
AF	USAF EUROPE	165	GERMANY	IBM 650			L	A	264
AF	USAF EUROPE	166	GERMANY		IBM 1410	IBM 1410	L	A	465
AF	SECURITY SERV	167	SAN ANTONIO			IBM 1410	L	A	221
AF	SECURITY SERV	168	GERMANY			NOT DET	L	P	350
AF	SECURITY SERV	168	GERMANY	IBM 1401	IBM 1401		L	A	176
AF	SECURITY SERV	168	GERMANY		IBM 1401	IBM 1401	L	P	423
AF	SECURITY SERV	169	SAN ANTONIO		IBM 1610	IBM 1410	L	P	394
AF	SECURITY SERV	169	SAN ANTONIO	IBM 705	IBM 705	IBM 705	L	P	350
AF	SECURITY SERV	169	SAN ANTONIO	IBM 1401	IBM 1401		L	P	475
AF	SECURITY SERV	169	SAN ANTONIO			IBM 1401	L	P	450
AF	SECURITY SERV	169	SAN ANTONIO		IBM 1401	NOT DET	L	P	400
AF	SECURITY SERV	170	GERMANY			IBM 1401	L	P	200
AF	SECURITY SERV	171	JAPAN		IBM 1401	IBM 1401	L	P	350
									260
									264

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
ARMY	FINANCE	1	INDIANAPOLIS	IBM 650	IBM 650		L	AP	337
ARMY	FINANCE	1	INDIANAPOLIS		HON 800	HON 800	L	AP	471
ARMY	FINANCE	1	INDIANAPOLIS			NOT DET	L	AP	176
ARMY	FINANCE	3	WASHINGTON	IBM 305			L	A	140
ARMY	FINANCE	3	WASHINGTON		IBM 1401	IBM 1401	L	A	160
ARMY	FINANCE	4	INDIANAPOLIS			NOT DET	L	AS	150
ARMY	FINANCE SCHOOL	5	WASHINGTON	ELT ALW3	ELT ALW3	ELT ALW3	P	S	150
ARMY	RES AND DEV	6	WEST POINT	NAA REC2	NAA REC2	NAA REC2	P	A	100
ARMY	MILITARY ACADMY	6	WEST POINT			NOT DET	L	A	80
ARMY	MILITARY ACADMY	7	WASHINGTON		IBM 7090	IBM 7090	L	S	125
ARMY	DCSOPNS	7	WASHINGTON		IBM 1401	IBM 1401	L	S	108
ARMY	DCSOPNS	8	WASHINGTON		SYL 9400	SYL 9400	L	P	192
ARMY	ACSI	9	NEW YORK	IBM 7070	IBM 7070	IBM 7070	L	A	200
ARMY	DCSLOG	9	NEW YORK	IBM 1401	IBM 1401	IBM 1401	L	A	200
ARMY	DCSLOG	10	WASHINGTON			HON 400	L	A	200
ARMY	DCSLOG	11	PETERSBURG VA	IBM 305			L	AS	131
ARMY	DCSLOG	11	PETERSBURG VA		RCA 501	RCA 501	L	AS	146
ARMY	DCSLOG	12	EDGEWOOD MD	REM UI			L	A	225
ARMY	CHEMICAL	12	EDGEWOOD MD		REM UII	REM UII	L	A	225
ARMY	CHEMICAL	13	EDGEWOOD MD	BUR 205	BUR 205		L	S	216
ARMY	CHEMICAL	13	EDGEWOOD MD		REM SS90	REM SS90	L	S	176
ARMY	CHEMICAL	14	EDGEWOOD MD	ROY LG30	ROY LG30	ROY LG30	L	PS	190
ARMY	CHEMICAL	15	EDGEWOOD MD	ROY 4000	ROY 4000	ROY 4000	L	PS	176
ARMY	CHEMICAL	16	EDGEWOOD MD		IBM 1620	IBM 1620	L	S	84
ARMY	CHEMICAL	17	DUGWAY UTAH		IBM 1620		L	APS	120
ARMY	CHEMICAL	17	DUGWAY UTAH			NOT DET	L	APS	240
ARMY	CHEMICAL	18	FREDERICK MD	REM SS90	REM SS90	REM SS90	P	AS	172
ARMY	CHEMICAL	19	WASHINGTON	BUR E102			L	S	90
ARMY	ENGINEERS	19	WASHINGTON			NOT DET	L	S	176
ARMY	ENGINEERS	20	PHILADELPHIA	BUR E101	BUR E101	BUR E101	L	AS	200
ARMY	ENGINEERS	21	VICKSBURG MISS	IBM 650	IBM 650		L	S	186
ARMY	ENGINEERS	21	VICKSBURG MISS			NOT DET	L	S	110
ARMY	ENGINEERS	22	SEATTLE			NOT DET	L	AS	150
ARMY	ENGINEERS	23	LOS ANGELES	BEN G15	BEN G15		L	S	222
ARMY	ENGINEERS	23	LOS ANGELES		BEN G15	BEN G15	P	S	222
ARMY	ENGINEERS	24	WALLA WALLA			NOT DET	L	S	176
ARMY	ENGINEERS	25	PORTLAND ORE	IBM 650			L	AS	200
ARMY	ENGINEERS	25	PORTLAND ORE		IBM 1620	IBM 1620	L	AS	170
ARMY	ENGINEERS	25	PORTLAND ORE		IBM 1401	IBM 1401	L	AS	176
ARMY	ENGINEERS	26	WASHINGTON		HON 800	HON 800	L	S	176
ARMY	ENGINEERS	26	WASHINGTON	REM UI	REM UI	REM UI	P	S	505
ARMY	ENGINEERS	27	WASHINGTON		IBM 1620	IBM 1620	L	C	176
ARMY	ENGINEERS	28	WASHINGTON	BEN G15	BEN G15	BEN G15	L	S	180
ARMY	ENGINEERS	29	SAN ANTONIO			IBM 1620	L	S	134
ARMY	ENGINEERS	29	KANSAS CITY			IBM 1620	L	S	109
ARMY	ENGINEERS	30	WASHINGTON	BEN G15	BEN G15	BEN G15	P	S	183
ARMY	ENGINEERS	31	WASHINGTON	NAA REC2	NAA REC2	NAA REC2	P	S	80
ARMY	ENGINEERS	32	WASHINGTON	IBM 650			L	S	170
ARMY	ENGINEERS	32	WASHINGTON		RCA 301	RCA 301	L	S	190
ARMY	ENGINEERS	33	HANOVER NH	BEN G15	BEN G15	BEN G15	P	S	190
ARMY	ENGINEERS	34	FORT WORTH	BEN G15	BEN G15	BEN G15	L	S	108
ARMY	ENGINEERS	35	DETROIT	ROY LG30	ROY LG30	ROY LG30	L	S	168
ARMY	ENGINEERS	36	WASHINGTON		IBM 1401	IBM 1401	L	A	142
ARMY	ENGINEERS	36	WASHINGTON			NOT DET	L	A	150
ARMY	ENGINEERS	37	CINCINNATI	BUR E102	BUR E102	BUR E102	P	S	100
ARMY	ENGINEERS	38	LITTLE ROCK	BEN G15	BEN G15	BEN G15	L	S	150
ARMY	ENGINEERS	39	OMAHA	IBM 650			L	AS	176
ARMY	ENGINEERS	39	OMAHA		RCA 301	RCA 301	L	AS	200
ARMY	ENGINEERS	41	KANSAS CITY	BUR E102			L	S	178
ARMY	ENGINEERS	41	KANSAS CITY	IBM 1620	IBM 1620	IBM 1620	L	AS	200
ARMY	ENGINEERS	42	ST LOUIS	IBM 650			L	A	472
ARMY	ENGINEERS	42	ST LOUIS	IBM 1401	IBM 1401	IBM 1401	L	A	306
ARMY	ENGINEERS	42	ST LOUIS		IBM 1410	IBM 1410	L	A	275
ARMY	ENGINEERS	43	HUNTINGTON WVA	BUR E101			L	S	146
ARMY	ENGINEERS	43	HUNTINGTON WVA		IBM 1620	IBM 1620	L	S	150
ARMY	ENGINEERS	44	WASHINGTON			NOT DET	L	A	125
ARMY	ENGINEERS	45	ALBUQUERQUE		IBM 1620	IBM 1620	L	AS	91
ARMY	ENGINEERS	46	TULSA	BUR E101	BUR E101		L	S	170
ARMY	ENGINEERS	46	TULSA			NOT DET	L	S	100
ARMY	ENGINEERS	47	LOUISVILLE	IBM 305	IBM 305	IBM 305	L	A	237
ARMY	SURG GEN	48	WASHINGTON	ROY LG30			L	S	120
ARMY	SURG GEN	48	WASHINGTON		ROY 4000	ROY 4000	L	S	140
ARMY	SURG GEN	49	WASHINGTON		PAB 250	PAB 250	L	S	200
ARMY	SURG GEN	50	WASHINGTON			NOT DET	L	AP	168
ARMY	SURG GEN	51	DENVER			RCA 301	L	S	200
ARMY	ORDNANCE	52	ANNISTON ALA	IBM 650	IBM 650		L	A	225
ARMY	ORDNANCE	52	ANNISTON ALA	IBM 1401	IBM 1401		L	A	180
ARMY	ORDNANCE	52	ANNISTON ALA			NOT DET	L	A	176
ARMY	ORDNANCE	53	HUNTSVILLE ALA		IBM 1620	IBM 1620	L	S	132
ARMY	ORDNANCE	53	HUNTSVILLE ALA	ROY 4000	ROY 4000	ROY 4000	L	S	132
ARMY	ORDNANCE	53	HUNTSVILLE ALA		ROY 4000	ROY 4000	L	S	132
ARMY	ORDNANCE	53	HUNTSVILLE ALA		ROY LG30	ROY LG30	L	S	132
ARMY	ORDNANCE	53	HUNTSVILLE ALA	ROY LG30	BUR 205	BUR 205	P	S	132
ARMY	ORDNANCE	53	HUNTSVILLE ALA	BUR 205	IBM 1620	IBM 1620	L	S	132
ARMY	ORDNANCE	53	HUNTSVILLE ALA	IBM 1620	IBM 1620	IBM 1620	L	S	132
ARMY	ORDNANCE	53	HUNTSVILLE ALA				L	P	185
ARMY	ORDNANCE	55	HUNTSVILLE ALA	ROY LG30			L	P	171
ARMY	ORDNANCE	55	HUNTSVILLE ALA		IBM 1620	IBM 1620	L	AP	200
ARMY	ORDNANCE	56	HUNTSVILLE ALA		IBM 1401	IBM 1401	L	A	350
ARMY	ORDNANCE	57	HUNTSVILLE ALA		IBM 1401	IBM 1401	L	A	375
ARMY	ORDNANCE	57	HUNTSVILLE ALA			IBM 1401	L	A	260
ARMY	ORDNANCE	57	HUNTSVILLE ALA		IBM 7090	IBM 7090	L	S	250
ARMY	ORDNANCE	57	HUNTSVILLE ALA		IBM 1401	IBM 1401	L	A	350
ARMY	ORDNANCE	57	HUNTSVILLE ALA		IBM 1410	IBM 1410	L	A	350
ARMY	ORDNANCE	59	SAN FRANCISCO	IBM 305			L	A	350
ARMY	ORDNANCE	59	SAN FRANCISCO	IBM 305			L	AP	154
ARMY	ORDNANCE	60	LOS ANGELES	IBM 305	IBM 305	IBM 305	L	A	350
ARMY	ORDNANCE	61	PUEBLO COL	IBM 305	IBM 305		L	A	350
ARMY	ORDNANCE	61	PUEBLO COL	IBM 305			L	A	176
ARMY	ORDNANCE	61	PUEBLO COL			NOT DET	L	AS	170
ARMY	ORDNANCE	62	WASHINGTON			IBM 1410	L	S	200
ARMY	ORDNANCE	63	CHICAGO	RCA 501	RCA 501	RCA 501	P	A	100
ARMY	ORDNANCE	64	ROCK ISLAND	ROY LG30	ROY LG30	ROY LG30	L	A	500
ARMY	ORDNANCE	65	ROCK ISLAND	RCA 501	RCA 501	RCA 501	L	A	350
ARMY	ORDNANCE	65	ROCK ISLAND			NOT DET	L	A	350
ARMY	ORDNANCE	66	ABERDEEN MD	EDVAC	EDVAC	EDVAC	P	S	500

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
ARMY	ORDNANCE	66	ABERDEEN MD	ORDVAC	ORDVAC	ORDVAC	P	S	500
ARMY	ORDNANCE	66	ABERDEEN MD		BRLESC	BRLESC	P	AS	200
ARMY	ORDNANCE	66	ABERDEEN MD	BUR E101	BUR E101	BUR E101	L	S	200
ARMY	ORDNANCE	66	ABERDEEN MD			NOT DET	L	S	200
ARMY	ORDNANCE	66	ABERDEEN MD	BEN G15	BEN G15		L	S	170
ARMY	ORDNANCE	66	ABERDEEN MD		BEN G15		L	S	170
ARMY	ORDNANCE	69	SPRINGFLD MASS			ASI 210	L	S	170
ARMY	ORDNANCE	70	BOSTON			GEL 225	L	AS	160
ARMY	ORDNANCE	70	BOSTON		IBM 1620	IBM 1620	L	S	176
ARMY	ORDNANCE	70	BOSTON			RCA 501	L	AS	176
ARMY	ORDNANCE	71	DETROIT	ROY LG30			L	S	176
ARMY	ORDNANCE	72	DETROIT	BUR 204	BUR 204	BUR 204	P	S	168
ARMY	ORDNANCE	72	DETROIT	RCA BIZ	RCA BIZ		P	A	362
ARMY	ORDNANCE	72	DETROIT	RCA 501	RCA 501	RCA 501	P	A	362
ARMY	ORDNANCE	72	DETROIT		RCA 501	RCA 501	L	A	362
ARMY	ORDNANCE	72	DETROIT		RCA 301	RCA 301	L	A	362
ARMY	ORDNANCE	74	DOVER NJ	IBM 650	RCA 301	RCA 301	L	A	362
ARMY	ORDNANCE	74	DOVER NJ		IBM 709	IBM 709	L	S	264
ARMY	ORDNANCE	74	DOVER NJ		IBM 1401	IBM 1401	L	S	120
ARMY.	ORDNANCE	77	METUCHEN NJ	IBM 305			L	AS	110
ARMY	ORDNANCE	77	METUCHEN NJ	IBM 305			L	A	200
ARMY	ORDNANCE	78	ALBANY NY	IBM 650	IBM 650	IBM 650	L	A	200
ARMY	ORDNANCE	79	ALBANY NY		REM SS80	REM SS80	P	AS	176
ARMY	ORDNANCE	80	WHITE SANDS NM	REM 1103			L	S	170
ARMY	ORDNANCE	80	WHITE SANDS NM	REM SS80			L	S	304
ARMY	ORDNANCE	80	WHITE SANDS NM	BEN G15			L	S	274
ARMY	ORDNANCE	80	WHITE SANDS NM		IBM 7090		L	S	192
ARMY	ORDNANCE	82	WHITE SANDS NM			IBM 7094	L	S	220
ARMY	ORDNANCE	83	WHITE SANDS NM	IBM 1620	IBM 1620	IBM 1620	L	S	264
ARMY	ORDNANCE	84	WHITE SANDS NM		IBM 1620	IBM 1620	L	S	176
ARMY	ORDNANCE	84	WHITE SANDS NM	IBM 704	IBM 704		L	S	160
ARMY	ORDNANCE	84	WHITE SANDS NM	IBM 1620	IBM 1620	IBM 1620	L	S	283
ARMY	ORDNANCE	85	WHITE SANDS NM		IBM 1401	IBM 1401	L	S	95
ARMY	ORDNANCE	86	WHITE SANDS NM	IBM 704	IBM 704	IBM 704	L	S	228
ARMY	ORDNANCE	87	WHITE SANDS NM	BEN G15	BEN G15	BEN G15	L	S	305
ARMY	ORDNANCE	88	PORT CLINTON O		IBM 1401	IBM 1401	L	S	176
ARMY	ORDNANCE	88	PORT CLINTON O	IBM 305	IBM 305		L	A	170
ARMY	ORDNANCE	88	PORT CLINTON O	IBM 305	IBM 305		L	A	320
ARMY	ORDNANCE	89	PHILADELPHIA			NOT DET	L	A	320
ARMY	ORDNANCE	90	PHILADELPHIA	ROY LG30	ROY LG30	ROY LG30	L	S	176
ARMY	ORDNANCE	91	PHILADELPHIA	REM SS90	REM SS90	REM SS90	L	S	160
ARMY	ORDNANCE	91	PHILADELPHIA	IBM 650	IBM 650	IBM 650	L	S	160
ARMY	ORDNANCE	92	PHILADELPHIA	IBM 1401	IBM 1401	IBM 1401	L	A	352
ARMY	ORDNANCE	93	PHILADELPHIA	REM UFCO	REM UFCO	REM UFCO	L	A	264
ARMY	ORDNANCE	94	CHAMBERSBURG	BEN G15	BEN G15	BEN G15	L	A	340
ARMY	ORDNANCE	94	CHAMBERSBURG	IBM 305	IBM 305		L	S	120
ARMY	ORDNANCE	94	CHAMBERSBURG	IBM 305	IBM 305		L	A	425
ARMY	ORDNANCE	95	CHAMBERSBURG			NOT DET	L	A	425
ARMY	ORDNANCE	96	TEXARKANA TEX			NOT DET	L	A	176
ARMY	ORDNANCE	96	TEXARKANA TEX	IBM 305	IBM 305		L	A	176
ARMY	ORDNANCE	96	TEXARKANA TEX	IBM 305	IBM 305		L	A	350
ARMY	ORDNANCE	97	TOOELE UTAH			NOT DET	L	A	350
ARMY	ORDNANCE	97	TOOELE UTAH		IBM 305	IBM 305	L	A	176
ARMY	ORDNANCE	98	TACOMA WASH		IBM 305	IBM 305	L	A	350
ARMY	ORDNANCE	98	TACOMA WASH	IBM 305			L	A	350
ARMY	ORDNANCE	99	SNOWVILLE VA	IBM 305			L	A	225
ARMY	QMG	100	ATLANTA	REM 1103	REM 1103	REM 1103	L	A	225
ARMY	QMG	101	FORT WORTH		IBM 1410	IBM 1410	P	A	176
ARMY	QMG	102	COLUMBUS OHIO	IBM 650		NOT DET	L	A	241
ARMY	QMG	102	COLUMBUS OHIO				L	A	176
ARMY	QMG	103	MEMPHIS		IBM 1410	IBM 1410	L	A	426
ARMY	QMG	104	HARRISBURG			NOT DET	L	A	320
ARMY	QMG	107	SCHENECTADY			NOT DET	L	A	176
ARMY	QMG	108	STOCKTON CAL			NOT DET	L	A	176
ARMY	QMG	108	STOCKTON CAL	IBM 305	IBM 305		L	A	176
ARMY	QMG	109	OGDEN UTAH			NOT DET	L	A	310
ARMY	QMG	109	OGDEN UTAH	IBM 305			L	A	225
ARMY	SIGNAL	110	RED BANK N J		IBM 1410	IBM 1410	L	A	176
ARMY	SIGNAL	110	RED BANK N J	BUR 220	BUR 220		L	A	498
ARMY	SIGNAL	111	PHILADELPHIA			NOT DET	L	S	230
ARMY	SIGNAL	111	PHILADELPHIA	IBM 705	IBM 705	IBM 705	L	S	300
ARMY	SIGNAL	111	PHILADELPHIA		IBM 1401	IBM 1401	L	A	176
ARMY	SIGNAL	112	RED BANK N J			NOT DET	L	A	450
ARMY	SIGNAL	112	RED BANK N J	ROY LG30	ROY LG30	ROY LG30	L	A	500
ARMY	SIGNAL	112	RED BANK N J		ROY LG30	ROY LG30	P	A	350
ARMY	SIGNAL	112	RED BANK N J	IBM 650	IBM 650		P	A	
ARMY	SIGNAL	112	RED BANK N J	NAA REC2	NAA REC2	NAA REC2	P	A	
ARMY	SIGNAL	112	RED BANK N J	NAA REC2	NAA REC2	NAA REC2	P	A	176
ARMY	SIGNAL	112	RED BANK N J			NAA REC2	P	X	40
ARMY	SIGNAL	112	RED BANK N J			BAS PAC	P	X	170
ARMY	SIGNAL	112	RED BANK N J			INFORMER	P	X	264
ARMY	SIGNAL	115	WASHINGTON			NOT DET	L	X	176
ARMY	SIGNAL	116	HAGERSTOWN	NAA REC2	NAA REC2	NAA REC2	P	X	176
ARMY	SIGNAL	116	HAGERSTOWN	IBM 650	IBM 650		P	X	220
ARMY	SIGNAL	116	HAGERSTOWN			NOT DET	L	P	44
ARMY	SIGNAL	117	TOBYHANNA PA	IBM 650	IBM 650	NOT DET	L	P	176
ARMY	SIGNAL	117	TOBYHANNA PA			IBM 1410	L	P	176
ARMY	SIGNAL	118	SACRAMENTO	IBM 650	IBM 650		L	A	375
ARMY	SIGNAL	118	SACRAMENTO		IBM 1410	IBM 1410	L	A	352
ARMY	SIGNAL	119	LEXINGTON KY	IBM 650	IBM 650		L	A	524
ARMY	SIGNAL	119	LEXINGTON KY			IBM 1410	L	A	407
ARMY	SIGNAL	120	FT HUACHUCA AR	IBM 709	IBM 709		L	A	436
ARMY	SIGNAL	120	FT HUACHUCA AR			NOT DET	L	PS	315
ARMY	SIGNAL	120	FT HUACHUCA AR	IBM 1401	IBM 1401	IBM 1401	L	PS	279
ARMY	TRANSPORTATION	121	WHITE SANDS NM	PHI 2000	PHI 2000	PHI 2000	L	PS	279
ARMY	TRANSPORTATION	122	NEW YORK		IBM 1401	IBM 1401	L	PS	234
ARMY	TRANSPORTATION	122	NEW YORK		IBM 7070	IBM 7070	L	A	500
ARMY	TRANSPORTATION	123	NEW ORLEANS		IBM 1401	IBM 1401	L	A	196
ARMY	TRANSPORTATION	124	SAN FRANCISCO		IBM 1401	IBM 1401	L	A	196
ARMY	TRANSPORTATION	125	ST LOUIS	IBM 705			L	A	150
ARMY	TRANSPORTATION	125	ST LOUIS	IBM 1401	IBM 1401	IBM 1401	L	A	175
ARMY	TRANSPORTATION	125	ST LOUIS	IBM 1401			L	A	561
ARMY	TRANSPORTATION	125	ST LOUIS		IBM 1401	IBM 1401	L	A	537
ARMY	TRANSPORTATION	125	ST LOUIS		IBM 7080	IBM 7080	L	A	548
		128	BAKERSFIELD		IBM 1620	IBM 1620	L	S	597
									367
									132

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
ARMY	TRANSPORTATION	129	NEWPT NEWS VA			NOT DET	L	A	129
ARMY	TRANSPORTATION	130	NEWPT NEWS VA	IBM 1620	IBM 1620	IBM 1620	L	S	160
ARMY	DCSPERS	131	WASHINGTON	IBM 705	IBM 705		L	P	465
ARMY	DCSPERS	131	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	P	271
ARMY	DCSPERS	131	WASHINGTON			NOT DET	L	P	176
ARMY	DCSPERS	132	INDIANAPOLIS			NOT DET	L	AP	142
ARMY	DCSPERS	133	ST LOUIS		NCR 390	NCR 390	L	A	158
ARMY	DCSPERS	134	NEW YORK	REM UFC1	REM UFC1		L	A	339
ARMY	CONARC	134	NEW YORK			RCA 501	L	P	282
ARMY	CONARC	135	NEW YORK			NOT DET	P	AP	84
ARMY	CONARC	136	BALTIMORE	REM UFC1	REM UFC1	REM UFC1	L	A	245
ARMY	CONARC	137	BALTIMORE			RCA 501	L	P	170
ARMY	CONARC	138	LOUISVILLE			NOT DET	L	A	152
ARMY	CONARC	139	ATLANTA			RCA 501	L	P	170
ARMY	CONARC	140	COLUMBUS GA			NOT DET	L	A	176
ARMY	CONARC	141	FAYETTEVILLE			NOT DET	L	A	176
ARMY	CONARC	142	SAN ANTONIO		RCA 501	RCA 501	L	A	300
ARMY	CONARC	143	EL PASO	IBM 650		NOT DET	L	P	120
ARMY	CONARC	144	EL PASO		IBM 1620	IBM 1620	L	P	160
ARMY	CONARC	144	EL PASO	BEN G15	BEN G15	BEN G15	P	S	202
ARMY	CONARC	145	LAWTON OKLA			NOT DET	L	AP	195
ARMY	CONARC	146	LAWTON OKLA	BEN G15	BEN G15		L	X	176
ARMY	CONARC	147	LEAVENWORTH			NOT DET	L	A	225
ARMY	CONARC	148	LEAVENWORTH			RCA 501	L	P	176
ARMY	CONARC	149	CHICAGO			RCA 501	L	P	200
ARMY	CONARC	150	SAN FRANCISCO	IBM 650	IBM 650		L	A	168
ARMY	US ARMY EUROPE	151	FRANCE			IBM 1401	L	A	287
ARMY	US ARMY EUROPE	151	FRANCE			NCR 315	L	A	200
ARMY	US ARMY EUROPE	152	GERMANY			NCR 315	L	A	103
ARMY	US ARMY EUROPE	152	GERMANY	IBM 305	IBM 305	IBM 305	L	A	135
ARMY	US ARMY EUROPE	153	FRANCE	IBM 305	IBM 305	IBM 305	L	A	382
ARMY	US ARMY EUROPE	153	FRANCE			MOBIDIC	P	A	312
ARMY	US ARMY EUROPE	153	FRANCE	IBM 650			L	A	200
ARMY	US ARMY EUROPE	154	GERMANY		IBM 1401	IBM 1401	L	A	328
ARMY	US ARMY EUROPE	154	GERMANY			IBM 1401	L	A	413
ARMY	US ARMY EUROPE	154	GERMANY	IBM 305	IBM 305		L	A	400
ARMY	US ARMY EUROPE	155	FRANCE			RCA 301	L	A	550
ARMY	US ARMY EUROPE	155	FRANCE	IBM 650			L	A	270
ARMY	US ARMY EUROPE	156	GERMANY	MOBIDIC	MOBIDIC	MOBIDIC	P	A	557
ARMY	US ARMY EUROPE	156	GERMANY			IBM 1401	L	A	459
ARMY	US ARMY EUROPE	157	FRANCE	IBM 650	IBM 650		L	A	175
ARMY	US ARMY PACIFIC	158	HAWAII		IBM 1401	IBM 1401	L	A	446
ARMY	US ARMY PACIFIC	158	HAWAII						161
NAVY	MED AND SURG	1	WASHINGTON			IBM 1401	L	AS	158
NAVY	MED AND SURG	2	WASHINGTON			IBM 1620	L	S	95
NAVY	MED AND SURG	3	CHICAGO		IBM 1620	IBM 1620	L	S	176
NAVY	MED AND SURG	4	PENSACOLA			IBM 1620	L	S	141
NAVY	CH NAV OPNS	5	WASHINGTON	BUR 205			L	S	317
NAVY	CH NAV OPNS	5	WASHINGTON		IBM 7070	IBM 7070	L	AS	131
NAVY	CH NAV OPNS	5	WASHINGTON		IBM 1401	IBM 1401	L	AS	139
NAVY	CH NAV OPNS	5	WASHINGTON	BEN G15	BEN G15	BEN G15	P	S	170
NAVY	CH NAV OPNS	6	WASHINGTON	REM SS80	REM SS80		L	A	214
NAVY	CH NAV OPNS	6	WASHINGTON			NOT DET	L	A	176
NAVY	CH NAV OPNS	7	WASHINGTON	IBM 650	IBM 650		L	S	238
NAVY	CH NAV OPNS	7	WASHINGTON			NOT DET	L	S	176
NAVY	CH NAV OPNS	8	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	A	229
NAVY	SHIPS	8	WASHINGTON	IBM 7070	IBM 7070	IBM 7070	L	A	253
NAVY	SHIPS	8	WASHINGTON		IBM 1401	IBM 1401	L	A	191
NAVY	SHIPS	8	WASHINGTON	ROY LG30			L	S	144
NAVY	SHIPS	8	WASHINGTON		IBM 1620	IBM 1620	L	S	130
NAVY	SHIPS	8	WASHINGTON		CXPO	CXPO	P	S	50
NAVY	SHIPS	9	PORTSMOUTH NH	IBM 650	IBM 650	IBM 650	L	AS	293
NAVY	SHIPS	9	PORTSMOUTH NH		IBM 1401	IBM 1401	L	AS	124
NAVY	SHIPS	10	BOSTON	BUR 205	BUR 205		L	AS	410
NAVY	SHIPS	10	BOSTON		IBM 1401	IBM 1401	L	AS	159
NAVY	SHIPS	10	BOSTON	IBM 650	IBM 650	NOT DET	L	S	176
NAVY	SHIPS	11	NEW YORK				L	A	350
NAVY	SHIPS	11	NEW YORK	REM UII	REM UII	NCR 304	L	A	176
NAVY	SHIPS	12	PHILADELPHIA	IBM 650	IBM 650	REM UII	L	A	310
NAVY	SHIPS	13	NORFOLK	IBM 305	IBM 305	IBM 650	L	AS	474
NAVY	SHIPS	14	CHARLESTON SC	BEN G15		IBM 305	L	A	529
NAVY	SHIPS	14	CHARLESTON SC		RCA 501		L	S	155
NAVY	SHIPS	14	CHARLESTON SC		RCA 301	RCA 501	L	AS	176
NAVY	SHIPS	15	LONG BEACH CAL	BUR 220	BUR 220	RCA 301	L	AS	178
NAVY	SHIPS	15	LONG BEACH CAL			BUR 220	L	A	304
NAVY	SHIPS	16	SAN FRANCISCO			NOT DET	L	A	176
NAVY	SHIPS	16	SAN FRANCISCO	REM UFC1	REM UFC1	NOT DET	L	AS	176
NAVY	SHIPS	17	SAN FRANCISCO	IBM 705	IBM 705	REM UFC1	L	AS	589
NAVY	SHIPS	17	SAN FRANCISCO	IBM 1401	IBM 1401	IBM 705	L	AS	397
NAVY	SHIPS	17	SAN FRANCISCO			IBM 1401	L	AS	383
NAVY	SHIPS	18	BREMERTON WASH	IBM 650	IBM 650	NOT DET	L	A	176
NAVY	SHIPS	18	BREMERTON WASH	IBM 1401	IBM 1401		L	A	245
NAVY	SHIPS	18	BREMERTON WASH				L	A	292
NAVY	SHIPS	18	BREMERTON WASH			IBM 1410	L	A	176
NAVY	SHIPS	18	BREMERTON WASH		ROY 4000	IBM 1401	L	A	176
NAVY	SHIPS	19	HONOLULU		IBM 1401	ROY 4000	L	S	102
NAVY	SHIPS	20	NEW LONDON CON	BUR 205	BUR 205	IBM 1401	L	A	264
NAVY	SHIPS	20	NEW LONDON CON				L	S	254
NAVY	SHIPS	21	BALTIMORE	BEN G15	BEN G15	IBM 704	P	S	176
NAVY	SHIPS	21	BALTIMORE		IBM 1401		L	S	208
NAVY	SHIPS	22	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	S	176
NAVY	SHIPS	22	WASHINGTON	BUR E102	BUR E102	IBM 1401	L	S	183
NAVY	SHIPS	22	WASHINGTON	ELT ALW2		BUR E102	P	S	167
NAVY	SHIPS	22	WASHINGTON		ELT ALW3	ELT ALW3	P	S	89
NAVY	SHIPS	22	WASHINGTON	ELT ALW3	ELT ALW3	ELT ALW3	P	S	127
NAVY	SHIPS	22	WASHINGTON	REM UI	REM UI	REM UI	P	AS	409
NAVY	SHIPS	22	WASHINGTON	CXPO			P	S	
NAVY	SHIPS	22	WASHINGTON	REM LARC	REM LARC	REM LARC	P	S	320
NAVY	SHIPS	22	WASHINGTON		REM UI	REM UI	P	S	80
NAVY	SHIPS	22	WASHINGTON	IBM 7090	IBM 7090	IBM 7090	L	S	183
NAVY	SHIPS	22	WASHINGTON	BUR 205			L	S	193
NAVY	SHIPS	23	PANAMA CITY FL		IBM 704	IBM 704	P	S	420
NAVY	SHIPS	23	PANAMA CITY FL						

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE OR COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
NAVY	SHIPS	24	SAN DIEGO	BUR 220			L	S	472
NAVY	SHIPS	24	SAN DIEGO		CDC 1604	CDC 1604	L	S	115
NAVY	SHIPS	25	SAN FRANCISCO	BUR 205			L	S	479
NAVY	SHIPS	25	SAN FRANCISCO		IBM 704	IBM 704	P	S	624
NAVY	SUP AND ACCTS	26	JERSEY CITY	IBM 650			L	AP	256
NAVY	SUP AND ACCTS	26	JERSEY CITY	IBM 1401	IBM 1401	IBM 1401	L	AP	250
NAVY	SUP AND ACCTS	26	JERSEY CITY		IBM 1401		L	AP	210
NAVY	SUP AND ACCTS	26	JERSEY CITY			IBM 1410	L	AP	202
NAVY	SUP AND ACCTS	27	NORFOLK			IBM 1401	L	AP	202
NAVY	SUP AND ACCTS	27	NORFOLK			IBM 1410	L	AP	255
NAVY	SUP AND ACCTS	28	OAKLAND	IBM 1401	IBM 1401	IBM 1401	L	AP	353
NAVY	SUP AND ACCTS	28	OAKLAND	IBM 650			L	AP	244
NAVY	SUP AND ACCTS	28	OAKLAND	PHI 2000	PHI 2000	PHI 2000	L	AP	512
NAVY	SUP AND ACCTS	28	OAKLAND		IBM 1401	IBM 1401	L	AP	210
NAVY	SUP AND ACCTS	29	HONOLULU			IBM 305	L	AP	175
NAVY	SUP AND ACCTS	29	HONOLULU	IBM 1401	IBM 1401		L	AP	250
NAVY	SUP AND ACCTS	30	SAN DIEGO			IBM 1410	L	AP	176
NAVY	SUP AND ACCTS	30	SAN DIEGO	IBM 650	IBM 650		L	AP	305
NAVY	SUP AND ACCTS	30	SAN DIEGO			IBM 1410	L	AP	202
NAVY	SUP AND ACCTS	31	CHICAGO			IBM 1401	L	AP	189
NAVY	SUP AND ACCTS	32	NEWPORT RI		IBM 1401	IBM 1401	L	AP	157
NAVY	SUP AND ACCTS	32	NEWPORT RI	IBM 305	IBM 305		L	AP	378
NAVY	SUP AND ACCTS	33	PHILADELPHIA			IBM 1410	L	AP	189
NAVY	SUP AND ACCTS	33	PHILADELPHIA	IBM 705	IBM 705		L	P	390
NAVY	SUP AND ACCTS	33	PHILADELPHIA	IBM 705	IBM 705		L	P	390
NAVY	SUP AND ACCTS	33	PHILADELPHIA	IBM 1401	IBM 1401	IBM 1401	L	P	260
NAVY	SUP AND ACCTS	33	PHILADELPHIA	IBM 1401	IBM 1401	IBM 1401	L	P	260
NAVY	SUP AND ACCTS	33	PHILADELPHIA	IBM 1401	IBM 1401	IBM 1401	L	P	260
NAVY	SUP AND ACCTS	33	PHILADELPHIA		IBM 1401	IBM 1401	L	P	260
NAVY	SUP AND ACCTS	33	PHILADELPHIA			IBM 1401	L	P	260
NAVY	SUP AND ACCTS	33	PHILADELPHIA			IBM 1410	L	P	260
NAVY	SUP AND ACCTS	34	CHICAGO			IBM 1410	L	P	390
NAVY	SUP AND ACCTS	34	CHICAGO	REM UII	REM UII	REM UII	P	P	390
NAVY	SUP AND ACCTS	35	HARRISBURG	REM SS80	REM SS80	REM SS80	L	P	533
NAVY	SUP AND ACCTS	35	HARRISBURG	BUR 220	BUR 220	BUR 220	L	P	527
NAVY	SUP AND ACCTS	35	HARRISBURG		BUR 220	BUR 220	L	P	400
NAVY	SUP AND ACCTS	35	HARRISBURG	IBM 705			L	P	400
NAVY	SUP AND ACCTS	35	HARRISBURG		IBM 7080	IBM 7080	L	P	560
NAVY	SUP AND ACCTS	35	HARRISBURG	IBM 1401	IBM 1401	IBM 1401	L	P	250
NAVY	SUP AND ACCTS	35	HARRISBURG	IBM 1401	IBM 1401	IBM 1401	L	P	520
NAVY	SUP AND ACCTS	37	WASHINGTON		IBM 1401	IBM 1401	L	A	520
NAVY	MARINE CORPS	38	PHILADELPHIA	REM SS80	REM SS80	REM SS80	L	AP	250
NAVY	MARINE CORPS	38	PHILADELPHIA	REM UFC1	REM UFC1	REM UFC1	L	P	258
NAVY	MARINE CORPS	38	PHILADELPHIA	REM SS80	REM SS80	REM SS80	L	P	450
NAVY	MARINE CORPS	39	NEW BERN NC		IBM 1401	IBM 1401	L	AP	479
NAVY	MARINE CORPS	39	NEW BERN NC	NCR 304	NCR 304	NCR 304	L	P	96
NAVY	MARINE CORPS	40	SAN DIEGO			IBM 1401	L	AP	330
NAVY	MARINE CORPS	40	SAN DIEGO	NCR 304	NCR 304	NCR 304	L	P	137
NAVY	MARINE CORPS	41	QUANTICO		IBM 1401	IBM 1401	L	AP	254
NAVY	MARINE CORPS	42	WASHINGTON		IBM 1401	IBM 1401	L	AP	89
NAVY	MARINE CORPS	42	WASHINGTON	NCR 304	NCR 304	NCR 304	L	AP	100
NAVY	MARINE CORPS	43	ALBANY GA		IBM 1401	IBM 1401	L	AP	303
NAVY	MARINE CORPS	43	ALBANY GA	REM UFC1	REM UFC1	REM UFC1	L	P	90
NAVY	MARINE CORPS	44	SAN BERNARDINO		IBM 1401	IBM 1401	L	P	429
NAVY	MARINE CORPS	44	SAN BERNARDINO	REM UFC1	REM UFC1	REM UFC1	L	A	100
NAVY	MARINE CORPS	45	SAN FRANCISCO		IBM 1401	IBM 1401	L	P	384
NAVY	ADMIN OFFICE	46	WASHINGTON			IBM 1401	L	AP	138
NAVY	PERSONNEL	47	WASHINGTON	IBM 650	IBM 650	IBM 650	L	A	200
NAVY	PERSONNEL	47	WASHINGTON	IBM 705			L	AS	235
NAVY	PERSONNEL	47	WASHINGTON		IBM 7080	IBM 7080	L	AP	540
NAVY	PERSONNEL	47	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	AP	220
NAVY	PERSONNEL	47	WASHINGTON		IBM 1401	IBM 1401	L	AP	300
NAVY	PERSONNEL	47	WASHINGTON		IBM 1401	IBM 1401	L	AP	300
NAVY	PERSONNEL	47	WASHINGTON	ROY LG30			L	AP	180
NAVY	PERSONNEL	48	MONTEREY CAL		RCA 301	RCA 301	L	S	308
NAVY	PERSONNEL	48	MONTEREY CAL	NCR 102			S	S	102
NAVY	PERSONNEL	48	MONTEREY CAL	CDC 1604	CDC 1604	CDC 1604	P	AS	40
NAVY	PERSONNEL	48	MONTEREY CAL	CDC 160	CDC 160	CDC 160	P	AS	535
NAVY	PERSONNEL	49	SAN DIEGO		IBM 1401	IBM 1401	L	AS	225
NAVY	PERSONNEL	49	SAN DIEGO	IBM 650			L	P	390
NAVY	PERSONNEL	49	SAN DIEGO	IBM 1401	IBM 1401	IBM 1401	L	P	240
NAVY	PERSONNEL	50	NORFOLK		IBM 1401	IBM 1401	L	P	240
NAVY	PERSONNEL	50	NORFOLK	IBM 650			L	P	350
NAVY	PERSONNEL	50	NORFOLK	IBM 1401	IBM 1401	IBM 1401	L	P	220
NAVY	PERSONNEL	51	CHICAGO		IBM 1401	IBM 1401	L	P	220
NAVY	PERSONNEL	51	CHICAGO	IBM 650			L	P	127
NAVY	PERSONNEL	52	BAINBRIDGE MD		IBM 1401	IBM 1401	L	P	125
NAVY	PERSONNEL	52	BAINBRIDGE MD	IBM 650			L	P	370
NAVY	PERSONNEL	52	BAINBRIDGE MD	IBM 1401	IBM 1401	IBM 1401	L	P	175
NAVY	PERSONNEL	53	BALTIMORE		IBM 1401	IBM 1401	L	P	175
NAVY	PERSONNEL	53	BALTIMORE		IBM 1620	IBM 1620	L	X	190
NAVY	NAVAL RESEARCH	55	WASHINGTON		IBM 1401	IBM 1401	L	AP	150
NAVY	NAVAL RESEARCH	55	WASHINGTON	NAREC	NAREC	NAREC	P	S	292
NAVY	WEAPONS	56	SAN FRANCISCO		IBM 1401	IBM 1401	L	A	125
NAVY	WEAPONS	57	CHARLESTON SC	HON 800	HON 800	HON 800	L	A	
NAVY	WEAPONS	58	CHERRY POINT		MON XI	MON XI	L	S	180
NAVY	WEAPONS	58	CHERRY POINT		IBM 1401	IBM 1401	L	A	333
NAVY	WEAPONS	59	CHINA LAKE CAL			NOT DET	L	A	176
NAVY	WEAPONS	59	CHINA LAKE CAL	IBM 7090	IBM 7090	IBM 7090	L	S	176
NAVY	WEAPONS	59	CHINA LAKE CAL		IBM 1620	IBM 1620	L	S	176
NAVY	WEAPONS	59	CHINA LAKE CAL	IBM 1401	IBM 1401	IBM 1401	L	S	176
NAVY	WEAPONS	59	CHINA LAKE CAL		IBM 1401	IBM 1401	L	S	176
NAVY	WEAPONS	59	CHINA LAKE CAL	ROY LG30			L	S	80
NAVY	WEAPONS	59	CHINA LAKE CAL		IBM 1620	IBM 1620	L	S	176
NAVY	WEAPONS	60	SAN BERNARDINO		REM 490	REM 490	L	S	176
NAVY	WEAPONS	61	SAN BERNARDINO	IBM 7070	REM SS80	REM SS80	L	AS	147
NAVY	WEAPONS	61	SAN BERNARDINO		IBM 7070	IBM 7070	L	S	212
NAVY	WEAPONS	62	CORPUS CHRISTI		IBM 1401	IBM 1401	L	S	212
NAVY	WEAPONS	63	CRANE IND		IBM 1401	IBM 1401	L	A	178
NAVY	WEAPONS	64	DAHLGREN VA	IBM 1620	IBM 1620	IBM 1620	L	S	157
NAVY	WEAPONS	64	DAHLGREN VA	NORC	NORC	NORC	P	S	578
NAVY	WEAPONS	64	DAHLGREN VA	IBM 7090	IBM 7090	IBM 7090	L	AS	407
NAVY	WEAPONS	64	DAHLGREN VA		IBM 1401	IBM 1401	L	AS	407
NAVY	WEAPONS	65	LOS ANGELES	IBM 1401	IBM 1401	IBM 7030	L	S	176
NAVY	WEAPONS	66	WASHINGTON	RCA 501	RCA 501	IBM 1401	L	A	143
						RCA 501	L	S	200

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
NAVY	WEAPONS	66	WASHINGTON		IBM 1401	IBM 1401	L	A	176
NAVY	WEAPONS	67	INDIANAPOLIS	IBM 650	IBM 650	IBM 650	L	S	181
NAVY	WEAPONS	67	INDIANAPOLIS		GEL 225	GEL 225	L	S	176
NAVY	WEAPONS	68	JACKSONVILLE		IBM 1401	IBM 1401	L	A	500
NAVY	WEAPONS	68	JACKSONVILLE			NOT DET	L	A	176
NAVY	WEAPONS	69	BALTIMORE	IBM 7090	IBM 7090	IBM 7090	L	P	272
NAVY	WEAPONS	69	BALTIMORE	IBM 1401	IBM 1401	IBM 1401	L	P	176
NAVY	WEAPONS	69	BALTIMORE		IBM 1401	IBM 1401	L	P	176
NAVY	WEAPONS	69	BALTIMORE		IBM 1401	IBM 1401	L	P	176
NAVY	WEAPONS	69	BALTIMORE		IBM 650	IBM 650	L	S	318
NAVY	WEAPONS	70	JOHNSVILLE PA	IBM 650	BEN G15	BEN G15	P	S	176
NAVY	WEAPONS	70	JOHNSVILLE PA	BEN G15		IBM 1401	L	AS	200
NAVY	WEAPONS	71	KEYPORT WASH			IBM 1620	L	S	176
NAVY	WEAPONS	72	KEY WEST FLA			CDC 1604	P	PS	176
NAVY	WEAPONS	73	MONTEREY CAL			CDC 160A	L	PS	176
NAVY	WEAPONS	73	MONTEREY CAL			CDC 160A	L	PS	176
NAVY	WEAPONS	73	MONTEREY CAL			CDC 160A	L	PS	176
NAVY	WEAPONS	73	MONTEREY CAL			CDC 160A	P	PS	176
NAVY	WEAPONS	73	MONTEREY CAL				L	PS	176
NAVY	WEAPONS	73	MONTEREY CAL	IBM 1620	CDC 1604	CDC 1604	P	S	176
NAVY	WEAPONS	73	MONTEREY CAL	CDC 1604		IBM 1401	L	P	176
NAVY	WEAPONS	73	MONTEREY CAL		IBM 1401	IBM 1401	L	A	143
NAVY	WEAPONS	74	MACON GA	IBM 1401			L	S	240
NAVY	WEAPONS	75	NEWPORT RI	IBM 650	IBM 1620	IBM 1620	L	S	176
NAVY	WEAPONS	75	NEWPORT RI		IBM 1401	IBM 1401	L	A	440
NAVY	WEAPONS	76	NORFOLK	IBM 1401		NOT DET	L	A	176
NAVY	WEAPONS	76	NORFOLK		BEN G15	BEN G15	L	S	349
NAVY	WEAPONS	77	NORFOLK	BEN G15	RCA 501	RCA 501	L	A	200
NAVY	WEAPONS	78	SAN DIEGO		RCA 301	RCA 301	L	A	200
NAVY	WEAPONS	78	SAN DIEGO		IBM 1401	IBM 1401	L	AS	125
NAVY	WEAPONS	79	OAHU		BUR 204	BUR 204	P	S	140
NAVY	WEAPONS	80	PATUX RIV MD	BUR 204	BUR E101	BUR E101	P	S	140
NAVY	WEAPONS	80	PATUX RIV MD	BUR E101	PAB 250	PAB 250	P	S	140
NAVY	WEAPONS	80	PATUX RIV MD	PAB 250	IBM 1401	IBM 1401	L	A	330
NAVY	WEAPONS	81	PENSACOLA	IBM 1401		NOT DET	L	A	176
NAVY	WEAPONS	81	PENSACOLA		IBM 1401	IBM 1401	L	S	200
NAVY	WEAPONS	82	PHILADELPHIA	ELT ALW3	ELT ALW3	ELT ALW3	P	AS	176
NAVY	WEAPONS	83	PHILADELPHIA		ELT ALW3	ELT ALW3	P	AS	176
NAVY	WEAPONS	83	PHILADELPHIA	IBM 1620	IBM 1620	IBM 1620	L	AS	329
NAVY	WEAPONS	83	PHILADELPHIA		IBM 1401	IBM 1401	L	A	177
NAVY	WEAPONS	84	PHILADELPHIA	BEN G15	BEN G15	BEN G15	L	S	176
NAVY	WEAPONS	85	POINT MUGU CAL	BEN G15	BEN G15	BEN G15	L	S	176
NAVY	WEAPONS	85	POINT MUGU CAL	IBM 709			L	S	176
NAVY	WEAPONS	85	POINT MUGU CAL		IBM 7090	IBM 7090	L	S	176
NAVY	WEAPONS	85	POINT MUGU CAL		IBM 1401	IBM 1401	L	S	176
NAVY	WEAPONS	85	POINT MUGU CAL	IBM 1401	IBM 1401	IBM 1401	L	A	350
NAVY	WEAPONS	86	QUONSET PT RI			NOT DET	L	A	176
NAVY	WEAPONS	86	QUONSET PT RI			BEN G15	P	S	174
NAVY	WEAPONS	87	TRENTON	BEN G15	BEN G15	BUR E101	P	S	176
NAVY	WEAPONS	88	WASHINGTON	BUR E101	BUR E101	IBM 1401	L	A	176
NAVY	WEAPONS	89	WASHINGTON		IBM 1401	BEN G15	P	S	155
NAVY	WEAPONS	90	WASHINGTON	BEN G15	BEN G15		L	A	425
NAVY	WEAPONS	90	WASHINGTON	RCA 501	RCA 501		L	A	390
NAVY	WEAPONS	90	WASHINGTON	IBM 1401	IBM 1401		L	A	198
NAVY	WEAPONS	90	WASHINGTON		RCA 301		L	A	200
NAVY	WEAPONS	90	WASHINGTON		NCR 390	NCR 390	L	A	315
NAVY	WEAPONS	90	WASHINGTON			NOT DET	L	A	302
NAVY	WEAPONS	91	WASHINGTON	IBM 704			L	S	287
NAVY	WEAPONS	91	WASHINGTON		IBM 7090	IBM 7090	L	S	287
NAVY	WEAPONS	91	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	S	160
NAVY	WEAPONS					BUR E102	P	AS	410
NAVY	YARDS AND DOCKS	92	SAN DIEGO	IBM 1620	IBM 1620	IBM 1620	L	S	180
NAVY	YARDS AND DOCKS	93	PT HUENEME CAL	IBM 705	IBM 705	IBM 705	L	A	275
NAVY	YARDS AND DOCKS	94	PT HUENEME CAL	IBM 1401	IBM 1401	IBM 1401	L	A	300
NAVY	YARDS AND DOCKS	94	PT HUENEME CAL	NCR 304	NCR 304	NCR 304	L	AS	150
NAVY	YARDS AND DOCKS	95	WASHINGTON		IBM 1401	IBM 1401	L	A	92
NAVY	YARDS AND DOCKS	95	WASHINGTON	BUR E102			L	S	176
NAVY	YARDS AND DOCKS	95	WASHINGTON			NCR 390	L	A	150
NAVY	YARDS AND DOCKS	96	NORFOLK			NCR 390	L	A	160
NAVY	COMPTROLLER	97	PHILADELPHIA			NCR 390	L	A	160
NAVY	COMPTROLLER	98	WASHINGTON			NCR 390	L	A	160
NAVY	COMPTROLLER	98	WASHINGTON		IBM 1401	IBM 1401	L	A	160
NAVY	COMPTROLLER	99	WASHINGTON			IBM 7070	L	P	193
NAVY	COMPTROLLER	100	CLEVELAND	IBM 7070	IBM 7070	IBM 1401	L	P	134
NAVY	COMPTROLLER	100	CLEVELAND				L	APS	178
FAA	CONTROL SYS DIV	1	OKLAHOMA CITY	IBM 704	IBM 704		L	APS	191
FAA	CONTROL SYS DIV	1	OKLAHOMA CITY		IBM 1401		L	APS	151
FAA	CONTROL SYS DIV	1	OKLAHOMA CITY			NOT DET	L	P	480
FAA	AIR TRAFFIC SER	2	WASHINGTON	REM UFC1	REM UFC1		L	P	480
FAA	AIR TRAFFIC SER	2	WASHINGTON			REM UFC2	L	P	510
FAA	AIR TRAFFIC SER	3	BOSTON	REM UFC1	REM UFC1		L	P	510
FAA	AIR TRAFFIC SER	3	BOSTON			REM UFC2	L	P	480
FAA	AIR TRAFFIC SER	4	CLEVELAND	REM UFC1	REM UFC1		L	P	480
FAA	AIR TRAFFIC SER	4	CLEVELAND			REM UFC2	L	P	480
FAA	AIR TRAFFIC SER	5	INDIANAPOLIS	IBM 650	IBM 650		L	P	480
FAA	AIR TRAFFIC SER	5	INDIANAPOLIS			REM UFC2	L	P	480
FAA	AIR TRAFFIC SER	6	NEW YORK	REM UFC1	REM UFC1		L	P	480
FAA	AIR TRAFFIC SER	6	NEW YORK			NOT DET	L	P	480
FAA	AIR TRAFFIC SER	7	PITTSBURGH	REM UFC1	REM UFC1		L	P	480
FAA	RES AND DEVELOP	8	ATLANTIC CITY	IBM 7090	IBM 7090	IBM 7090	L	AS	211
FAA	RES AND DEVELOP	8	ATLANTIC CITY	IBM 1401	IBM 1401	IBM 1401	L	A	256
FAA	RES AND DEVELOP	8	ATLANTIC CITY			NOT DET	L	S	352
FAA	RES AND DEVELOP	8	ATLANTIC CITY			NOT DET	L	S	352
FAA	RES AND DEVELOP	8	ATLANTIC CITY			REM UFC1	L	S	176
FAA	RES AND DEVELOP	9	ATLANTIC CITY	REM UFC1	REM UFC1	IBM 305	L	A	346
FAA	RES AND DEVELOP	10	OKLAHOMA CITY	IBM 305	IBM 305	LIB ATC	P	X	
FAA	FL STANDARDS	11	ATLANTIC CITY	LIB ATC	LIB ATC	LIB ATC	P	X	
FAA	RES AND DEVELOP	11	ATLANTIC CITY	LIB ATC	LIB ATC	LIB ATC	P	X	
FAA	RES AND DEVELOP	11	ATLANTIC CITY	LIB ATC	LIB ATC	LIB ATC	P	X	
FCC	ADMINISTRATION	1	WASHINGTON			REM U111	P	PS	154
FPC	ADMINISTRATION	1	WASHINGTON			NOT DET	L	APS	176
FRS	FRS	1	WASHINGTON	IBM 650			L	AP	277

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
FRS	FRS	1	WASHINGTON		IBM 1410	IBM 1410	L	AP	277
GSA	REGION 1								
GSA	REGION 2	1	BOSTON		IBM 1401	IBM 1401	L	AP	110
GSA	REGION 3	2	NEW YORK		IBM 1401	IBM 1401	L	AP	220
GSA	REGION 3	3	WASHINGTON	RCA 501			L	AP	312
GSA	REGION 4	3	WASHINGTON		IBM 1410	IBM 1410	L	AP	535
GSA	REGION 4	4	ATLANTA	IBM 305			L	AP	261
GSA	REGION 5	4	ATLANTA		IBM 1401	IBM 1401	L	AP	224
GSA	REGION 6	5	CHICAGO		IBM 1401	IBM 1401	L	AP	200
GSA	REGION 6	6	KANSAS CITY	IBM 305			L	AP	225
GSA	REGION 7	6	KANSAS CITY		IBM 1401	IBM 1401	L	AP	188
GSA	REGION 7	7	DALLAS	IBM 305			L	AP	217
GSA	REGION 8	7	DALLAS		IBM 1401	IBM 1401	L	AP	220
GSA	REGION 8	8	DENVER	IBM 305			L	AP	257
GSA	REGION 9	8	DENVER		IBM 1401	IBM 1401	L	AP	174
GSA	REGION 9	9	SAN FRANCISCO	IBM 305			L	AP	261
GSA	REGION 10	9	SAN FRANCISCO		IBM 1401	IBM 1401	L	AP	306
		10	SEATTLE		IBM 1401	IBM 1401	L	AP	165
HEW	SOCIAL SECURITY	1	BALTIMORE	IBM 705			L	P	520
HEW	SOCIAL SECURITY	1	BALTIMORE	IBM 705			L	P	562
HEW	SOCIAL SECURITY	1	BALTIMORE	IBM 705	IBM 705	IBM 705	L	P	472
HEW	SOCIAL SECURITY	1	BALTIMORE		IBM 7080	IBM 7080	L	AP	442
HEW	SOCIAL SECURITY	1	BALTIMORE		IBM 7080	IBM 7080	L	P	372
HEW	SOCIAL SECURITY	1	BALTIMORE	IBM 1401	IBM 1401	IBM 1401	L	AP	491
HEW	SOCIAL SECURITY	1	BALTIMORE	IBM 1401	IBM 1401	IBM 1401	L	P	490
HEW	SOCIAL SECURITY	1	BALTIMORE	IBM 1401	IBM 1401	IBM 1401	L	P	445
HEW	SOCIAL SECURITY	1	BALTIMORE		IBM 1401	IBM 1401	L	P	450
HEW	SOCIAL SECURITY	1	BALTIMORE		IBM 1401	IBM 1401	L	P	488
HEW	SOCIAL SECURITY	1	BALTIMORE		IBM 1401	IBM 1401	L	P	511
HEW	SOCIAL SECURITY	1	BALTIMORE		IBM 1401	IBM 1401	L	P	479
HEW	SOCIAL SECURITY	2	BIRMINGHAM			IBM 1401	L	P	219
HEW	SOCIAL SECURITY	2	CHICAGO	RCA 501	RCA 501	RCA 501	L	P	150
HEW	SOCIAL SECURITY	2	KANSAS CITY	RCA 501	RCA 501	RCA 501	L	P	140
HEW	SOCIAL SECURITY	2	PHILADELPHIA	RCA 501	RCA 501	RCA 501	L	P	160
HEW	SOCIAL SECURITY	2	BIRMINGHAM		RCA 501	RCA 501	L	P	290
HEW	SOCIAL SECURITY	2	CHICAGO		RCA 301	RCA 301	L	P	160
HEW	SOCIAL SECURITY	2	KANSAS CITY		RCA 301	RCA 301	L	P	170
HEW	SOCIAL SECURITY	2	NEW YORK		RCA 301	RCA 301	L	P	150
HEW	SOCIAL SECURITY	2	PHILADELPHIA		RCA 301	RCA 301	L	P	160
HEW	SOCIAL SECURITY	2	SAN FRANCISCO		RCA 301	RCA 301	L	P	200
HEW	GENERAL SERV	3	WASHINGTON		RCA 301	RCA 301	L	P	120
HEW	PUBLIC HEALTH	4	WASHINGTON	IBM 650			L	APS	115
HEW	PUBLIC HEALTH	4	WASHINGTON		HON 800	HON 800	L	AS	350
HEW	PUBLIC HEALTH	5	WASHINGTON		IBM 1620	IBM 1620	L	AS	350
HEW	PUBLIC HEALTH	6	WASHINGTON		MON XI	MON XI	L	S	170
HEW	PUBLIC HEALTH	7	WASHINGTON			MNEMO	L	S	170
HEW	PUBLIC HEALTH	8	WASHINGTON			LINC	P	S	170
HEW	PUBLIC HEALTH	9	WASHINGTON		IBM 1401	IBM 1401	L	AP	236
HEW	PUBLIC HEALTH	9	WASHINGTON		IBM 1410	IBM 1410	L	P	193
HEW	PUBLIC HEALTH	10	WASHINGTON	IBM 1620	IBM 1620	IBM 1620	L	APS	160
		11	CINCINNATI		HON 400	HON 400	L	APS	120
HHFA	FED HOUSING ADM	1	WASHINGTON	IBM 650					
HHFA	FED HOUSING ADM	1	WASHINGTON		IBM 1401	IBM 1401	L	AP	280
HHFA	FED HOUSING ADM	1	WASHINGTON		IBM 7070	IBM 7070	L	AP	240
							L	AP	176
INT	BONNEVILLE POWR	1	PORTLAND ORE	IBM 650	IBM 650				
INT	BONNEVILLE POWR	1	PORTLAND ORE			IBM 1401	P	ASP	325
INT	BONNEVILLE POWR	2	PORTLAND ORE	BEN G15			P	ASP	160
INT	GEOLOGICAL SURV	3	WASHINGTON	BUR 220	BUR 220	BUR 220	P	S	160
INT	GEOLOGICAL SURV	4	SAN FRANCISCO		ROY 4000	ROY 4000	L	AS	203
INT	MINES	5	DENVER			GEL 225	L	S	80
INT	MINES	6	TULSA		BEN G15	BEN G15	L	S	166
INT	RECLAMATION	7	DENVER	IBM 650	IBM 650	IBM 650	P	S	30
INT	RECLAMATION	8	SALT LAKE CITY	BEN G15	BEN G15	BEN G15	L	AS	232
INT	RECLAMATION	9	MCCOOK NEBR	BEN G15	BEN G15	BEN G15	L	S	250
INT	SW POWER ADM	10	TULSA	IBM 1620	IBM 1620	IBM 1620	L	S	130
							L	S	176
ICC	TRANSPORT ECON	1	WASHINGTON	IBM 305	IBM 305				
ICC	TRANSPORT ECON	1	WASHINGTON			RCA 301	L	AP	179
							L	AP	200
JUST	FBI	1	WASHINGTON	IBM 650					
JUST	FBI	1	WASHINGTON	IBM 1401	IBM 1401	IBM 1401	L	AC	348
JUST	FBI	1	WASHINGTON	IBM 7070	IBM 7070	IBM 7070	L	AC	280
JUST	FBI	2	WASHINGTON	IBM 650	IBM 650	IBM 650	L	AC	100
							L	C	174
LABOR	LABOR STAT	1	WASHINGTON	IBM 650					
LABOR	LABOR STAT	1	WASHINGTON		IBM 650				
LABOR	LABOR STAT	1	WASHINGTON		IBM 1401	IBM 1401	L	P	350
						IBM 7070	L	P	200
NASA	HEADQUARTERS	1	WASHINGTON	NAA REC2	NAA REC2				125
NASA	HEADQUARTERS	1	WASHINGTON			IBM 1620	L	S	160
NASA	AMES RES CN	2	MOUNTAIN V CAL	BUR 204	BUR 204		L	S	160
NASA	AMES RES CN	2	MOUNTAIN V CAL	BUR 205	BUR 205		P	S	109
NASA	AMES RES CN	2	MOUNTAIN V CAL	IBM 704			P	SX	145
NASA	AMES RES CN	2	MOUNTAIN V CAL	IBM 1401	IBM 1401	IBM 1401	L	SX	238
NASA	AMES RES CN	2	MOUNTAIN V CAL			IBM 1401	L	SX	168
NASA	AMES RES CN	2	MOUNTAIN V CAL		IBM 7090		L	SX	176
NASA	AMES RES CN	2	MOUNTAIN V CAL			IBM 7094	L	SX	143
NASA	AMES RES CN	3	MOUNTAIN V CAL		HON 800	HON 800	L	SX	176
NASA	FLIGHT RES CN	4	BAKERSFIELD	IBM 650		MNEMO	L	S	137
NASA	FLIGHT RES CN	4	BAKERSFIELD		IBM 704		P	X	30
NASA	LANGLEY RES CN	5	NEWPT NEWS VA	IBM 1401	IBM 1401	IBM 704	L	AS	176
NASA	LANGLEY RES CN	5	NEWPT NEWS VA			IBM 1401	P	AS	176
							L	AS	176
						IBM 1401	L	A	118
							L	A	170

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P), LEASE (L)	USE CODE	HOURS USED PER MONTH
NASA	LANGLEY RES CN	6	NEWPT NEWS VA	IBM 650			L	S	175
NASA	LANGLEY RES CN	6	NEWPT NEWS VA	IBM 7090	IBM 7090		L	S	245
NASA	LANGLEY RES CN	6	NEWPT NEWS VA	IBM 1401	IBM 1401	IBM 1401	L	S	225
NASA	LANGLEY RES CN	6	NEWPT NEWS VA		IBM 1620	IBM 1620	L	S	200
NASA	LANGLEY RES CN	6	NEWPT NEWS VA			NOT DET	L	S	190
NASA	LANGLEY RES CN	6	NEWPT NEWS VA				L	S	180
NASA	LANGLEY RES CN	7	NEWPT NEWS VA	IBM 650			L	S	180
NASA	LANGLEY RES CN	7	NEWPT NEWS VA	IBM 7070	IBM 7070	IBM 7070	L	S	190
NASA	LANGLEY RES CN	7	NEWPT NEWS VA	IBM 1401	IBM 1401	IBM 1401	L	S	120
NASA	LANGLEY RES CN	7	NEWPT NEWS VA		IBM 1620	IBM 1620	L	S	481
NASA	LANGLEY RES CN	7	NEWPT NEWS VA				P	S	300
NASA	LEWIS RES CN	8	CLEVELAND	IBM 704		IBM 1401	L	A	240
NASA	LEWIS RES CN	8	CLEVELAND	IBM 1401	IBM 1401	IBM 7090	L	S	240
NASA	LEWIS RES CN	8	CLEVELAND		IBM 7090	IBM 1401	L	S	302
NASA	LEWIS RES CN	8	CLEVELAND		IBM 1401	REM 1103	P	S	176
NASA	LEWIS RES CN	9	CLEVELAND	REM 1103	REM 1103	NAA REC2	L	AS	176
NASA	LEWIS RES CN	10	SANDUSKY OHIO		NAA REC2	IBM 1620	L	S	150
NASA	LEWIS RES CN	11	NEWPT NEWS VA	IBM 1620	IBM 1620	NAA REC2	L	S	176
NASA	MANNED SP FL CN	12	HOUSTON		NAA REC2	IBM 1620	L	S	200
NASA	MANNED SP FL CN	13	HOUSTON		IBM 1620	IBM 7090	L	S	200
NASA	MANNED SP FL CN	14	NEWPT NEWS VA		IBM 7090		L	S	114
NASA	MANNED SP FL CN	14	NEWPT NEWS VA	IBM 704			L	S	78
NASA	MANNED SP FL CN	15	HUNTSVILLE ALA	BEN G15	BEN G15	BEN G15	L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	BUR E101			L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	BUR 205			L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	BUR 205			L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	BUR 205			L	S	176
NASA	MARSHL SP FL CN	16	CAPE CANAVERAL	BUR 205	BUR 205		L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	BUR 205	BUR 205		L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA				L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA		GEL 225	GEL 225	L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA		GEL 225	GEL 225	L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA		GEL 225	GEL 225	L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA		GEL 225	GEL 225	L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA			GEL 225	L	S	176
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA				L	S	92
NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA				L	A	528
NASA	MARSHL SP FL CN	17	HUNTSVILLE ALA	LIB L500	LIB L500		L	A	528
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 705	IBM 705	IBM 705	L	A	528
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 705	IBM 705	IBM 705	L	A	528
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 7090	IBM 7090	IBM 7090	L	S	528
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 7090	IBM 7090	IBM 7090	L	S	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1401	IBM 1401	IBM 1401	L	S	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1401	IBM 1401	IBM 1401	L	S	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1401	IBM 1401	IBM 1401	L	S	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1401	IBM 1401	IBM 1401	L	S	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA		IBM 1401	IBM 1401	L	S	350
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA		IBM 1401	IBM 1401	L	A	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA		IBM 1401	IBM 1401	L	A	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA		IBM 1401	IBM 1401	L	A	352
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA		IBM 1620	IBM 1620	L	S	75
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1620	IBM 1620	IBM 1620	L	S	75
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1620	IBM 1620	IBM 1620	L	S	75
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1620	IBM 1620	IBM 1620	L	S	75
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	IBM 1620	IBM 1620	IBM 1620	L	S	135
NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	NAA REC2	NAA REC2	NAA REC2	L	S	135
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	NAA REC2	NAA REC2	NAA REC2	L	S	135
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	NAA REC2	NAA REC2	NAA REC2	L	S	135
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA		NAA REC2	NAA REC2	L	S	135
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA		NAA REC2	NAA REC2	L	S	135
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA		NAA REC2	NAA REC2	L	S	135
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA		NAA REC2	NAA REC2	L	S	135
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA		NAA REC3	NAA REC3	L	S	120
NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA		PAB 250	PAB 250	L	S	90
NASA	MARSHL SP FL CN	20	HUNTSVILLE ALA		ROY LG30	ROY LG30	L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	ROY LG30	ROY LG30	ROY LG30	L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	ROY LG30	ROY LG30		L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	ROY LG30	ROY LG30		L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	ROY LG30	ROY LG30	ROY LG30	L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	ROY LG30	ROY LG30		L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	ROY 4000			L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA		ROY 4000	ROY 4000	L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	ROY 4000	ROY 4000	ROY 4000	L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA		ROY 4000	ROY 4000	L	S	90
NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA		IBM 650	IBM 650	L	AS	167
NASA	WALLOPS STATION	22	WALLOPS IS VA	IBM 650			L	AS	167
NASA	WALLOPS STATION	22	WALLOPS IS VA			NOT DET	L	A	120
NASA	GODDARD SFC	23	WASHINGTON			NOT DET	L	S	120
NASA	GODDARD SFC	24	WASHINGTON			CDC 160A	L	S	60
NASA	GODDARD SFC	25	WASHINGTON		CDC 160A	BEN G15	L	S	50
NASA	GODDARD SFC	25	WASHINGTON	BUR E102	BUR E102	BUR E102	P	S	60
NASA	GODDARD SFC	25	WASHINGTON			ASI 210	L	S	40
NASA	GODDARD SFC	25	WASHINGTON	ROY LG30	ROY LG30	ROY LG30	P	S	60
NASA	GODDARD SFC	25	WASHINGTON		CDC 160	CDC 160	L	S	100
NASA	GODDARD SFC	25	WASHINGTON		IBM 1401	IBM 1401	L	S	40
NASA	GODDARD SFC	25	WASHINGTON		ROY LG30	ROY LG30	L	S	347
NASA	GODDARD SFC	25	WASHINGTON	ROY LG30	IBM 7090	IBM 7090	L	S	140
NASA	GODDARD SFC	25	WASHINGTON	IBM 7090		NOT DET	L	S	120
NASA	GODDARD SFC	25	WASHINGTON		IBM 1401	IBM 1401	L	P	100
NASA	GODDARD SFC	26	WASHINGTON		CDC 160	CDC 160	L	P	100
NASA	GODDARD SFC	26	WASHINGTON	CDC 160	CDC 160A	CDC 160A	L	P	140
NASA	GODDARD SFC	26	WASHINGTON		IBM 7090	IBM 7090	L	P	140
NASA	GODDARD SFC	26	WASHINGTON	IBM 7090	IBM 7090	IBM 7090	L	P	140
NASA	GODDARD SFC	26	WASHINGTON	IBM 7090	IBM 7090	IBM 7090	L	P	140
NASA	GODDARD SFC	26	WASHINGTON		IBM 1401	IBM 1401	L	P	120
NASA	GODDARD SFC	26	WASHINGTON		RCA 301	RCA 301	L	P	140
NASA	GODDARD SFC	26	WASHINGTON	CDC 160	CDC 160	CDC 160	L	S	100
NASA	GODDARD SFC	26	WASHINGTON		IBM 1401	IBM 1401	L	S	100
NASA	GODDARD SFC	26	WASHINGTON		GEN ECS	GEN ECS	P	S	70
NASA	GODDARD SFC	26	WASHINGTON			NOT DET	L	S	140
NASA	GODDARD SFC	26	WASHINGTON			NOT DET	L	S	140
NASA	GODDARD SFC	26	WASHINGTON			NOT DET	L	PS	140
NASA	GODDARD SFC	26	WASHINGTON			NOT DET	P	P	140
NASA	GODDARD SFC	26	WASHINGTON			NOT DET	L	S	100
OEP	NAT RES EVAL C	1	NAT RES EVAL C	REM 1103	REM 1103	REM 1103	P	SC	600
PO	REGION 1	1	BOSTON	IBM 650	IBM 650	IBM 650	L	A	205

Table 2 – Continued

DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
PO	REGION 2	2	NEW YORK	IBM 650	IBM 650	IBM 650	L	A	188
PO	REGION 2	2	NEW YORK	IBM 650	IBM 650	IBM 650	L	A	197
PO	REGION 3	3	PHILADELPHIA	IBM 650	IBM 650	IBM 650	L	A	208
PO	REGION 4	4	CINCINNATI	IBM 650	IBM 650	IBM 650	L	A	212
PO	REGION 5	5	RICHMOND	IBM 650	IBM 650	IBM 650	L	A	183
PO	REGION 6	6	ATLANTA	IBM 650	IBM 650	IBM 650	L	A	208
PO	REGION 7	7	CHICAGO	IBM 650	IBM 650	IBM 650	L	A	184
PO	REGION 7	7	CHICAGO	IBM 650	IBM 650	IBM 650	L	A	188
PO	REGION 8	8	ST LOUIS	IBM 650	IBM 650	IBM 650	L	A	164
PO	REGION 9	9	MINNEAPOLIS	IBM 650	IBM 650	IBM 650	L	A	158
PO	REGION 10	11	DALLAS	IBM 650	IBM 650	IBM 650	L	A	152
PO	REGION 12	12	SAN FRANCISCO	IBM 650	IBM 650	IBM 650	L	A	213
RRB	WAGE SERV REC	1	CHICAGO	IBM 7070	IBM 7070	IBM 7070	L	P	264
RRB	WAGE SERV REC	1	CHICAGO	IBM 1401	IBM 1401	IBM 1401	L	P	220
SBA	SBA	1	WASHINGTON	REM SS90	REM SS90	REM SS90	L	AP	176
STATE	ADMINISTRATION	1	WASHINGTON			IBM 1401	L	A	176
TREAS	ACCOUNTS	1	CHICAGO	IBM 7070	IBM 7070	IBM 7070	L	P	324
TREAS	ACCOUNTS	2	PHILADELPHIA		IBM 1401	IBM 1401	L	P	213
TREAS	ACCOUNTS	2	PHILADELPHIA		IBM 1401	IBM 1401	L	P	244
TREAS	ACCOUNTS	2	PHILADELPHIA		IBM 1401	IBM 1401	L	P	272
TREAS	ACCOUNTS	3	KANSAS CITY		IBM 1401	IBM 1401	L	P	238
TREAS	ACCOUNTS	4	SAN FRANCISCO			IBM 1401	P	P	314
TREAS	ACCOUNTS	5	BIRMINGHAM			IBM 1401	P	P	329
TREAS	COAST GUARD	6	WASHINGTON	IBM 305	IBM 305		L	A	200
TREAS	COAST GUARD	6	WASHINGTON			NOT DET	L	A	200
TREAS	COAST GUARD	7	BALTIMORE		IBM 1401	IBM 1401	L	A	176
TREAS	COAST GUARD	7	BALTIMORE	IBM 305			L	A	176
TREAS	COAST GUARD	8	NEW YORK	IBM 305	IBM 305	IBM 305	L	P	447
TREAS	INTERNAL REV	9	LAWRENCE MASS	IBM 7070	IBM 7070	IBM 7070	L	AP	204
TREAS	INTERNAL REV	9	LAWRENCE MASS	IBM 1401	IBM 1401	IBM 1401	L	AP	217
TREAS	INTERNAL REV	9	LAWRENCE MASS	IBM 1401	IBM 1401	IBM 1401	L	AP	217
TREAS	INTERNAL REV	9	LAWRENCE MASS	IBM 1401	IBM 1401	IBM 1401	L	AP	214
TREAS	INTERNAL REV	9	LAWRENCE MASS	IBM 305	IBM 305		L	AP	315
TREAS	INTERNAL REV	9	LAWRENCE MASS	IBM 305	IBM 305		L	AP	315
TREAS	INTERNAL REV	9	LAWRENCE MASS			IBM 1401	L	AP	211
TREAS	INTERNAL REV	10	KANSAS CITY	IBM 650			L	AP	376
TREAS	INTERNAL REV	10	KANSAS CITY				L	AP	330
TREAS	INTERNAL REV	10	KANSAS CITY		IBM 7070	IBM 7070	L	P	296
TREAS	INTERNAL REV	10	KANSAS CITY		IBM 1401	IBM 1401	L	AP	200
TREAS	INTERNAL REV	10	KANSAS CITY		IBM 1401	IBM 1401	L	AP	200
TREAS	INTERNAL REV	10	KANSAS CITY		IBM 1401	IBM 1401	L	AP	200
TREAS	INTERNAL REV	10	KANSAS CITY		IBM 305		L	P	197
TREAS	INTERNAL REV	10	KANSAS CITY		IBM 305		L	P	197
TREAS	INTERNAL REV	11	OGDEN UTAH	IBM 650		IBM 1401	L	AP	199
TREAS	INTERNAL REV	11	OGDEN UTAH		IBM 7070	IBM 7070	L	AP	322
TREAS	INTERNAL REV	11	OGDEN UTAH		IBM 1401	IBM 1401	L	AP	303
TREAS	INTERNAL REV	11	OGDEN UTAH		IBM 1401	IBM 1401	L	AP	208
TREAS	INTERNAL REV	11	OGDEN UTAH		IBM 1401	IBM 1401	L	AP	208
TREAS	INTERNAL REV	11	OGDEN UTAH		IBM 305		L	A	208
TREAS	INTERNAL REV	11	OGDEN UTAH		IBM 305		L	P	318
TREAS	INTERNAL REV	11	OGDEN UTAH				L	P	318
TREAS	INTERNAL REV	12	MARTINSBURG WV			IBM 1401	L	AP	275
TREAS	INTERNAL REV	12	MARTINSBURG WV		IBM 7070		L	P	182
TREAS	INTERNAL REV	12	MARTINSBURG WV			IBM 7074	L	P	182
TREAS	INTERNAL REV	13	ATLANTA		IBM 1401	IBM 1401	L	P	176
TREAS	INTERNAL REV	13	ATLANTA		IBM 1401	IBM 1401	L	AP	203
TREAS	INTERNAL REV	13	ATLANTA		IBM 1401	IBM 1401	L	P	193
TREAS	INTERNAL REV	13	ATLANTA			IBM 1401	L	P	200
TREAS	INTERNAL REV	14	PHILADELPHIA			IBM 1401	L	P	200
TREAS	INTERNAL REV	14	PHILADELPHIA			IBM 1401	L	AP	203
TREAS	PUBLIC DEBT	15	PARKERSBURG WV	HON 1000			L	P	193
TREAS	PUBLIC DEBT	15	PARKERSBURG WV		HON 800	HON 800	L	P	359
TREAS	TREASURER	16	WASHINGTON	IBM 7070	IBM 7070		L	P	300
TREAS	TREASURER	16	WASHINGTON	IBM 7070	IBM 7070		L	P	254
TREAS	TREASURER	16	WASHINGTON	IBM 1401	IBM 1401		L	P	259
TREAS	TREASURER	16	WASHINGTON			IBM 7074	P	P	299
TREAS	TREASURER	16	WASHINGTON			IBM 1401	P	P	352
TVA	TVA	1	CHATTANOOGA	IBM 704	IBM 704	IBM 704	P	AP	286
TVA	TVA	2	KNOXVILLE	ROY LG30	ROY LG30	ROY LG30	L	S	310
VA	ADM SERVICES	1	WASHINGTON	IBM 650	IBM 650	IBM 650	L	ASP	170
VA	INSURANCE	2	PHILADELPHIA	IBM 705	IBM 705		L	P	300
VA	INSURANCE	2	PHILADELPHIA	IBM 305			L	P	511
VA	INSURANCE	2	PHILADELPHIA	IBM 1401			L	P	251
VA	INSURANCE	2	PHILADELPHIA				L	P	342
VA	INSURANCE	2	PHILADELPHIA		IBM 1401	IBM 1401	L	P	362
VA	INSURANCE	2	PHILADELPHIA		IBM 1401	IBM 1401	L	P	322
VA	INSURANCE	3	MINNEAPOLIS			IBM 7080	P	P	335
VA	INSURANCE	4	DENVER			IBM 1401	L	P	284
VA	VET BENEFITS	5	CHICAGO	IBM 705			L	P	296
VA	VET BENEFITS	5	CHICAGO	IBM 1401	IBM 1401		L	P	440
VA	VET BENEFITS	5	CHICAGO		IBM 1401	IBM 1401	L	P	273
VA	VET BENEFITS	5	CHICAGO		IBM 7080	IBM 7080	L	P	488
VA	MED & SURGERY	6	OMAHA	IBM 1620	IBM 1620	IBM 1620	P	S	380
VA	MED & SURGERY	7	CHICAGO			NOT DET	P	S	103
VA	MED & SURGERY	8	LOS ANGELES		IBM 1401	IBM 1401	L	A	132

TABLE 3

INVENTORY OF COMPUTERS – BY LOCATION

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
ABERDEEN MD	ARMY	ORDNANCE	66	EDVAC	EDVAC	EDVAC	P	S	500
ABERDEEN MD	ARMY	ORDNANCE	66	ORDVAC	ORDVAC	ORDVAC	P	S	500
ABERDEEN MD	ARMY	ORDNANCE	66		BRLESC	BRLESC	P	AS	200
ABERDEEN MD	ARMY	ORDNANCE	66	BUR E101	BUR E101	BUR E101	L	S	200
ABERDEEN MD	ARMY	ORDNANCE	66			NOT DET	L	S	200
ABERDEEN MD	ARMY	ORDNANCE	66	BEN G15	BEN G15		L	S	170
ABERDEEN MD	ARMY	ORDNANCE	66		BEN G15		L	S	170
ABERDEEN MD	ARMY	ORDNANCE	66			ASI 210	L	S	170
ABILENE TEXAS	AF	STRATEGIC AIR C	145	IBM 305	IBM 305	IBM 305	L	A	237
ALAMOGORDO NM	AF	SYSTEMS COMM	45			CDC 160A	L	PS	200
ALAMOGORDO NM	AF	SYSTEMS COMM	45			ROY 4000	L	S	161
ALAMOGORDO NM	AF	SYSTEMS COMM	45	REM 1103	REM 1103	REM 1103	P	PS	375
ALAMOGORDO NM	AF	SYSTEMS COMM	45	REM 1103	REM 1103	REM 1103	P	PS	325
ALBANY GA	AF	MATS	73	NAA REC2	NAA REC2	NAA REC2	P	S	364
ALBANY GA	AF	MATS	73			NAA REC2	P	S	270
ALBANY GA	AF	STRATEGIC AIR C	117	IBM 305	IBM 305		L	A	292
ALBANY GA	AF	STRATEGIC AIR C	117			NOT DET	L	A	176
ALBANY GA	NAVY	MARINE CORPS	43	REM UFC1	REM UFC1	REM UFC1	L	P	429
ALBANY GA	NAVY	MARINE CORPS	43		IBM 1401	IBM 1401	L	A	100
ALBANY NY	ARMY	ORDNANCE	78	IBM 650	IBM 650	IBM 650	P	AS	176
ALBANY NY	ARMY	ORDNANCE	79		REM S580	REM S580	L	S	170
ALBUQUERQUE	AEC	ALBUQUERQUE OO	46	ROY LG30	ROY LG30	ROY LG30	P	S	150
ALBUQUERQUE	AEC	ALBUQUERQUE OO	47	IBM 1620	IBM 1620	IBM 1620	L	S	150
ALBUQUERQUE	AEC	ALBUQUERQUE OO	48	NCR 102	NCR 102	NCR 102	P	S	120
ALBUQUERQUE	AEC	ALBUQUERQUE OO	49	IBM 705			L	AS	350
ALBUQUERQUE	AEC	ALBUQUERQUE OO	49	IBM 7090	IBM 7090	IBM 7090	L	AS	300
ALBUQUERQUE	AEC	ALBUQUERQUE OO	49	IBM 1401	IBM 1401	IBM 1401	L	AS	300
ALBUQUERQUE	AEC	ALBUQUERQUE OO	49	IBM 1401	IBM 1401	IBM 1401	L	AS	300
ALBUQUERQUE	AEC	ALBUQUERQUE OO	49		IBM 1401	IBM 1401	L	A	140
ALBUQUERQUE	AEC	ALBUQUERQUE OO	50			IBM 1401	L	A	140
ALBUQUERQUE	AEC	ALBUQUERQUE OO	50	ROY LG30	ROY LG30	ROY LG30	P	S	100
ALBUQUERQUE	AEC	ALBUQUERQUE OO	51	CDC 160	CDC 160	CDC 160	L	S	176
ALBUQUERQUE	AEC	ALBUQUERQUE OO	52	IBM 704			L	AS	350
ALBUQUERQUE	AEC	ALBUQUERQUE OO	54		CDC 1604	CDC 1604	L	AS	350
ALBUQUERQUE	AEC	ALBUQUERQUE OO	54		CDC 160	CDC 160	L	AS	350
ALBUQUERQUE	AEC	ALBUQUERQUE OO	54		IBM 305	IBM 305	L	A	300
ALBUQUERQUE	AEC	ALBUQUERQUE OO	66	IBM 305	IBM 1620	IBM 1620	L	A	150
ALBUQUERQUE	AEC	ALBUQUERQUE OO	66		IBM 1620	IBM 1620	L	S	150
ALBUQUERQUE	AEC	ALBUQUERQUE OO	67	IBM 1620	IBM 1620	BEN G15	L	S	250
ALBUQUERQUE	AEC	ALBUQUERQUE OO	68	BEN G15	BEN G15		L	A	270
ALBUQUERQUE	AEC	ALBUQUERQUE OO	5	IBM 305	IBM 305		L	A	130
ALBUQUERQUE	OSD	DASA	5		IBM 1401	IBM 1401	L	S	457
ALBUQUERQUE	OSD	DASA	51	IBM 704			L	S	445
ALBUQUERQUE	AF	SYSTEMS COMM	51		CDC 1604	CDC 1604	L	S	100
ALBUQUERQUE	AF	SYSTEMS COMM	51		CDC 160A	CDC 160A	L	S	370
ALBUQUERQUE	AF	SYSTEMS COMM	51			NOT DET	L	A	200
ALBUQUERQUE	AF	SYSTEMS COMM	51	IBM 650	IBM 650		L	A	240
ALBUQUERQUE	AF	SYSTEMS COMM	51			NOT DET	L	S	121
ALBUQUERQUE	AF	SYSTEMS COMM	51	BEN G15	BEN G15	BEN G15	L	AS	91
ALBUQUERQUE	ARMY	ENGINEERS	45		IBM 1620	IBM 1620	L	A	176
ALEXANDRIA LA	AF	TACTICAL AIR C	157		IBM 1401	IBM 1401	L	A	264
ALEXANDRIA LA	AF	TACTICAL AIR C	157			IBM 305	L	A	232
ALTUS OKLA	AF	STRATEGIC AIR C	125	IBM 305	IBM 305	NOT DET	L	A	176
ALTUS OKLA	AF	STRATEGIC AIR C	125				L	AS	210
AMARILLO	AEC	ALBUQUERQUE OO	59	IBM 650		IBM 1620	L	AS	110
AMARILLO	AEC	ALBUQUERQUE OO	59		IBM 1620	IBM 1401	L	AS	90
AMARILLO	AEC	ALBUQUERQUE OO	59		IBM 1401	RCA 301	L	A	176
AMARILLO	AF	TRAINING COMM	57						
ANCHORAGE ALAS	AF	ALASKAN AIR COM	1		IBM 305	IBM 305	L	A	400
ANCHORAGE ALAS	AF	ALASKAN AIR COM	2			NOT DET	L	P	77
ANNISTON ALA	ARMY	ORDNANCE	52	IBM 650	IBM 650		L	A	225
ANNISTON ALA	ARMY	ORDNANCE	52	IBM 1401	IBM 1401		L	A	180
ANNISTON ALA	ARMY	ORDNANCE	52			NOT DET	L	A	176
ASHEVILLE NC	COMM	WEATHER BUREAU	17	IBM 650			L	PS	300
ASHEVILLE NC	COMM	WEATHER BUREAU	17		HON 800	HON 800	L	PS	176
ASHEVILLE NC	AF	MATS	74	IBM 705	IBM 705	IBM 705	L	P	348
ASHEVILLE NC	AF	MATS	74	IBM 1401	IBM 1401	IBM 1401	L	P	395
ATLANTA	ARMY	QMG	100		IBM 1410	IBM 1410	L	A	241
ATLANTA	ARMY	CONARC	139			RCA 501	L	P	170
ATLANTA	GSA	REGION 4	4	IBM 305			L	AP	261
ATLANTA	GSA	REGION 4	4		IBM 1401	IBM 1401	L	AP	224
ATLANTA	PO	REGION 6	6	IBM 650	IBM 650	IBM 650	L	A	208
ATLANTA	TREAS	INTERNAL REV	13		IBM 1401	IBM 1401	L	AP	203
ATLANTA	TREAS	INTERNAL REV	13		IBM 1401	IBM 1401	L	P	193
ATLANTA	TREAS	INTERNAL REV	13			IBM 1401	L	P	200
ATLANTA	TREAS	INTERNAL REV	13			IBM 1401	L	P	200
ATLANTIC CITY	FAA	RES AND DEVELOP	8	IBM 7090	IBM 7090	IBM 7090	L	AS	211
ATLANTIC CITY	FAA	RES AND DEVELOP	8	IBM 1401	IBM 1401	IBM 1401	L	A	256
ATLANTIC CITY	FAA	RES AND DEVELOP	8			NOT DET	L	S	352
ATLANTIC CITY	FAA	RES AND DEVELOP	8			NOT DET	L	S	352
ATLANTIC CITY	FAA	RES AND DEVELOP	9	REM UFC1	REM UFC1	REM UFC1	L	S	176
ATLANTIC CITY	FAA	RES AND DEVELOP	11	LIB ATC	LIB ATC	LIB ATC	P	X	
ATLANTIC CITY	FAA	RES AND DEVELOP	11	LIB ATC	LIB ATC	LIB ATC	P	X	
ATLANTIC CITY	FAA	RES AND DEVELOP	11	LIB ATC	LIB ATC	LIB ATC	P	X	
AUGUSTA	AEC	SAVANNAH RIVER	12	IBM 650	IBM 650		L	A	352
AUGUSTA	AEC	SAVANNAH RIVER	12		IBM 1401	IBM 1401	P	A	352
AUGUSTA	AEC	SAVANNAH RIVER	12			IBM 1401	L	A	352
AUGUSTA	AEC	SAVANNAH RIVER	13	IBM 1620	IBM 1620	IBM 1620	L	S	176
AUGUSTA	AEC	SAVANNAH RIVER	14	IBM 650			L	S	264
AUGUSTA	AEC	SAVANNAH RIVER	14		IBM 704	IBM 704	P	S	176
AUSTIN TEXAS	AF	STRATEGIC AIR C	116	IBM 305	IBM 305		L	A	188

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
AUSTIN TEXAS	AF	STRATEGIC AIR C	116			NOT DET	L	A	160
AZORES	AF	MATS	84			GEL 225	L	A	90
BAINBRIDGE MD	NAVY	PERSONNEL	52	IBM 650			L	P	370
BAINBRIDGE MD	NAVY	PERSONNEL	52	IBM 1401	IBM 1401	IBM 1401	L	P	175
BAINBRIDGE MD	NAVY	PERSONNEL	52		IBM 1401	IBM 1401	L	P	175
BAKERSFIELD	AF	SYSTEMS COMM	46	IBM 704			L	AS	632
BAKERSFIELD	AF	SYSTEMS COMM	46		IBM 7090		L	AS	440
BAKERSFIELD	AF	SYSTEMS COMM	46			NOT DET	L	S	176
BAKERSFIELD	AF	SYSTEMS COMM	46			NOT DET	L	AS	352
BAKERSFIELD	AF	SYSTEMS COMM	47	BUR E102	BUR E102	NOT DET	L	AS	352
BAKERSFIELD	ARMY	TRANSPORTATION	47				P	S	140
BAKERSFIELD	NASA	FLIGHT RES CN	128		IBM 1620	NOT DET	L	AS	280
BAKERSFIELD	NASA	FLIGHT RES CN	4	IBM 650		IBM 1620	L	S	132
BAKERSFIELD	NASA	FLIGHT RES CN	4		IBM 704		L	AS	176
			4			IBM 704	P	AS	176
						IBM 1401	L	AS	176
BALTIMORE	ARMY	CONARC	136	REM UFC1	REM UFC1	REM UFC1	L	A	
BALTIMORE	ARMY	CONARC	137			RCA 501	L	P	245
BALTIMORE	NAVY	SHIPS	21	BEN G15	BEN G15		L	P	170
BALTIMORE	NAVY	SHIPS	21		IBM 1401	IBM 1401	L	S	208
BALTIMORE	NAVY	PERSONNEL	53		IBM 1620	IBM 1620	L	S	176
BALTIMORE	NAVY	PERSONNEL	53		IBM 1401	IBM 1401	L	X	190
BALTIMORE	NAVY	WEAPONS	69	IBM 7090	IBM 7090	IBM 7090	L	AP	150
BALTIMORE	NAVY	WEAPONS	69	IBM 1401	IBM 1401	IBM 1401	L	P	272
BALTIMORE	NAVY	WEAPONS	69		IBM 1401	IBM 1401	L	P	176
BALTIMORE	NAVY	WEAPONS	69		IBM 1401	IBM 1401	L	P	176
BALTIMORE	HEW	SOCIAL SECURITY	1	IBM 705			L	P	176
BALTIMORE	HEW	SOCIAL SECURITY	1	IBM 705			L	P	520
BALTIMORE	HEW	SOCIAL SECURITY	1	IBM 705	IBM 705	IBM 705	L	P	562
BALTIMORE	HEW	SOCIAL SECURITY	1		IBM 7080	IBM 7080	(L)	P	472
BALTIMORE	HEW	SOCIAL SECURITY	1		IBM 7080	IBM 7080	(L)	AP	442
BALTIMORE	HEW	SOCIAL SECURITY	1	IBM 1401	IBM 1401	IBM 7080	L	P	372
BALTIMORE	HEW	SOCIAL SECURITY	1	IBM 1401	IBM 1401	IBM 1401	(L)	AP	491
BALTIMORE	HEW	SOCIAL SECURITY	1	IBM 1401	IBM 1401	IBM 1401	(L)	P	490
BALTIMORE	HEW	SOCIAL SECURITY	1		IBM 1401	IBM 1401	(L)	P	445
BALTIMORE	HEW	SOCIAL SECURITY	1		IBM 1401	IBM 1401	(L)	P	450
BALTIMORE	HEW	SOCIAL SECURITY	1		IBM 1401	IBM 1401	(L)	P	488
BALTIMORE	HEW	SOCIAL SECURITY	1		IBM 1401	IBM 1401	(L)	P	511
BALTIMORE	HEW	SOCIAL SECURITY	1		IBM 1401	IBM 1401	(L)	P	479
BALTIMORE	TREAS	COAST GUARD	7			IBM 1401	L	P	219
	TREAS	COAST GUARD	7		IBM 1401	IBM 1401	L	A	176
				IBM 305			L	A	176
BANGOR MAINE	AF	STRATEGIC AIR C	126	IBM 305	IBM 305		L	A	307
BANGOR MAINE	AF	STRATEGIC AIR C	126			NOT DET	L	A	176
BATTLE CREEK	OSD	DEF SUP AGENCY	17			IBM 7080	L	P	480
BATTLE CREEK	OSD	DEF SUP AGENCY	17			IBM 1401	L	P	439
BATTLE CREEK	OSD	DEF SUP AGENCY	17			IBM 1401	L	P	483
BATTLE CREEK	OSD	DEF SUP AGENCY	17			IBM 1401	L	P	511
BATTLE CREEK	OSD	DEF SUP AGENCY	17			IBM 1401	L	P	424
BEDFORD MASS	AF	SYSTEMS COMM	52	IBM 709	IBM 709		L	PS	260
BEDFORD MASS	AF	SYSTEMS COMM	52		PHI 2000	PHI 2000	L	APSC	293
BEDFORD MASS	AF	SYSTEMS COMM	52	IBM 1620	IBM 1620	IBM 1620	L	APS	104
BEDFORD MASS	AF	SYSTEMS COMM	52	IBM 650	IBM 650	IBM 650	L	AS	352
BEDFORD MASS	AF	AEROSPACE RES	85			NOT DET	L	A	220
						NOT DET	L	S	176
BERMUDA	AF	MATS	82			GEL 225	L	A	90
BIG SPRING TEX	AF	TRAINING COMM	55			RCA 301	L	A	176
BIRMINGHAM	HEW	SOCIAL SECURITY	2	RCA 501	RCA 501	RCA 501	L	P	150
BIRMINGHAM	HEW	SOCIAL SECURITY	2		RCA 301	RCA 301	L	P	160
BIRMINGHAM	TREAS	ACCOUNTS	5			IBM 1401	P	P	329
BLYTHEVILLE AR	AF	STRATEGIC AIR C	115	IBM 305	IBM 305		L	A	177
BLYTHEVILLE AR	AF	STRATEGIC AIR C	115			NOT DET	L	A	150
BOSTON	ARMY	ORDNANCE	70		IBM 1620	IBM 1620	L	S	176
BOSTON	ARMY	ORDNANCE	70			RCA 501	L	AS	176
BOSTON	ARMY	ORDNANCE	70	ROY LG30			L	S	176
BOSTON	NAVY	SHIPS	10	BUR 205	BUR 205		L	AS	410
BOSTON	NAVY	SHIPS	10		IBM 1401	IBM 1401	L	AS	159
BOSTON	NAVY	SHIPS	10			NOT DET	L	S	176
BOSTON	FAA	AIR TRAFFIC SER	3	REM UFC1	REM UFC1		L	P	510
BOSTON	FAA	AIR TRAFFIC SER	3			REM UFC2	L	P	510
BOSTON	GSA	REGION 1	1		IBM 1401	IBM 1401	L	AP	110
BOSTON	PO	REGION 1	1	IBM 650	IBM 650	IBM 650	L	A	205
BREMERTON WASH	NAVY	SHIPS	18	IBM 650	IBM 650		L	A	245
BREMERTON WASH	NAVY	SHIPS	18	IBM 1401	IBM 1401		L	A	292
BREMERTON WASH	NAVY	SHIPS	18			IBM 1410	L	A	176
BREMERTON WASH	NAVY	SHIPS	18			IBM 1401	L	A	176
					ROY 4000	ROY 4000	L	S	102
BURLINGTON IA	AEC	ALBUQUERQUE OO	58	REM SS90	REM SS90		L	AP	200
BURLINGTON IA	AEC	ALBUQUERQUE OO	58			REM SS80	L	AP	200
CAPE CANAVERAL	NASA	MARSHL SP FL CN	16	BUR 205	BUR 205		L	S	176
CHAMBERSBURG	ARMY	ORDNANCE	94	IBM 305	IBM 305		L	A	425
CHAMBERSBURG	ARMY	ORDNANCE	94	IBM 305	IBM 305		L	A	425
CHAMBERSBURG	ARMY	ORDNANCE	94			NOT DET	L	A	176
CHAMBERSBURG	ARMY	ORDNANCE	95			NOT DET	L	A	176
CHARLESTON SC	AF	MATS	81	IBM 7070	IBM 7070		L	A	311
CHARLESTON SC	AF	MATS	81			GEL 225	L	A	118
CHARLESTON SC	NAVY	SHIPS	14	IBM 305	IBM 305	IBM 305	L	A	529
CHARLESTON SC	NAVY	SHIPS	14	BEN G15			L	S	155
CHARLESTON SC	NAVY	SHIPS	14		RCA 501	RCA 501	L	AS	176
			14		RCA 301	RCA 301	L	AS	178

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
CHARLESTON SC	NAVY	WEAPONS	57		MON XI	MON XI	L	S	180
CHATTANOOGA	TVA	TVA	1	IBM 704	IBM 704	IBM 704	P	AP	310
CHERRY POINT	NAVY	WEAPONS	58		IBM 1401	IBM 1401	L	A	333
CHERRY POINT	NAVY	WEAPONS	58			NOT DET	L	A	176
CHEYENNE	AF	STRATEGIC AIR C	144			NOT DET	L	A	176
CHICAGO	AEC	CHICAGO OO	31			IBM 1620	L	S	100
CHICAGO	AEC	CHICAGO OO	32	IBM 1620	IBM 1620	IBM 1620	L	S	400
CHICAGO	AEC	CHICAGO OO	33		IBM 1620	IBM 1620	L	S	170
CHICAGO	AEC	CHICAGO OO	34	ROY LG30	ROY LG30	ROY LG30	P	S	164
CHICAGO	AEC	CHICAGO OO	34			NOT DET	P	S	200
CHICAGO	AEC	CHICAGO OO	34			NOT DET	P	S	173
CHICAGO	AEC	CHICAGO OO	35	NAA REC2	NAA REC2	NAA REC2	P	S	150
CHICAGO	AEC	CHICAGO OO	36	IBM 704	IBM 704	IBM 704	P	S	456
CHICAGO	AEC	CHICAGO OO	36	IBM 1401	IBM 1401	IBM 1401	P	S	257
CHICAGO	AEC	CHICAGO OO	36	GEORGE	GEORGE	GEORGE	P	S	315
CHICAGO	AEC	CHICAGO OO	36		ASI 210	ASI 210	P	S	100
CHICAGO	AEC	CHICAGO OO	36				L	AS	211
CHICAGO	AEC	CHICAGO OO	37	IBM 650			P	AS	176
CHICAGO	AEC	CHICAGO OO	37		IBM 1401	IBM 1401	P	AP	599
CHICAGO	AEC	CHICAGO OO		IBM 650	IBM 650	IBM 650	L	P	347
CHICAGO	AGRI	STAR AND CONS	5		IBM 1401	IBM 1401	L	A	120
CHICAGO	AGRI	STAB AND CONS	5			NOT DET	L	S	200
CHICAGO	OSD	DEF SUP AGENCY	19			RCA 501	L	P	200
CHICAGO	ARMY	ORDNANCE	63	RCA 501	RCA 501	RCA 501	L	S	176
CHICAGO	ARMY	CONARC	149			IBM 1620	L	AP	157
CHICAGO	NAVY	MED AND SURG	3		IBM 1401	IBM 1401	L	P	533
CHICAGO	NAVY	SUP AND ACCTS	31	REM UII	REM UII	REM UII	P	P	527
CHICAGO	NAVY	SUP AND ACCTS	34	REM SS80	REM SS80	REM SS80	L	P	127
CHICAGO	NAVY	SUP AND ACCTS	34	IBM 650			L	P	125
CHICAGO	NAVY	PERSONNEL	51		IBM 1401	IBM 1401	L	AP	200
CHICAGO	NAVY	PERSONNEL	51		IBM 1401	IBM 1401	L	P	140
CHICAGO	GSA	REGION 5	5	RCA 501	RCA 501	RCA 501	L	P	170
CHICAGO	HEW	SOCIAL SECURITY	2		RCA 301	RCA 301	L	A	184
CHICAGO	HEW	SOCIAL SECURITY	2	IBM 650	IBM 650	IBM 650	L	A	188
CHICAGO	PO	REGION 7	7	IBM 650	IBM 650	IBM 650	L	P	264
CHICAGO	PO	REGION 7	7	IBM 7070	IBM 7070	IBM 7070	L	P	220
CHICAGO	RRB	WAGE SERV REC	1	IBM 1401	IBM 1401	IBM 1401	L	P	324
CHICAGO	RRB	WAGE SERV REC	1	IBM 7070	IBM 7070	IBM 7070	L	P	440
CHICAGO	TREAS	ACCOUNTS	1	IBM 705			L	P	273
CHICAGO	VA	VET BENEFITS	5	IBM 1401	IBM 1401	IBM 1401	L	P	488
CHICAGO	VA	VET BENEFITS	5		IBM 1401	IBM 7080	L	P	380
CHICAGO	VA	VET BENEFITS	5		IBM 7080	NOT DET	P	S	
CHICAGO	VA	VET BENEFITS	5				L	A	339
CHICAGO	VA	MED & SURGERY	7				L	A	176
CHICOPEE MASS	AF	STRATEGIC AIR C	119	IBM 305	IBM 305	NOT DET	L	A	176
CHICOPEE MASS	AF	STRATEGIC AIR C	119			NOT DET	L	S	176
CHICOPEE MASS	AF	STRATEGIC AIR C	119				L	S	176
CHINA LAKE CAL	NAVY	WEAPONS	59	IBM 7090	IBM 7090	IBM 7090	L	S	176
CHINA LAKE CAL	NAVY	WEAPONS	59		IBM 1620	IBM 1620	L	S	176
CHINA LAKE CAL	NAVY	WEAPONS	59	IBM 1401	IBM 1401	IBM 1401	L	S	176
CHINA LAKE CAL	NAVY	WEAPONS	59		IBM 1401	IBM 1401	L	S	80
CHINA LAKE CAL	NAVY	WEAPONS	59	ROY LG30			L	S	176
CHINA LAKE CAL	NAVY	WEAPONS	59		IBM 1620	IBM 1620	L	S	176
CHINA LAKE CAL	NAVY	WEAPONS	59		REM 490	REM 490	L	S	320
CINCINNATI	AEC	OAK RIDGE OO	19	ROY LG30	ROY LG30		L	A	110
CINCINNATI	AEC	OAK RIDGE OO	19			ROY 4000	L	A	170
CINCINNATI	AEC	OAK RIDGE OO	19		IBM 1401	IBM 1401	P	A	100
CINCINNATI	ARMY	ENGINEERS	37	BUR E102	BUR E102	BUR E102	P	S	120
CINCINNATI	HEW	PUBLIC HEALTH	11		HON 400	HON 400	L	APS	212
CINCINNATI	PO	REGION 4	4	IBM 650	IBM 650	IBM 650	L	A	193
CLEVELAND	NAVY	COMPTROLLER	100	IBM 7070	IBM 7070	IBM 7070	L	P	134
CLEVELAND	NAVY	COMPTROLLER	100			IBM 1401	L	P	480
CLEVELAND	FAA	AIR TRAFFIC SER	4	REM UFC1	REM UFC1		L	P	480
CLEVELAND	FAA	AIR TRAFFIC SER	4			REM UFC2	L	P	481
CLEVELAND	NASA	LEWIS RES CN	8	IBM 704			P	S	300
CLEVELAND	NASA	LEWIS RES CN	8	IBM 1401	IBM 1401	IBM 1401	L	A	240
CLEVELAND	NASA	LEWIS RES CN	8		IBM 7090	IBM 7090	L	S	240
CLEVELAND	NASA	LEWIS RES CN	8		IBM 1401	IBM 1401	L	S	302
CLEVELAND	NASA	LEWIS RES CN	9	REM 1103	REM 1103	REM 1103	P	S	187
CLINTON OKLA	AF	STRATEGIC AIR C	114	IBM 305	IBM 305	IBM 305	L	A	176
CLOVIS NM	AF	TACTICAL AIR C	159		IBM 1401	IBM 1401	L	A	264
CLOVIS NM	AF	TACTICAL AIR C	159		IBM 305	IBM 305	L	A	340
COCOA BEACH	AF	SYSTEMS COMM	49	IBM 7090	IBM 7090		L	P	425
COCOA BEACH	AF	SYSTEMS COMM	49		IBM 1401		L	P	420
COCOA BEACH	AF	SYSTEMS COMM	49		IBM 1401		L	P	445
COCOA BEACH	AF	SYSTEMS COMM	49	IBM 1401			L	P	400
COCOA BEACH	AF	SYSTEMS COMM	49			NOT DET	L	P	250
COCOA BEACH	AF	SYSTEMS COMM	49			NOT DET	L	P	230
COCOA BEACH	AF	SYSTEMS COMM	49			NOT DET	L	P	250
COCOA BEACH	AF	SYSTEMS COMM	49			NOT DET	L	P	220
COCOA BEACH	AF	SYSTEMS COMM	49	IBM 7090	IBM 7090		L	P	160
COCOA BEACH	AF	SYSTEMS COMM	49	IBM 1401	IBM 1401	IBM 1401	L	P	220
COCOA BEACH	AF	SYSTEMS COMM	49			NOT DET	L	P	165
COCOA BEACH	AF	SYSTEMS COMM	49		IBM 1620	IBM 1620	L	P	220
COCOA BEACH	AF	SYSTEMS COMM	49		IBM 1620	IBM 1620	L	P	230
COCOA BEACH	AF	SYSTEMS COMM	49		BEN G15		L	P	265
COCOA BEACH	AF	SYSTEMS COMM	49	BEN G15			L	P	252
COCOA BEACH	AF	SYSTEMS COMM	49	BEN G15	BEN G15		L	P	374
COLORADO SPR	OSD	DEF COMM AGENCY	8			IBM 1410	L	A	320
COLORADO SPR	AF	AIR DEF COMM	7	IBM 705	IBM 705	IBM 705	L	A	272
COLORADO SPR	AF	AIR DEF COMM	7		IBM 1401	IBM 1401	L	A	150
COLORADO SPR	AF	AIR DEF COMM	8		NCR 390	NCR 390	L	A	176
COLORADO SPR	AF	AIR FORCE ACAD	23	IBM 1401	IBM 1401	IBM 1401	P	A	229
COLUMBUS MISS	AF	STRATEGIC AIR C	108	IBM 305	IBM 305	IBM 305	L	A	440
COLUMBUS OHIO	OSD	DEF SUP AGENCY	13		HON 800	HON 800	L	A	

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
COLUMBUS OHIO	AF	STRATEGIC AIR C	106	IBM 305	IBM 305		L	A	247
COLUMBUS GA	ARMY	CONARC	140			NOT DET	L	A	176
COLUMBUS OHIO	OSD	DEF SUP AGENCY	13	IBM 705			L	A	520
COLUMBUS OHIO	OSD	DEF SUP AGENCY	13	IBM 1401			L	A	392
COLUMBUS OHIO	OSD	DEF SUP AGENCY	13			NOT DET	L	A	120
COLUMBUS OHIO	AF	STRATEGIC AIR C	106			HON 400	L	A	300
COLUMBUS OHIO	ARMY	OMG	102	IBM 650		NOT DET	L	A	176
COLUMBUS OHIO	ARMY	OMG	102		IBM 1410	IBM 1410	L	A	426
CORPUS CHRISTI	NAVY	WEAPONS	62		IBM 1401	IBM 1401	L	A	320
CRANE IND	NAVY	WEAPONS	63	IBM 1620	IBM 1620	IBM 1620	L	S	178
DAHLGREN VA	NAVY	WEAPONS	64	NORC	NORC	NORC	P	S	157
DAHLGREN VA	NAVY	WEAPONS	64	IBM 7090	IBM 7090	IBM 7090	L	AS	578
DAHLGREN VA	NAVY	WEAPONS	64		IBM 1401	IBM 1401	L	AS	407
DAHLGREN VA	NAVY	WEAPONS	64			IBM 7030	L	S	407
DALLAS	AGRI	STAB AND CONS	4	IBM 7070	IBM 7070	IBM 7070	L	P	176
DALLAS	AGRI	STAB AND CONS	4		IBM 1401	IBM 1401	L	P	176
DALLAS	GSA	REGION 7	7	IBM 305			L	AP	217
DALLAS	GSA	REGION 7	7		IBM 1401	IBM 1401	L	AP	220
DALLAS	PO	REGION 10	11	IBM 650	IBM 650	IBM 650	L	A	152
DAYTON OHIO	AEC	ALBUQUERQUE OO	64		IBM 1620	IBM 1620	P	S	165
DAYTON OHIO	AEC	ALBUQUERQUE OO	64			IBM 1401	L	ACS	160
DAYTON OHIO	OSD	DEF SUP AGENCY	12			IBM 650	L	A	382
DAYTON OHIO	OSD	DEF SUP AGENCY	12			IBM 7080	L	A	550
DAYTON OHIO	OSD	DEF SUP AGENCY	12			NOT DET	L	A	550
DAYTON OHIO	OSD	DEF SUP AGENCY	12			IBM 1401	L	A	353
DAYTON OHIO	OSD	DEF SUP AGENCY	12			IBM 1401	L	A	353
DAYTON OHIO	OSD	DEF SUP AGENCY	12			IBM 1401	L	A	353
DAYTON OHIO	OSD	DEF SUP AGENCY	12			NOT DET	L	A	353
DAYTON OHIO	AF	LOGISTICS COMM	25			NOT DET	L	A	353
DAYTON OHIO	AF	LOGISTICS COMM	25		IBM 1401	IBM 1401	L	AP	350
DAYTON OHIO	AF	LOGISTICS COMM	25	IBM 650	IBM 650		L	AP	330
DAYTON OHIO	AF	LOGISTICS COMM	25			NOT DET	L	AP	450
DAYTON OHIO	AF	LOGISTICS COMM	25			NOT DET	L	P	450
DAYTON OHIO	AF	LOGISTICS COMM	25	IBM 305	IBM 305		L	P	380
DAYTON OHIO	AF	LOGISTICS COMM	25			NOT DET	L	P	450
DAYTON OHIO	AF	LOGISTICS COMM	25	ROY LG30			L	A	120
DAYTON OHIO	AF	LOGISTICS COMM	25	IBM 705			L	AP	570
DAYTON OHIO	AF	LOGISTICS COMM	25		IBM 7080	IBM 7080	L	AP	400
DAYTON OHIO	AF	LOGISTICS COMM	25	IBM 1401	IBM 1401	IBM 1401	L	P	490
DAYTON OHIO	AF	LOGISTICS COMM	25		IBM 1401	IBM 1401	L	P	490
DAYTON OHIO	AF	LOGISTICS COMM	26	IBM 305	IBM 305	IBM 305	L	A	280
DAYTON OHIO	AF	LOGISTICS COMM	35	IBM 650	IBM 650		L	AP	310
DAYTON OHIO	AF	LOGISTICS COMM	35	IBM 650	IBM 650		L	AP	310
DAYTON OHIO	AF	LOGISTICS COMM	35	REM UI	REM UI		L	P	550
DAYTON OHIO	AF	LOGISTICS COMM	35	REM 1105			L	P	520
DAYTON OHIO	AF	LOGISTICS COMM	35		REM STEP		L	P	500
DAYTON OHIO	AF	LOGISTICS COMM	35		IBM 7080		L	P	400
DAYTON OHIO	AF	LOGISTICS COMM	35		IBM 1401		L	P	420
DAYTON OHIO	AF	LOGISTICS COMM	35		IBM 1401		L	P	420
DAYTON OHIO	AF	SYSTEMS COMM	41	IBM 7090	IBM 7090	IBM 7090	L	P	210
DAYTON OHIO	AF	SYSTEMS COMM	41	IBM 1401	IBM 1401	IBM 1401	L	P	126
DAYTON OHIO	AF	SYSTEMS COMM	42	BUR 205	BUR 205	BUR 205	L	A	227
DAYTON OHIO	AF	SYSTEMS COMM	42	BUR E101	BUR E101	BUR E101	L	S	90
DAYTON OHIO	AF	SYSTEMS COMM	42			NOT DET	L	S	150
DAYTON OHIO	AF	SYSTEMS COMM	42			NOT DET	L	S	330
DAYTON OHIO	AF	SYSTEMS COMM	42			NOT DET	L	AS	352
DAYTON OHIO	AF	SYSTEMS COMM	42			NOT DET	L	AS	352
DAYTON OHIO	AF	SYSTEMS COMM	42	IBM 7090	IBM 7090	IBM 7090	L	AS	354
DAYTON OHIO	AF	SYSTEMS COMM	42	IBM 1401	IBM 1401	IBM 1401	L	AS	330
DAYTON OHIO	AF	AIR UNIVERSITY	60	BUR 204	BUR 204	BUR 204	P	S	110
DAYTON OHIO	AF	AIR UNIVERSITY	61		IBM 1620	IBM 1620	L	A	125
DAYTON OHIO	AF	AEROSPACE RES	86	IBM 1620	IBM 1620	IBM 1620	L	A	244
				IBM 1620	IBM 1620	IBM 1620	L	S	190
DENVER	AEC	ALBUQUERQUE OO	60	IBM 1401	IBM 1401	IBM 1401	L	A	140
DENVER	AEC	ALBUQUERQUE OO	61	BEN G15	BEN G15	BEN G15	L	S	340
DENVER	AEC	ALBUQUERQUE OO	62		BEN G15	BEN G15	L	S	700
DENVER	AEC	ALBUQUERQUE OO	63		BEN G15	BEN G15	P	S	360
DENVER	COMM	PUBLIC ROADS	9		IBM 1620	IBM 1620	L	AS	100
DENVER	COMM	NAT BUR STAND	12	CDC 160	CDC 160	CDC 160	L	S	77
DENVER	COMM	NAT BUR STAND	12	CDC 1604	CDC 1604	CDC 1604	L	S	171
DENVER	COMM	NAT BUR STAND	12		IBM 1401	IBM 1401	L	S	176
DENVER	COMM	NAT BUR STAND	12			IBM 7090	L	S	176
DENVER	AF	ACCTG AND FIN	22	RCA 501	RCA 501	RCA 501	L	AP	441
DENVER	AF	ACCTG AND FIN	22			NOT DET	L	AP	176
DENVER	AF	CONT AIR COMM	62	RCA 501	RCA 501	RCA 501	L	AP	326
DENVER	ARMY	SURG GEN	51			RCA 301	L	S	200
DENVER	GSA	REGION 8	8	IBM 305			L	AP	257
DENVER	GSA	REGION 8	8		IBM 1401	IBM 1401	L	AP	174
DENVER	INT	MINES	5			GEL 225	L	S	166
DENVER	INT	RECLAMATION	7	IBM 650	IBM 650	IBM 650	L	AS	232
DENVER	VA	INSURANCE	4			IBM 1401	L	P	296
DETROIT	AF	AIR DEF COMM	13		IBM 305	IBM 305	L	A	383
DETROIT	ARMY	ENGINEERS	35	ROY LG30	ROY LG30	ROY LG30	L	S	168
DETROIT	ARMY	ORDNANCE	71	BUR 204	BUR 204	BUR 204	P	S	168
DETROIT	ARMY	ORDNANCE	72	RCA BIZ	RCA BIZ		P	A	362
DETROIT	ARMY	ORDNANCE	72	RCA 501	RCA 501	RCA 501	P	A	362
DETROIT	ARMY	ORDNANCE	72		RCA 501	RCA 501	L	A	362
DETROIT	ARMY	ORDNANCE	72		RCA 301	RCA 301	L	A	362
					RCA 301	RCA 301	L	A	362
DOVER NJ	ARMY	ORDNANCE	74	IBM 650					
DOVER NJ	ARMY	ORDNANCE	74		IBM 709	IBM 709	L	S	264
DOVER NJ	ARMY	ORDNANCE	74		IBM 1401	IBM 1401	L	S	120
DUGWAY UTAH	ARMY	CHEMICAL	17		IBM 1620		L	AS	110
DUGWAY UTAH	ARMY	CHEMICAL	17			NOT DET	L	APS	120
							L	APS	240

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
DULUTH MINN	AF	AIR DEF COMM	18			IBM 305	L	A	240
EDGEWOOD MD	ARMY	CHEMICAL	12	REM UII			L	A	225
EDGEWOOD MD	ARMY	CHEMICAL	12		REM UII	REM UII	L	A	225
EDGEWOOD MD	ARMY	CHEMICAL	13	BUR 205	BUR 205		L	S	216
EDGEWOOD MD	ARMY	CHEMICAL	13		REM SS90	REM SS90	L	S	176
EDGEWOOD MD	ARMY	CHEMICAL	14	ROY LG30	ROY LG30	ROY LG30	L	PS	190
EDGEWOOD MD	ARMY	CHEMICAL	15	ROY 4000	ROY 4000	ROY 4000	L	PS	176
EDGEWOOD MD	ARMY	CHEMICAL	16		IBM 1620	IBM 1620	L	S	84
EL PASO	AF	STRATEGIC AIR C	124	IBM 305	IBM 305		L	A	297
EL PASO	AF	STRATEGIC AIR C	124			NOT DET	L	A	176
EL PASO	ARMY	CONARC	143			NOT DET	L	A	120
EL PASO	ARMY	CONARC	144	IBM 650			L	P	160
EL PASO	ARMY	CONARC	144		IBM 1620	IBM 1620	L	P	202
ENGLAND	AF	STRATEGIC AIR C	104	IBM 305	IBM 305		L	P	160
ENGLAND	AF	STRATEGIC AIR C	104			NOT DET	L	P	176
ENGLAND	AF	STRATEGIC AIR C	143	IBM 305	IBM 305	IBM 305	L	A	260
FAIRBANKS ALAS	AF	ALASKAN AIR COM	3			IBM 305	L	A	312
FALMOUTH MASS	AF	AIR DEF COMM	14		IBM 305	IBM 305	L	A	323
FAYETTEVILLE	AF	TACTICAL AIR C	163		IBM 1401	IBM 1401	L	A	176
FAYETTEVILLE	AF	TACTICAL AIR C	163			IBM 305	L	A	264
FAYETTEVILLE	ARMY	CONARC	141			NOT DET	L	A	176
FORT WORTH	AF	STRATEGIC AIR C	120	IBM 305	IBM 305		L	A	353
FORT WORTH	AF	STRATEGIC AIR C	120			NOT DET	L	A	176
FORT WORTH	ARMY	ENGINEERS	34	BEN G15	BEN G15	BEN G15	L	S	108
FORT WORTH	ARMY	OMG	101			NOT DET	L	A	176
FRANCE	OSD	DEF COMM AGENCY	9			IBM 1410	P	P	374
FRANCE	AF	LOGISTICS COMM	38			IBM 650	L	P	150
FRANCE	ARMY	US ARMY EUROPE	151	IBM 650	IBM 650		L	A	287
FRANCE	ARMY	US ARMY EUROPE	151			IBM 1401	L	A	200
FRANCE	ARMY	US ARMY EUROPE	153	IBM 305	IBM 305	IBM 305	L	A	382
FRANCE	ARMY	US ARMY EUROPE	153	IBM 205	IBM 305	IBM 305	L	A	312
FRANCE	ARMY	US ARMY EUROPE	153			MOBIDIC	P	A	200
FRANCE	ARMY	US ARMY EUROPE	155	IBM 305	IBM 305		L	A	550
FRANCE	ARMY	US ARMY EUROPE	155			RCA 301	L	A	270
FRANCE	ARMY	US ARMY EUROPE	157			IBM 1401	L	A	175
FREDERICK MD	ARMY	CHEMICAL	18	REM SS90	REM SS90	REM SS90	P	AS	172
FT HUACHUCA AR	ARMY	SIGNAL	120	IBM 709	IBM 709		L	PS	279
FT HUACHUCA AR	ARMY	SIGNAL	120			NOT DET	L	PS	279
FT HUACHUCA AR	ARMY	SIGNAL	120	IBM 1401	IBM 1401	IBM 1401	L	PS	234
FT WALTON FLA	AF	SYSTEMS COMM	50	IBM 7090	IBM 7090	IBM 7090	L	AS	176
FT WALTON FLA	AF	SYSTEMS COMM	50	IBM 1401	IBM 1401	IBM 1401	L	S	176
FT WALTON FLA	AF	SYSTEMS COMM	50	IBM 1401	IBM 1401	IBM 1401	L	AS	176
FT WALTON FLA	AF	SYSTEMS COMM	50	REM 1103			P	S	176
FT WALTON FLA	AF	SYSTEMS COMM	50	ROY LG30	ROY LG30		L	S	176
FT WALTON FLA	AF	SYSTEMS COMM	50			NOT DET	L	S	176
FT WALTON FLA	AF	SYSTEMS COMM	50	IBM 650	IBM 650	IBM 650	L	A	146
FT WORTH	COMM	WEATHER BUREAU	18		IBM 1620	IBM 1620	L	PS	160
GERMANTOWN MD	AEC	HEADQUARTERS	1			NOT DET	R	A	130
GERMANY	AF	USAF EUROPE	165	IBM 650			L	A	465
GERMANY	AF	USAF EUROPE	165		IBM 1410	IBM 1410	L	A	221
GERMANY	AF	USAF EUROPE	166			IBM 1410	L	P	350
GERMANY	AF	SECURITY SERV	168	IBM 1401	IBM 1401		L	P	423
GERMANY	AF	SECURITY SERV	168		IBM 1401	IBM 1401	L	P	394
GERMANY	AF	SECURITY SERV	168		IBM 1410	IBM 1410	L	P	350
GERMANY	AF	SECURITY SERV	170			IBM 1401	L	P	260
GERMANY	ARMY	US ARMY EUROPE	152			NCR 315	L	A	103
GERMANY	ARMY	US ARMY EUROPE	152			NCR 315	L	A	135
GERMANY	ARMY	US ARMY EUROPE	154	IBM 650			L	A	328
GERMANY	ARMY	US ARMY EUROPE	154		IBM 1401	IBM 1401	L	A	413
GERMANY	ARMY	US ARMY EUROPE	154			IBM 1401	L	A	400
GERMANY	ARMY	US ARMY EUROPE	156	IBM 650			L	A	557
GERMANY	ARMY	US ARMY EUROPE	156	MOBIDIC	MOBIDIC	MOBIDIC	P	A	459
GLASGOW MONT	AF	STRATEGIC AIR C	142	IBM 305	IBM 305	IBM 305	L	A	251
GOLDSBORO NC	AF	TACTICAL AIR C	154	IBM 305	IBM 305		L	A	264
GOLDSBORO NC	AF	TACTICAL AIR C	154	IBM 305	IBM 305		L	A	264
GOLDSBORO NC	AF	TACTICAL AIR C	154		IBM 1401	IBM 1401	L	A	176
GOLDSBORO NC	AF	TACTICAL AIR C	154			NOT DET	L	A	398
GOLETA CAL	AEC	NEVADA OO	38		NAA REC2	NAA REC2	L	S	200
GRAND FORKS ND	AF	AIR DEF COMM	19		IBM 305	IBM 305	L	A	533
GREAT FALLS	AF	STRATEGIC AIR C	137	IBM 305	IBM 305	IBM 305	L	A	233
GUAM	AF	STRATEGIC AIR C	147	IBM 305	IBM 305	IBM 305	L	A	165
GWINN MICH	AF	AIR DEF COMM	16			IBM 305	L	A	380
HAGERSTOWN	OSD	DASA	4	ROY LG30	ROY LG30		L	C	5
HAGERSTOWN	OSD	DASA	4	ROY LG30	ROY LG30		L	C	5
HAGERSTOWN	OSD	DASA	6		IBM 1401	IBM 1401	L	P	176
HAGERSTOWN	OSD	DASA	6			CDC 1604	L	P	176
HAGERSTOWN	OSD	DEF COMM AGENCY	11			IBM 1410	P	P	374
HAGERSTOWN	ARMY	SIGNAL	116	IBM 650	IBM 650		L	P	44
HAGERSTOWN	ARMY	SIGNAL	116			NOT DET	L	P	176
HAGERSTOWN	ARMY	SIGNAL	116			NOT DET	L	P	176
HAMPTON VA	AF	TACTICAL AIR C	152	BUR 220	BUR 220	BUR 220	L	AS	430
HAMPTON VA	AF	TACTICAL AIR C	152			IBM 1401	L	A	176
HAMPTON VA	AF	TACTICAL AIR C	156		IBM 1401	IBM 1401	L	A	176

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
HAMPTON VA	AF	TACTICAL AIR C	156			IBM 305	L	A	264
HANOVER NH	ARMY	ENGINEERS	33	BEN G15	BEN G15	BEN G15	P	S	190
HARRISBURG	AF	LOGISTICS COMM	30	IBM 650	IBM 650		L	AP	240
HARRISBURG	AF	LOGISTICS COMM	30			NOT DET	L	AP	400
HARRISBURG	AF	LOGISTICS COMM	30	IBM 650	IBM 650	IBM 650	L	P	560
HARRISBURG	AF	LOGISTICS COMM	30	IBM 1401	IBM 1401	IBM 1401	L	P	480
HARRISBURG	AF	LOGISTICS COMM	30	IBM 705	IBM 705		L	P	500
HARRISBURG	AF	LOGISTICS COMM	30		IBM 1401	IBM 1401	L	P	500
HARRISBURG	AF	LOGISTICS COMM	30		IBM 1401	IBM 1401	L	P	500
HARRISBURG	ARMY	QMG	104			IBM 7080	L	P	400
HARRISBURG	NAVY	SUP AND ACCTS	35			NOT DET	L	A	176
HARRISBURG	NAVY	SUP AND ACCTS	35	BUR 220	BUR 220	BUR 220	L	P	400
HARRISBURG	NAVY	SUP AND ACCTS	35		BUR 220	BUR 220	L	P	400
HARRISBURG	NAVY	SUP AND ACCTS	35	IBM 705			L	P	560
HARRISBURG	NAVY	SUP AND ACCTS	35		IBM 7080	IBM 7080	L	P	250
HARRISBURG	NAVY	SUP AND ACCTS	35	IBM 1401	IBM 1401	IBM 1401	L	P	520
HARRISBURG	NAVY	SUP AND ACCTS	35	IBM 1401	IBM 1401	IBM 1401	L	P	520
			35		IBM 1401	IBM 1401	L	A	250
HAWAII	AF	STRATEGIC AIR C	103	IBM 305	IBM 305				
HAWAII	AF	STRATEGIC AIR C	103				L	P	120
HAWAII	ARMY	US ARMY PACIFIC	158			NOT DET	L	P	100
HAWAII	ARMY	US ARMY PACIFIC	158	IBM 650	IBM 650		L	A	446
					IBM 1401	IBM 1401	L	A	161
HONOLULU	OSD	DEF COMM AGENCY	10			IBM 1410	P	P	374
HONOLULU	AF	PACIFIC FORCES	87	BUR 220	BUR 220		L	A	235
HONOLULU	AF	PACIFIC FORCES	87			IBM 1401	L	AP	113
HONOLULU	AF	PACIFIC FORCES	88	IBM 650	IBM 650		L	P	112
HONOLULU	AF	PACIFIC FORCES	88			NOT DET	L	P	176
HONOLULU	NAVY	SHIPS	89			IBM 1401	L	A	288
HONOLULU	NAVY	SUP AND ACCTS	19		IBM 1401	IBM 1401	L	A	264
HONOLULU	NAVY	SUP AND ACCTS	29	IBM 1401	IBM 1401		L	AP	250
			29			IBM 1410	L	AP	176
HOUSTON	NASA	MANNED SP FL CN	12						
HOUSTON	NASA	MANNED SP FL CN	13		NAA REC2	NAA REC2	L	S	150
					IBM 1620	IBM 1620	L	S	176
HUNTINGTON WVA	ARMY	ENGINEERS	43	BUR E101					
HUNTINGTON WVA	ARMY	ENGINEERS	43				L	S	146
					IBM 1620	IBM 1620	L	S	150
HUNTSVILLE ALA	ARMY	ORDNANCE	53		IBM 1620	IBM 1620	L	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	53	ROY 4000	ROY 4000	ROY 4000	L	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	53		ROY 4000	ROY 4000	L	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	53		ROY 4000	ROY 4000	L	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	53	ROY LG30	ROY LG30	ROY LG30	L	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	53	BUR 205	BUR 205	BUR 205	P	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	53	IBM 1620	IBM 1620	IBM 1620	L	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	53		IBM 1620	IBM 1620	L	S	132
HUNTSVILLE ALA	ARMY	ORDNANCE	55	ROY LG30			L	P	185
HUNTSVILLE ALA	ARMY	ORDNANCE	55		IBM 1620	IBM 1620	L	P	171
HUNTSVILLE ALA	ARMY	ORDNANCE	56		IBM 1401	IBM 1401	L	AP	200
HUNTSVILLE ALA	ARMY	ORDNANCE	57		IBM 1401	IBM 1401	L	A	350
HUNTSVILLE ALA	ARMY	ORDNANCE	57			IBM 1401	L	A	375
HUNTSVILLE ALA	ARMY	ORDNANCE	57		IBM 7090	IBM 7090	L	S	260
HUNTSVILLE ALA	ARMY	ORDNANCE	57		IBM 1401	IBM 1401	L	S	250
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	15		IBM 1410	IBM 1410	L	A	350
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16	BEN G15	BEN G15	BEN G15	L	S	114
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16	BUR E101			L	S	78
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16	BUR 205			L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16	BUR 205			L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16	BUR 205			L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16	BUR 205	BUR 205		L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16				L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16		GEL 225	GEL 225	L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16		GEL 225	GEL 225	L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16		GEL 225	GEL 225	L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	16		GEL 225	GEL 225	L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	17			GEL 225	L	S	176
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	LIB L500	LIB L500		L	S	92
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 705	IBM 705	IBM 705	L	A	528
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 7090	IBM 7090	IBM 7090	L	S	528
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 7090	IBM 7090	IBM 7090	L	S	528
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1401	IBM 1401	IBM 1401	L	S	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1401	IBM 1401	IBM 1401	L	S	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1401	IBM 1401	IBM 1401	L	S	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 705	IBM 705	IBM 705	L	A	528
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19	NAA REC2	NAA REC2	NAA REC2	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1401	IBM 1401	IBM 1401	L	S	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1401	IBM 1401	IBM 1401	L	S	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18		IBM 1401	IBM 1401	L	S	350
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18		IBM 1401	IBM 1401	L	A	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18		IBM 1401	IBM 1401	L	A	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1620	IBM 1620	IBM 1620	L	S	352
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1620	IBM 1620	IBM 1620	L	S	75
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1620	IBM 1620	IBM 1620	L	S	75
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	18	IBM 1620	IBM 1620	IBM 1620	L	S	75
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19	NAA REC2	NAA REC2	IBM 1620	L	S	75
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19	NAA REC2	NAA REC2	NAA REC2	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19		NAA REC2	NAA REC2	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19		NAA REC2	NAA REC2	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19		NAA REC2	NAA REC2	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19		NAA REC2	NAA REC2	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	19		NAA REC2	NAA REC2	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	20		NAA REC3	NAA REC3	L	S	135
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21		PAB 250	PAB 250	L	S	120
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY 4000	ROY 4000	ROY 4000	L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21		ROY 4000	ROY 4000	L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY LG30	ROY LG30	ROY LG30	L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY LG30	ROY LG30	ROY LG30	L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY LG30			L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY LG30			L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY LG30			L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY LG30	ROY LG30	ROY LG30	L	S	90
				ROY LG30			L	S	90

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
							L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21	ROY 4000	ROY 4000	ROY 4000	L	S	90
HUNTSVILLE ALA	NASA	MARSHL SP FL CN	21		IBM 1401	IBM 1401	L	A	155
IDAHO FALLS	AEC	IDAHO OO	17						
INDIANAPOLIS	ARMY	FINANCE	1	IBM 650	IBM 650		L	AP	337
INDIANAPOLIS	ARMY	FINANCE	1		HON 800	HON 800	L	AP	471
INDIANAPOLIS	ARMY	FINANCE	1			NOT DET	L	AP	176
INDIANAPOLIS	ARMY	FINANCE SCHOOL	4			NOT DET	L	AS	150
INDIANAPOLIS	ARMY	DCSPERS	132	IBM 650	IBM 650	NOT DET	L	AP	142
INDIANAPOLIS	NAVY	WEAPONS	67		GEL 225	IBM 650	L	S	181
INDIANAPOLIS	NAVY	WEAPONS	67	IBM 650	IBM 650	GEL 225	L	S	176
INDIANAPOLIS	FAA	AIR TRAFFIC SER	5				L	P	480
INDIANAPOLIS	FAA	AIR TRAFFIC SER	5			REM UFC2	L	P	480
					IBM 1401	IBM 1401	L	A	500
JACKSONVILLE	NAVY	WEAPONS	68			NOT DET	L	A	176
JACKSONVILLE	NAVY	WEAPONS	68						
							L	A	138
JAPAN	AF	PACIFIC FORCES	91	IBM 650	IBM 650	IBM 650	L	P	443
JAPAN	AF	PACIFIC FORCES	92	IBM 650	IBM 650		L	AP	325
JAPAN	AF	PACIFIC FORCES	92			NOT DET	L	A	352
JAPAN	AF	PACIFIC FORCES	93			IBM 1401	L	P	176
JAPAN	AF	PACIFIC FORCES	93			IBM 1620	L	A	481
JAPAN	AF	PACIFIC FORCES	96	BUR 205	BUR 205		L	A	352
JAPAN	AF	PACIFIC FORCES	96			IBM 1401	L	A	176
JAPAN	AF	PACIFIC FORCES	96			IBM 1620	L	P	176
JAPAN	AF	PACIFIC FORCES	97			IBM 1620	L	P	264
JAPAN	AF	SECURITY SERV	171		IBM 1401	IBM 1401	L	P	
JAPAN	AF						L	AP	256
JERSEY CITY	NAVY	SUP AND ACCTS	26	IBM 650	IBM 1401	IBM 1401	L	AP	250
JERSEY CITY	NAVY	SUP AND ACCTS	26	IBM 1401	IBM 1401		L	AP	210
JERSEY CITY	NAVY	SUP AND ACCTS	26			IBM 1410	L	AP	202
JERSEY CITY	NAVY	SUP AND ACCTS	26			IBM 1401	L	AP	202
JERSEY CITY	NAVY	SUP AND ACCTS	26						
					PAB 250	PAB 250	L	S	170
JOHNSON ISLAND	AEC	ALBUQUERQUE OO	53						
							L	S	318
JOHNSVILLE PA	NAVY	WEAPONS	70	IBM 650	IBM 650	IBM 650	P	S	176
JOHNSVILLE PA	NAVY	WEAPONS	70	BEN G15	BEN G15	BEN G15			
							L	AS	199
KANSAS CITY	AEC	ALBUQUERQUE OO	65	IBM 650	IBM 650		L	S	254
KANSAS CITY	AEC	ALBUQUERQUE OO	65	BEN G15	BEN G15	BEN G20	L	S	75
KANSAS CITY	AEC	ALBUQUERQUE OO	65			IBM 1401	L	A	278
KANSAS CITY	AEC	ALBUQUERQUE OO	65		IBM 1401		L	AS	401
KANSAS CITY	AEC	ALBUQUERQUE OO	65	IBM 650	IBM 650		L	A	176
KANSAS CITY	AEC	ALBUQUERQUE OO	65			IBM 1410	L	P	176
KANSAS CITY	AEC	ALBUQUERQUE OO	65			IBM 7074	L	P	176
KANSAS CITY	AGRI	STAB AND CONS	6			IBM 1401	L	P	176
KANSAS CITY	AGRI	STAB AND CONS	6			IBM 1401	L	P	176
KANSAS CITY	AGRI	STAB AND CONS	6			REM UII	L	P	340
KANSAS CITY	AGRI	STAB AND CONS	6		REM UII	REM UII	L	P	340
KANSAS CITY	AGRI	STAB AND CONS	6			REM UII	L	P	368
KANSAS CITY	AGRI	STAB AND CONS	7	REM UII			L	P	305
KANSAS CITY	AF	AIR DEF COMM	17	IBM 305	IBM 305	IBM 305	L	A	109
KANSAS CITY	ARMY	ENGINEERS	29			IBM 1620	L	S	178
KANSAS CITY	ARMY	ENGINEERS	41	BUR E102			L	S	200
KANSAS CITY	ARMY	ENGINEERS	41	IBM 1620	IBM 1620	IBM 1620	L	AS	225
KANSAS CITY	GSA	REGION 6	6	IBM 305			L	AP	188
KANSAS CITY	GSA	REGION 6	6		IBM 1401	IBM 1401	L	AP	160
KANSAS CITY	HEW	SOCIAL SECURITY	2	RCA 501	RCA 501	RCA 501	L	P	150
KANSAS CITY	HEW	SOCIAL SECURITY	2		RCA 301	RCA 301	L	P	238
KANSAS CITY	TREAS	ACCOUNTS	3		IBM 1401	IBM 1401	L	P	330
KANSAS CITY	TREAS	INTERNAL REV	10	IBM 650			L	AP	296
KANSAS CITY	TREAS	INTERNAL REV	10		IBM 7070	IBM 7070	L	P	200
KANSAS CITY	TREAS	INTERNAL REV	10		IBM 1401	IBM 1401	L	AP	200
KANSAS CITY	TREAS	INTERNAL REV	10		IBM 1401	IBM 1401	L	AP	200
KANSAS CITY	TREAS	INTERNAL REV	10		IBM 1401	IBM 1401	L	AP	200
KANSAS CITY	TREAS	INTERNAL REV	10		IBM 1401		L	P	197
KANSAS CITY	TREAS	INTERNAL REV	10		IBM 305		L	P	197
KANSAS CITY	TREAS	INTERNAL REV	10		IBM 305		L	P	197
KANSAS CITY	TREAS	INTERNAL REV	10			IBM 1401	L	AP	199
KANSAS CITY	TREAS	INTERNAL REV	10						
					PAB 250		L	S	170
KAVAI ISLAND	AEC	ALBUQUERQUE OO	53						
					IBM 1620	IBM 1620	L	S	176
KEY WEST FLA	NAVY	WEAPONS	72						
					IBM 1401	IBM 1401	L	AS	200
KEYPORT WASH	NAVY	WEAPONS	71						
KNOBNOSTER MO	AF	STRATEGIC AIR C	111	IBM 305	IBM 305	IBM 305	L	A	194
KNOXVILLE	AEC	OAK RIDGE OO	21	IBM 7090	IBM 7090	IBM 7090	P	AS	530
KNOXVILLE	AEC	OAK RIDGE OO	21	IBM 1401	IBM 1401	IBM 1401	P	AS	510
KNOXVILLE	AEC	OAK RIDGE OO	21		CDC 160A		L	AS	250
KNOXVILLE	AEC	OAK RIDGE OO	21			IBM 1401	P	AS	510
KNOXVILLE	AEC	OAK RIDGE OO	21			IBM 1401	P	AS	510
KNOXVILLE	AEC	OAK RIDGE OO	22	ORACLE	ORACLE		P	S	352
KNOXVILLE	AEC	OAK RIDGE OO	22			CDC 1604	L	S	176
KNOXVILLE	AEC	OAK RIDGE OO	23	IBM 1401	IBM 1401		P	A	485
KNOXVILLE	AEC	OAK RIDGE OO	25		IBM 1401	IBM 1401	L	A	290
KNOXVILLE	TVA	TVA	2	ROY LG30	ROY LG30	ROY LG30	L	S	170
KNOXVILLE						IBM 1620	L	P	176
KOREA	AF	PACIFIC FORCES	95						
				IBM 305	IBM 305	IBM 305	L	A	261
LABRADOR	AF	STRATEGIC AIR C	128						
					IBM 1620	IBM 1620	L	AS	220
LAS VEGAS	AEC	NEVADA OO	39			IBM 1401	L	S	176
LAS VEGAS	AEC	NEVADA OO	39				L	AS	120
LAS VEGAS	AEC	ALBUQUERQUE OO	44	IBM 305			L	PS	300
LAS VEGAS	AEC	ALBUQUERQUE OO	44		IBM 1401	IBM 1401	L	A	176
LAS VEGAS	AF	TACTICAL AIR C	160		IBM 1401		L	A	352
LAS VEGAS	AF	TACTICAL AIR C	160		IBM 305		L	A	318
LAS VEGAS	AF	TACTICAL AIR C	160			NOT DET	L	A	
LAWRENCE MASS	TREAS	INTERNAL REV	9	IBM 7070	IBM 7070	IBM 7070	L	AP	204
LAWRENCE MASS	TREAS	INTERNAL REV	9	IBM 1401	IBM 1401	IBM 1401	L	AP	217
LAWRENCE MASS	TREAS	INTERNAL REV	9	IBM 1401	IBM 1401	IBM 1401	L	AP	217
LAWRENCE MASS	TREAS	INTERNAL REV	9	IBM 1401	IBM 1401	IBM 1401	L	AP	214
LAWRENCE MASS	TREAS	INTERNAL REV	9	IBM 305	IBM 305		L	AP	315

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
LAWRENCE MASS	TREAS	INTERNAL REV	9	IBM 305	IBM 305		L	AP	315
LAWRENCE MASS	TREAS	INTERNAL REV	9			IBM 1401	L	AP	211
LAWRENCE MASS	TREAS	INTERNAL REV	9	IBM 650			L	AP	376
LAWTON OKLA	ARMY	CONARC	145	BEN G15	BEN G15	BEN G15	P	S	195
LAWTON OKLA	ARMY	CONARC	146			NOT DET	L	AP	176
LEAVENWORTH	ARMY	CONARC	147	BEN G15	BEN G15				
LEAVENWORTH	ARMY	CONARC	148			NOT DET	L	X	225
							L	A	176
LEXINGTON KY	ARMY	SIGNAL	119	IBM 650	IBM 650				
LEXINGTON KY	ARMY	SIGNAL	119			IBM 1410	L	A	436
							L	A	315
LIMESTONE ME	AF	STRATEGIC AIR C	123	IBM 305	IBM 305				
LIMESTONE ME	AF	STRATEGIC AIR C	123			NOT DET	L	A	300
							L	A	176
LINCOLN NEBR	AF	STRATEGIC AIR C	140	IBM 305	IBM 305				
LINCOLN NEBR	AF	STRATEGIC AIR C	140			NOT DET	L	A	232
							L	A	176
LITTLE ROCK	AF	STRATEGIC AIR C	112	IBM 305	IBM 305	IBM 305	L	A	205
LITTLE ROCK	ARMY	ENGINEERS	38	BEN G15	BEN G15	BEN G15	L	S	150
LONG BEACH CAL	NAVY	SHIPS	15	BUR 220	BUR 220	BUR 220	L	A	304
LONG BEACH CAL	NAVY	SHIPS	15			NOT DET	L	A	176
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69	IBM 704			P	S	350
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69	IBM 704	IBM 704	IBM 704	P	S	400
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69	IBM 650			L	S	100
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69	IBM 1401	IBM 1401	IBM 1401	L	S	260
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69	IBM 1401	IBM 1401	IBM 1401	L	S	260
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69		IBM 1401	IBM 1401	L	S	260
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69		IBM 1401	IBM 1401	L	S	260
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69		IBM 1620	IBM 1620	L	S	176
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69	IBM 7090	IBM 7090	IBM 7090	P	S	400
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	69		IBM 7090	IBM 7090	P	S	400
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	70	IBM 7030	IBM 7030	IBM 7030	P	S	300
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	71	MANIAC	MANIAC	MANIAC	P	S	350
LOS ALAMOS NM	AEC	ALBUQUERQUE OO	72	IBM 1401	IBM 1401	IBM 1401	L	A	175
LOS ALAMOS NM	AEC	LOS ALAMOS AO	73		IBM 1401	IBM 1401	L	A	100
				IBM 1401	IBM 1401	IBM 1401	L	A	115
LOS ANGELES	AF	SYSTEMS COMM	46	READIX	READIX	READIX	P	S	176
LOS ANGELES	ARMY	ENGINEERS	23	BEN G15	BEN G15		L	S	222
LOS ANGELES	ARMY	ENGINEERS	23		BEN G15	BEN G15	P	S	222
LOS ANGELES	ARMY	ORDNANCE	60	IBM 305	IBM 305	IBM 305	L	AP	154
LOS ANGELES	NAVY	WEAPONS	65	IBM 1401	IBM 1401	IBM 1401	L	A	143
LOS ANGELES	VA	MED & SURGERY	8		IBM 1401	IBM 1401	L	A	132
LOUISVILLE	ARMY	SURG GEN	47	IBM 305	IBM 305	IBM 305	L	A	237
LOUISVILLE	ARMY	CONARC	138			NOT DET	L	A	152
MACON GA	AF	LOGISTICS COMM	31	IBM 650			L	AP	410
MACON GA	AF	LOGISTICS COMM	31	IBM 650	IBM 650		L	AP	470
MACON GA	AF	LOGISTICS COMM	31	IBM 650	IBM 650	IBM 650	L	AP	340
MACON GA	AF	LOGISTICS COMM	31	REM UFCO		NOT DET	L	AP	400
MACON GA	AF	LOGISTICS COMM	31				L	P	400
MACON GA	AF	LOGISTICS COMM	31		REM SS80	REM SS80	L	P	490
MACON GA	AF	LOGISTICS COMM	31	REM 1105	REM SS80	REM SS80	L	P	400
MACON GA	AF	LOGISTICS COMM	31		REM 1105	REM 1105	L	P	290
MACON GA	NAVY	WEAPONS	74	IBM 1401	REM STEP	REM STEP	L	P	400
					IBM 1401	IBM 1401	L	A	143
MADISON WIS	AGRI	FOREST SERVICE	11		IBM 1620	IBM 1620	L	PS	158
MADISON WIS	AF	AIR DEF COMM	20	IBM 305	IBM 305	IBM 305	L	A	242
MARTINSBURG WV	TREAS	INTERNAL REV	12		IBM 7070		L	P	182
MARTINSBURG WV	TREAS	INTERNAL REV	12			IBM 7074	L	P	152
MARTINSBURG WV	TREAS	INTERNAL REV	12		IBM 1401	IBM 1401	L	P	176
MARYSVILLE CAL	AF	STRATEGIC AIR C	146	IBM 305	IBM 305		L	A	213
MARYSVILLE CAL	AF	STRATEGIC AIR C	146			NOT DET	L	A	176
MCCOOK NEBR	INT	RECLAMATION	9	BEN G15	BEN G15	BEN G15	L	S	130
MEMPHIS	AF	LOGISTICS COMM	36	IBM 650	IBM 650		L	AP	380
MEMPHIS	AF	LOGISTICS COMM	36			NOT DET	L	AP	400
MEMPHIS	AF	LOGISTICS COMM	36	IBM 705			L	P	590
MEMPHIS	AF	LOGISTICS COMM	36	IBM 1401	IBM 1401	IBM 1401	L	P	540
MEMPHIS	AF	LOGISTICS COMM	36		IBM 1401	IBM 1401	L	P	400
MEMPHIS	ARMY	QMG	103		IBM 7080	IBM 7080	L	P	400
						NOT DET	L	A	176
MERCED CAL	AF	STRATEGIC AIR C	133	IBM 305	IBM 305				
MERCED CAL	AF	STRATEGIC AIR C	133			NOT DET	L	A	348
							L	A	176
METUCHEN NJ	ARMY	ORDNANCE	77	IBM 305					
METUCHEN NJ	ARMY	ORDNANCE	77	IBM 305			L	A	200
							L	A	200
MIAMI	COMM	WEATHER BUREAU	19	IBM 650					
MIAMI	COMM	WEATHER BUREAU	19		GEL 225	GEL 225	L	PS	170
MIAMI	AF	STRATEGIC AIR C	113	IBM 305	IBM 305		L	PS	190
MIAMI	AF	STRATEGIC AIR C	113			NOT DET	L	A	173
							L	A	176
MIDDLETOWN CON	AEC	NEW YORK OO	42	IBM 305	IBM 305	IBM 305	L	A	250
MIDDLETOWN CON	AEC	NEW YORK OO	43	BEN G15	BEN G15	BEN G15	L	S	176
MINNEAPOLIS	PO	REGION 9	9	IBM 650	IBM 650	IBM 650	L	A	158
MINNEAPOLIS	VA	INSURANCE	3			IBM 1401	L	P	284
MISSOULA MONT	AGRI	FOREST SERVICE	10	IBM 650	IBM 650	IBM 650	L	APS	184
MOBILE ALA	AF	LOGISTICS COMM	32	IBM 650	IBM 650				
MOBILE ALA	AF	LOGISTICS COMM	32		IBM 650		L	AP	430
MOBILE ALA	AF	LOGISTICS COMM	32			NOT DET	L	AP	200
MOBILE ALA	AF	LOGISTICS COMM	32	IBM 650	IBM 650	IBM 650	L	AP	400
MOBILE ALA	AF	LOGISTICS COMM	32	IBM 1401	IBM 1401	IBM 1401	L	P	470
							L	P	590

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
MOBILE ALA	AF	LOGISTICS COMM	32	IBM 705			L	P	550
MOBILE ALA	AF	LOGISTICS COMM	32	IBM 705			L	P	610
MOBILE ALA	AF	LOGISTICS COMM	32		IBM 1401	IBM 1401	L	P	610
MOBILE ALA	AF	LOGISTICS COMM	32		IBM 1401	IBM 1401	L	P	580
MOBILE ALA	AF	LOGISTICS COMM	32		IBM 1401	IBM 1401	L	P	580
MOBILE ALA	AF	LOGISTICS COMM	32		IBM 7080	IBM 7080	L	P	400
MONTEREY CAL	NAVY	PERSONNEL	48	NCR 102			P	AS	40
MONTEREY CAL	NAVY	PERSONNEL	48	CDC 1604	CDC 1604	CDC 1604	P	AS	535
MONTEREY CAL	NAVY	PERSONNEL	48	CDC 160	CDC 160	CDC 160	P	AS	360
MONTEREY CAL	NAVY	PERSONNEL	48		IBM 1401	IBM 1401	L	AS	225
MONTEREY CAL	NAVY	WEAPONS	73		CDC 1604	CDC 1604	P	PS	176
MONTEREY CAL	NAVY	WEAPONS	73		CDC 160A	CDC 160A	L	PS	176
MONTEREY CAL	NAVY	WEAPONS	73		CDC 160A	CDC 160A	L	PS	176
MONTEREY CAL	NAVY	WEAPONS	73		CDC 160A	CDC 160A	L	PS	176
MONTEREY CAL	NAVY	WEAPONS	73		CDC 160A	CDC 160A	P	PS	176
MONTEREY CAL	NAVY	WEAPONS	73	IBM 1620			L	PS	176
MONTEREY CAL	NAVY	WEAPONS	73	CDC 1604	CDC 1604	CDC 1604	P	S	176
MONTEREY CAL	NAVY	WEAPONS	73		IBM 1401	IBM 1401	L	P	176
MONTEREY CAL	NAVY	WEAPONS	73						
MONTGOMERY ALA	AF	AIR UNIVERSITY	58	REM UI	REM UI		P	A	320
MONTGOMERY ALA	AF	AIR UNIVERSITY	58			NOT DET	P	A	178
MONTGOMERY ALA	AF	AIR UNIVERSITY	59			NOT DET	L	A	176
MOSES LAK WASH	AF	STRATEGIC AIR C	141	IBM 305	IBM 305	IBM 305	L	A	223
MOUNTAIN V CAL	NASA	AMES RES CN	2	BUR 204	BUR 204		P	S	109
MOUNTAIN V CAL	NASA	AMES RES CN	2	BUR 205	BUR 205		P	SX	145
MOUNTAIN V CAL	NASA	AMES RES CN	2	IBM 704			L	SX	238
MOUNTAIN V CAL	NASA	AMES RES CN	2	IBM 1401	IBM 1401	IBM 1401	L	SX	168
MOUNTAIN V CAL	NASA	AMES RES CN	2			IBM 1401	L	SX	176
MOUNTAIN V CAL	NASA	AMES RES CN	2		IBM 7090		L	SX	143
MOUNTAIN V CAL	NASA	AMES RES CN	2			IBM 7094	L	SX	176
MOUNTAIN V CAL	NASA	AMES RES CN	2		HON 800	HON 800	L	S	137
MOUNTAIN V CAL	NASA	AMES RES CN	3			MNEMO	P	X	30
MTN HOME IDAHO	AF	STRATEGIC AIR C	139	IBM 305	IBM 305	IBM 305	L	A	190
MYRTLE BEACH	AF	TACTICAL AIR C	153		IBM 1401	IBM 1401	L	A	176
MYRTLE BEACH	AF	TACTICAL AIR C	153			IBM 305	L	A	264
NAT RES EVAL C	OEP	NAT RES EVAL C	1	REM 1103	REM 1103	REM 1103	P	SC	600
NEW BERN NC	NAVY	MARINE CORPS	39	NCR 304	NCR 304	NCR 304	L	P	330
NEW BERN NC	NAVY	MARINE CORPS	39			IBM 1401	L	AP	137
NEW LONDON CON	NAVY	SHIPS	20	BUR 205	BUR 205		L	S	254
NEW LONDON CON	NAVY	SHIPS	20			IBM 704	P	S	176
NEW ORLEANS	AGRI	STAB AND CONS	3	IBM 705	IBM 705	IBM 705	P	AP	250
NEW ORLEANS	AGRI	STAB AND CONS	3		IBM 1401	IBM 1401	P	AP	200
NEW ORLEANS	AGRI	STAB AND CONS	3		IBM 1401	IBM 1401	L	AP	150
NEW ORLEANS	ARMY	TRANSPORTATION	123		IBM 1401	IBM 1401	L	A	150
NEW YORK	AEC	BROOKHAVEN O	2		IBM 7090		L	S	176
NEW YORK	AEC	BROOKHAVEN O	2			IBM 7094	L	S	176
NEW YORK	AEC	BROOKHAVEN O	2		IBM 1401	IBM 1401	L	S	352
NEW YORK	AEC	BROOKHAVEN O	2		IBM 1401	IBM 1401	L	S	352
NEW YORK	AEC	BROOKHAVEN O	3	MERLIN	MERLIN	MERLIN	P	S	176
NEW YORK	AEC	BROOKHAVEN O	4	ROY LG30	ROY LG30	ROY LG30	P	S	352
NEW YORK	AEC	BROOKHAVEN O	4	ROY LG30	ROY LG30	ROY LG30	L	S	176
NEW YORK	AEC	BROOKHAVEN O	5	ROY LG30	ROY LG30	ROY LG30	P	S	176
NEW YORK	AEC	BROOKHAVEN O	6		REM SS90	REM SS90	L	A	176
NEW YORK	AEC	NEW YORK OO	40	IBM 704			L	S	600
NEW YORK	AEC	NEW YORK OO	40		IBM 7090		L	S	300
NEW YORK	AEC	NEW YORK OO	40			IBM 7094	L	S	350
NEW YORK	AEC	NEW YORK OO	40		IBM 1401	IBM 1401	L	S	300
NEW YORK	AEC	NEW YORK OO	41	IBM 1620	IBM 1620	IBM 1620	L	S	140
NEW YORK	AEC	NEW YORK OO	18	IBM 1401	IBM 1401	IBM 1401	L	A	193
NEW YORK	OSD	DEF SUP AGENCY	9	IBM 7070	IBM 7070	IBM 7070	L	A	200
NEW YORK	ARMY	DCSLOG	9	IBM 1401	IBM 1401	IBM 1401	L	A	200
NEW YORK	ARMY	DCSLOG	122		IBM 1401	IBM 1401	L	A	196
NEW YORK	ARMY	TRANSPORTATION	122		IBM 7070	IBM 7070	L	A	196
NEW YORK	ARMY	TRANSPORTATION	134	REM UFC1	REM UFC1		L	A	339
NEW YORK	ARMY	CONARC	134			RCA 501	L	P	282
NEW YORK	ARMY	CONARC	135			NOT DET	P	AP	84
NEW YORK	NAVY	SHIPS	11	IBM 650	IBM 650		L	A	350
NEW YORK	NAVY	SHIPS	11			NCR 304	L	A	176
NEW YORK	FAA	AIR TRAFFIC SER	6	REM UFC1	REM UFC1		L	P	480
NEW YORK	FAA	AIR TRAFFIC SER	6			NOT DET	L	P	480
NEW YORK	GSA	REGION 2	2		IBM 1401	IBM 1401	L	AP	220
NEW YORK	HEW	SOCIAL SECURITY	2		RCA 301	RCA 301	L	P	160
NEW YORK	PO	REGION 2	2	IBM 650	IBM 650	IBM 650	L	A	188
NEW YORK	PO	REGION 2	2	IBM 650	IBM 650	IBM 650	L	A	197
NEW YORK	TREAS	COAST GUARD	8	IBM 305	IBM 305	IBM 305	L	P	447
NEWARK OHIO	AF	LOGISTICS COMM	30			NOT DET	L	P	176
NEWBURGH NY	AF	AIR DEF COMM	12			IBM 305	L	A	325
NEWFOUNDLAND	AF	STRATEGIC AIR C	131	IBM 305	IBM 305	IBM 305	L	A	179
NEWPORT RI	NAVY	SUP AND ACCTS	32	IBM 305	IBM 305		L	AP	378
NEWPORT RI	NAVY	SUP AND ACCTS	32			IBM 1410	L	AP	189
NEWPORT RI	NAVY	WEAPONS	75	IBM 650			L	S	240
NEWPORT RI	NAVY	WEAPONS	75		IBM 1620	IBM 1620	L	S	176
NEWPT NEWS VA	ARMY	TRANSPORTATION	129			NOT DET	L	A	129
NEWPT NEWS VA	ARMY	TRANSPORTATION	130	IBM 1620	IBM 1620	IBM 1620	L	S	160
NEWPT NEWS VA	NASA	LANGLEY RES CN	5	IBM 1401	IBM 1401		L	A	118
NEWPT NEWS VA	NASA	LANGLEY RES CN	5			IBM 1401	L	A	170
NEWPT NEWS VA	NASA	LANGLEY RES CN	6	IBM 650			L	S	175
NEWPT NEWS VA	NASA	LANGLEY RES CN	6	IBM 7090	IBM 7090		L	S	245
NEWPT NEWS VA	NASA	LANGLEY RES CN	6	IBM 1401	IBM 1401	IBM 1401	L	S	225
NEWPT NEWS VA	NASA	LANGLEY RES CN	6		IBM 1620	IBM 1620	L	S	200
NEWPT NEWS VA	NASA	LANGLEY RES CN	6			NOT DET	L	S	190
NEWPT NEWS VA	NASA	LANGLEY RES CN	7	IBM 650			L	S	180

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
NEWPT NEWS VA	NASA	LANGLEY RES CN	7	IBM 7070	IBM 7070	IBM 7070	L	S	180
NEWPT NEWS VA	NASA	LANGLEY RES CN	7	IBM 1401	IBM 1401	IBM 1401	L	S	190
NEWPT NEWS VA	NASA	LANGLEY RES CN	7		IBM 1620	IBM 1620	L	S	120
NEWPT NEWS VA	NASA	MANNED SP FL CN	11	IBM 1620	IBM 1620	IBM 1620	L	S	176
NEWPT NEWS VA	NASA	MANNED SP FL CN	14		IBM 7090	IBM 7090	L	S	200
NEWPT NEWS VA	NASA	MANNED SP FL CN	14	IBM 704			L	S	200
NORFOLK	NAVY	SHIPS	13	IBM 650	IBM 650	IBM 650	L	AS	474
NORFOLK	NAVY	SUP AND ACCTS	27			IBM 1410	L	AP	255
NORFOLK	NAVY	SUP AND ACCTS	27	IBM 1401	IBM 1401	IBM 1401	L	AP	353
NORFOLK	NAVY	PERSONNEL	50	IBM 650			L	P	350
NORFOLK	NAVY	PERSONNEL	50	IBM 1401	IBM 1401	IBM 1401	L	P	220
NORFOLK	NAVY	WEAPONS	50		IBM 1401	IBM 1401	L	P	220
NORFOLK	NAVY	WEAPONS	76	IBM 1401	IBM 1401	IBM 1401	L	A	440
NORFOLK	NAVY	WEAPONS	76			NOT DET	L	A	176
	NAVY	COMPTROLLER	77	BEN G15	BEN G15	BEN G15	L	S	349
OAHU	OSD	CINCPAC	96			NCR 390	L	A	176
OAHU	NAVY	WEAPONS	21						
			79			IBM 1401	L	AP	134
OAKLAND	NAVY	SUP AND ACCTS	28		IBM 1401	IBM 1401	L	AS	125
OAKLAND	NAVY	SUP AND ACCTS	28	IBM 650					
OAKLAND	NAVY	SUP AND ACCTS	28	PHI 2000	PHI 2000	PHI 2000	L	AP	244
OAKLAND	NAVY	SUP AND ACCTS	28		IBM 1401	IBM 1401	L	AP	512
						IBM 305	L	AP	210
OGDEN UTAH	AF	LOGISTICS COMM	28	IBM 650	IBM 650				175
OGDEN UTAH	AF	LOGISTICS COMM	28				L	AP	350
OGDEN UTAH	AF	LOGISTICS COMM	28	IBM 650	IBM 650	NOT DET	L	AP	350
OGDEN UTAH	AF	LOGISTICS COMM	28	IBM 1401	IBM 1401	IBM 650	L	AP	570
OGDEN UTAH	AF	LOGISTICS COMM	28	IBM 705		IBM 1401	L	AP	500
OGDEN UTAH	AF	LOGISTICS COMM	28	IBM 705			L	AP	430
OGDEN UTAH	AF	LOGISTICS COMM	28		IBM 1401	IBM 1401	L	AP	460
OGDEN UTAH	AF	LOGISTICS COMM	28		IBM 1401	IBM 1401	L	AP	500
OGDEN UTAH	ARMY	QMG	109		IBM 7080	IBM 7080	L	P	450
OGDEN UTAH	ARMY	QMG	109	IBM 305			L	AP	450
OGDEN UTAH	TREAS	INTERNAL REV	11	IBM 650	IBM 1410	IBM 1410	L	A	498
OGDEN UTAH	TREAS	INTERNAL REV	11				L	A	230
OGDEN UTAH	TREAS	INTERNAL REV	11		IBM 7070	IBM 7070	L	AP	322
OGDEN UTAH	TREAS	INTERNAL REV	11		IBM 1401	IBM 1401	L	AP	301
OGDEN UTAH	TREAS	INTERNAL REV	11		IBM 1401	IBM 1401	L	AP	208
OGDEN UTAH	TREAS	INTERNAL REV	11		IBM 1401	IBM 1401	L	AP	208
OGDEN UTAH	TREAS	INTERNAL REV	11		IBM 305		L	A	208
					IBM 305		L	P	318
OKINAWA	AF	PACIFIC FORCES	94			IBM 1401	L	P	318
						IBM 1620	L	AP	275
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 650	IBM 650			P	176
OKLAHOMA CITY	AF	LOGISTICS COMM	29				L	AP	410
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 650		NOT DET	L	AP	400
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 650	IBM 650		L	P	500
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 650	IBM 650		L	P	510
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 1401	IBM 1401		L	P	520
OKLAHOMA CITY	AF	LOGISTICS COMM	29			NOT DET	L	P	590
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 705	IBM 705	IBM 705	L	P	400
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 305	IBM 305	IBM 305	L	P	570
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 1401	IBM 1401	IBM 1401	L	P	410
OKLAHOMA CITY	AF	LOGISTICS COMM	29	IBM 705			L	P	560
OKLAHOMA CITY	AF	LOGISTICS COMM	29		IBM 1401	IBM 1401	L	P	570
OKLAHOMA CITY	AF	LOGISTICS COMM	29		IBM 1401	IBM 1401	L	P	500
OKLAHOMA CITY	FAA	LOGISTICS COMM	29		IBM 7080	IBM 7080	L	P	500
OKLAHOMA CITY	FAA	CONTROL SYS DIV	1	IBM 704		NOT DET	L	P	400
OKLAHOMA CITY	FAA	CONTROL SYS DIV	1		IBM 704		L	P	400
OKLAHOMA CITY	FAA	CONTROL SYS DIV	1		IBM 1401		L	APS	178
		FL STANDARDS	10	IBM 305	IBM 305	NOT DET	L	APS	191
OMAHA	AF	MATS	75	IBM 7090	IBM 7090	IBM 305	L	APS	151
OMAHA	AF	MATS	75		IBM 1401	IBM 7090	L	A	346
OMAHA	AF	STRATEGIC AIR C	98	IBM 650		IBM 1401	L	P	340
OMAHA	AF	STRATEGIC AIR C	98	IBM 650			L	P	407
OMAHA	AF	STRATEGIC AIR C	98				L	A	416
OMAHA	AF	STRATEGIC AIR C	98		NCR 304	NCR 304	L	A	360
OMAHA	AF	STRATEGIC AIR C	98		NCR 304	NCR 304	L	A	300
OMAHA	AF	STRATEGIC AIR C	99			NCR 390	L	A	207
OMAHA	AF	STRATEGIC AIR C	99	IBM 305	IBM 305		L	A	176
OMAHA	AF	STRATEGIC AIR C	100			NOT DET	L	A	297
OMAHA	AF	STRATEGIC AIR C	100	BUR 220	BUR 220	BUR 220	P	P	176
OMAHA	AF	STRATEGIC AIR C	100	ELT ALW3	ELT ALW3	ELT ALW3	P	P	176
OMAHA	AF	STRATEGIC AIR C	101	NAA REC2	NAA REC2	NAA REC2	P	P	176
OMAHA	AF	STRATEGIC AIR C	101	IBM 704			P	P	176
OMAHA	AF	STRATEGIC AIR C	101		IBM 1401	IBM 1401	L	P	398
OMAHA	ARMY	ENGINEERS	39		IBM 1401	IBM 1401	L	P	236
OMAHA	ARMY	ENGINEERS	39		IBM 7090	IBM 7090	L	P	270
	VA	MED & SURGERY	6	IBM 650			L	P	176
ORLANDO FLA	AF	MATS	83	IBM 1620	RCA 301	RCA 301	L	AS	176
ORLANDO FLA	AF	STRATEGIC AIR C	109		IBM 1620	IBM 1620	P	AS	200
OSCODA MICH	AF	STRATEGIC AIR C	118	IBM 305	ROY 4000	ROY 4000	L	S	103
OSCODA MICH	AF	STRATEGIC AIR C	118		IBM 305	IBM 305	L	A	142
PADUCAH KY	AEC	OAK RIDGE OO	24	IBM 305	IBM 305				193
						NOT DET	L	A	289
PANAMA CITY FL	AF	AIR DEF COMM	9				L	A	176
PANAMA CITY FL	NAVY	SHIPS	23		IBM 305				115
PANAMA CITY FL	NAVY	SHIPS	23	BUR 205		IBM 305	L	A	454
					IBM 704		L	S	193
PARKERSBURG WV	TREAS	PUBLIC DEBT	15			IBM 704	P	S	420
PARKERSBURG WV	TREAS	PUBLIC DEBT	15	HON 1000					
					HON 800		L	P	359
PARSONS KANSAS	COMM	CENSUS	2			HON 800	L	P	300
				IBM 650					
PATUX RIV MD	NAVY	WEAPONS	80				L	P	434
				BUR 204	BUR 204	BUR 204	P	S	140

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
PATUX RIV MD	NAVY	WEAPONS	80	BUR E101	BUR E101	BUR E101	P	S	140
PATUX RIV MD	NAVY	WEAPONS	80	PAB 250	PAB 250	PAB 250	P	S	140
PENSACOLA	NAVY	MED AND SURG	4						
PENSACOLA	NAVY	WEAPONS	81	IBM 1401	IBM 1620 IBM 1401	IBM 1620 IBM 1401 NOT DET	L L L	S A A	141 330 176
PENSACOLA	NAVY	WEAPONS	81						
PERU IND	AF	STRATEGIC AIR C	130	IBM 305	IBM 305	NOT DET	L L	A A	281 176
PERU IND	AF	STRATEGIC AIR C	130						
PETERSBURG VA	ARMY	DCSLOG	11	IBM 305	RCA 501	RCA 501	L L	AS AS	131 146
PETERSBURG VA	ARMY	DCSLOG	11						
PHILADELPHIA	OSD	DEF SUP AGENCY	14	IBM 650	IBM 650		L L	A A	532 660
PHILADELPHIA	OSD	DEF SUP AGENCY	14	IBM 650		IBM 7070	L	A	395
PHILADELPHIA	OSD	DEF SUP AGENCY	14		IBM 7070 IBM 1401	IBM 1401	L	A	184
PHILADELPHIA	OSD	DEF SUP AGENCY	14			IBM 1401	L	A	236
PHILADELPHIA	OSD	DEF SUP AGENCY	14				L	A	117
PHILADELPHIA	OSD	DEF SUP AGENCY	16	IBM 650			L	A	417
PHILADELPHIA	OSD	DEF SUP AGENCY	16	RCA 501	RCA 501	RCA 501	L	A	364
PHILADELPHIA	OSD	DEF SUP AGENCY	16		RCA 501	RCA 501	L	A	460
PHILADELPHIA	OSD	DEF SUP AGENCY	16			RCA 501	L	A	276
PHILADELPHIA	OSD	DEF SUP AGENCY	16		RCA 301	RCA 301	L	A	276
PHILADELPHIA	OSD	DEF SUP AGENCY	16		RCA 301	RCA 301	L	A	276
PHILADELPHIA	OSD	DEF SUP AGENCY	16		BUR E101	BUR E101	L	AS	200
PHILADELPHIA	ARMY	ENGINEERS	20	BUR E101	ROY LG30	ROY LG30	L	S	160
PHILADELPHIA	ARMY	ORDNANCE	89	ROY LG30	REM SS90	REM SS90	L	S	160
PHILADELPHIA	ARMY	ORDNANCE	90	REM SS90	IBM 650	IBM 650	L	A	352
PHILADELPHIA	ARMY	ORDNANCE	91	IBM 650	IBM 1401	IBM 1401	L	A	264
PHILADELPHIA	ARMY	ORDNANCE	91	IBM 1401	REM UFCO	REM UFCO	L	A	340
PHILADELPHIA	ARMY	ORDNANCE	92	REM UFCO	BEN G15	BEN G15	L	S	120
PHILADELPHIA	ARMY	ORDNANCE	93	BEN G15	IBM 705	IBM 705	L	A	450
PHILADELPHIA	ARMY	ORDNANCE	111	IBM 705	IBM 1401	IBM 1401	L	A	500
PHILADELPHIA	ARMY	SIGNAL	111			NOT DET	L	A	350
PHILADELPHIA	ARMY	SIGNAL	111			REM UII	L	A	310
PHILADELPHIA	ARMY	SIGNAL	111		REM UII		L	A	390
PHILADELPHIA	NAVY	SHIPS	12	REM UII	IBM 705		L	P	390
PHILADELPHIA	NAVY	SUP AND ACCTS	33	IBM 705	IBM 705		L	P	260
PHILADELPHIA	NAVY	SUP AND ACCTS	33	IBM 1401	IBM 1401	IBM 1401	L	P	260
PHILADELPHIA	NAVY	SUP AND ACCTS	33	IBM 1401	IBM 1401	IBM 1401	L	P	260
PHILADELPHIA	NAVY	SUP AND ACCTS	33	IBM 1401	IBM 1401	IBM 1401	L	P	260
PHILADELPHIA	NAVY	SUP AND ACCTS	33		IBM 1401	IBM 1401	L	P	260
PHILADELPHIA	NAVY	SUP AND ACCTS	33			IBM 1401	L	P	390
PHILADELPHIA	NAVY	SUP AND ACCTS	33			IBM 1410	L	P	390
PHILADELPHIA	NAVY	SUP AND ACCTS	33			IBM 1410	L	P	450
PHILADELPHIA	NAVY	MARINE CORPS	38	REM UFC1	REM UFC1	REM UFC1	L	P	479
PHILADELPHIA	NAVY	MARINE CORPS	38	REM SS80	REM SS80	REM SS80	L	AP	96
PHILADELPHIA	NAVY	MARINE CORPS	38		IBM 1401	IBM 1401	L	S	200
PHILADELPHIA	NAVY	WEAPONS	82		IBM 1401	IBM 1401	L	AS	176
PHILADELPHIA	NAVY	WEAPONS	83	ELT ALW3	ELT ALW3	ELT ALW3	P	AS	176
PHILADELPHIA	NAVY	WEAPONS	83		ELT ALW3	ELT ALW3	P	AS	329
PHILADELPHIA	NAVY	WEAPONS	83	IBM 1620	IBM 1620	IBM 1620	L	AS	177
PHILADELPHIA	NAVY	WEAPONS	84		IBM 1401	IBM 1401	L	A	150
PHILADELPHIA	NAVY	WEAPONS	97			NCR 390	L	A	290
PHILADELPHIA	NAVY	COMPTROLLER	2	RCA 501	RCA 501	RCA 501	L	P	200
PHILADELPHIA	HEW	SOCIAL SECURITY	2		RCA 301	RCA 301	L	P	200
PHILADELPHIA	HEW	SOCIAL SECURITY	3	IBM 650	IBM 650	IBM 650	L	A	208
PHILADELPHIA	PO	REGION 3	2		IBM 1401	IBM 1401	L	P	213
PHILADELPHIA	TREAS	ACCOUNTS	2		IBM 1401	IBM 1401	L	P	244
PHILADELPHIA	TREAS	ACCOUNTS	2		IBM 1401	IBM 1401	L	P	272
PHILADELPHIA	TREAS	ACCOUNTS	14			IBM 1401	L	AP	203
PHILADELPHIA	TREAS	INTERNAL REV	14			IBM 1401	L	P	193
PHILADELPHIA	TREAS	INTERNAL REV	2	IBM 705	IBM 705		L	P	511
PHILADELPHIA	VA	INSURANCE	2	IBM 305			L	P	251
PHILADELPHIA	VA	INSURANCE	2	IBM 1401	IBM 1401	IBM 1401	L	P	342
PHILADELPHIA	VA	INSURANCE	2		IBM 1401	IBM 1401	L	P	362
PHILADELPHIA	VA	INSURANCE	2			IBM 7080	P	P	322
PHILADELPHIA	VA	INSURANCE	2						335
PHILIPPINES	AF	PACIFIC FORCES	90			IBM 1620	L	P	176
PHOENIX ARIZ	AF	TACTICAL AIR C	161		IBM 1401	IBM 1401	L	A	176
PHOENIX ARIZ	AF	TACTICAL AIR C	161		IBM 305	IBM 305	L	A	264
PITTSBURGH	AEC	PITTSBRG NRO	7	IBM 305	IBM 305	IBM 305	L	A	350
PITTSBURGH	AEC	PITTSBRG NRO	8	PHI 2000	PHI 2000	PHI 2000	L	S	500
PITTSBURGH	FAA	AIR TRAFFIC SER	7	REM UFC1	REM UFC1		L	P	480
PLATTSBURGH NY	AF	STRATEGIC AIR C	127	IBM 305	IBM 305	IBM 305	L	A	207
POINT MUGU CAL	NAVY	WEAPONS	85	BEN G15	BEN G15	BEN G15	L	S	176
POINT MUGU CAL	NAVY	WEAPONS	85	BEN G15	BEN G15	BEN G15	L	S	176
POINT MUGU CAL	NAVY	WEAPONS	85	IBM 709			L	S	176
POINT MUGU CAL	NAVY	WEAPONS	85		IBM 7090	IBM 7090	L	S	176
POINT MUGU CAL	NAVY	WEAPONS	85		IBM 1401	IBM 1401	L	S	176
PORT CLINTON O	ARMY	ORDNANCE	88	IBM 305	IBM 305		L	A	320
PORT CLINTON O	ARMY	ORDNANCE	88	IBM 305	IBM 305		L	A	320
PORT CLINTON O	ARMY	ORDNANCE	88			NOT DET	L	A	176
PORTLAND ORE	AGRI	FOREST SERVICE	8	IBM 650	IBM 650	IBM 650	L	APS	424
PORTLAND ORE	ARMY	ENGINEERS	25	IBM 650			L	AS	200
PORTLAND ORE	ARMY	ENGINEERS	25		IBM 1620	IBM 1620	L	AS	170
PORTLAND ORE	ARMY	ENGINEERS	25		IBM 1401	IBM 1401	L	AS	176
PORTLAND ORE	INT	BONNEVILLE POWR	1	IBM 650	IBM 650		P	ASP	325
PORTLAND ORE	INT	BONNEVILLE POWR	1			IBM 1401	P	ASP	160
PORTLAND ORE	INT	BONNEVILLE POWR	2	BEN G15			P	S	160
PORTSMOUTH NH	AF	STRATEGIC AIR C	129	IBM 305	IBM 305	IBM 305	L	A	256
PORTSMOUTH NH	NAVY	SHIPS	9		IBM 1401	IBM 1401	L	AS	124
PORTSMOUTH NH	NAVY	SHIPS	9	IBM 650	IBM 650	IBM 650	L	AS	293
PORTSMOUTH O	AEC	OAK RIDGE OO	20	IBM 650			L	PS	169
PORTSMOUTH O	AEC	OAK RIDGE OO	20		IBM 1410	IBM 1410	P	APS	200
PT HUENEME CAL	NAVY	YARDS AND DOCKS	93	IBM 1620	IBM 1620	IBM 1620	L	S	180
PT HUENEME CAL	NAVY	YARDS AND DOCKS	94	IBM 705	IBM 705	IBM 705	L	A	410

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
PT HUENEME CAL	NAVY	YARDS AND DOCKS	94	IBM 1401	IBM 1401	IBM 1401	L	A	275
PUEBLO COL	ARMY	ORDNANCE	61	IBM 305	IBM 305		L	A	350
PUEBLO COL	ARMY	ORDNANCE	61	IBM 305	IBM 305		L	A	350
PUEBLO COL	ARMY	ORDNANCE	61			NOT DET	L	A	176
PUERTO RICO	AF	STRATEGIC AIR C	110	IBM 305	IBM 305	IBM 305	L	A	275
QUANTICO	NAVY	MARINE CORPS	41		IBM 1401	IBM 1401	L	AP	100
QUONSET PT RI	NAVY	WEAPONS	86	IBM 1401	IBM 1401	IBM 1401	L	A	350
QUONSET PT RI	NAVY	WEAPONS	86			NOT DET	L	A	176
RAPID CITY SD	AF	STRATEGIC AIR C	122	IBM 305	IBM 305	IBM 305	L	A	194
RED BANK N J	ARMY	SIGNAL	110	BUR 220	BUR 220		L	S	300
RED BANK N J	ARMY	SIGNAL	110			NOT DET	L	S	176
RED BANK N J	ARMY	SIGNAL	112	ROY LG30	ROY LG30	ROY LG30	P	A	
RED BANK N J	ARMY	SIGNAL	112		ROY LG30	ROY LG30	P	A	
RED BANK N J	ARMY	SIGNAL	112	IBM 650	IBM 650		L	A	176
RED BANK N J	ARMY	SIGNAL	112	NAA REC2	NAA REC2	NAA REC2	P	X	40
RED BANK N J	ARMY	SIGNAL	112	NAA REC2	NAA REC2	NAA REC2	P	X	170
RED BANK N J	ARMY	SIGNAL	112			BAS PAC	P	X	264
			112			INFORMER	P	X	176
						NOT DET	L	X	176
RICHLAND WASH	AEC	HANFORD OO	18	IBM 7090	IBM 7090	IBM 7090	P	APS	235
RICHLAND WASH	AEC	HANFORD OO	18	IBM 1401	IBM 1401	IBM 1401	L	APS	290
RICHLAND WASH	AEC	HANFORD OO	18	IBM 1401	IBM 1401	IBM 1401	L	APS	290
RICHMOND	OSD	DEF SUP AGENCY	15	IBM 650					
RICHMOND	OSD	DEF SUP AGENCY	15	IBM 650			L	A	417
RICHMOND	OSD	DEF SUP AGENCY	15	IBM 7070			L	A	417
RICHMOND	OSD	DEF SUP AGENCY	15	IBM 1401	IBM 1401	IBM 1401	L	A	418
RICHMOND	OSD	DEF SUP AGENCY	15		IBM 1401	IBM 1401	L	A	392
RICHMOND	OSD	DEF SUP AGENCY	15		IBM 7074	IBM 7074	L	A	292
	PO	REGION 5	5	IBM 650	IBM 650	IBM 650	L	A	350
RIVERSIDE CAL	AF	STRATEGIC AIR C	132	IBM 305	IBM 305		L	A	183
RIVERSIDE CAL	AF	STRATEGIC AIR C	132			NOT DET	L	A	275
RIVERSIDE CAL	AF	STRATEGIC AIR C	132			NOT DET	L	A	176
ROCK ISLAND	ARMY	ORDNANCE	64	ROY LG30	ROY LG30	ROY LG30	P	A	176
ROCK ISLAND	ARMY	ORDNANCE	65	RCA 501	RCA 501	RCA 501	L	A	100
ROCK ISLAND	ARMY	ORDNANCE	65			NOT DET	L	A	500
ROME NY	AF	SYSTEMS COMM	48	BUR 205	BUR 205	BUR 205	L	AS	350
ROME NY	AF	SYSTEMS COMM	48		REM 1103	REM 1103	P	S	220
ROSWELL NM	AF	STRATEGIC AIR C	121	IBM 305	IBM 305	IBM 305	L	A	210
SACRAMENTO	AF	LOGISTICS COMM	27	IBM 650	IBM 650		L	AP	280
SACRAMENTO	AF	LOGISTICS COMM	27			NOT DET	L	AP	360
SACRAMENTO	AF	LOGISTICS COMM	27	IBM 650	IBM 650	IBM 650	L	AP	360
SACRAMENTO	AF	LOGISTICS COMM	27	IBM 650			L	AP	370
SACRAMENTO	AF	LOGISTICS COMM	27	REM UFCO	REM UFCO		L	P	290
SACRAMENTO	AF	LOGISTICS COMM	27		REM SS80	REM SS80	L	P	410
SACRAMENTO	AF	LOGISTICS COMM	27	REM 1105	REM 1105	REM SS80	L	P	450
SACRAMENTO	AF	LOGISTICS COMM	27		REM STEP	REM 1105	L	AP	450
SACRAMENTO	AF	TRAINING COMM	54	ROY LG30	ROY LG30	REM STEP	L	P	500
SACRAMENTO	AF	HQS USAF	69		IBM 1620	RCA 301	L	A	450
SACRAMENTO	AF	HQS USAF	69				P	C	176
SACRAMENTO	AF	HQS USAF	69				L	C	156
SACRAMENTO	AF	HQS USAF	69			IBM 1401	P	C	176
SACRAMENTO	ARMY	SIGNAL	118	IBM 650	IBM 650	IBM 1620	P	C	176
	ARMY	SIGNAL	118		IBM 1410	IBM 1410	L	A	524
SALINA KAN	AF	STRATEGIC AIR C	138	IBM 305	IBM 305	IBM 305	L	A	407
SALT LAKE CITY	INT	RECLAMATION	8	BEN G15	BEN G15	BEN G15	L	S	194
SAN ANTONIO	AF	LOGISTICS COMM	33	IBM 650	IBM 650		L	AP	250
SAN ANTONIO	AF	LOGISTICS COMM	33			NOT DET	L	AP	290
SAN ANTONIO	AF	LOGISTICS COMM	33	IBM 650	IBM 650	IBM 650	L	AP	400
SAN ANTONIO	AF	LOGISTICS COMM	33	IBM 650	IBM 650	IBM 650	L	AP	410
SAN ANTONIO	AF	LOGISTICS COMM	33		IBM 1401	IBM 1401	L	AP	420
SAN ANTONIO	AF	LOGISTICS COMM	33	IBM 705	IBM 705		L	P	500
SAN ANTONIO	AF	LOGISTICS COMM	33	IBM 705	IBM 705		L	P	470
SAN ANTONIO	AF	LOGISTICS COMM	33	IBM 1401	IBM 1401	IBM 1401	L	P	480
SAN ANTONIO	AF	LOGISTICS COMM	33		IBM 1401	IBM 1401	L	P	530
SAN ANTONIO	AF	LOGISTICS COMM	33			IBM 7080	L	P	530
SAN ANTONIO	AF	SYSTEMS COMM	43	NCR 102	NCR 102	NCR 102	P	S	400
SAN ANTONIO	AF	SYSTEMS COMM	44	IBM 650	IBM 650	IBM 650	L	SX	145
SAN ANTONIO	AF	TRAINING COMM	53	BUR 220	BUR 220	BUR 220	L	A	610
SAN ANTONIO	AF	TRAINING COMM	53		IBM 1401	IBM 1401	L	A	209
SAN ANTONIO	AF	SECURITY SERV	167			NOT DET	L	A	154
SAN ANTONIO	AF	SECURITY SERV	169	IBM 705	IBM 705	IBM 705	L	P	176
SAN ANTONIO	AF	SECURITY SERV	169	IBM 1401	IBM 1401		L	P	475
SAN ANTONIO	AF	SECURITY SERV	169			IBM 1401	L	P	450
SAN ANTONIO	AF	SECURITY SERV	169			NOT DET	L	P	400
SAN ANTONIO	AF	SECURITY SERV	169		IBM 1401	IBM 1401	L	P	200
SAN ANTONIO	ARMY	ENGINEERS	29			IBM 1620	L	S	350
SAN ANTONIO	ARMY	CONARC	142		RCA 501	RCA 501	L	P	134
SAN BERNARDINO	AF	LOGISTICS COMM	34	IBM 650	IBM 650				300
SAN BERNARDINO	AF	LOGISTICS COMM	34			NOT DET	L	AP	350
SAN BERNARDINO	AF	LOGISTICS COMM	34	BUR 205	BUR 205	BUR 205	L	AP	400
SAN BERNARDINO	AF	LOGISTICS COMM	34	BUR 220	BUR 220	BUR 220	P	AP	400
SAN BERNARDINO	AF	LOGISTICS COMM	34	IBM 705			L	P	490
SAN BERNARDINO	AF	LOGISTICS COMM	34	IBM 705	IBM 705	IBM 705	L	P	580
SAN BERNARDINO	AF	LOGISTICS COMM	34	IBM 705	IBM 705	IBM 705	L	P	550
SAN BERNARDINO	AF	LOGISTICS COMM	34	IBM 1401	IBM 1401	IBM 1401	L	P	590
SAN BERNARDINO	AF	LOGISTICS COMM	34	IBM 1401	IBM 1401	IBM 1401	L	P	540
SAN BERNARDINO	AF	TACTICAL AIR C	158		IBM 1401	IBM 1401	L	P	550
					IBM 305		L	P	550
							L	A	352

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
SAN BERNARDINO	AF	TACTICAL AIR C	158			NOT DET	L	A	330
SAN BERNARDINO	AF	TACTICAL AIR C	158		IBM 1401	IBM 1401	L	A	176
SAN BERNARDINO	NAVY	MARINE CORPS	44	REM UFC1	REM UFC1	REM UFC1	L	P	384
SAN BERNARDINO	NAVY	MARINE CORPS	44		IBM 1401	IBM 1401	L	AP	138
SAN BERNARDINO	NAVY	WEAPONS	60		REM SS80	REM SS80	L	AS	147
SAN BERNARDINO	NAVY	WEAPONS	61	IBM 7070	IBM 7070	IBM 7070	L	S	212
SAN BERNARDINO	NAVY	WEAPONS	61		IBM 1401	IBM 1401	L	S	212
SAN DIEGO	AEC	SAN FRAN OO	30	CDC 1604	CDC 1604	CDC 1604	P	S	171
SAN DIEGO	AEC	SAN FRAN OO	30	CDC 160			P	S	250
SAN DIEGO	AEC	SAN FRAN OO	30		CDC 160A	CDC 160A	P	S	250
SAN DIEGO	AEC	SAN FRAN OO	30			CDC 160A	P	S	176
SAN DIEGO	NAVY	SHIPS	24	BUR 220			L	S	472
SAN DIEGO	NAVY	SHIPS	24		CDC 1604	CDC 1604	L	S	115
SAN DIEGO	NAVY	SUP AND ACCTS	30	IBM 650	IBM 650		L	AP	305
SAN DIEGO	NAVY	SUP AND ACCTS	30			IBM 1410	L	AP	202
SAN DIEGO	NAVY	SUP AND ACCTS	30			IBM 1401	L	AP	189
SAN DIEGO	NAVY	MARINE CORPS	40	NCR 304	NCR 304	NCR 304	L	P	254
SAN DIEGO	NAVY	MARINE CORPS	40		IBM 1401	IBM 1401	L	AP	89
SAN DIEGO	NAVY	PERSONNEL	49	IBM 650			L	P	390
SAN DIEGO	NAVY	PERSONNEL	49	IBM 1401	IBM 1401	IBM 1401	L	P	240
SAN DIEGO	NAVY	PERSONNEL	49		IBM 1401	IBM 1401	L	P	240
SAN DIEGO	NAVY	WEAPONS	78		RCA 501	RCA 501	L	A	200
SAN DIEGO	NAVY	WEAPONS	78		RCA 301	RCA 301	L	A	200
SAN DIEGO	NAVY	YARDS AND DOCKS	92			BUR E102	P	AS	160
SAN FRANCISCO	AEC	SAN FRAN OO	27	IBM 650	IBM 650	IBM 650	P	S	616
SAN FRANCISCO	AEC	SAN FRAN OO	27	IBM 709	IBM 709	IBM 709	L	S	600
SAN FRANCISCO	AEC	SAN FRAN OO	27		IBM 1401	IBM 1401	L	S	620
SAN FRANCISCO	AEC	SAN FRAN OO	27			IBM 1401	L	S	620
SAN FRANCISCO	AEC	SAN FRAN OO	27			IBM 1401	L	S	620
SAN FRANCISCO	AEC	SAN FRAN OO	27		IBM 7090			S	616
SAN FRANCISCO	AEC	SAN FRAN OO	27			IBM 7094	L	S	616
SAN FRANCISCO	AEC	SAN FRAN OO	27			IBM 7094	L	S	616
SAN FRANCISCO	AEC	SAN FRAN CO	28		IBM 1401	IBM 1401	L	AS	650
SAN FRANCISCO	AEC	SAN FRAN OO	29	IBM 650	IBM 650	IBM 650	P	S	440
SAN FRANCISCO	AEC	SAN FRAN OO	29	IBM 709			L	S	616
SAN FRANCISCO	AEC	SAN FRAN OO	29	IBM 1401	IBM 1401	IBM 1401	P	AS	616
SAN FRANCISCO	AEC	SAN FRAN OO	29		IBM 1410	IBM 1410	P	S	600
SAN FRANCISCO	AEC	SAN FRAN OO	29		IBM 7090		P	S	651
SAN FRANCISCO	AEC	SAN FRAN OO	29	IBM 7090		IBM 7094	P	S	651
SAN FRANCISCO	AEC	SAN FRAN OO	29		IBM 7090		P	S	667
SAN FRANCISCO	AEC	SAN FRAN OO	29	IBM 7090		IBM 7094	P	S	667
SAN FRANCISCO	AEC	SAN FRAN OO	29		IBM 7090		L	S	650
SAN FRANCISCO	AEC	SAN FRAN OO	29			DEC PDP1	P	S	350
SAN FRANCISCO	AEC	SAN FRAN OO	29		IBM 7030	IBM 7030	P	S	650
SAN FRANCISCO	AEC	SAN FRAN OO	29	REM LARC	REM LARC	REM LARC	P	S	650
SAN FRANCISCO	AEC	SAN FRAN OO	29		IBM 1401		L	AS	160
SAN FRANCISCO	AEC	ALBUQUERQUE OO	55			IBM 1401	L	AS	160
SAN FRANCISCO	AEC	ALBUQUERQUE OO	55	IBM 1620			L	S	160
SAN FRANCISCO	AEC	ALBUQUERQUE OO	56		IBM 1620	IBM 1620	L	S	200
SAN FRANCISCO	AEC	ALBUQUERQUE OO	56		IBM 1401	IBM 1401	L	A	100
SAN FRANCISCO	AEC	ALBUQUERQUE OO	57		IBM 650	IBM 650	L	AS	260
SAN FRANCISCO	AGRI	FOREST SERVICE	9	IBM 650	IBM 305	IBM 305	L	A	288
SAN FRANCISCO	AF	AIR DEF COMM	10	IBM 305	RCA 301	RCA 301	L	A	198
SAN FRANCISCO	AF	MATS	76			GEL 225	L	A	166
SAN FRANCISCO	AF	MATS	78				L	A	950
SAN FRANCISCO	ARMY	ORDNANCE	59	IBM 305			L	A	350
SAN FRANCISCO	ARMY	ORDNANCE	59	IBM 305			L	A	175
SAN FRANCISCO	ARMY	TRANSPORTATION	124		IBM 1401	IBM 1401	L	A	168
SAN FRANCISCO	ARMY	CONARC	150			RCA 501	L	P	176
SAN FRANCISCO	NAVY	SHIPS	16			NOT DET	L	AS	589
SAN FRANCISCO	NAVY	SHIPS	16	REM UFC1	REM UFC1	REM UFC1	L	AS	397
SAN FRANCISCO	NAVY	SHIPS	17	IBM 705	IBM 705	IBM 705	L	AS	383
SAN FRANCISCO	NAVY	SHIPS	17	IBM 1401	IBM 1401	IBM 1401	L	A	176
SAN FRANCISCO	NAVY	SHIPS	17			NOT DET	L	AS	479
SAN FRANCISCO	NAVY	SHIPS	25	BUR 205			L	S	624
SAN FRANCISCO	NAVY	SHIPS	25		IBM 704	IBM 704	P	S	200
SAN FRANCISCO	NAVY	SHIPS	45			IBM 1401	L	A	
SAN FRANCISCO	NAVY	MARINE CORPS	56	HON 800	HON 800	HON 800	L	A	
SAN FRANCISCO	NAVY	WEAPONS	9	IBM 305			L	AP	261
SAN FRANCISCO	GSA	REGION 9	9		IBM 1401	IBM 1401	L	AP	306
SAN FRANCISCO	GSA	REGION 9	2		RCA 301	RCA 301	L	P	120
SAN FRANCISCO	HEW	SOCIAL SECURITY	4		ROY 4000	ROY 4000	L	S	80
SAN FRANCISCO	INT	GEOLOGICAL SURV	12	IBM 650	IBM 650	IBM 650	L	A	213
SAN FRANCISCO	PO	REGION 12	4			IBM 1401	P	P	314
SAN FRANCISCO	TREAS	ACCOUNTS							
SANDUSKY OHIO	NASA	LEWIS RES CN	10		NAA REC2	NAA REC2	L	AS	176
SANTA BARBARA	AF	STRATEGIC AIR C	102	IBM 650	IBM 650	IBM 650	L	A	450
SANTA BARBARA	AF	STRATEGIC AIR C	102			IBM 305	L	A	450
SAULT ST MARIE	AF	AIR DEF COMM	15			IBM 305	L	A	380
SAVANNAH	AF	MATS	77			GEL 225	L	A	90
SCHENECTADY	AEC	SCHENECTADY NRO	9	IBM 650	IBM 650		L	A	85
SCHENECTADY	AEC	SCHENECTADY NRO	10	PHI 2000	PHI 2000	PHI 2000	L	AS	600
SCHENECTADY	AEC	SCHENECTADY NRO	11		IBM 1620	IBM 1620	L	S	115
SCHENECTADY	ARMY	QMG	107			NOT DET	L	A	176
SCOVILLE IDAHO	AEC	IDAHO OO	15	IBM 1620	IBM 1620	IBM 1620	L	APS	130
SCOVILLE IDAHO	AEC	IDAHO OO	16	IBM 650	IBM 650	IBM 650	L	S	296
SEATTLE	ARMY	ENGINEERS	22			NOT DET	L	AS	150
SEATTLE	GSA	REGION 10	10		IBM 1401	IBM 1401	L	AP	165
SHREVEPORT	AF	STRATEGIC AIR C	105	IBM 305	IBM 305		L	A	340
SHREVEPORT	AF	STRATEGIC AIR C	105			NOT DET	L	A	176
SHREVEPORT	AF	STRATEGIC AIR C	105			NOT DET	L	A	176
SMYRNA TENN	AF	TACTICAL AIR C	162		IBM 1401	IBM 1401	L	A	176
SMYRNA TENN	AF	TACTICAL AIR C	162			IBM 305	L	A	264
SNOWVILLE VA	ARMY	ORDNANCE	99	REM 1103	REM 1103	REM 1103	L	P	176
SPAIN	AF	STRATEGIC AIR C	148	IBM 305	IBM 305	IBM 305	L	A	235

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
SPAIN	AF	STRATEGIC AIR C	149			NOT DET	L	A	176
SPAIN	AF	STRATEGIC AIR C	150			NOT DET	L	A	176
SPOKANE	AF	AIR DEF COMM	11						
SPOKANE	AF	STRATEGIC AIR C	134	IBM 305	IBM 305	IBM 305	L	A	352
SPOKANE	AF	STRATEGIC AIR C	134				L	A	213
SPRINGFLD MASS	ARMY	ORDNANCE	69			NOT DET	L	A	176
ST LOUIS	AEC	OAK RIDGE OO	26			GEL 225	L	AS	160
ST LOUIS	AF	AERO CHART CEN	4	IBM 1401	IBM 1401	IBM 1401	P	AS	86
ST LOUIS	AF	AERO CHART CEN	4	BUR 220	BUR 220	BUR 220	L	APS	253
ST LOUIS	AF	AERO CHART CEN	4		IBM 1401	IBM 1401	L	APS	192
ST LOUIS	AF	AERO CHART CEN	5	IBM 650	IBM 650	NOT DET	L	APS	264
ST LOUIS	AF	AERO CHART CEN	5				L	C	205
ST LOUIS	AF	AERO CHART CEN	6			RCA 501	L	C	300
ST LOUIS	AF	AERO CHART CEN	6			NOT DET	L	C	176
ST LOUIS	AF	AERO CHART CEN	6	NAA REC2	NAA REC2	NAA REC2	P	C	172
ST LOUIS	AF	AERO CHART CEN	6	NAA REC2	NAA REC2	NAA REC2	P	C	172
ST LOUIS	AF	AERO CHART CEN	6	NAA REC2	NAA REC2	NAA REC2	P	C	172
ST LOUIS	AF	AF COMM SERVICE	24	RCA 501	RCA 501	RCA 501	L	AP	375
ST LOUIS	AF	MATS	71	IBM 650			L	A	474
ST LOUIS	AF	MATS	71	IBM 650			L	A	114
ST LOUIS	AF	MATS	71		RCA 501	RCA 501	L	A	344
ST LOUIS	AF	MATS	71		RCA 301	RCA 301	L	A	165
ST LOUIS	AF	MATS	72			GEL 225	L	A	90
ST LOUIS	ARMY	ENGINEERS	42	IBM 650			L	A	472
ST LOUIS	ARMY	ENGINEERS	42	IBM 1401	IBM 1401	IBM 1401	L	A	306
ST LOUIS	ARMY	ENGINEERS	42		IBM 1410	IBM 1410	L	A	275
ST LOUIS	ARMY	TRANSPORTATION	125	IBM 705			L	A	561
ST LOUIS	ARMY	TRANSPORTATION	125	IBM 1401	IBM 1401	IBM 1401	L	A	537
ST LOUIS	ARMY	TRANSPORTATION	125	IBM 1401			L	A	548
ST LOUIS	ARMY	TRANSPORTATION	125		IBM 1401	IBM 1401	L	A	597
ST LOUIS	ARMY	TRANSPORTATION	125		IBM 7080	IBM 7080	L	A	367
ST LOUIS	ARMY	DCSPERS	133		NCR 390	NCR 390	L	A	158
ST LOUIS	PO	REGION 8	8	IBM 650	IBM 650	IBM 650	L	A	164
ST PETERSBURG	AEC	ALBUQUERQUE OO	45						
STOCKTON CAL	ARMY	QMG	108		IBM 1401	IBM 1401	L	AP	140
STOCKTON CAL	ARMY	QMG	108	IBM 305	IBM 305				
SUMTER SC	AF	TACTICAL AIR C	155			NOT DET	L	A	310
SUMTER SC	AF	TACTICAL AIR C	155		IBM 1401	IBM 1401	L	A	176
TACOMA WASH	AF	AIR DEF COMM	21			IBM 305	L	A	176
TACOMA WASH	ARMY	ORDNANCE	98	IBM 305	IBM 305	IBM 305	L	A	264
TACOMA WASH	ARMY	ORDNANCE	98	IBM 305			L	A	447
TAMPA	AF	STRATEGIC AIR C	107				L	A	225
TAMPA	AF	TACTICAL AIR C	164	IBM 305	IBM 305	IBM 305	L	A	225
TAMPA	AF	TACTICAL AIR C	164			IBM 1401	L	A	247
TEXARKANA TEX	ARMY	ORDNANCE	96	IBM 305	IBM 305	IBM 305	L	A	176
SPAIN	AF	STRATEGIC AIR C	149				L	A	264
SPAIN	AF	STRATEGIC AIR C	150			NOT DET	L	A	350
SPOKANE	AF	AIR DEF COMM	11			NOT DET	L	A	176
SPOKANE	AF	STRATEGIC AIR C	134	IBM 305	IBM 305	IBM 305	L	A	176
SPOKANE	AF	STRATEGIC AIR C	134				L	A	352
SPRINGFLD MASS	ARMY	ORDNANCE	69			NOT DET	L	A	213
ST LOUIS	AEC	OAK RIDGE OO	26			GEL 225	L	AS	176
ST LOUIS	AF	AERO CHART CEN	4	IBM 1401	IBM 1401	IBM 1401	P	AS	160
ST LOUIS	AF	AERO CHART CEN	4	BUR 220	BUR 220	BUR 220	L	APS	86
ST LOUIS	AF	AERO CHART CEN	4		IBM 1401	IBM 1401	L	APS	253
ST LOUIS	AF	AERO CHART CEN	5	IBM 650	IBM 650	NOT DET	L	APS	192
ST LOUIS	AF	AERO CHART CEN	5				L	C	264
ST LOUIS	AF	AERO CHART CEN	6			RCA 501	L	C	205
ST LOUIS	AF	AERO CHART CEN	6			NOT DET	L	C	300
ST LOUIS	AF	AERO CHART CEN	6	NAA REC2	NAA REC2	NAA REC2	P	C	176
ST LOUIS	AF	AERO CHART CEN	6	NAA REC2	NAA REC2	NAA REC2	P	C	172
ST LOUIS	AF	AERO CHART CEN	6	NAA REC2	NAA REC2	NAA REC2	P	C	172
ST LOUIS	AF	AF COMM SERVICE	24	NAA REC2	NAA REC2	NAA REC2	P	C	172
ST LOUIS	AF	MATS	71	RCA 501	RCA 501	RCA 501	L	AP	172
ST LOUIS	AF	MATS	71	IBM 650			L	A	375
ST LOUIS	AF	MATS	71	IBM 650			L	A	474
ST LOUIS	AF	MATS	71		RCA 501	RCA 501	L	A	114
ST LOUIS	AF	MATS	72		RCA 301	RCA 301	L	A	344
ST LOUIS	ARMY	ENGINEERS	42			GEL 225	L	A	165
ST LOUIS	ARMY	ENGINEERS	42	IBM 650			L	A	90
ST LOUIS	ARMY	ENGINEERS	42	IBM 1401	IBM 1401	IBM 1401	L	A	472
ST LOUIS	ARMY	TRANSPORTATION	125		IBM 1410	IBM 1410	L	A	306
ST LOUIS	ARMY	TRANSPORTATION	125	IBM 705			L	A	275
ST LOUIS	ARMY	TRANSPORTATION	125	IBM 1401	IBM 1401	IBM 1401	L	A	561
ST LOUIS	ARMY	TRANSPORTATION	125	IBM 1401			L	A	537
ST LOUIS	ARMY	TRANSPORTATION	125		IBM 1401	IBM 1401	L	A	548
ST LOUIS	ARMY	DCSPERS	133		IBM 7080	IBM 7080	L	A	597
ST LOUIS	PO	REGION 8	8		NCR 390	NCR 390	L	A	367
ST PETERSBURG	AEC	ALBUQUERQUE OO	45	IBM 650	IBM 650	IBM 650	L	A	158
STOCKTON CAL	ARMY	QMG	108		IBM 1401	IBM 1401	L	AP	164
STOCKTON CAL	ARMY	QMG	108	IBM 305	IBM 305				140
SUMTER SC	AF	TACTICAL AIR C	155			NOT DET	L	A	310
SUMTER SC	AF	TACTICAL AIR C	155		IBM 1401	IBM 1401	L	A	176
TACOMA WASH	AF	AIR DEF COMM	21			IBM 305	L	A	176
TACOMA WASH	ARMY	ORDNANCE	98	IBM 305	IBM 305	IBM 305	L	A	264
TACOMA WASH	ARMY	ORDNANCE	98	IBM 305			L	A	447
TAMPA	AF	STRATEGIC AIR C	107				L	A	225
TAMPA	AF	TACTICAL AIR C	164	IBM 305	IBM 305	IBM 305	L	A	225
TAMPA	AF	TACTICAL AIR C	164			IBM 1401	L	A	247
TEXARKANA TEX	ARMY	ORDNANCE	96	IBM 305	IBM 305	IBM 305	L	A	176
							L	A	264
							L	A	350

Table 3 — Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE OR COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
WASHINGTON	CIA	CIA	2	IBM 650			L	P	200
WASHINGTON	CIA	CIA	2		IBM 1401	IBM 1401	L	P	200
WASHINGTON	CIA	CIA	2		IBM 1410	IBM 1410	L	P	200
WASHINGTON	CIA	CIA	3	RCA 501	RCA 501	RCA 501	L	A	200
WASHINGTON	CIA	CIA	3			IBM 1401	L	A	200
WASHINGTON	CIA	CIA	1	REM 1105	REM 1105	REM 1105	P	P	550
WASHINGTON	COMM	CENSUS	1	REM 1105	REM 1105	REM 1105	P	P	550
WASHINGTON	COMM	CENSUS	1		IBM 1401	IBM 1401	L	P	420
WASHINGTON	COMM	CENSUS	1			REM 1107	P	P	550
WASHINGTON	COMM	CENSUS	1				L	P	500
WASHINGTON	COMM	CENSUS	1	REM UI	REM UI		P	P	500
WASHINGTON	COMM	CENSUS	1	REM UI	REM UI	REM UI	P	AS	280
WASHINGTON	COMM	CENSUS	3	IBM 650	IBM 650	IBM 650	P	S	200
WASHINGTON	COMM	COAST AND GEO	3			IBM 1620	P	P	165
WASHINGTON	COMM	COAST AND GEO	4		IBM 1401	IBM 1401	L	X	90
WASHINGTON	COMM	MARITIME ADM	5	IBM 305	IBM 305		L	X	170
WASHINGTON	COMM	PATENT OFFICE	5			NOT DET	L	A	170
WASHINGTON	COMM	PATENT OFFICE	6			NOT DET	L	AP	150
WASHINGTON	COMM	PATENT OFFICE	7	IBM 650			L	AP	285
WASHINGTON	COMM	PUBLIC ROADS	7	IBM 1401	IBM 1401	IBM 1401	L	P	
WASHINGTON	COMM	PUBLIC ROADS	10	PILOT	PILOT	PILOT	P	P	60
WASHINGTON	COMM	NAT BUR STAND	10	SEAC	SEAC	SEAC	P	S	20
WASHINGTON	COMM	NAT BUR STAND	10	ANALOG	ANALOG	ANALOG	P	PS	428
WASHINGTON	COMM	NAT BUR STAND	11	IBM 704			L	PS	200
WASHINGTON	COMM	NAT BUR STAND	11		IBM 7090	IBM 7090	L	P	295
WASHINGTON	COMM	NAT BUR STAND	11		IBM 1401	IBM 1401	L	PS	25
WASHINGTON	COMM	NAT BUR STAND	11	ROY 4000			L	PS	176
WASHINGTON	COMM	NAT BUR STAND	11			IBM 7094	L	S	176
WASHINGTON	COMM	NAT BUR STAND	13	BEN G15			L	S	176
WASHINGTON	COMM	WEATHER BUREAU	13		IBM 1620	IBM 1620	L	S	200
WASHINGTON	COMM	WEATHER BUREAU	14	IBM 1620	IBM 1620	IBM 1620	L	S	176
WASHINGTON	COMM	WEATHER BUREAU	14		IBM 1401	IBM 1401	L	S	176
WASHINGTON	COMM	WEATHER BUREAU	14		IBM 7030	IBM 7030	L	P	480
WASHINGTON	COMM	WEATHER BUREAU	15	IBM 7090	IBM 7090		L	P	480
WASHINGTON	COMM	WEATHER BUREAU	15			IBM 7094	L	P	300
WASHINGTON	COMM	WEATHER BUREAU	15	IBM 1401	IBM 1401	IBM 1401	L	P	225
WASHINGTON	COMM	WEATHER BUREAU	15		IBM 1401	IBM 1401	P	P	200
WASHINGTON	COMM	WEATHER BUREAU	15			IBM 7094	L	PS	180
WASHINGTON	COMM	WEATHER BUREAU	16			IBM 1401	L	PS	180
WASHINGTON	COMM	WEATHER BUREAU	16			CDC 160A	L	PS	575
WASHINGTON	COMM	WEATHER BUREAU	16				L	P	176
WASHINGTON	CSC	RET AND INS	1	BEN G15	BEN G15	IBM 1401	L	AP	156
WASHINGTON	CSC	MGMT SERV	2		IBM 1401	IBM 1401	L	AP	540
WASHINGTON	DCGOV	GENERAL ADMIN	1	CDC 1604	CDC 1604	CDC 1604	P	S	200
WASHINGTON	OSD	WEAP SYS EV GP	1			NOT DET	L	A	100
WASHINGTON	OSD	OASD ISA	2				L	S	235
WASHINGTON	OSD	DASA	3	ROY LG30			L	P	235
WASHINGTON	OSD	DASA	6		CDC 1604	CDC 1604	L	P	235
WASHINGTON	OSD	DASA	6		CDC 160	CDC 160	L	P	235
WASHINGTON	OSD	DASA	6		CDC 160	CDC 160	L	P	235
WASHINGTON	OSD	DASA	6			IBM 1401	L	P	572
WASHINGTON	OSD	DASA	7	PHI 2000	PHI 2000	PHI 2000	L	P	480
WASHINGTON	OSD	DEF COMM AGENCY	17	IBM 705	IBM 705		L	P	439
WASHINGTON	OSD	DEF SUP AGENCY	17	IBM 1401	IBM 1401		L	P	483
WASHINGTON	OSD	DEF SUP AGENCY	17	IBM 1401	IBM 1401		L	P	511
WASHINGTON	OSD	DEF SUP AGENCY	17		IBM 1401		L	AP	593
WASHINGTON	OSD	DEF SUP AGENCY	20	REM UFC1	REM UFC1		L	AP	97
WASHINGTON	OSD	DEF SUP AGENCY	20			IBM 1410	L	A	260
WASHINGTON	OSD	DEF SUP AGENCY	39		IBM 1401	IBM 1401	L	A	270
WASHINGTON	AF	SYSTEMS COMM	39	IBM 650	IBM 650		L	A	150
WASHINGTON	AF	SYSTEMS COMM	39			IBM 7070	L	A	329
WASHINGTON	AF	SYSTEMS COMM	40	REM SS90	REM SS90	REM SS90	L	A	433
WASHINGTON	AF	SYSTEMS COMM	40		REM SS90	REM SS90	L	A	383
WASHINGTON	AF	SYSTEMS COMM	64	REM UFC1	REM UFC1		L	A	262
WASHINGTON	AF	HQS COMMAND	64	REM SS80	REM SS80		L	A	250
WASHINGTON	AF	HQS COMMAND	64			NOT DET	L	A	250
WASHINGTON	AF	HQS COMMAND	64			NOT DET	L	A	576
WASHINGTON	AF	HQS COMMAND	65	IBM 705	IBM 705		L	A	670
WASHINGTON	AF	HQS USAF	65			NOT DET	L	A	331
WASHINGTON	AF	HQS USAF	65	IBM 1401	IBM 1401	IBM 1401	L	AP	450
WASHINGTON	AF	HQS USAF	65	IBM 7090	IBM 7090	IBM 7090	L	SP	328
WASHINGTON	AF	HQS USAF	65	IBM 1401	IBM 1401	IBM 1401	L	SP	160
WASHINGTON	AF	HQS USAF	66	BUR E101	BUR E101	BUR E101	L	AP	143
WASHINGTON	AF	HQS USAF	66	ROY LG30	ROY LG30	ROY LG30	L	P	215
WASHINGTON	AF	HQS USAF	67	IBM 7090	IBM 7090	IBM 7090	L	P	275
WASHINGTON	AF	HQS USAF	67	IBM 1401	IBM 1401	IBM 1401	L	P	275
WASHINGTON	AF	HQS USAF	67		IBM 1401	IBM 1401	L	P	275
WASHINGTON	AF	HQS USAF	68	IBM 7070			L	C	578
WASHINGTON	AF	HQS USAF	68		IBM 7074	IBM 7074	L	C	300
WASHINGTON	AF	HQS USAF	68		IBM 1401	IBM 1401	L	C	176
WASHINGTON	AF	HQS USAF	70		IBM 1401	IBM 1401	L	P	300
WASHINGTON	AF	HQS USAF	3	IBM 305			L	A	140
WASHINGTON	ARMY	FINANCE	3		IBM 1401	IBM 1401	L	A	160
WASHINGTON	ARMY	FINANCE	5	ELT ALW3	ELT ALW3	ELT ALW3	P	S	150
WASHINGTON	ARMY	RES AND DEV	7		IBM 7090	IBM 7090	L	S	125
WASHINGTON	ARMY	DCSOPNS	7		IBM 1401	IBM 1401	L	S	108
WASHINGTON	ARMY	DCSOPNS	8		SYL 9400	SYL 9400	L	P	192
WASHINGTON	ARMY	ACSI	10			HON 400	L	A	200
WASHINGTON	ARMY	DCSLOG	19	BUR E102			L	S	90
WASHINGTON	ARMY	ENGINEERS	19			NOT DET	L	S	176
WASHINGTON	ARMY	ENGINEERS	26		HON 800	HON 800	L	S	176
WASHINGTON	ARMY	ENGINEERS	26	REM UI	REM UI	REM UI	P	S	505
WASHINGTON	ARMY	ENGINEERS	27		IBM 1620	IBM 1620	L	C	176
WASHINGTON	ARMY	ENGINEERS	28	BEN G15	BEN G15	BEN G15	L	S	180
WASHINGTON	ARMY	ENGINEERS	30	BEN G15	BEN G15	BEN G15	P	S	183
WASHINGTON	ARMY	ENGINEERS	31	NAA REC2	NAA REC2	NAA REC2	P	S	80
WASHINGTON	ARMY	ENGINEERS	32	IBM 650			L	S	170
WASHINGTON	ARMY	ENGINEERS	32		RCA 301	RCA 301	L	S	190
WASHINGTON	ARMY	ENGINEERS	36		IBM 1401	IBM 1401	L	A	142
WASHINGTON	ARMY	ENGINEERS	36			NOT DET	L	A	190
WASHINGTON	ARMY	ENGINEERS	44			NOT DET	L	A	125
WASHINGTON	ARMY	ENGINEERS	48	ROY LG30			L	S	120
WASHINGTON	ARMY	SURG GEN	48		ROY 4000	ROY 4000	L	S	140
WASHINGTON	ARMY	SURG GEN	49		PAB 250	PAB 250	L	S	200
WASHINGTON	ARMY	SURG GEN	50			NOT DET	L	AP	168
WASHINGTON	ARMY	SURG GEN	62			IBM 1410	L	AS	170
WASHINGTON	ARMY	ORDNANCE	115	NAA REC2	NAA REC2	NAA REC2	P	X	220
WASHINGTON	ARMY	SIGNAL	131	IBM 705	IBM 705		L	P	465
WASHINGTON	ARMY	DCSPERS							

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR			PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
				1961 ACT	1962 EST	1963 EST			
WASHINGTON	ARMY	DCSPERS	131	IBM 1401	IBM 1401	IBM 1401	L	P	271
WASHINGTON	ARMY	DCSPERS	131			NOT DET	L	P	176
WASHINGTON	NAVY	MED AND SURG	1			IBM 1401	L	AS	158
WASHINGTON	NAVY	MED AND SURG	2			IBM 1620	L	S	95
WASHINGTON	NAVY	CH NAV OPNS	5	BUR 205			L	S	317
WASHINGTON	NAVY	CH NAV OPNS	5		IBM 7070	IBM 7070	L	AS	131
WASHINGTON	NAVY	CH NAV OPNS	5		IBM 1401	IBM 1401	L	AS	139
WASHINGTON	NAVY	CH NAV OPNS	5	ROY LG30	ROY LG30	ROY LG30	L	S	160
WASHINGTON	NAVY	CH NAV OPNS	6	BEN G15	BEN G15	BEN G15	P	S	170
WASHINGTON	NAVY	CH NAV OPNS	6	REM SS80	REM SS80		L	A	214
WASHINGTON	NAVY	CH NAV OPNS	7	IBM 650	IBM 650	NOT DET	L	A	176
WASHINGTON	NAVY	CH NAV OPNS	7			NOT DET	L	S	238
WASHINGTON	NAVY	SHIPS	8	IBM 1401	IBM 1401	IBM 1401	L	S	176
WASHINGTON	NAVY	SHIPS	8	IBM 7070	IBM 7070	IBM 7070	L	A	229
WASHINGTON	NAVY	SHIPS	8		IBM 1401	IBM 1401	L	A	253
WASHINGTON	NAVY	SHIPS	8	ROY LG30			L	A	191
WASHINGTON	NAVY	SHIPS	8		IBM 1620	IBM 1620	L	S	144
WASHINGTON	NAVY	SHIPS	8		CXPQ	CXPQ	L	S	130
WASHINGTON	NAVY	SHIPS	22	IBM 1401	IBM 1401	IBM 1401	P	S	50
WASHINGTON	NAVY	SHIPS	22	BUR E102	BUR E102	BUR E102	L	S	183
WASHINGTON	NAVY	SHIPS	22	ELT ALW2			P	S	167
WASHINGTON	NAVY	SHIPS	22		ELT ALW3	ELT ALW3	P	S	
WASHINGTON	NAVY	SHIPS	22	ELT ALW3	ELT ALW3	ELT ALW3	P	S	89
WASHINGTON	NAVY	SHIPS	22	REM UI	REM UI	REM UI	P	S	127
WASHINGTON	NAVY	SHIPS	22	CXPQ			P	AS	409
WASHINGTON	NAVY	SHIPS	22	REM LARC	REM LARC	REM LARC	P	S	
WASHINGTON	NAVY	SHIPS	22		REM UI	REM UI	P	S	320
WASHINGTON	NAVY	SHIPS	22	IBM 7090	IBM 7090	IBM 7090	P	S	80
WASHINGTON	NAVY	SUP AND ACCTS	37	REM SS80	REM SS80	REM SS80	L	S	183
WASHINGTON	NAVY	MARINE CORPS	42	NCR 304	NCR 304	NCR 304	L	AP	258
WASHINGTON	NAVY	MARINE CORPS	42		IBM 1401	IBM 1401	L	AP	303
WASHINGTON	NAVY	ADMIN OFFICE	46	IBM 650	IBM 650	IBM 650	L	AP	90
WASHINGTON	NAVY	PERSONNEL	47	IBM 705			L	AS	235
WASHINGTON	NAVY	PERSONNEL	47		IBM 7080	IBM 7080	L	AP	540
WASHINGTON	NAVY	PERSONNEL	47	IBM 1401	IBM 1401	IBM 1401	L	AP	220
WASHINGTON	NAVY	PERSONNEL	47		IBM 1401	IBM 1401	L	AP	300
WASHINGTON	NAVY	PERSONNEL	47		IBM 1401	IBM 1401	L	AP	300
WASHINGTON	NAVY	PERSONNEL	47	ROY LG30			L	AP	180
WASHINGTON	NAVY	PERSONNEL	47		RCA 301	RCA 301	L	S	308
WASHINGTON	NAVY	NAVAL RESEARCH	55	NAREC	NAREC	NAREC	L	S	102
WASHINGTON	NAVY	NAVAL RESEARCH	55		IBM 1401	IBM 1401	P	S	292
WASHINGTON	NAVY	WEAPONS	66	RCA 501	RCA 501	RCA 501	L	A	125
WASHINGTON	NAVY	WEAPONS	66		IBM 1401	IBM 1401	L	S	200
WASHINGTON	NAVY	WEAPONS	88	BUR E101	BUR E101	BUR E101	L	A	176
WASHINGTON	NAVY	WEAPONS	89		IBM 1401	IBM 1401	P	S	176
WASHINGTON	NAVY	WEAPONS	90	BEN G15	BEN G15	BEN G15	L	A	176
WASHINGTON	NAVY	WEAPONS	90	RCA 501	RCA 501		P	S	155
WASHINGTON	NAVY	WEAPONS	90	IBM 1401	IBM 1401		L	A	425
WASHINGTON	NAVY	WEAPONS	90		RCA 301		L	A	390
WASHINGTON	NAVY	WEAPONS	90		NCR 390	NCR 390	L	A	198
WASHINGTON	NAVY	WEAPONS	90			NOT DET	L	A	200
WASHINGTON	NAVY	WEAPONS	91	IBM 704			L	A	315
WASHINGTON	NAVY	WEAPONS	91		IBM 7090	IBM 7090	L	S	302
WASHINGTON	NAVY	WEAPONS	91	IBM 1401	IBM 1401	IBM 1401	L	S	287
WASHINGTON	NAVY	YARDS AND DOCKS	95	NCR 304	NCR 304	NCR 304	L	S	287
WASHINGTON	NAVY	YARDS AND DOCKS	95		IBM 1401	IBM 1401	L	AS	300
WASHINGTON	NAVY	YARDS AND DOCKS	95	BUR E102			L	A	150
WASHINGTON	NAVY	COMPTROLLER	98			NCR 390	L	S	92
WASHINGTON	NAVY	COMPTROLLER	98			NCR 390	L	A	160
WASHINGTON	NAVY	COMPTROLLER	99		IBM 1401	IBM 1401	L	A	160
WASHINGTON	FAA	AIR TRAFFIC SER	2	REM UFC1	REM UFC1		L	A	160
WASHINGTON	FAA	AIR TRAFFIC SER	2				L	P	480
WASHINGTON	FCC	ADMINISTRATION	1			REM UFC2	L	P	480
WASHINGTON	FPC	ADMINISTRATION	1			REM UIII	P	PS	154
WASHINGTON	FRS	FRS	1	IBM 650		NOT DET	L	APS	176
WASHINGTON	FRS	FRS	1		IBM 1410	IBM 1410	L	AP	277
WASHINGTON	GSA	REGION 3	3	RCA 501			L	AP	277
WASHINGTON	GSA	REGION 3	3		IBM 1410	IBM 1410	L	AP	312
WASHINGTON	HEW	GENERAL SERV	3	IBM 650	RCA 301	RCA 301	L	AP	535
WASHINGTON	HEW	PUBLIC HEALTH	4				L	APS	115
WASHINGTON	HEW	PUBLIC HEALTH	4		HON 800	HON 800	L	AS	350
WASHINGTON	HEW	PUBLIC HEALTH	5		IBM 1620	IBM 1620	L	AS	350
WASHINGTON	HEW	PUBLIC HEALTH	6		MON XI	MON XI	L	S	170
WASHINGTON	HEW	PUBLIC HEALTH	7			MNEMO	L	S	170
WASHINGTON	HEW	PUBLIC HEALTH	8			LINC	L	S	170
WASHINGTON	HEW	PUBLIC HEALTH	9		IBM 1401	IBM 1401	P	S	170
WASHINGTON	HEW	PUBLIC HEALTH	9		IBM 1410	IBM 1410	L	AP	236
WASHINGTON	HEW	PUBLIC HEALTH	10	IBM 1620	IBM 1620	IBM 1620	L	P	193
WASHINGTON	HHFA	FED HOUSING ADM	1	IBM 650			L	APS	160
WASHINGTON	HHFA	FED HOUSING ADM	1		IBM 1401	IBM 1401	L	AP	280
WASHINGTON	HHFA	FED HOUSING ADM	1		IBM 7070	IBM 7070	L	AP	240
WASHINGTON	INT	GEOLOGICAL SURV	3	BUR 220	BUR 220	BUR 220	L	AP	176
WASHINGTON	ICC	TRANSPORT ECON	1	IBM 305	IBM 305		L	AS	203
WASHINGTON	ICC	TRANSPORT ECON	1			RCA 301	L	AP	179
WASHINGTON	JUST	FBI	1	IBM 650			L	AP	200
WASHINGTON	JUST	FBI	1	IBM 1401	IBM 1401	IBM 1401	L	AC	348
WASHINGTON	JUST	FBI	1	IBM 7070	IBM 7070	IBM 7070	L	AC	280
WASHINGTON	JUST	FBI	2	IBM 650	IBM 650	IBM 650	L	AC	100
WASHINGTON	LABOR	LABOR STAT	1	IBM 650	IBM 650		L	C	174
WASHINGTON	LABOR	LABOR STAT	1		IBM 1401	IBM 1401	L	P	350
WASHINGTON	NASA	HEADQUARTERS	1	NAA REC2	NAA REC2	IBM 7070	L	P	200
WASHINGTON	NASA	HEADQUARTERS	1				L	P	125
WASHINGTON	NASA	GODDARD SFC	23			IBM 1620	L	S	160
WASHINGTON	NASA	GODDARD SFC	24		CDC 160A	NOT DET	L	S	160
WASHINGTON	NASA	GODDARD SFC	25		BEN G15	CDC 160A	L	A	120
WASHINGTON	NASA	GODDARD SFC	25	BUR E102	BUR E102	BEN G15	L	S	120
WASHINGTON	NASA	GODDARD SFC	25			BUR E102	P	S	60
WASHINGTON	NASA	GODDARD SFC	25	ROY LG30	ROY LG30	ASI 210	L	S	50
WASHINGTON	NASA	GODDARD SFC	25		CDC 160	ROY LG30	P	S	60
WASHINGTON	NASA	GODDARD SFC	25		IBM 1401	CDC 160	L	S	40
WASHINGTON	NASA	GODDARD SFC	25	ROY LG30	ROY LG30	IBM 1401	L	S	60
WASHINGTON	NASA	GODDARD SFC	25	IBM 7090	IBM 7090	ROY LG30	L	S	100
WASHINGTON	NASA	GODDARD SFC	25			IBM 7090	L	S	40
WASHINGTON	NASA	GODDARD SFC	26	CDC 160	CDC 160	NOT DET	L	S	347
						CDC 160	L	S	140
									100

Table 3 – Continued

LOCATION	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
WASHINGTON	NASA	GODDARD SFC	26		IBM 1401	IBM 1401	L	P	120
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	L	S	140
WASHINGTON	NASA	GODDARD SFC	26		RCA 301	RCA 301	L	P	140
WASHINGTON	NASA	GODDARD SFC	26		IBM 1401	IBM 1401	L	P	120
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	P	P	140
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	L	PS	140
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	L	S	100
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	L	S	100
WASHINGTON	NASA	GODDARD SFC	26	CDC 160	CDC 160	CDC 160	L	P	100
WASHINGTON	NASA	GODDARD SFC	26		CDC 160A	CDC 160A	L	P	100
WASHINGTON	NASA	GODDARD SFC	26	IBM 7090	IBM 7090	IBM 7090	L	P	140
WASHINGTON	NASA	GODDARD SFC	26	IBM 7090	IBM 7090	IBM 7090	L	P	140
WASHINGTON	NASA	GODDARD SFC	26		IBM 7090	IBM 7090	L	P	140
WASHINGTON	NASA	GODDARD SFC	26		IBM 1401	IBM 1401	L	S	100
WASHINGTON	NASA	GODDARD SFC	26		GEN ECS	GEN ECS	P	P	70
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	L	S	140
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	L	S	140
WASHINGTON	NASA	GODDARD SFC	26			NOT DET	L	S	100
WASHINGTON	NASA	GODDARD SFC	26	REM SS90	REM SS90	REM SS90	L	AP	176
WASHINGTON	SBA	SBA	1			IBM 1401	L	A	176
WASHINGTON	STATE	ADMINISTRATION	1				L	A	200
WASHINGTON	TREAS	COAST GUARD	6	IBM 305	IBM 305		L	A	200
WASHINGTON	TREAS	COAST GUARD	6			NOT DET	L	P	254
WASHINGTON	TREAS	TREASURER	16	IBM 7070	IBM 7070		L	P	259
WASHINGTON	TREAS	TREASURER	16	IBM 7070	IBM 7070		L	P	299
WASHINGTON	TREAS	TREASURER	16	IBM 1401	IBM 1401		L	P	352
WASHINGTON	TREAS	TREASURER	16			IBM 7074	P	P	286
WASHINGTON	TREAS	TREASURER	16			IBM 1401	P	P	286
WASHINGTON	TREAS	TREASURER	16			IBM 650	L	ASP	300
WASHINGTON	VA	ADM SERVICES	1	IBM 650	IBM 650				
WEST POINT	ARMY	MILITARY ACADMY	6	NAA REC2	NAA REC2	NAA REC2	P	A	100
WEST POINT	ARMY	MILITARY ACADMY	6			NOT DET	L	A	80
WHITE SANDS NM	ARMY	ORDNANCE	80	REM 1103			L	S	304
WHITE SANDS NM	ARMY	ORDNANCE	80	REM SS80			L	S	274
WHITE SANDS NM	ARMY	ORDNANCE	80	BEN G15			L	S	192
WHITE SANDS NM	ARMY	ORDNANCE	80		IBM 7090		L	S	220
WHITE SANDS NM	ARMY	ORDNANCE	80			IBM 7094	L	S	264
WHITE SANDS NM	ARMY	ORDNANCE	82	IBM 1620	IBM 1620	IBM 1620	L	S	176
WHITE SANDS NM	ARMY	ORDNANCE	83		IBM 1620	IBM 1620	L	S	160
WHITE SANDS NM	ARMY	ORDNANCE	84	IBM 704	IBM 704		L	S	283
WHITE SANDS NM	ARMY	ORDNANCE	84	IBM 1620	IBM 1620	IBM 1620	L	S	95
WHITE SANDS NM	ARMY	ORDNANCE	84		IBM 1401	IBM 1401	L	S	228
WHITE SANDS NM	ARMY	ORDNANCE	85	IBM 704	IBM 704	IBM 704	L	S	305
WHITE SANDS NM	ARMY	ORDNANCE	86	BEN G15	BEN G15	BEN G15	L	S	176
WHITE SANDS NM	ARMY	ORDNANCE	87		IBM 1401	IBM 1401	L	A	170
WHITE SANDS NM	ARMY	SIGNAL	121	PHI 2000	PHI 2000	PHI 2000	L	PS	500
WICHITA FALLS	AF	TRAINING COMM	56			RCA 301	L	A	176
WICHITA KAN	AF	STRATEGIC AIR C	151			NOT DET	L	A	176

TABLE 4

INVENTORY OF COMPUTERS–BY MAKE AND MODEL

COMPUTERS IN PLACE END OF FISCAL YEAR 1961 ACT	1962 EST	1963 EST	DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
	ASI 210	ASI 210	AEC	CHICAGO OO	36	CHICAGO	P	S	100
		ASI 210	ARMY	ORDNANCE	66	ABERDEEN MD	L	S	170
		ASI 210*	NASA	GODDARD SFC	25	WASHINGTON	L	S	60
BEN G15	BEN G15	BEN G15	AEC	NEW YORK OO	43	MIDDLETOWN CON	L	S	176
BEN G15	BEN G15	BEN G15	AEC	ALBUQUERQUE OO	61	DENVER	L	S	340
	BEN G15	BEN G15	AEC	ALBUQUERQUE OO	62	DENVER	L	S	700
	BEN G15	BEN G15	AEC	ALBUQUERQUE OO	63	DENVER	P	S	360
	BEN G15	BEN G15	AEC	ALBUQUERQUE OO	65	KANSAS CITY	L	S	254
BEN G15	BEN G15		AEC	ALBUQUERQUE OO	68	ALBUQUERQUE	L	S	250
BEN G15	BEN G15	BEN G15	AEC	ALBUQUERQUE OO	13	WASHINGTON	L	S	176
BEN G15			COMM	WEATHER BUREAU	1	WASHINGTON	L	P	575
BEN G15	BEN G15		CSC	RET AND INS	49	COCOA BEACH	L	P	230
BEN G15	BEN G15		AF	SYSTEMS COMM	49	COCOA BEACH	L	P	265
BEN G15			AF	SYSTEMS COMM	49	COCOA BEACH	L	P	252
BEN G15	BEN G15		AF	SYSTEMS COMM	51	ALBUQUERQUE	L	S	121
BEN G15	BEN G15	BEN G15	AF	SYSTEMS COMM	23	LOS ANGELES	L	S	222
BEN G15	BEN G15		ARMY	ENGINEERS	23	LOS ANGELES	P	S	222
	BEN G15	BEN G15	ARMY	ENGINEERS	28	WASHINGTON	L	S	180
BEN G15	BEN G15	BEN G15	ARMY	ENGINEERS	30	WASHINGTON	P	S	183
BEN G15	BEN G15	BEN G15	ARMY	ENGINEERS	33	HANOVER NH	P	S	190
BEN G15	BEN G15	BEN G15	ARMY	ENGINEERS	34	FORT WORTH	L	S	108
BEN G15	BEN G15	BEN G15	ARMY	ENGINEERS	38	LITTLE ROCK	L	S	150
BEN G15	BEN G15	BEN G15	ARMY	ENGINEERS	66	ABERDEEN MD	L	S	170
BEN G15	BEN G15		ARMY	ORDNANCE	66	ABERDEEN MD	L	S	170
	BEN G15		ARMY	ORDNANCE	80	WHITE SANDS NM	L	S	192
BEN G15			ARMY	ORDNANCE	86	WHITE SANDS NM	L	S	176
BEN G15	BEN G15	BEN G15	ARMY	ORDNANCE	93	PHILADELPHIA	L	S	120
BEN G15	BEN G15	BEN G15	ARMY	ORDNANCE	145	LAWTON OKLA	P	S	195
BEN G15	BEN G15	BEN G15	ARMY	CONARC	147	LEAVENWORTH	L	X	225
BEN G15	BEN G15		ARMY	CONARC	5	WASHINGTON	P	S	170
BEN G15	BEN G15	BEN G15	NAVY	CH NAV OPNS	14	CHARLESTON SC	L	S	155
BEN G15			NAVY	SHIPS	21	BALTIMORE	L	S	208
BEN G15	BEN G15		NAVY	SHIPS	70	JOHNSVILLE PA	P	S	176
BEN G15	BEN G15	BEN G15	NAVY	WEAPONS	77	NORFOLK	L	S	349
BEN G15	BEN G15	BEN G15	NAVY	WEAPONS	85	POINT MUGU CAL	L	S	176
BEN G15	BEN G15	BEN G15	NAVY	WEAPONS	85	POINT MUGU CAL	L	S	176
BEN G15	BEN G15	BEN G15	NAVY	WEAPONS	87	TRENTON	P	S	174
BEN G15	BEN G15	BEN G15	NAVY	WEAPONS	90	WASHINGTON	P	S	155
BEN G15	BEN G15	BEN G15	NAVY	WEAPONS	2	PORTLAND ORE	P	S	160
BEN G15			INT	BONNEVILLE POWR	6	TULSA	P	S	30
	BEN G15	BEN G15	INT	MINES	8	SALT LAKE CITY	L	S	250
BEN G15	BEN G15	BEN G15	INT	RECLAMATION	9	MCCOOK NEBR	L	S	130
BEN G15	BEN G15	BEN G15	INT	RECLAMATION	15	HUNTSVILLE ALA	L	S	114
BEN G15	BEN G15	BEN G15	NASA	MARSHL SP FL CN	25	WASHINGTON	L	S	60
	BEN G15	BEN G15	NASA	GODDARD SFC					
		BEN G20	AEC	ALBUQUERQUE OO	65	KANSAS CITY	L	S	75

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
BUR 204	BUR 204	BUR 204	AF	SYSTEMS COMM	42	DAYTON OHIO	P	S	110
BUR 204 (2)	BUR 204	BUR 204	ARMY	ORDNANCE	71	DETROIT	P	S	168
BUR 204	BUR 204	BUR 204	NAVY	WEAPONS	80	PATUX RIV MD	P	S	140
BUR 204	BUR 204		NASA	AMES RES CN	2	MOUNTAIN V CAL	P	S	109
BUR 205	BUR 205	BUR 205	AF	LOGISTICS COMM	34	SAN BERNARDINO	P	AP	400
BUR 205	BUR 205	BUR 205	AF	SYSTEMS COMM	42	DAYTON OHIO	L	A	227
BUR 205	BUR 205	BUR 205	AF	SYSTEMS COMM	48	ROME NY	L	AS	220
BUR 205	BUR 205		AF	PACIFIC FORCES	96	JAPAN	L	A	481
BUR 205 (4)	BUR 205	BUR 205	ARMY	CHEMICAL	13	EDGEWOOD MD	L	S	216
BUR 205			ARMY	ORDNANCE	53	HUNTSVILLE ALA	P	S	132
BUR 205	BUR 205		NAVY	CH NAV OPNS	5	WASHINGTON	L	S	317
BUR 205	BUR 205		NAVY	SHIPS	10	BOSTON	L	AS	410
BUR 205			NAVY	SHIPS	20	NEW LONDON CON	L	S	254
BUR 205	BUR 205		NAVY	SHIPS	23	PANAMA CITY FL	L	S	193
BUR 205			NAVY	SHIPS	25	SAN FRANCISCO	L	S	479
BUR 205			NASA	AMES RES CN	2	MOUNTAIN V CAL	P	SX	145
BUR 205			NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
BUR 205			NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
BUR 205	BUR 205		NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
BUR 205	BUR 205		NASA	MARSHL SP FL CN	16	CAPE CANAVERAL	L	S	176
			NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
					16	HUNTSVILLE ALA	L	S	176
BUR 220	BUR 220	BUR 220	AF	AERO CHART CEN	4	ST LOUIS	L	APS	253
BUR 220	BUR 220	BUR 220	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	P	490
BUR 220	BUR 220	BUR 220	AF	TRAINING COMM	53	SAN ANTONIO	L	A	209
BUR 220	BUR 220		AF	PACIFIC FORCES	87	HONOLULU	L	A	235
BUR 220	BUR 220	BUR 220	AF	STRATEGIC AIR C	100	OMAHA	P	P	176
BUR 220	BUR 220	BUR 220	ARMY	TACTICAL AIR C	152	HAMPTON VA	L	AS	430
BUR 220	BUR 220		NAVY	SIGNAL	110	RED BANK N J	L	S	300
BUR 220			NAVY	SHIPS	15	LONG BEACH CAL	L	A	304
BUR 220	BUR 220	BUR 220	NAVY	SHIPS	24	SAN DIEGO	L	S	472
	BUR 220	BUR 220	NAVY	SUP AND ACCTS	35	HARRISBURG	L	P	400
BUR 220	BUR 220	BUR 220	INT	SUP AND ACCTS	35	HARRISBURG	L	P	400
				GEOLOGICAL SURV	3	WASHINGTON	L	AS	203
BUR E101	BUR E101	BUR E101	AF	SYSTEMS COMM	42	DAYTON OHIO	L	S	90
BUR E101	BUR E101	BUR E101	AF	HQS USAF	66	WASHINGTON	L	AP	160
BUR E101	BUR E101		ARMY	ENGINEERS	20	PHILADELPHIA	L	AS	200
BUR E101			ARMY	ENGINEERS	43	HUNTINGTON WVA	L	S	146
BUR E101	BUR E101		ARMY	ENGINEERS	46	TULSA	L	S	170
BUR E101	BUR E101	BUR E101	ARMY	ORDNANCE	66	ABERDEEN MD	L	S	200
BUR E101	BUR E101	BUR E101	NAVY	WEAPONS	80	PATUX RIV MD	P	S	140
BUR E101	BUR E101	BUR E101	NAVY	WEAPONS	88	WASHINGTON	P	S	176
			NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	78
BUR E102	BUR E102		AF	SYSTEMS COMM	47	BAKERSFIELD	P	S	140
BUR E102			ARMY	ENGINEERS	19	WASHINGTON	L	S	90
BUR E102	BUR E102	BUR E102	ARMY	ENGINEERS	37	CINCINNATI	P	S	100
BUR E102			ARMY	ENGINEERS	41	KANSAS CITY	L	S	178
	BUR E102	BUR E102	NAVY	SHIPS	22	WASHINGTON	P	S	167
BUR E102		BUR E102	NAVY	YARDS AND DOCKS	92	SAN DIEGO	P	AS	160
BUR E102	BUR E102		NAVY	YARDS AND DOCKS	95	WASHINGTON	L	S	92
			NASA	GODDARD SFC	25	WASHINGTON	P	S	50
CDC 160									
CDC 160	CDC 160	CDC 160	AEC	SAN FRAN OO	30	SAN DIEGO	P	S	250
	CDC 160	CDC 160	AEC	ALBUQUERQUE OO	52	ALBUQUERQUE	L	S	176
CDC 160	CDC 160	CDC 160	AEC	ALBUQUERQUE OO	54	ALBUQUERQUE	L	AS	350
	CDC 160	CDC 160	COMM	NAT BUR STAND	12	DENVER	L	S	77
	CDC 160	CDC 160	OSD	DASA	6	WASHINGTON	L	P	235
CDC 160	CDC 160	CDC 160	OSD	DASA	6	WASHINGTON	L	P	235
	CDC 160	CDC 160	NAVY	PERSONNEL	48	MONTEREY CAL	P	AS	360
CDC 160	CDC 160	CDC 160	NASA	GODDARD SFC	25	WASHINGTON	L	S	60
CDC 160	CDC 160	CDC 160	NASA	GODDARD SFC	26	WASHINGTON	L	P	100
			NASA	GODDARD SFC	26	WASHINGTON	L	S	100
	CDC 160A								
	CDC 160A	CDC 160A	AEC	OAK RIDGE OO	21	KNOXVILLE	L	AS	250
		CDC 160A	AEC	SAN FRAN OO	30	SAN DIEGO	P	S	250
		CDC 160A	AEC	SAN FRAN OO	30	SAN DIEGO	P	S	176
		CDC 160A	COMM	WEATHER BUREAU	16	WASHINGTON	L	PS	180
	CDC 160A	CDC 160A	AF	SYSTEMS COMM	45	ALAMOGORDO NM	L	PS	200
	CDC 160A	CDC 160A	AF	SYSTEMS COMM	51	ALBUQUERQUE	L	S	100
	CDC 160A	CDC 160A	NAVY	WEAPONS	73	MONTEREY CAL	L	PS	176
	CDC 160A	CDC 160A	NAVY	WEAPONS	73	MONTEREY CAL	L	PS	176
	CDC 160A	CDC 160A	NAVY	WEAPONS	73	MONTEREY CAL	L	PS	176
	CDC 160A	CDC 160A	NASA	GODDARD SFC	73	MONTEREY CAL	P	PS	176
	CDC 160A	CDC 160A	NASA	GODDARD SFC	24	WASHINGTON	L	S	120
					26	WASHINGTON	L	P	100
CDC 1604		CDC 1604	AEC	OAK RIDGE OO	22	KNOXVILLE	L	S	176
	CDC 1604	CDC 1604	AEC	SAN FRAN OO	30	SAN DIEGO	P	S	171
CDC 1604	CDC 1604	CDC 1604	AEC	ALBUQUERQUE OO	54	ALBUQUERQUE	L	AS	350
CDC 1604	CDC 1604	CDC 1604	COMM	NAT BUR STAND	12	DENVER	L	S	171
	CDC 1604	CDC 1604	OSD	WEAP SYS EV GP	1	WASHINGTON	P	S	540
		CDC 1604	OSD	DASA	6	WASHINGTON	L	P	235
	CDC 1604	CDC 1604	AF	DASA	6	HAGERSTOWN	L	P	176
	CDC 1604	CDC 1604	NAVY	SYSTEMS COMM	51	ALBUQUERQUE	L	S	445
CDC 1604	CDC 1604	CDC 1604	NAVY	SHIPS	24	SAN DIEGO	L	S	115
				PERSONNEL	48	MONTEREY CAL	P	AS	535

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
	CDC 1604	CDC 1604	NAVY	WEAPONS	73	MONTEREY CAL	P	PS	176
CDC 1604	CDC 1604	CDC 1604	NAVY	WEAPONS	73	MONTEREY CAL	P	S	176
		DEC PDP1	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	350
			NAVY	SHIPS	22	WASHINGTON	P	S	
ELT ALW2									
					1	WASHINGTON	P	C	150
ELT ALW3	ELT ALW3	ELT ALW3	CIA	CIA	100	OMAHA	P	P	176
ELT ALW3	ELT ALW3	ELT ALW3	AF	STRATEGIC AIR C	5	WASHINGTON	P	S	150
ELT ALW3	ELT ALW3	ELT ALW3	ARMY	RES AND DEV	22	WASHINGTON	P	S	89
	ELT ALW3	ELT ALW3	NAVY	SHIPS	22	WASHINGTON	P	S	127
ELT ALW3	ELT ALW3	ELT ALW3	NAVY	SHIPS	83	PHILADELPHIA	P	AS	176
ELT ALW3	ELT ALW3	ELT ALW3	NAVY	WEAPONS	83	PHILADELPHIA	P	AS	176
					19	MIAMI	L	PS	190
	GEL 225	GEL 225	COMM	WEATHER BUREAU	72	ST LOUIS	L	A	90
		GEL 225	AF	MATS	77	SAVANNAH	L	A	90
		GEL 225	AF	MATS	78	SAN FRANCISCO	L	A	166
		GEL 225	AF	MATS	80	TRENTON	L	A	115
		GEL 225	AF	MATS	81	CHARLESTON SC	L	A	115
		GEL 225	AF	MATS	82	BERMUDA	L	A	90
		GEL 225	AF	MATS	84	AZORES	L	A	90
		GEL 225	AF	MATS	69	SPRINGFLD MASS	L	AS	160
		GEL 225	ARMY	ORDNANCE	67	INDIANAPOLIS	L	S	176
	GEL 225	GEL 225	NAVY	WEAPONS	5	DENVER	L	S	166
		GEL 225	INT	MINES	16	HUNTSVILLE ALA	L	S	176
	GEL 225	GEL 225	NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
	GEL 225	GEL 225	NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
	GEL 225	GEL 225	NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
	GEL 225	GEL 225	NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
		GEL 225	NASA	MARSHL SP FL CN	16	HUNTSVILLE ALA	L	S	176
					26	WASHINGTON	P	P	70
	GEN ECS	GEN ECS	NASA	GODDARD SFC					
					11	ATLANTIC CITY	P	X	
LIB ATC	LIB ATC	LIB ATC	FAA	RES AND DEVELOP	11	ATLANTIC CITY	P	X	
LIB ATC	LIB ATC	LIB ATC	FAA	RES AND DEVELOP	11	ATLANTIC CITY	P	X	
LIB ATC	LIB ATC	LIB ATC	FAA	RES AND DEVELOP					
			NASA	MARSHL SP FL CN	17	HUNTSVILLE ALA	L	S	92
LIB L500	LIB L500			DEF SUP AGENCY	13	COLUMBUS OHIO	L	A	300
		HON 400	OSD	DCSLOG	10	WASHINGTON	L	A	200
		HON 400	ARMY	PUBLIC HEALTH	11	CINCINNATI	L	APS	120
	HON 400	HON 400	HEW						
					17	ASHEVILLE NC	L	PS	176
	HON 800	HON 800	COMM	WEATHER BUREAU	13	COLUMBUS OHIO	L	A	440
	HON 800	HON 800	OSD	DEF SUP AGENCY	1	INDIANAPOLIS	L	AP	471
	HON 800	HON 800	ARMY	FINANCE	26	WASHINGTON	L	S	176
	HON 800	HON 800	ARMY	ENGINEERS	56	SAN FRANCISCO	L	A	
	HON 800	HON 800	NAVY	WEAPONS	4	WASHINGTON	L	AS	350
HON 800	HON 800	HON 800	HEW	PUBLIC HEALTH	2	MOUNTAIN V CAL	L	S	137
	HON 800	HON 800	NASA	AMES RES CN	15	PARKERSBURG WV	L	P	300
	HON 800	HON 800	TREAS	PUBLIC DEBT					
					15	PARKERSBURG WV	L	P	359
			TREAS	PUBLIC DEBT					
HON 1000									
					7	PITTSBURGH	L	A	350
IBM 305	IBM 305	IBM 305	AEC	PITTSBRG NRO	24	PADUCAH KY	L	A	115
IBM 305	IBM 305		AEC	OAK RIDGE OO	42	MIDDLETOWN CON	L	A	250
IBM 305	IBM 305	IBM 305	AEC	NEW YORK OO	44	LAS VEGAS	L	AS	120
IBM 305			AEC	ALBUQUERQUE OO	66	ALBUQUERQUE	L	A	300
IBM 305	IBM 305	IBM 305	AEC	ALBUQUERQUE OO	5	WASHINGTON	L	X	90
IBM 305	IBM 305		COMM	PATENT OFFICE	5	ALBUQUERQUE	L	A	270
IBM 305	IBM 305		OSD	DASA	1	ANCHORAGE ALAS	L	A	400
	IBM 305	IBM 305	AF	ALASKAN AIR COM	3	FAIRBANKS ALAS	L	A	312
		IBM 305	AF	ALASKAN AIR COM	9	PANAMA CITY FL	L	A	454
	IBM 305	IBM 305	AF	AIR DEF COMM	10	SAN FRANCISCO	L	A	288
IBM 305	IBM 305	IBM 305	AF	AIR DEF COMM	11	SPOKANE	L	A	352
		IBM 305	AF	AIR DEF COMM	12	NEWBURGH NY	L	A	325
		IBM 305	AF	AIR DEF COMM	13	DETROIT	L	A	383
	IBM 305	IBM 305	AF	AIR DEF COMM	14	FALMOUTH MASS	L	A	323
	IBM 305	IBM 305	AF	AIR DEF COMM	15	SAULT ST MARIE	L	A	380
		IBM 305	AF	AIR DEF COMM	16	GWINN MICH	L	A	380
		IBM 305	AF	AIR DEF COMM	17	KANSAS CITY	L	A	305
IBM 305	IBM 305	IBM 305	AF	AIR DEF COMM	18	DULUTH MINN	L	A	240
	IBM 305	IBM 305	AF	AIR DEF COMM	19	GRAND FORKS ND	L	A	533
		IBM 305	AF	AIR DEF COMM	20	MADISON WIS	L	A	242
IBM 305	IBM 305	IBM 305	AF	AIR DEF COMM	21	TACOMA WASH	L	P	447
IBM 305	IBM 305	IBM 305	AF	AIR DEF COMM	25	DAYTON OHIO	L	P	380
IBM 305	IBM 305		AF	LOGISTICS COMM	26	DAYTON OHIO	L	A	280
IBM 305	IBM 305	IBM 305	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	410
IBM 305	IBM 305	IBM 305	AF	LOGISTICS COMM	99	OMAHA	L	A	297
IBM 305	IBM 305		AF	STRATEGIC AIR C	102	SANTA BARBARA	L	A	450
		IBM 305	AF	STRATEGIC AIR C	103	HAWAII	L	P	120
IBM 305	IBM 305		AF	STRATEGIC AIR C	104	ENGLAND	L	P	160
IBM 305	IBM 305		AF	STRATEGIC AIR C	105	SHREVEPORT	L	A	340
IBM 305	IBM 305		AF	STRATEGIC AIR C					

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPART-MENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PUR-CHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
IBM 305	IBM 305		AF	STRATEGIC AIR C	106	COLUMBUS OHIO	L	A	247
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	107	TAMPA	L	A	247
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	108	COLUMBUS MISS	L	A	229
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	109	ORLANDO FLA	L	A	193
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	110	PUERTO RICO	L	A	275
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	111	KNOBNOSTER MO	L	A	194
IBM 305	IBM 305(2)		AF	STRATEGIC AIR C	112	LITTLE ROCK	L	A	205
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	113	MIAMI	L	A	173
IBM 305	IBM 305		AF	STRATEGIC AIR C	114	CLINTON OKLA	L	A	187
IBM 305	IBM 305		AF	STRATEGIC AIR C	115	BLYTHEVILLE AR	L	A	177
IBM 305	IBM 305		AF	STRATEGIC AIR C	116	AUSTIN TEXAS	L	A	188
IBM 305	IBM 305		AF	STRATEGIC AIR C	117	ALBANY GA	L	A	292
IBM 305	IBM 305		AF	STRATEGIC AIR C	118	OSCODA MICH	L	A	289
IBM 305	IBM 305		AF	STRATEGIC AIR C	119	CHICOPEE MASS	L	A	339
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	120	FORT WORTH	L	A	353
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	121	ROSWELL NM	L	A	280
IBM 305	IBM 305(2)		AF	STRATEGIC AIR C	122	RAPID CITY SD	L	A	194
IBM 305	IBM 305		AF	STRATEGIC AIR C	123	LIMESTONE ME	L	A	300
IBM 305	IBM 305		AF	STRATEGIC AIR C	124	EL PASO	L	A	297
IBM 305	IBM 305		AF	STRATEGIC AIR C	125	ALTUS OKLA	L	A	232
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	126	BANGOR MAINE	L	A	307
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	127	PLATTSBURGH NY	L	A	207
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	128	LABRADOR	L	A	261
IBM 305	IBM 305		AF	STRATEGIC AIR C	129	PORTSMOUTH NH	L	A	256
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	130	PERU IND	L	A	281
IBM 305	IBM 305		AF	STRATEGIC AIR C	131	NEWFOUNDLAND	L	A	179
IBM 305	IBM 305(2)		AF	STRATEGIC AIR C	132	RIVERSIDE CAL	L	A	275
IBM 305	IBM 305		AF	STRATEGIC AIR C	133	MERCED CAL	L	A	348
IBM 305	IBM 305		AF	STRATEGIC AIR C	134	SPOKANE	L	A	213
IBM 305	IBM 305		AF	STRATEGIC AIR C	135	TUCSON	L	A	216
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	136	TOPEKA KAN	L	A	261
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	137	GREAT FALLS	L	A	233
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	138	SALINA KAN	L	A	194
IBM 305	IBM 305		AF	STRATEGIC AIR C	139	MTN HOME IDAHO	L	A	190
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	140	LINCOLN NEBR	L	A	232
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	141	MOSES LAK WASH	L	A	223
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	142	GLASGOW MONT	L	A	251
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	143	ENGLAND	L	A	260
IBM 305	IBM 305		AF	STRATEGIC AIR C	145	ABILENE TEXAS	L	A	237
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	146	MARYSVILLE CAL	L	A	213
IBM 305	IBM 305	IBM 305	AF	STRATEGIC AIR C	147	GUAM	L	A	165
		IBM 305	AF	STRATEGIC AIR C	148	SPAIN	L	A	235
IBM 305	IBM 305		AF	TACTICAL AIR C	153	MYRTLE BEACH	L	A	264
IBM 305	IBM 305		AF	TACTICAL AIR C	154	GOLDSBORO NC	L	A	264
		IBM 305	AF	TACTICAL AIR C	154	GOLDSBORO NC	L	A	264
		IBM 305	AF	TACTICAL AIR C	155	SUMTER SC	L	A	264
		IBM 305	AF	TACTICAL AIR C	156	HAMPTON VA	L	A	264
	IBM 305		AF	TACTICAL AIR C	157	ALEXANDRIA LA	L	A	264
	IBM 305	IBM 305	AF	TACTICAL AIR C	158	SAN BERNARDINO	L	A	352
	IBM 305		AF	TACTICAL AIR C	159	CLOVIS NM	L	A	264
	IBM 305(1)	IBM 305	AF	TACTICAL AIR C	160	LAS VEGAS	L	A	352
		IBM 305	AF	TACTICAL AIR C	161	PHOENIX ARIZ	L	A	264
		IBM 305	AF	TACTICAL AIR C	162	SMYRNA TENN	L	A	264
		IBM 305	AF	TACTICAL AIR C	163	FAYETTEVILLE	L	A	264
IBM 305			ARMY	FINANCE	3	WASHINGTON	L	A	264
IBM 305			ARMY	DCSLOG	11	PETERSBURG VA	L	AS	140
IBM 305	IBM 305	IBM 305	ARMY	SURG GEN	47	LOUISVILLE	L	A	131
IBM 305			ARMY	ORDNANCE	59	SAN FRANCISCO	L	A	237
IBM 305	IBM 305	IBM 305	ARMY	ORDNANCE	59	SAN FRANCISCO	L	A	350
IBM 305	IBM 305		ARMY	ORDNANCE	60	LOS ANGELES	L	AP	350
IBM 305	IBM 305		ARMY	ORDNANCE	61	PUEBLO COL	L	A	154
IBM 305			ARMY	ORDNANCE	61	PUEBLO COL	L	A	350
IBM 305			ARMY	ORDNANCE	77	METUCHEN NJ	L	A	350
IBM 305	IBM 305		ARMY	ORDNANCE	77	METUCHEN NJ	L	A	200
IBM 305	IBM 305		ARMY	ORDNANCE	88	PORT CLINTON O	L	A	200
IBM 305	IBM 305		ARMY	ORDNANCE	88	PORT CLINTON O	L	A	320
IBM 305	IBM 305		ARMY	ORDNANCE	94	CHAMBERSBURG	L	A	320
IBM 305	IBM 305		ARMY	ORDNANCE	94	CHAMBERSBURG	L	A	428
IBM 305	IBM 305		ARMY	ORDNANCE	96	TEXARKANA TEX	L	A	425
	IBM 305	IBM 305	ARMY	ORDNANCE	96	TEXARKANA TEX	L	A	350
	IBM 305	IBM 305	ARMY	ORDNANCE	97	TOOELE UTAH	L	A	350
IBM 305			ARMY	ORDNANCE	97	TOOELE UTAH	L	A	350
IBM 305			ARMY	ORDNANCE	98	TACOMA WASH	L	A	225
IBM 305	IBM 305		ARMY	ORDNANCE	98	TACOMA WASH	L	A	225
IBM 305			ARMY	QMG	108	STOCKTON CAL	L	A	310
IBM 305	IBM 305	IBM 305	ARMY	QMG	109	OGDEN UTAH	L	A	498
IBM 305	IBM 305	IBM 305	ARMY	US ARMY EUROPE	153	FRANCE	L	A	382
IBM 305	IBM 305		ARMY	US ARMY EUROPE	153	FRANCE	L	A	312
IBM 305	IBM 305	IBM 305	ARMY	US ARMY EUROPE	155	FRANCE	L	A	550
		IBM 305	NAVY	SHIPS	14	CHARLESTON SC	L	A	529
IBM 305	IBM 305		NAVY	SUP AND ACCTS	28	OAKLAND	L	AP	175
IBM 305	IBM 305	IBM 305	NAVY	SUP AND ACCTS	32	NEWPORT RI	L	AP	378
IBM 305			FAA	FL STANDARDS	10	OKLAHOMA CITY	L	A	346
IBM 305			GSA	REGION 4	4	ATLANTA	L	AP	261
IBM 305			GSA	REGION 6	6	KANSAS CITY	L	AP	225
IBM 305			GSA	REGION 7	7	DALLAS	L	AP	217
IBM 305			GSA	REGION 8	8	DENVER	L	AP	257
IBM 305	IBM 305		GSA	REGION 9	9	SAN FRANCISCO	L	AP	261
IBM 305	IBM 305		ICC	TRANSPORT ECON	1	WASHINGTON	L	AP	179
IBM 305			TREAS	COAST GUARD	6	WASHINGTON	L	A	200
IBM 305	IBM 305	IBM 305	TREAS	COAST GUARD	7	BALTIMORE	L	A	176
IBM 305	IBM 305		TREAS	COAST GUARD	8	NEW YORK	L	P	447
	IBM 305		TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	315
	IBM 305		TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	315
	IBM 305		TREAS	INTERNAL REV	10	KANSAS CITY	L	P	197
	IBM 305		TREAS	INTERNAL REV	10	KANSAS CITY	L	P	197
	IBM 305		TREAS	INTERNAL REV	11	OGDEN UTAH	L	P	318
IBM 305			TREAS	INTERNAL REV	11	OGDEN UTAH	L	P	318
			VA	INSURANCE	2	PHILADELPHIA	L	P	251
IBM 650	IBM 650		AEC	SCHENECTADY NRO	9	SCHENECTADY	L	A	85
IBM 650	IBM 650		AEC	SAVANNAH RIVER	12	AUGUSTA	L	A	352
IBM 650			AEC	SAVANNAH RIVER	14	AUGUSTA	L	S	264

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
IBM 650	IBM 650	IBM 650	AEC	IDAHO OO	16	SCOVILLE IDAHO	L	S	296
IBM 650			AEC	OAK RIDGE OO	20	PORTSMOUTH O	L	PS	169
IBM 650	IBM 650	IBM 650	AEC	SAN FRAN OO	27	SAN FRANCISCO	P	S	616
IBM 650	IBM 650	IBM 650	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	440
IBM 650			AEC	CHICAGO OO	37	CHICAGO	L	AS	211
IBM 650			AEC	ALBUQUERQUE OO	59	AMARILLO	L	AS	210
IBM 650			AEC	ALBUQUERQUE OO	65	KANSAS CITY	L	AS	199
IBM 650	IBM 650		AEC	ALBUQUERQUE OO	65	KANSAS CITY	L	AS	401
IBM 650	IBM 650		AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	L	S	100
IBM 650			AEC	AGRI ECONOMICS	1	WASHINGTON	L	P	400
IBM 650	IBM 650	IBM 650	AGRI	STAB AND CONS	5	CHICAGO	L	AP	599
IBM 650	IBM 650	IBM 650	AGRI	FOREST SERVICE	8	PORTLAND ORE	L	APS	424
IBM 650	IBM 650	IBM 650	AGRI	FOREST SERVICE	9	SAN FRANCISCO	L	AS	260
IBM 650	IBM 650	IBM 650	AGRI	FORFST SERVICE	10	MISSOULA MONT	L	APS	184
IBM 650			CIA	CIA	2	WASHINGTON	L	P	200
IBM 650			COMM	CENSUS	2	PARSONS KANSAS	L	P	434
IBM 650			COMM	COAST AND GEO	3	WASHINGTON	P	AS	280
IBM 650	IBM 650	IBM 650	COMM	PUBLIC ROADS	7	WASHINGTON	L	AP	150
IBM 650			COMM	PUBLIC ROADS	8	VANCOUVER	L	AS	180
IBM 650			COMM	WEATHER BUREAU	17	ASHEVILLE NC	L	PS	300
IBM 650			COMM	WEATHER BUREAU	19	MIAMI	L	PS	170
		IBM 650	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	382
IBM 650	IBM 650		OSD	DEF SUP AGENCY	14	PHILADELPHIA	L	A	532
IBM 650			OSD	DEF SUP AGENCY	14	PHILADELPHIA	L	A	660
IBM 650			OSD	DEF SUP AGENCY	15	RICHMOND	L	A	417
IBM 650			OSD	DEF SUP AGENCY	15	RICHMOND	L	A	417
IBM 650			OSD	DEF SUP AGENCY	16	PHILADELPHIA	L	A	117
IBM 650			OSD	AERO CHART CEN	5	ST LOUIS	L	C	205
IBM 650	IBM 650		AF	LOGISTICS COMM	25	DAYTON OHIO	L	AP	330
IBM 650	IBM 650		AF	LOGISTICS COMM	27	SACRAMENTO	L	AP	360
IBM 650	IBM 650		AF	LOGISTICS COMM	27	SACRAMENTO	L	AP	370
IBM 650	IBM 650	IBM 650	AF	LOGISTICS COMM	27	SACRAMENTO	L	P	290
IBM 650			AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	350
IBM 650	IBM 650		AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	570
IBM 650	IBM 650	IBM 650	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	AP	410
IBM 650	IBM 650		AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	500
IBM 650			AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	510
IBM 650	IBM 650		AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	520
IBM 650	IBM 650		AF	LOGISTICS COMM	30	HARRISBURG	L	AP	240
IBM 650	IBM 650		AF	LOGISTICS COMM	30	HARRISBURG	L	P	560
IBM 650	IBM 650	IBM 650	AF	LOGISTICS COMM	31	MACON GA	L	AP	410
IBM 650			AF	LOGISTICS COMM	31	MACON GA	L	AP	470
IBM 650	IBM 650		AF	LOGISTICS COMM	31	MACON GA	L	AP	340
IBM 650	IBM 650	IBM 650	AF	LOGISTICS COMM	32	MOBILE ALA	L	AP	430
IBM 650	IBM 650		AF	LOGISTICS COMM	32	MOBILE ALA	L	AP	200
	IBM 650		AF	LOGISTICS COMM	32	MOBILE ALA	L	P	470
IBM 650	IBM 650	IBM 650	AF	LOGISTICS COMM	33	SAN ANTONIO	L	AP	290
IBM 650	IBM 650		AF	LOGISTICS COMM	33	SAN ANTONIO	L	AP	410
IBM 650	IBM 650	IBM 650	AF	LOGISTICS COMM	33	SAN ANTONIO	L	AP	420
IBM 650	IBM 650	IBM 650	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	AP	350
IBM 650	IBM 650		AF	LOGISTICS COMM	35	DAYTON OHIO	L	AP	310
IBM 650	IBM 650		AF	LOGISTICS COMM	35	DAYTON OHIO	L	AP	310
IBM 650	IBM 650		AF	LOGISTICS COMM	36	MEMPHIS	L	AP	380
IBM 650	IBM 650		AF	LOGISTICS COMM	37	UTICA NY	L	AP	340
IBM 650	IBM 650		AF	LOGISTICS COMM	38	FRANCE	L	P	150
		IBM 650	AF	LOGISTICS COMM	39	WASHINGTON	L	A	270
IBM 650	IBM 650		AF	SYSTEMS COMM	44	SAN ANTONIO	L	SX	610
IBM 650	IBM 650	IBM 650	AF	SYSTEMS COMM	50	FT WALTON FLA	L	A	146
IBM 650	IBM 650	IBM 650	AF	SYSTEMS COMM	51	ALBUQUERQUE	L	A	200
IBM 650	IBM 650		AF	SYSTEMS COMM	52	BEDFORD MASS	L	AS	352
IBM 650	IBM 650	IBM 650	AF	SYSTEMS COMM	71	ST LOUIS	L	A	474
IBM 650			AF	MATS	71	ST LOUIS	L	A	114
IBM 650			AF	MATS	88	HONOLULU	L	P	112
IBM 650	IBM 650		AF	PACIFIC FORCES	91	JAPAN	L	A	138
IBM 650	IBM 650	IBM 650	AF	PACIFIC FORCES	92	JAPAN	L	P	443
IBM 650	IBM 650		AF	PACIFIC FORCES	98	OMAHA	L	A	416
IBM 650			AF	STRATEGIC AIR C	98	OMAHA	L	A	360
IBM 650			AF	STRATEGIC AIR C	102	SANTA BARBARA	L	A	450
IBM 650	IBM 650	IBM 650	AF	STRATEGIC AIR C	165	GERMANY	L	A	465
IBM 650			AF	USAF EUROPE	1	INDIANAPOLIS	L	AP	337
IBM 650	IBM 650		ARMY	FINANCE	21	VICKSBURG MISS	L	S	186
IBM 650	IBM 650		ARMY	ENGINEERS	25	PORTLAND ORE	L	AS	200
IBM 650			ARMY	ENGINEERS	32	WASHINGTON	L	S	170
IBM 650			ARMY	ENGINEERS	39	OMAHA	L	AS	176
IBM 650			ARMY	ENGINEERS	42	ST LOUIS	L	A	472
IBM 650			ARMY	ENGINEERS	52	ANNISTON ALA	L	A	225
IBM 650	IBM 650		ARMY	ORDNANCE	74	DOVER NJ	L	S	264
IBM 650			ARMY	ORDNANCE	78	ALBANY NY	P	AS	176
IBM 650	IBM 650	IBM 650	ARMY	ORDNANCE	91	PHILADELPHIA	L	A	352
IBM 650	IBM 650	IBM 650	ARMY	ORDNANCE	102	COLUMBUS OHIO	L	A	426
IBM 650			ARMY	OMG	112	RED BANK N J	L	A	176
IBM 650	IBM 650		ARMY	SIGNAL	116	HAGERSTOWN	L	P	44
IBM 650	IBM 650		ARMY	SIGNAL	117	TOBYHANNA PA	L	A	375
IBM 650	IBM 650		ARMY	SIGNAL	118	SACRAMENTO	L	A	524
IBM 650	IBM 650		ARMY	SIGNAL	119	LEXINGTON KY	L	A	436
IBM 650	IBM 650		ARMY	SIGNAL	144	EL PASO	L	P	160
IBM 650			ARMY	CONARC	151	FRANCE	L	A	287
IBM 650	IBM 650		ARMY	US ARMY EUROPE	154	GERMANY	L	A	328
IBM 650			ARMY	US ARMY EUROPE	156	GERMANY	L	A	557
IBM 650			ARMY	US ARMY EUROPE	158	HAWAII	L	A	446
IBM 650			ARMY	US ARMY PACIFIC	7	WASHINGTON	L	S	238
IBM 650	IBM 650		NAVY	CH NAV OPNS	9	PORTSMOUTH NH	L	AS	293
IBM 650	IBM 650		NAVY	SHIPS	11	NEW YORK	L	A	350
IBM 650	IBM 650	IBM 650	NAVY	SHIPS	13	NORFOLK	L	AS	474
IBM 650	IBM 650		NAVY	SHIPS	18	BREMERTON WASH	L	A	245
IBM 650	IBM 650	IBM 650	NAVY	SHIPS	26	JERSEY CITY	L	AP	256
IBM 650	IBM 650		NAVY	SUP AND ACCTS	28	OAKLAND	L	AP	244
IBM 650			NAVY	SUP AND ACCTS	30	SAN DIEGO	L	AP	305
IBM 650			NAVY	SUP AND ACCTS	46	WASHINGTON	L	AS	235
IBM 650	IBM 650		NAVY	ADMIN OFFICE	49	SAN DIEGO	L	P	390
IBM 650	IBM 650	IBM 650	NAVY	PERSONNEL	50	NORFOLK	L	P	350
IBM 650			NAVY	PERSONNEL	51	CHICAGO	L	P	127
IBM 650			NAVY	PERSONNEL	52	BAINBRIDGE MD	L	P	370
IBM 650			NAVY	PERSONNEL	67	INDIANAPOLIS	L	S	181
IBM 650			NAVY	WEAPONS	70	JOHNSVILLE PA	L	S	318
IBM 650	IBM 650	IBM 650	NAVY	WEAPONS	75	NEWPORT RI	L	S	240
IBM 650	IBM 650	IBM 650	NAVY	WEAPONS					
IBM 650									

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
IBM 650	IBM 650		FAA	AIR TRAFFIC SER	5	INDIANAPOLIS	L	P	480
IBM 650			FRS	FRS	1	WASHINGTON	L	AP	277
IBM 650			HEW	PUBLIC HEALTH	4	WASHINGTON	L	AS	350
IBM 650	~~IBM 650~~		HHFA	FED HOUSING ADM	1	WASHINGTON	L	AP	280
IBM 650	IBM 650	IBM 650	INT	BONNEVILLE POWR	1	PORTLAND ORE	P	ASP	325
IBM 650			INT	RECLAMATION	7	DENVER	L	AS	232
IBM 650	IBM 650	IBM 650	JUST	FBI	1	WASHINGTON	L	AC	348
IBM 650	IBM 650		JUST	FBI	2	WASHINGTON	L	C	174
IBM 650			LABOR	LABOR STAT	1	WASHINGTON	L	P	350
IBM 650			NASA	FLIGHT RES CN	4	BAKERSFIELD	L	AS	176
IBM 650			NASA	LANGLEY RES CN	6	NEWPT NEWS VA	L	S	175
IBM 650	IBM 650		NASA	LANGLEY RES CN	7	NEWPT NEWS VA	L	S	180
IBM 650	IBM 650	IBM 650	NASA	WALLOPS STATION	22	WALLOPS IS VA	L	AS	167
IBM 650	IBM 650	IBM 650	PO	REGION 1	1	BOSTON	L	A	205
IBM 650	IBM 650	IBM 650	PO	REGION 2	2	NEW YORK	L	A	188
IBM 650	IBM 650	IBM 650	PO	REGION 2	2	NEW YORK	L	A	197
IBM 650	IBM 650	IBM 650	PO	REGION 3	3	PHILADELPHIA	L	A	208
IBM 650	IBM 650	IBM 650	PO	REGION 4	4	CINCINNATI	L	A	212
IBM 650	IBM 650	IBM 650	PO	REGION 5	5	RICHMOND	L	A	183
IBM 650	IBM 650	IBM 650	PO	REGION 6	6	ATLANTA	L	A	208
IBM 650	IBM 650	IBM 650	PO	REGION 7	7	CHICAGO	L	A	184
IBM 650	IBM 650	IBM 650	PO	REGION 7	7	CHICAGO	L	A	188
IBM 650	IBM 650	IBM 650	PO	REGION 8	8	ST LOUIS	L	A	164
IBM 650	IBM 650	IBM 650	PO	REGION 9	9	MINNEAPOLIS	L	A	158
IBM 650			PO	REGION 10	11	DALLAS	L	A	152
IBM 650			PO	REGION 12	12	SAN FRANCISCO	L	A	213
IBM 650			TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	376
IBM 650			TREAS	INTERNAL REV	10	KANSAS CITY	L	AP	330
IBM 650	IBM 650	IBM 650	TREAS	INTERNAL REV	11	OGDEN UTAH	L	AP	322
			VA	ADM SERVICES	1	WASHINGTON	L	ASP	300
IBM 704	~~IBM 704~~	IBM 704	AEC	SAVANNAH RIVER	14	AUGUSTA	P	S	176
IBM 704	~~IBM 704~~	~~IBM 704~~	AEC	CHICAGO OO	36	CHICAGO	P	S	456
IBM 704			AEC	NEW YORK OO	40	NEW YORK	L	S	600
IBM 704			AEC	ALBUQUERQUE OO	54	ALBUQUERQUE	L	AS	350
IBM 704	IBM 704	IBM 704	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	P	S	350
IBM 704			AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	P	S	400
IBM 704			COMM	NAT BUR STAND	11	WASHINGTON	L	PS	428
IBM 704			AF	SYSTEMS COMM	46	BAKERSFIELD	L	AS	632
IBM 704			AF	SYSTEMS COMM	51	ALBUQUERQUE	L	S	457
IBM 704			AF	STRATEGIC AIR C	101	OMAHA	L	P	398
IBM 704	IBM 704		ARMY	ORDNANCE	84	WHITE SANDS NM	L	S	283
	IBM 704	IBM 704	ARMY	ORDNANCE	85	WHITE SANDS NM	L	S	305
	~~IBM 704~~	~~IBM 704~~	NAVY	SHIPS	20	NEW LONDON CON	P	S	176
IBM 704	~~IBM 704~~	IBM 704	NAVY	SHIPS	23	PANAMA CITY FL	P	S	420
IBM 704			NAVY	SHIPS	25	SAN FRANCISCO	P	S	624
IBM 704	IBM 704		NAVY	WEAPONS	91	WASHINGTON	L	S	302
IBM 704			FAA	CONTROL SYS DIV	1	OKLAHOMA CITY	L	APS	178
	~~IBM 704~~		NASA	AMES RES CN	2	MOUNTAIN V CAL	L	SX	238
IBM 704		IBM 704	NASA	FLIGHT RES CN	4	BAKERSFIELD	P	AS	176
~~IBM 704~~			NASA	LEWIS RES CN	8	CLEVELAND	P	S	481
IBM 704	IBM 704	IBM 704	NASA	MANNED SP FL CN	14	NEWPT NEWS VA	L	S	200
			TVA	TVA	1	CHATTANOOGA	P	AP	310
IBM 705									
IBM 705			AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	L	AS	350
IBM 705	IBM 705	IBM 705	AGRI	STAB AND CONS	3	NEW ORLEANS	P	AP	250
IBM 705			OSD	DEF SUP AGENCY	13	COLUMBUS OHIO	L	A	520
IBM 705	IBM 705		OSD	DEF SUP AGENCY	17	WASHINGTON	L	P	480
IBM 705		IBM 705	AF	AIR DEF COMM	7	COLORADO SPR	L	A	320
IBM 705			AF	LOGISTICS COMM	25	DAYTON OHIO	L	AP	570
IBM 705			AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	430
IBM 705	IBM 705	IBM 705	AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	460
IBM 705			AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	570
IBM 705	IBM 705		AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	570
IBM 705			AF	LOGISTICS COMM	30	HARRISBURG	L	P	500
IBM 705			AF	LOGISTICS COMM	32	MOBILE ALA	L	P	550
IBM 705	IBM 705		AF	LOGISTICS COMM	32	MOBILE ALA	L	P	610
IBM 705	IBM 705		AF	LOGISTICS COMM	33	SAN ANTONIO	L	P	470
IBM 705			AF	LOGISTICS COMM	33	SAN ANTONIO	L	P	480
IBM 705	IBM 705	IBM 705	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	P	580
IBM 705	IBM 705	IBM 705	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	P	550
IBM 705			AF	LOGISTICS COMM	34	SAN BERNARDINO	L	P	590
IBM 705	IBM 705		AF	LOGISTICS COMM	36	MEMPHIS	L	P	590
IBM 705	IBM 705	IBM 705	AF	LOGISTICS COMM	65	WASHINGTON	L	A	576
IBM 705	IBM 705	IBM 705	AF	HQS USAF	74	ASHEVILLE NC	L	P	348
IBM 705			ARMY	MATS	169	SAN ANTONIO	L	P	475
IBM 705	IBM 705		ARMY	SECURITY SERV	111	PHILADELPHIA	L	A	450
IBM 705	IBM 705	IBM 705	ARMY	SIGNAL	125	ST LOUIS	L	A	561
IBM 705	IBM 705		NAVY	TRANSPORTATION	131	WASHINGTON	L	P	465
IBM 705	IBM 705		NAVY	DCSPERS	17	SAN FRANCISCO	L	AS	397
IBM 705			NAVY	SHIPS	33	PHILADELPHIA	L	P	390
IBM 705			NAVY	SUP AND ACCTS	33	PHILADELPHIA	L	P	390
IBM 705			NAVY	SUP AND AGCTS	35	HARRISBURG	L	P	560
IBM 705	IBM 705	IBM 705	NAVY	PERSONNEL	47	WASHINGTON	L	AP	540
IBM 705			NAVY	YARDS AND DOCKS	94	PT HUENEME CAL	L	A	410
IBM 705			HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	520
IBM 705	IBM 705	IBM 705	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	562
IBM 705	IBM 705	IBM 705	NASA	SOCIAL SECURITY	1	BALTIMORE	L	P	472
IBM 705	IBM 705	IBM 705	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	A	528
IBM 705	IBM 705		VA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	A	528
			VA	INSURANCE	2	PHILADELPHIA	L	P	511
				VET BENEFITS	5	CHICAGO	L	P	440
IBM 709	IBM 709	IBM 709	AEC	SAN FRAN OO	27	SAN FRANCISCO	L	S	600
IBM 709			AEC	SAN FRAN OO	29	SAN FRANCISCO	L	S	616
IBM 709	IBM 709		AF	SYSTEMS COMM	52	BEDFORD MASS	L	PS	260
	IBM 709	IBM 709	ARMY	ORDNANCE	74	DOVER NJ	L	S	120
IBM 709	IBM 709		ARMY	SIGNAL	120	FT HUACHUCA AR	L	PS	279
IBM 709			NAVY	WEAPONS	85	POINT MUGU CAL	L	S	176

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
	IBM 1401	IBM 1401	AEC	BROOKHAVEN O	2	NEW YORK	L	S	352
	IBM 1401	IBM 1401	AEC	BROOKHAVEN O	2	NEW YORK	L	S	352
	IBM 1401	IBM 1401	AEC	SAVANNAH RIVER	12	AUGUSTA	P	A	352
			AEC	SAVANNAH RIVER	12	AUGUSTA	L	A	155
		IBM 1401	AEC	IDAHO OO	17	IDAHO FALLS	L	A	290
	IBM 1401	IBM 1401	AEC	HANFORD OO	18	RICHLAND WASH	L	APS	290
IBM 1401	IBM 1401	IBM 1401	AEC	HANFORD OO	18	RICHLAND WASH	P	A	170
IBM 1401	IBM 1401	IBM 1401	AEC	OAK RIDGE OO	19	CINCINNATI	P	AS	510
	IBM 1401	IBM 1401	AEC	OAK RIDGE OO	21	KNOXVILLE	P	AS	510
IBM 1401	IBM 1401	IBM 1401	AEC	OAK RIDGE OO	21	KNOXVILLE	P	AS	510
		IBM 1401	AEC	OAK RIDGE OO	21	KNOXVILLE	P	A	485
		IBM 1401	AEC	OAK RIDGE OO	23	KNOXVILLE	P	A	250
IBM 1401	IBM 1401		AEC	OAK RIDGE OO	25	KNOXVILLE	P	AS	86
	IBM 1401	IBM 1401	AEC	OAK RIDGE OO	26	ST LOUIS	P	AS	620
IBM 1401	IBM 1401	IBM 1401	AEC	SAN FRAN OO	27	SAN FRANCISCO	L	S	620
	IBM 1401	IBM 1401	AEC	SAN FRAN OO	27	SAN FRANCISCO	L	S	620
		IBM 1401	AEC	SAN FRAN OO	27	SAN FRANCISCO	L	S	650
		IBM 1401	AEC	SAN FRAN OO	28	SAN FRANCISCO	L	AS	616
	IBM 1401	IBM 1401	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	AS	257
IBM 1401	IBM 1401	IBM 1401	AEC	CHICAGO OO	36	CHICAGO	P	AS	176
IBM 1401	IBM 1401	IBM 1401	AEC	CHICAGO OO	37	CHICAGO	L	S	176
	IBM 1401	IBM 1401	AEC	NEVADA OO	39	LAS VEGAS	L	S	300
		IBM 1401	AEC	NEW YORK OO	40	NEW YORK	L	PS	300
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	44	LAS VEGAS	L	AP	140
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	45	ST PETERSBURG	L	AS	300
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	L	AS	300
IBM 1401	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	L	AS	300
IBM 1401	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	50	ALBUQUERQUE	L	A	140
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	50	ALBUQUERQUE	L	A	140
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	50	ALBUQUERQUE	L	AS	160
		IBM 1401	AEC	ALBUQUERQUE OO	55	SAN FRANCISCO	L	AS	160
	IBM 1401		AEC	ALBUQUERQUE OO	55	SAN FRANCISCO	L	A	100
		IBM 1401	AEC	ALBUQUERQUE OO	57	SAN FRANCISCO	L	AS	90
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	59	AMARILLO	L	A	140
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	60	DENVER	L	ACS	160
IBM 1401	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	64	DAYTON OHIO	L	A	278
		IBM 1401	AEC	ALBUQUERQUE OO	65	KANSAS CITY	L	S	260
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	L	S	260
IBM 1401	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	L	S	260
IBM 1401	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	L	S	260
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	L	S	175
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	71	LOS ALAMOS NM	L	A	100
IBM 1401	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	72	LOS ALAMOS NM	L	A	115
	IBM 1401	IBM 1401	AEC	ALBUQUERQUE OO	73	LOS ALAMOS NM	L	A	176
IBM 1401	IBM 1401		AEC	LOS ALAMOS AO	1	WASHINGTON	L	P	179
		IBM 1401	AGRI	AGRI ECONOMICS	2	WASHINGTON	L	AP	200
	IBM 1401	IBM 1401	AGRI	RESEARCH SERV	3	NEW ORLEANS	P	AP	150
	IBM 1401	IBM 1401	AGRI	STAB AND CONS	3	NEW ORLEANS	L	AP	176
	IBM 1401	IBM 1401	AGRI	STAB AND CONS	4	DALLAS	L	P	347
	IBM 1401	IBM 1401	AGRI	STAB AND CONS	5	CHICAGO	L	P	176
	IBM 1401	IBM 1401	AGRI	STAB AND CONS	6	KANSAS CITY	L	P	176
		IBM 1401	AGRI	STAB AND CONS	6	KANSAS CITY	L	A	199
		IBM 1401	AGRI	ADMINISTRATION	1	WASHINGTON	L	P	105
IBM 1401	IBM 1401	IBM 1401	AID	CARRIER ACCOUNT	1	WASHINGTON	R	C	140
	IBM 1401	IBM 1401	CAB		1	WASHINGTON	L	P	200
		IBM 1401	CIA	CIA	2	WASHINGTON	L	A	200
	IBM 1401	IBM 1401	CIA	CIA	3	WASHINGTON	L	P	420
		IBM 1401	CIA	CIA	1	WASHINGTON	L	P	165
	IBM 1401	IBM 1401	COMM	CENSUS	4	WASHINGTON	L	AP	285
	IBM 1401	IBM 1401	COMM	MARITIME ADM	7	WASHINGTON	P	AS	60
IBM 1401	IBM 1401	IBM 1401	COMM	PUBLIC ROADS	8	VANCOUVER	L	P	295
	IBM 1401	IBM 1401	COMM	PUBLIC ROADS	11	WASHINGTON	L	S	176
	IBM 1401	IBM 1401	COMM	NAT BUR STAND	12	DENVER	L	S	176
	IBM 1401	IBM 1401	COMM	NAT BUR STAND	14	WASHINGTON	L	P	300
	IBM 1401	IBM 1401	COMM	WEATHER BUREAU	15	WASHINGTON	L	P	225
IBM 1401	IBM 1401	IBM 1401	COMM	WEATHER BUREAU	15	WASHINGTON	L	PS	180
	IBM 1401	IBM 1401	COMM	WEATHER BUREAU	16	WASHINGTON	L	AP	176
		IBM 1401	COMM	MGMT SERV	2	WASHINGTON	L	AP	156
	IBM 1401	IBM 1401	CSC	GENERAL ADMIN	1	WASHINGTON	L	A	130
	IBM 1401	IBM 1401	DCGOV	DASA	5	ALBUQUERQUE	L	P	235
	IBM 1401	IBM 1401	OSD	DASA	6	WASHINGTON	L	P	176
		IBM 1401	OSD	DASA	6	HAGERSTOWN	L	A	353
	IBM 1401	IBM 1401	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	353
		IBM 1401	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	353
		IBM 1401	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	392
		IBM 1401	OSD	DEF SUP AGENCY	13	COLUMBUS OHIO	L	A	184
IBM 1401			OSD	DEF SUP AGENCY	14	PHILADELPHIA	L	A	236
	IBM 1401	IBM 1401	OSD	DEF SUP AGENCY	14	PHILADELPHIA	L	A	392
	IBM 1401	IBM 1401	OSD	DEF SUP AGENCY	15	RICHMOND	L	A	292
IBM 1401	IBM 1401	IBM 1401	OSD	DEF SUP AGENCY	15	RICHMOND	L	A	439
	IBM 1401		OSD	DEF SUP AGENCY	17	WASHINGTON	L	P	439
IBM 1401	IBM 1401		OSD	DEF SUP AGENCY	17	BATTLE CREEK	L	P	483
		IBM 1401	OSD	DEF SUP AGENCY	17	WASHINGTON	L	P	483
IBM 1401	IBM 1401		OSD	DEF SUP AGENCY	17	BATTLE CREEK	L	P	511
		IBM 1401	OSD	DEF SUP AGENCY	17	WASHINGTON	L	P	511
	IBM 1401		OSD	DEF SUP AGENCY	17	BATTLE CREEK	L	P	424
		IBM 1401	OSD	DEF SUP AGENCY	17	BATTLE CREEK	L	P	193
		IBM 1401	OSD	DEF SUP AGENCY	18	NEW YORK	L	A	134
IBM 1401	IBM 1401		OSD	CINCPAC	21	OAHU	L	AP	192
		IBM 1401	AF	AERO CHART CEN	4	ST LOUIS	L	APS	272
	IBM 1401	IBM 1401	AF	AIR DEF COMM	7	COLORADO SPR	L	A	176
	IBM 1401	IBM 1401	AF	AIR FORCE ACAD	23	COLORADO SPR	P	A	350
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	25	DAYTON OHIO	L	AP	490
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	25	DAYTON OHIO	L	P	490
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	25	DAYTON OHIO	L	P	490
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	500
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	500
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	28	OGDEN UTAH	L	P	450
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	28	OGDEN UTAH	L	P	590
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	560
IBM 1401	IBM 1401		AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	500
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	500
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	480
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	30	HARRISBURG	L	P	500
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	30	HARRISBURG	L	P	500
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	30	HARRISBURG	L	P	590
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	32	MOBILE ALA	L	P	610
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	32	MOBILE ALA	L	P	

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	32	MOBILE ALA	L	P	580
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	32	MOBILE ALA	L	P	580
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	33	SAN ANTONIO	L	P	500
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	33	SAN ANTONIO	L	P	530
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	33	SAN ANTONIO	L	P	530
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	P	540
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	P	550
	IBM 1401	IBM 1401	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	P	550
	IBM 1401		AF	LOGISTICS COMM	35	DAYTON OHIO	L	P	420
	IBM 1401[10]		AF	LOGISTICS COMM	35	DAYTON OHIO	L	P	420
IBM 1401	IBM 1401	IBM 1401	AF	LOGISTICS COMM	36	MEMPHIS	L	P	540
	IBM 1401	IBM 1401[10]	AF	LOGISTICS COMM	36	MEMPHIS	L	P	400
	IBM 1401	IBM 1401	AF	SYSTEMS COMM	39	WASHINGTON	L	A	260
IBM 1401	IBM 1401	IBM 1401	AF	SYSTEMS COMM	41	DAYTON OHIO	L	P	126
IBM 1401	IBM 1401	IBM 1401	AF	SYSTEMS COMM	42	DAYTON OHIO	L	AS	330
	IBM 1401		AF	SYSTEMS COMM	49	COCOA BEACH	L	P	425
	IBM 1401		AF	SYSTEMS COMM	49	COCOA BEACH	L	P	420
IBM 1401			AF	SYSTEMS COMM	49	COCOA BEACH	L	P	445
IBM 1401	IBM 1401	IBM 1401	AF	SYSTEMS COMM	49	COCOA BEACH	L	P	160
IBM 1401	IBM 1401	IBM 1401	AF	SYSTEMS COMM	50	FT WALTON FLA	L	S	176
IBM 1401	IBM 1401[10]	IBM 1401	AF	SYSTEMS COMM	50	FT WALTON FLA	L	AS	176
	IBM 1401	IBM 1401	AF	TRAINING COMM	53	SAN ANTONIO	L	A	154
IBM 1401	IBM 1401	IBM 1401	AF	HQS USAF	65	WASHINGTON	L	AP	331
IBM 1401	IBM 1401	IBM 1401	AF	HQS USAF	65	WASHINGTON	L	SP	328
	IBM 1401	IBM 1401	AF	HQS USAF	67	WASHINGTON	L	P	275
	IBM 1401	IBM 1401	AF	HQS USAF	67	WASHINGTON	L	P	275
		IBM 1401	AF	HQS USAF	68	WASHINGTON	L	C	176
	IBM 1401	IBM 1401	AF	HQS USAF	69	SACRAMENTO	P	C	176
IBM 1401	IBM 1401	IBM 1401	AF	HQS USAF	70	WASHINGTON	L	P	300
	IBM 1401	IBM 1401	AF	MATS	74	ASHEVILLE NC	L	P	395
		IBM 1401	AF	MATS	75	OMAHA	L	P	407
		IBM 1401	AF	PACIFIC FORCES	87	HONOLULU	L	AP	113
		IBM 1401	AF	PACIFIC FORCES	89	HONOLULU	L	A	288
		IBM 1401	AF	PACIFIC FORCES	93	JAPAN	L	A	352
	IBM 1401[10]	IBM 1401[10]	AF	PACIFIC FORCES	96	JAPAN	L	A	352
	IBM 1401	IBM 1401	AF	STRATEGIC AIR C	101	OMAHA	L	P	236
		IBM 1401	AF	STRATEGIC AIR C	101	OMAHA	L	P	270
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	152	HAMPTON VA	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	153	MYRTLE BEACH	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	154	GOLDSBORO NC	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	155	SUMTER SC	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	156	HAMPTON VA	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	157	ALEXANDRIA LA	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	158	SAN BERNARDINO	L	A	176
	IBM 1401		AF	TACTICAL AIR C	159	CLOVIS NM	L	A	176
	IBM 1401[10]	IBM 1401[10]	AF	TACTICAL AIR C	160	LAS VEGAS	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	161	PHOENIX ARIZ	L	A	176
	IBM 1401	IBM 1401	AF	TACTICAL AIR C	162	SMYRNA TENN	L	A	176
		IBM 1401	AF	TACTICAL AIR C	163	FAYETTEVILLE	L	A	176
IBM 1401	IBM 1401		AF	TACTICAL AIR C	164	TAMPA	L	A	176
	IBM 1401		AF	SECURITY SERV	168	GERMANY	L	A	176
IBM 1401	IBM 1401	IBM 1401	AF	SECURITY SERV	168	GERMANY	L	P	423
			AF	SECURITY SERV	169	SAN ANTONIO	L	P	394
		IBM 1401	AF	SECURITY SERV	169	SAN ANTONIO	L	P	450
	IBM 1401	IBM 1401	AF	SECURITY SERV	169	SAN ANTONIO	L	P	400
		IBM 1401	AF	SECURITY SERV	170	GERMANY	L	P	350
	IBM 1401	IBM 1401	AF	SECURITY SERV	171	JAPAN	L	P	260
	IBM 1401	IBM 1401	ARMY	FINANCE	3	WASHINGTON	L	P	264
	IBM 1401	IBM 1401	ARMY	DCSOPNS	7	WASHINGTON	L	A	160
IBM 1401	IBM 1401	IBM 1401	ARMY	DCSLOG	9	NEW YORK	L	S	108
	IBM 1401	IBM 1401	ARMY	ENGINEERS	25	PORTLAND ORE	L	A	200
	IBM 1401	IBM 1401	ARMY	ENGINEERS	36	WASHINGTON	L	AS	176
IBM 1401	IBM 1401	IBM 1401	ARMY	ENGINEERS	42	ST LOUIS	L	A	142
IBM 1401	IBM 1401		ARMY	ORDNANCE	52	ANNISTON ALA	L	A	306
	IBM 1401	IBM 1401	ARMY	ORDNANCE	56	HUNTSVILLE ALA	L	AP	180
	IBM 1401	IBM 1401	ARMY	ORDNANCE	57	HUNTSVILLE ALA	L	A	200
		IBM 1401	ARMY	ORDNANCE	57	HUNTSVILLE ALA	L	A	350
	IBM 1401	IBM 1401	ARMY	ORDNANCE	57	HUNTSVILLE ALA	L	A	375
	IBM 1401	IBM 1401	ARMY	ORDNANCE	57	HUNTSVILLE ALA	L	S	250
	IBM 1401	IBM 1401	ARMY	ORDNANCE	74	DOVER NJ	L	AS	110
	IBM 1401	IBM 1401	ARMY	ORDNANCE	84	WHITE SANDS NM	L	S	228
IBM 1401	IBM 1401	IBM 1401	ARMY	ORDNANCE	87	WHITE SANDS NM	L	A	170
	IBM 1401	IBM 1401	ARMY	ORDNANCE	91	PHILADELPHIA	L	A	264
IBM 1401	IBM 1401	IBM 1401	ARMY	SIGNAL	111	PHILADELPHIA	L	A	500
	IBM 1401	IBM 1401	ARMY	SIGNAL	120	FT HUACHUCA AR	L	PS	234
	IBM 1401	IBM 1401	ARMY	TRANSPORTATION	122	NEW YORK	L	A	196
	IBM 1401	IBM 1401	ARMY	TRANSPORTATION	123	NEW ORLEANS	L	A	150
IBM 1401	IBM 1401	IBM 1401	ARMY	TRANSPORTATION	124	SAN FRANCISCO	L	A	175
IBM 1401			ARMY	TRANSPORTATION	125	ST LOUIS	L	A	537
	IBM 1401	IBM 1401	ARMY	TRANSPORTATION	125	ST LOUIS	L	A	548
IBM 1401	IBM 1401	IBM 1401	ARMY	TRANSPORTATION	125	ST LOUIS	L	A	597
		IBM 1401	ARMY	DCSPERS	131	WASHINGTON	L	P	271
	IBM 1401	IBM 1401	ARMY	US ARMY EUROPE	151	FRANCE	L	A	200
		IBM 1401	ARMY	US ARMY EUROPE	154	GERMANY	L	A	413
		IBM 1401	ARMY	US ARMY EUROPE	154	GERMANY	L	A	400
	IBM 1401	IBM 1401	ARMY	US ARMY EUROPE	157	FRANCE	L	A	175
		IBM 1401	NAVY	US ARMY PACIFIC	158	HAWAII	L	A	161
	IBM 1401	IBM 1401	NAVY	MED AND SURG	1	WASHINGTON	L	AS	158
IBM 1401	IBM 1401	IBM 1401	NAVY	CH NAV OPNS	5	WASHINGTON	L	AS	139
	IBM 1401	IBM 1401	NAVY	SHIPS	8	WASHINGTON	L	A	229
	IBM 1401	IBM 1401	NAVY	SHIPS	8	WASHINGTON	L	A	191
	IBM 1401	IBM 1401	NAVY	SHIPS	9	PORTSMOUTH NH	L	AS	124
IBM 1401	IBM 1401	IBM 1401	NAVY	SHIPS	10	BOSTON	L	AS	159
IBM 1401	IBM 1401		NAVY	SHIPS	17	SAN FRANCISCO	L	AS	383
			NAVY	SHIPS	18	BREMERTON WASH	L	A	292
	IBM 1401	IBM 1401	NAVY	SHIPS	18	BREMERTON WASH	L	A	176
	IBM 1401	IBM 1401	NAVY	SHIPS	19	HONOLULU	L	A	264
IBM 1401	IBM 1401	IBM 1401	NAVY	SHIPS	21	BALTIMORE	L	S	176
IBM 1401	IBM 1401	IBM 1401	NAVY	SHIPS	22	WASHINGTON	L	S	183
	IBM 1401		NAVY	SUP AND ACCTS	26	JERSEY CITY	L	AP	250
		IBM 1401	NAVY	SUP AND ACCTS	26	JERSEY CITY	L	AP	210
IBM 1401	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	26	JERSEY CITY	L	AP	202
	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	27	NORFOLK	L	AP	353
IBM 1401	IBM 1401		NAVY	SUP AND ACCTS	28	OAKLAND	L	AP	210
		IBM 1401	NAVY	SUP AND ACCTS	29	HONOLULU	L	AP	250
	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	30	SAN DIEGO	L	AP	189
					31	CHICAGO	L	AP	157

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
IBM 1401	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	33	PHILADELPHIA	L	P	260
IBM 1401	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	33	PHILADELPHIA	L	P	260
IBM 1401	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	33	PHILADELPHIA	L	P	260
	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	33	PHILADELPHIA	L	P	260
	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	33	PHILADELPHIA	L	P	520
IBM 1401	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	35	HARRISBURG	L	P	520
IBM 1401	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	35	HARRISBURG	L	P	520
	IBM 1401	IBM 1401	NAVY	SUP AND ACCTS	35	HARRISBURG	L	A	250
	IBM 1401	IBM 1401	NAVY	MARINE CORPS	38	PHILADELPHIA	L	AP	96
	IBM 1401	IBM 1401	NAVY	MARINE CORPS	39	NEW BERN NC	L	AP	137
		IBM 1401	NAVY	MARINE CORPS	40	SAN DIEGO	L	AP	89
	IBM 1401	IBM 1401	NAVY	MARINE CORPS	41	QUANTICO	L	AP	100
	IBM 1401	IBM 1401	NAVY	MARINE CORPS	42	WASHINGTON	L	AP	90
	IBM 1401	IBM 1401	NAVY	MARINE CORPS	43	ALBANY GA	L	A	100
	IBM 1401	IBM 1401	NAVY	MARINE CORPS	44	SAN BERNARDINO	L	AP	138
	IBM 1401	IBM 1401	NAVY	MARINE CORPS	45	SAN FRANCISCO	L	A	200
		IBM 1401	NAVY	MARINE CORPS	47	WASHINGTON	L	AP	300
IBM 1401	IBM 1401	IBM 1401	NAVY	PERSONNEL	47	WASHINGTON	L	AP	300
	IBM 1401	IBM 1401	NAVY	PERSONNEL	47	WASHINGTON	L	AP	180
	IBM 1401	IBM 1401	NAVY	PERSONNEL	48	MONTEREY CAL	L	AS	225
	IBM 1401	IBM 1401	NAVY	PERSONNEL	49	SAN DIEGO	L	P	240
IBM 1401	IBM 1401	IBM 1401	NAVY	PERSONNEL	49	SAN DIEGO	L	P	240
	IBM 1401	IBM 1401	NAVY	PERSONNEL	50	NORFOLK	L	P	220
IBM 1401	IBM 1401	IBM 1401	NAVY	PERSONNEL	50	NORFOLK	L	P	220
	IBM 1401	IBM 1401	NAVY	PERSONNEL	51	CHICAGO	L	P	125
	IBM 1401	IBM 1401	NAVY	PERSONNEL	52	BAINBRIDGE MD	L	P	175
IBM 1401	IBM 1401	IBM 1401	NAVY	PERSONNEL	52	BAINBRIDGE MD	L	P	175
	IBM 1401	IBM 1401	NAVY	PERSONNEL	53	BALTIMORE	L	AP	150
	IBM 1401	IBM 1401	NAVY	PERSONNEL	55	WASHINGTON	L	A	125
	IBM 1401	IBM 1401	NAVY	NAVAL RESEARCH	58	CHERRY POINT	L	A	333
	IBM 1401	IBM 1401	NAVY	WEAPONS	59	CHINA LAKE CAL	L	S	176
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	59	CHINA LAKE CAL	L	S	176
	IBM 1401	IBM 1401	NAVY	WEAPONS	61	SAN BERNARDINO	L	S	212
	IBM 1401	IBM 1401	NAVY	WEAPONS	62	CORPUS CHRISTI	L	A	178
	IBM 1401	IBM 1401	NAVY	WEAPONS	64	DAHLGREN VA	L	AS	407
	IBM 1401	IBM 1401	NAVY	WEAPONS	65	LOS ANGELES	L	A	143
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	66	WASHINGTON	L	A	176
	IBM 1401	IBM 1401	NAVY	WEAPONS	68	JACKSONVILLE	L	A	500
	IBM 1401	IBM 1401	NAVY	WEAPONS	69	BALTIMORE	L	P	176
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	69	BALTIMORE	L	P	176
	IBM 1401	IBM 1401	NAVY	WEAPONS	69	BALTIMORE	L	P	176
	IBM 1401	IBM 1401	NAVY	WEAPONS	71	KEYPORT WASH	L	AS	200
	IBM 1401	IBM 1401	NAVY	WEAPONS	73	MONTEREY CAL	L	P	176
	IBM 1401	IBM 1401	NAVY	WEAPONS	74	MACON GA	L	A	143
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	76	NORFOLK	L	A	440
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	79	OAHU	L	AS	125
	IBM 1401	IBM 1401	NAVY	WEAPONS	81	PENSACOLA	L	A	330
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	82	PHILADELPHIA	L	S	200
	IBM 1401	IBM 1401	NAVY	WEAPONS	84	PHILADELPHIA	L	A	177
	IBM 1401	IBM 1401	NAVY	WEAPONS	85	POINT MUGU CAL	L	S	176
	IBM 1401	IBM 1401	NAVY	WEAPONS	86	QUONSET PT RI	L	A	350
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	89	WASHINGTON	L	A	176
	IBM 1401	IBM 1401	NAVY	WEAPONS	90	WASHINGTON	L	A	390
IBM 1401	IBM 1401		NAVY	WEAPONS	91	WASHINGTON	L	S	287
IBM 1401	IBM 1401	IBM 1401	NAVY	WEAPONS	94	PT HUENEME CAL	L	A	275
IBM 1401	IBM 1401	IBM 1401	NAVY	YARDS AND DOCKS	95	WASHINGTON	L	A	150
	IBM 1401	IBM 1401	NAVY	YARDS AND DOCKS	99	WASHINGTON	L	A	160
	IBM 1401	IBM 1401	NAVY	COMPTROLLER	100	CLEVELAND	L	P	134
		IBM 1401	NAVY	COMPTROLLER	1	OKLAHOMA CITY	L	APS	191
	IBM 1401		FAA	CONTROL SYS DIV	8	ATLANTIC CITY	L	A	256
IBM 1401	IBM 1401	IBM 1401	FAA	RES AND DEVELOP	1	BOSTON	L	AP	110
	IBM 1401	IBM 1401	GSA	REGION 1	2	NEW YORK	L	AP	220
	IBM 1401	IBM 1401	GSA	REGION 2	4	ATLANTA	L	AP	224
	IBM 1401	IBM 1401	GSA	REGION 4	5	CHICAGO	L	AP	200
	IBM 1401	IBM 1401	GSA	REGION 5	6	KANSAS CITY	L	AP	188
	IBM 1401	IBM 1401	GSA	REGION 6	7	DALLAS	L	AP	220
	IBM 1401	IBM 1401	GSA	REGION 7	8	DENVER	L	AP	174
	IBM 1401	IBM 1401	GSA	REGION 8	9	SAN FRANCISCO	L	AP	306
	IBM 1401	IBM 1401	GSA	REGION 9	10	SEATTLE	L	AP	165
	IBM 1401	IBM 1401	GSA	REGION 10	1	BALTIMORE	L	AP	491
IBM 1401	IBM 1401	IBM 1401	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	490
IBM 1401	IBM 1401	IBM 1401	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	445
IBM 1401	IBM 1401	IBM 1401	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	450
	IBM 1401	IBM 1401	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	488
	IBM 1401	IBM 1401	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	511
	IBM 1401	IBM 1401	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	479
	IBM 1401	IBM 1401	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	219
		IBM 1401	HEW	SOCIAL SECURITY	9	WASHINGTON	L	AP	236
	IBM 1401	IBM 1401	HEW	PUBLIC HEALTH	1	WASHINGTON	L	AP	240
	IBM 1401	IBM 1401	HHFA	FED HOUSING ADM	1	PORTLAND ORE	P	ASP	160
		IBM 1401	INT	BONNEVILLE POWR	1	WASHINGTON	L	AC	280
IBM 1401	IBM 1401	IBM 1401	JUST	FBI	1	WASHINGTON	L	P	200
	IBM 1401	IBM 1401	LABOR	LABOR STAT	2	MOUNTAIN V CAL	L	SX	168
IBM 1401	IBM 1401	IBM 1401	NASA	AMES RES CN	2	MOUNTAIN V CAL	L	SX	176
		IBM 1401	NASA	AMES RES CN	4	BAKERSFIELD	L	AS	176
		IBM 1401	NASA	FLIGHT RES CN	5	NEWPT NEWS VA	L	A	118
	IBM 1401		NASA	LANGLEY RES CN	5	NEWPT NEWS VA	L	A	170
		IBM 1401	NASA	LANGLEY RES CN	6	NEWPT NEWS VA	L	S	225
IBM 1401	IBM 1401	IBM 1401	NASA	LANGLEY RES CN	7	NEWPT NEWS VA	L	S	190
IBM 1401	IBM 1401	IBM 1401	NASA	LANGLEY RES CN	8	CLEVELAND	L	A	300
IBM 1401	IBM 1401	IBM 1401	NASA	LEWIS RES CN	8	CLEVELAND	L	S	240
	IBM 1401	IBM 1401	NASA	LEWIS RES CN	18	HUNTSVILLE ALA	L	S	352
IBM 1401	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	352
IBM 1401	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	352
IBM 1401	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	352
IBM 1401	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	352
IBM 1401	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	350
	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	A	352
	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	A	352
	IBM 1401	IBM 1401	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	A	352
	IBM 1401	IBM 1401	NASA	GODDARD SFC	25	WASHINGTON	L	S	100
	IBM 1401	IBM 1401	NASA	GODDARD SFC	26	WASHINGTON	L	P	120
	IBM 1401	IBM 1401	NASA	GODDARD SFC	26	WASHINGTON	L	P	120
	IBM 1401	IBM 1401	NASA	GODDARD SFC	26	WASHINGTON	L	S	100
	IBM 1401	IBM 1401	NASA	GODDARD SFC	26	WASHINGTON	L	P	220
IBM 1401	IBM 1401	IBM 1401	RRB	WAGE SERV REC	1	CHICAGO	L	A	176
		IBM 1401	STATE	ADMINISTRATION	1	WASHINGTON	L		

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
	IBM 1401	IBM 1401	TREAS	ACCOUNTS	2	PHILADELPHIA	L	P	213
	IBM 1401	IBM 1401	TREAS	ACCOUNTS	2	PHILADELPHIA	L	P	244
	IBM 1401	IBM 1401	TREAS	ACCOUNTS	2	PHILADELPHIA	L	P	272
	IBM 1401	IBM 1401	TREAS	ACCOUNTS	3	KANSAS CITY	L	P	238
		IBM 1401	TREAS	ACCOUNTS	4	SAN FRANCISCO	P	P	314
	IBM 1401	IBM 1401	TREAS	ACCOUNTS	5	BIRMINGHAM	P	P	329
IBM 1401	IBM 1401	IBM 1401	TREAS	COAST GUARD	7	BALTIMORE	L	A	176
IBM 1401	IBM 1401	IBM 1401	TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	217
IBM 1401		IBM 1401	TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	217
		IBM 1401	TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	214
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	211
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	10	KANSAS CITY	L	AP	200
		IBM 1401	TREAS	INTERNAL REV	10	KANSAS CITY	L	AP	200
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	10	KANSAS CITY	L	AP	200
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	10	KANSAS CITY	L	AP	200
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	11	OGDEN UTAH	L	AP	199
		IBM 1401	TREAS	INTERNAL REV	11	OGDEN UTAH	L	AP	208
		IBM 1401	TREAS	INTERNAL REV	11	OGDEN UTAH	L	AP	208
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	11	OGDEN UTAH	L	A	208
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	12	MARTINSBURG WV	L	AP	275
	IBM 1401	IBM 1401	TREAS	INTERNAL REV	13	ATLANTA	L	P	176
		IBM 1401	TREAS	INTERNAL REV	13	ATLANTA	L	AP	203
		IBM 1401	TREAS	INTERNAL REV	13	ATLANTA	L	P	193
		IBM 1401	TREAS	INTERNAL REV	13	ATLANTA	L	P	200
IBM 1401	IBM 1401		TREAS	INTERNAL REV	14	PHILADELPHIA	L	P	200
		IBM 1401	TREAS	TREASURER	14	PHILADELPHIA	L	AP	203
IBM 1401			TREAS	TREASURER	16	WASHINGTON	L	P	193
		IBM 1401	TREAS	TREASURER	16	WASHINGTON	P	P	299
	IBM 1401	IBM 1401	VA	INSURANCE	2	PHILADELPHIA	L	P	286
	IBM 1401	IBM 1401	VA	INSURANCE	2	PHILADELPHIA	L	P	342
		IBM 1401	VA	INSURANCE	2	PHILADELPHIA	L	P	362
		IBM 1401	VA	INSURANCE	3	MINNEAPOLIS	L	P	322
IBM 1401	IBM 1401		VA	INSURANCE	4	DENVER	L	P	284
	IBM 1401	IBM 1401	VA	VET BENEFITS	5	CHICAGO	L	P	296
	IBM 1401	IBM 1401	VA	VET BENEFITS	5	CHICAGO	L	P	273
			VA	MED SURGERY	8	LOS ANGELES	L	A	488
									132
	IBM 1410	IBM 1410	AEC	OAK RIDGE OO	20	PORTSMOUTH O	P	APS	200
	IBM 1410	IBM 1410	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	600
		IBM 1410	AEC	ALBUQUERQUE OO	65	KANSAS CITY	L	A	176
	IBM 1410	IBM 1410	CIA	CIA	2	WASHINGTON	L	P	200
		IBM 1410	OSD	DEF COMM AGENCY	8	COLORADO SPR	L	P	374
		IBM 1410	OSD	DEF COMM AGENCY	9	FRANCE	P	P	374
		IBM 1410	OSD	DEF COMM AGENCY	10	HONOLULU	P	P	374
		IBM 1410	OSD	DEF COMM AGENCY	11	HAGERSTOWN	P	P	374
	IBM 1410	IBM 1410	AF	DEF SUP AGENCY	20	WASHINGTON	L	AP	97
		IBM 1410	AF	USAF EUROPE	165	GERMANY	L	A	221
	IBM 1410	IBM 1410	AF	USAF EUROPE	166	GERMANY	L	P	350
	IBM 1410	IBM 1410	ARMY	SECURITY SERV	168	GERMANY	L	P	350
	IBM 1410	IBM 1410	ARMY	ENGINEERS	42	ST LOUIS	L	A	276
		IBM 1410	ARMY	ORDNANCE	57	HUNTSVILLE ALA	L	A	350
	IBM 1410	IBM 1410	ARMY	ORDNANCE	62	WASHINGTON	L	AS	170
	IBM 1410	IBM 1410	ARMY	QMG	100	ATLANTA	L	A	241
	IBM 1410	IBM 1410	ARMY	QMG	102	COLUMBUS OHIO	L	A	320
		IBM 1410	ARMY	QMG	109	OGDEN UTAH	L	A	230
	IBM 1410	IBM 1410	ARMY	SIGNAL	117	TOBYHANNA PA	L	A	352
		IBM 1410	ARMY	SIGNAL	118	SACRAMENTO	L	A	407
		IBM 1410	ARMY	SIGNAL	119	LEXINGTON KY	L	A	315
		IBM 1410	NAVY	SHIPS	18	BREMERTON WASH	L	A	176
		IBM 1410	NAVY	SUP AND ACCTS	26	JERSEY CITY	L	AP	202
		IBM 1410	NAVY	SUP AND ACCTS	27	NORFOLK	L	AP	255
		IBM 1410	NAVY	SUP AND ACCTS	29	HONOLULU	L	AP	176
		IBM 1410	NAVY	SUP AND ACCTS	30	SAN DIEGO	L	AP	202
		IBM 1410	NAVY	SUP AND ACCTS	32	NEWPORT RI	L	AP	189
		IBM 1410	NAVY	SUP AND ACCTS	33	PHILADELPHIA	L	P	390
	IBM 1410	IBM 1410	FRS	FRS	33	PHILADELPHIA	L	P	390
	IBM 1410	IBM 1410	GSA	REGION 3	1	WASHINGTON	L	AP	277
	IBM 1410	IBM 1410	HEW	PUBLIC HEALTH	3	WASHINGTON	L	AP	535
					9	WASHINGTON	L	P	193
	IBM 1620	IBM 1620	AEC	SCHENECTADY NRO	11	SCHENECTADY	L	S	115
IBM 1620	IBM 1620	IBM 1620	AEC	SAVANNAH RIVER	13	AUGUSTA	L	S	176
IBM 1620	IBM 1620	IBM 1620	AEC	IDAHO OO	15	SCOVILLE IDAHO	L	APS	130
		IBM 1620	AEC	CHICAGO OO	31	CHICAGO	L	S	100
IBM 1620	IBM 1620	IBM 1620	AEC	CHICAGO OO	32	CHICAGO	L	S	400
	IBM 1620	IBM 1620	AEC	CHICAGO OO	33	CHICAGO	L	S	170
	IBM 1620	IBM 1620	AEC	NEVADA OO	39	LAS VEGAS	L	AS	220
IBM 1620	IBM 1620	IBM 1620	AEC	NEW YORK OO	41	NEW YORK	L	S	140
IBM 1620	IBM 1620	IBM 1620	AEC	ALBUQUERQUE OO	47	ALBUQUERQUE	L	S	150
	IBM 1620	IBM 1620	AEC	ALBUQUERQUE OO	56	SAN FRANCISCO	L	S	160
	IBM 1620	IBM 1620	AEC	ALBUQUERQUE OO	56	SAN FRANCISCO	L	S	200
	IBM 1620	IBM 1620	AEC	ALBUQUERQUE OO	59	AMARILLO	L	S	110
IBM 1620	IBM 1620	IBM 1620	AEC	ALBUQUERQUE OO	64	DAYTON OHIO	P	S	165
	IBM 1620	IBM 1620	AEC	ALBUQUERQUE OO	66	ALBUQUERQUE	L	A	150
	IBM 1620	IBM 1620	AEC	ALBUQUERQUE OO	67	ALBUQUERQUE	L	S	150
	IBM 1620	IBM 1620	AGRI	RESEARCH SERV	69	LOS ALAMOS NM	L	S	176
	IBM 1620	IBM 1620	AGRI	FOREST SERVICE	2	WASHINGTON	L	P	153
		IBM 1620	COMM	COAST AND GEO	11	MADISON WIS	L	PS	158
	IBM 1620	IBM 1620	COMM	PUBLIC ROADS	3	WASHINGTON	P	S	200
IBM 1620	IBM 1620	IBM 1620	COMM	WEATHER BUREAU	9	DENVER	L	AS	100
	IBM 1620	IBM 1620	COMM	WEATHER BUREAU	13	WASHINGTON	L	S	176
	IBM 1620	IBM 1620	AF	SYSTEMS COMM	14	WASHINGTON	L	S	200
	IBM 1620	IBM 1620	AF	SYSTEMS COMM	18	FT WORTH	L	PS	160
IBM 1620	IBM 1620	IBM 1620	AF	SYSTEMS COMM	49	COCOA BEACH	L	P	165
	IBM 1620	IBM 1620	AF	AIR UNIVERSITY	49	COCOA BEACH	L	P	220
IBM 1620	IBM 1620	IBM 1620	AF	AIR UNIVERSITY	52	BEDFORD MASS	L	APS	104
	IBM 1620		AF	HQS USAF	60	DAYTON OHIO	L	A	125
IBM 1620	IBM 1620	IBM 1620	AF	HQS USAF	61	DAYTON OHIO	L	A	244
		IBM 1620	AF	AEROSPACE RES	69	SACRAMENTO	L	C	176
		IBM 1620	AF	PACIFIC FORCES	69	SACRAMENTO	P	C	176
					86	DAYTON OHIO	L	S	190
					90	PHILIPPINES	L	P	176

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPART-MENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PUR-CHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
		IBM 1620	AF	PACIFIC FORCES	93	JAPAN	L	P	176
		IBM 1620	AF	PACIFIC FORCES	94	OKINAWA	L	P	176
		IBM 1620	AF	PACIFIC FORCES	95	KOREA	L	P	176
		IBM 1620	AF	PACIFIC FORCES	96	JAPAN	L	P	176
		IBM 1620	AF	PACIFIC FORCES	97	JAPAN	L	P	84
	IBM 1620	IBM 1620	ARMY	CHEMICAL	16	EDGEWOOD MD	L	S	120
	IBM 1620		ARMY	CHEMICAL	17	DUGWAY UTAH	L	APS	170
	IBM 1620	IBM 1620	ARMY	ENGINEERS	25	PORTLAND ORE	L	AS	170
	IBM 1620	IBM 1620	ARMY	ENGINEERS	27	WASHINGTON	L	C	176
		IBM 1620	ARMY	ENGINEERS	29	SAN ANTONIO	L	S	134
		IBM 1620	ARMY	ENGINEERS	29	KANSAS CITY	L	S	109
		IBM 1620	ARMY	ENGINEERS	41	KANSAS CITY	L	AS	200
IBM 1620	IBM 1620	IBM 1620	ARMY	ENGINEERS	43	HUNTINGTON WVA	L	S	150
	IBM 1620	IBM 1620	ARMY	ENGINEERS	45	ALBUQUERQUE	L	AS	91
	IBM 1620	IBM 1620	ARMY	ENGINEERS	53	HUNTSVILLE ALA	L	S	132
	IBM 1620	IBM 1620	ARMY	ORDNANCE	53	HUNTSVILLE ALA	L	S	132
IBM 1620	IBM 1620	IBM 1620	ARMY	ORDNANCE	53	HUNTSVILLE ALA	L	S	132
	IBM 1620	IBM 1620	ARMY	ORDNANCE	55	HUNTSVILLE ALA	L	P	171
	IBM 1620	IBM 1620	ARMY	ORDNANCE	70	BOSTON	L	S	176
	IBM 1620	IBM 1620	ARMY	ORDNANCE	82	WHITE SANDS NM	L	S	176
IBM 1620	IBM 1620	IBM 1620	ARMY	ORDNANCE	83	WHITE SANDS NM	L	S	160
	IBM 1620	IBM 1620	ARMY	ORDNANCE	84	WHITE SANDS NM	L	S	95
IBM 1620	IBM 1620	IBM 1620	ARMY	TRANSPORTATION	128	BAKERSFIELD	L	S	132
	IBM 1620	IBM 1620	ARMY	TRANSPORTATION	130	NEWPT NEWS VA	L	S	160
IBM 1620	IBM 1620	IBM 1620	ARMY	CONARC	144	EL PASO	L	P	202
	IBM 1620	IBM 1620	ARMY	MED AND SURG	2	WASHINGTON	L	S	95
		IBM 1620	NAVY	MED AND SURG	3	CHICAGO	L	S	176
		IBM 1620	NAVY	MED AND SURG	4	PENSACOLA	L	S	141
	IBM 1620	IBM 1620	NAVY	MED AND SURG	8	WASHINGTON	L	S	130
	IBM 1620	IBM 1620	NAVY	SHIPS	53	BALTIMORE	L	X	190
	IBM 1620	IBM 1620	NAVY	PERSONNEL	59	CHINA LAKE CAL	L	S	176
	IBM 1620	IBM 1620	NAVY	WEAPONS	59	CHINA LAKE CAL	L	S	176
	IBM 1620	IBM 1620	NAVY	WEAPONS	63	CRANE IND	L	S	157
IBM 1620	IBM 1620	IBM 1620	NAVY	WEAPONS	72	KEY WEST FLA	L	S	176
	IBM 1620		NAVY	WEAPONS	73	MONTEREY CAL	L	PS	176
IBM 1620			NAVY	WEAPONS	75	NEWPORT RI	L	S	176
	IBM 1620	IBM 1620	NAVY	WEAPONS	83	PHILADELPHIA	L	AS	329
IBM 1620	IBM 1620	IBM 1620	NAVY	WEAPONS	93	PT HUENEME CAL	L	S	180
IBM 1620	IBM 1620	IBM 1620	NAVY	YARDS AND DOCKS	5	WASHINGTON	L	S	170
	IBM 1620	IBM 1620	HEW	PUBLIC HEALTH	10	WASHINGTON	L	APS	160
IBM 1620	IBM 1620	IBM 1620	HEW	PUBLIC HEALTH	10	TULSA	L	S	176
IBM 1620	IBM 1620	IBM 1620	INT	SW POWER ADM	1	WASHINGTON	L	S	160
		IBM 1620	NASA	HEADQUARTERS	6	NEWPT NEWS VA	L	S	200
	IBM 1620	IBM 1620	NASA	LANGLEY RES CN	7	NEWPT NEWS VA	L	S	120
	IBM 1620	IBM 1620	NASA	LANGLEY RES CN	11	NEWPT NEWS VA	L	S	176
IBM 1620	IBM 1620	IBM 1620	NASA	MANNED SP FL CN	13	HOUSTON	L	S	176
	IBM 1620	IBM 1620	NASA	MANNED SP FL CN	18	HUNTSVILLE ALA	L	S	75
IBM 1620	IBM 1620	IBM 1620	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	75
IBM 1620	IBM 1620	IBM 1620	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	75
IBM 1620	IBM 1620	IBM 1620	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	75
IBM 1620	IBM 1620	IBM 1620	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	75
IBM 1620	IBM 1620	IBM 1620	VA	MED SURGERY	6	OMAHA	P	S	103
		IBM 7030	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	650
IBM 7030	IBM 7030	IBM 7030	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	P	S	300
	IBM 7030	IBM 7030	COMM	WEATHER BUREAU	14	WASHINGTON	L	S	176
		IBM 7030	NAVY	WEAPONS	64	DAHLGREN VA	L	S	176
		IBM 7070	AGRI	STAB AND CONS	4	DALLAS	L	P	176
IBM 7070	IBM 7070	IBM 7070	OSD	DEF SUP AGENCY	14	PHILADELPHIA	L	A	395
	IBM 7070		OSD	DEF SUP AGENCY	15	RICHMOND	L	A	418
IBM 7070		IBM 7070	AF	SYSTEMS COMM	39	WASHINGTON	L	A	150
			AF	HQS USAF	68	WASHINGTON	L	C	578
IBM 7070			AF	MATS	81	CHARLESTON SC	L	A	311
IBM 7070	IBM 7070		AF	DCSLOG	9	NEW YORK	L	A	200
IBM 7070	IBM 7070	IBM 7070	ARMY	TRANSPORTATION	122	NEW YORK	L	A	196
	IBM 7070	IBM 7070	ARMY	CH NAV OPNS	5	WASHINGTON	L	AS	131
	IBM 7070	IBM 7070	NAVY	SHIPS	8	WASHINGTON	L	A	253
IBM 7070	IBM 7070	IBM 7070	NAVY	WEAPONS	61	SAN BERNARDINO	L	S	212
IBM 7070	IBM 7070	IBM 7070	NAVY	COMPTROLLER	100	CLEVELAND	L	P	193
IBM 7070	IBM 7070	IBM 7070	NAVY	FED HOUSING ADM	1	WASHINGTON	L	AP	176
	IBM 7070	IBM 7070	HHFA	FBI	1	WASHINGTON	L	AC	100
	IBM 7070	IBM 7070	JUST	LABOR STAT	1	WASHINGTON	L	P	125
IBM 7070	IBM 7070	IBM 7070	LABOR	LANGLEY RES CN	7	NEWPT NEWS VA	L	S	180
		IBM 7070	NASA	WAGE SERV REC	1	CHICAGO	L	P	264
IBM 7070	IBM 7070	IBM 7070	RRB	ACCOUNTS	1	CHICAGO	L	P	324
IBM 7070	IBM 7070	IBM 7070	TREAS	INTERNAL REV	9	LAWRENCE MASS	L	AP	204
IBM 7070	IBM 7070	IBM 7070	TREAS	INTERNAL REV	10	KANSAS CITY	L	P	296
	IBM 7070	IBM 7070	TREAS	INTERNAL REV	11	OGDEN UTAH	L	AP	301
	IBM 7070	IBM 7070	TREAS	INTERNAL REV	12	MARTINSBURG WV	L	P	182
	IBM 7070		TREAS	INTERNAL REV	16	WASHINGTON	L	P	254
	IBM 7070		TREAS	TREASURER	16	WASHINGTON	L	P	259
IBM 7070	IBM 7070		TREAS	TREASURER					
IBM 7070	IBM 7070								
		IBM 7072	AGRI	AGRI ECONOMICS	1	WASHINGTON	L	P	176
		IBM 7074	AGRI	STAB AND CONS	6	KANSAS CITY	L	P	176
		IBM 7074	OSD	DEF SUP AGENCY	15	RICHMOND	L	A	350
	IBM 7074	IBM 7074	AF	HQS USAF	68	WASHINGTON	L	C	300
	IBM 7074	IBM 7074	TREAS	INTERNAL REV	12	MARTINSBURG WV	L	P	152
		IBM 7074	TREAS	TREASURER	16	WASHINGTON	P	P	352
		IBM 7080	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	550
		IBM 7080	OSD	DEF SUP AGENCY	17	BATTLE CREEK	L	P	480
		IBM 7080	AF	LOGISTICS COMM	25	DAYTON OHIO	L	AP	400
	IBM 7080	IBM 7080	AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	450
	IBM 7080	IBM 7080	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	400
	IBM 7080	IBM 7080	AF	LOGISTICS COMM	30	HARRISBURG	L	P	400
		IBM 7080	AF	LOGISTICS COMM	32	MOBILE ALA	L	P	400
	IBM 7080	IBM 7080	AF						

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P), LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
		IBM 7080	AF	LOGISTICS COMM	33	SAN ANTONIO	L	P	400
	IBM 7080		AF	LOGISTICS COMM	35	DAYTON OHIO	L	P	400
	IBM 7080	IBM 7080	AF	LOGISTICS COMM	36	MEMPHIS	L	P	400
	IBM 7080	IBM 7080	ARMY	TRANSPORTATION	125	ST LOUIS	L	A	367
	IBM 7080	IBM 7080	NAVY	SUP AND ACCTS	35	HARRISBURG	L	P	250
	IBM 7080	IBM 7080	NAVY	PERSONNEL	47	WASHINGTON	L	AP	220
	IBM 7080	IBM 7080	HEW	SOCIAL SECURITY	1	BALTIMORE	L	AP	442
		IBM 7080	HEW	SOCIAL SECURITY	1	BALTIMORE	L	P	372
	IBM 7080	IBM 7080	VA	INSURANCE	2	PHILADELPHIA	P	P	335
			VA	VET BENEFITS	5	CHICAGO	L	P	380
	IBM 7090		AEC	BROOKHAVEN O	2	NEW YORK	L	S	176
IBM 7090	IBM 7090	IBM 7090	AEC	HANFORD OO	18	RICHLAND WASH	P	APS	235
IBM 7090	IBM 7090	IBM 7090	AEC	OAK RIDGE OO	21	KNOXVILLE	P	AS	530
	IBM 7090		AEC	SAN FRAN OO	27	SAN FRANCISCO	L	S	616
IBM 7090	IBM 7090		AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	651
IBM 7090	IBM 7090		AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	667
	IBM 7090		AEC	SAN FRAN OO	29	SAN FRANCISCO	L	S	650
IBM 7090	IBM 7090	IBM 7090	AEC	NEW YORK OO	40	NEW YORK	L	S	300
IBM 7090	IBM 7090	IBM 7090	AEC	ALBUQUERQUE OO	49	ALBUQUERQUE	L	AS	300
	IBM 7090	IBM 7090	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	P	S	400
	IBM 7090	IBM 7090	AEC	ALBUQUERQUE OO	69	LOS ALAMOS NM	P	S	400
		IBM 7090	COMM	NAT BUR STAND	11	WASHINGTON	L	PS	200
		IBM 7090	COMM	NAT BUR STAND	12	DENVER	L	S	176
			COMM	WEATHER BUREAU	15	WASHINGTON	L	P	480
IBM 7090	IBM 7090	IBM 7090	AF	SYSTEMS COMM	41	DAYTON OHIO	L	P	210
IBM 7090	IBM 7090	IBM 7090	AF	SYSTEMS COMM	42	DAYTON OHIO	L	AS	354
	IBM 7090		AF	SYSTEMS COMM	46	BAKERSFIELD	L	AS	440
IBM 7090	IBM 7090		AF	SYSTEMS COMM	49	COCOA BEACH	L	P	340
IBM 7090	IBM 7090		AF	SYSTEMS COMM	49	COCOA BEACH	L	P	220
IBM 7090	IBM 7090	IBM 7090	AF	SYSTEMS COMM	50	FT WALTON FLA	L	AS	176
IBM 7090	IBM 7090	IBM 7090	AF	HQS USAF	65	WASHINGTON	L	SP	450
IBM 7090	IBM 7090	IBM 7090	AF	HQS USAF	67	WASHINGTON	L	P	215
	IBM 7090	IBM 7090	AF	MATS	75	OMAHA	L	P	340
	IBM 7090	IBM 7090	AF	STRATEGIC AIR C	101	OMAHA	L	P	176
	IBM 7090	IBM 7090	ARMY	DCSOPNS	7	WASHINGTON	L	S	125
	IBM 7090	IBM 7090	ARMY	ORDNANCE	57	HUNTSVILLE ALA	L	S	260
	IBM 7090		ARMY	ORDNANCE	80	WHITE SANDS NM	L	S	220
IBM 7090	IBM 7090	IBM 7090	NAVY	SHIPS	22	WASHINGTON	L	S	183
IBM 7090	IBM 7090	IBM 7090	NAVY	WEAPONS	59	CHINA LAKE CAL	L	S	176
IBM 7090	IBM 7090	IBM 7090	NAVY	WEAPONS	64	DAHLGREN VA	L	AS	407
	IBM 7090	IBM 7090	NAVY	WEAPONS	69	BALTIMORE	L	P	272
	IBM 7090	IBM 7090	NAVY	WEAPONS	85	POINT MUGU CAL	L	S	176
IBM 7090	IBM 7090	IBM 7090	FAA	RES AND DEVELOP	91	WASHINGTON	L	S	287
	IBM 7090		NASA	AMES RES CN	8	ATLANTIC CITY	L	AS	211
IBM 7090	IBM 7090		NASA	LANGLEY RES CN	2	MOUNTAIN V CAL	L	SX	143
	IBM 7090	IBM 7090	NASA	LEWIS RES CN	6	NEWPT NEWS VA	L	S	245
	IBM 7090	IBM 7090	NASA	MANNED SP FL CN	8	CLEVELAND	L	S	240
IBM 7090	IBM 7090	IBM 7090	NASA	MARSHL SP FL CN	14	NEWPT NEWS VA	L	S	200
IBM 7090	IBM 7090	IBM 7090	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	528
IBM 7090	IBM 7090	IBM 7090	NASA	MARSHL SP FL CN	18	HUNTSVILLE ALA	L	S	528
IBM 7090	IBM 7090	IBM 7090	NASA	GODDARD SFC	25	WASHINGTON	L	S	347
IBM 7090	IBM 7090	IBM 7090	NASA	GODDARD SFC	26	WASHINGTON	L	P	140
	IBM 7090	IBM 7090	NASA	GODDARD SFC	26	WASHINGTON	L	P	140
			NASA	GODDARD SFC	26	WASHINGTON	L	P	140
		IBM 7094	AEC	BROOKHAVEN O	2	NEW YORK	L	S	176
		IBM 7094	AEC	SAN FRAN OO	27	SAN FRANCISCO	L	S	616
		IBM 7094	AEC	SAN FRAN OO	27	SAN FRANCISCO	L	S	616
		IBM 7094	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	651
		IBM 7094	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	667
		IBM 7094	AEC	NEW YORK OO	40	NEW YORK	L	S	350
		IBM 7094	COMM	NAT BUR STAND	11	WASHINGTON	L	PS	176
		IBM 7094	COMM	WEATHER BUREAU	15	WASHINGTON	L	P	480
		IBM 7094	COMM	WEATHER BUREAU	16	WASHINGTON	L	PS	200
		IBM 7094	ARMY	ORDNANCE	80	WHITE SANDS NM	L	S	264
		IBM 7094	NASA	AMES RES CN	2	MOUNTAIN V CAL	L	SX	176
	MON X1	MON X1	NAVY	WEAPONS	57	CHARLESTON SC	L	S	180
	MON X1	MON X1	HEW	PUBLIC HEALTH	6	WASHINGTON	L	S	170
NAA REC2	NAA REC2	NAA REC2	AEC	CHICAGO OO	35	CHICAGO	P	S	150
	NAA REC2	NAA REC2	AEC	NEVADA OO	38	GOLETA CAL	L	S	200
NAA REC2	NAA REC2	NAA REC2	AF	AERO CHART CEN	6	ST LOUIS	P	C	172
NAA REC2	NAA REC2	NAA REC2	AF	AERO CHART CEN	6	ST LOUIS	P	C	172
NAA REC2	NAA REC2	NAA REC2	AF	AERO CHART CEN	6	ST LOUIS	P	C	172
NAA REC2	NAA REC2	NAA REC2	AF	AERO CHART CEN	6	ST LOUIS	P	C	172
	NAA REC2	NAA REC2	AF	MATS	73	ALBANY GA	P	S	364
	NAA REC2	NAA REC2	AF	MATS	73	ALBANY GA	P	S	270
NAA REC2	NAA REC2	NAA REC2	AF	STRATEGIC AIR C	100	OMAHA	P	P	176
NAA REC2	NAA REC2	NAA REC2	ARMY	MILITARY ACADMY	6	WEST POINT	P	A	100
NAA REC2	NAA REC2	NAA REC2	ARMY	ENGINEERS	31	WASHINGTON	P	S	80
NAA REC2	NAA REC2	NAA REC2	ARMY	SIGNAL	112	RED BANK N J	P	X	40
NAA REC2	NAA REC2	NAA REC2	ARMY	SIGNAL	112	RED BANK N J	P	X	170
NAA REC2	NAA REC2		ARMY	SIGNAL	115	WASHINGTON	P	X	220
	NAA REC2	NAA REC2	NASA	HEADQUARTERS	1	WASHINGTON	L	S	160
	NAA REC2	NAA REC2	NASA	LEWIS RES CN	10	SANDUSKY OHIO	L	AS	176
NAA REC2	NAA REC2	NAA REC2	NASA	MANNED SP FL CN	12	HOUSTON	L	S	150
NAA REC2	NAA REC2	NAA REC2	NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	L	S	135
NAA REC2	NAA REC2	NAA REC2	NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	L	S	135
	NAA REC2	NAA REC2	NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	L	S	135
	NAA REC2	NAA REC2	NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	L	S	135
	NAA REC2	NAA REC2	NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	L	S	135
	NAA REC2	NAA REC2	NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	L	S	135
	NAA REC3	NAA REC3	NASA	MARSHL SP FL CN	19	HUNTSVILLE ALA	L	S	135

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
NCR 102	NCR 102	NCR 102	AEC	ALBUQUERQUE OO	48	ALBUQUERQUE	P	S	120
NCR 102	NCR 102	NCR 102	AF	SYSTEMS COMM	43	SAN ANTONIO	P	S	145
NCR 102			NAVY	PERSONNEL	48	MONTEREY CAL	P	AS	40
	NCR 304	NCR 304	AF	STRATEGIC AIR C	98	OMAHA	L	A	300
	NCR 304	NCR 304	AF	STRATEGIC AIR C	98	OMAHA	L	A	207
		NCR 304	NAVY	SHIPS	11	NEW YORK	L	A	176
NCR 304	NCR 304	NCR 304	NAVY	MARINE CORPS	39	NEW BERN NC	L	P	330
NCR 304	NCR 304	NCR 304	NAVY	MARINE CORPS	40	SAN DIEGO	L	P	254
NCR 304	NCR 304	NCR 304	NAVY	MARINE CORPS	42	WASHINGTON	L	AP	303
NCR 304	NCR 304	NCR 304	NAVY	YARDS AND DOCKS	95	WASHINGTON	L	AS	300
		NCR 315	ARMY	US ARMY EUROPE	152	GERMANY	L	A	103
		NCR 315	ARMY	US ARMY EUROPE	152	GERMANY	L	A	135
	NCR 390	NCR 390	AF	AIR DEF COMM	8	COLORADO SPR	L	A	150
		NCR 390	AF	STRATEGIC AIR C	98	OMAHA	L	A	176
	NCR 390	NCR 390	ARMY	DCSPERS	133	ST LOUIS	L	A	158
	NCR 390	NCR 390	NAVY	WEAPONS	90	WASHINGTON	L	A	200
		NCR 390	NAVY	COMPTROLLER	96	NORFOLK	L	A	176
		NCR 390	NAVY	COMPTROLLER	97	PHILADELPHIA	L	A	150
		NCR 390	NAVY	COMPTROLLER	98	WASHINGTON	L	A	160
		NCR 390	NAVY	COMPTROLLER	98	WASHINGTON	L	A	160
	PAB 250		AEC	ALBUQUERQUE OO	53	KAVAI ISLAND	L	S	170
	PAB 250	PAB 250	AEC	ALBUQUERQUE OO	53	JOHNSON ISLAND	L	S	170
	PAB 250	PAB 250	ARMY	SURG GEN	49	WASHINGTON	L	S	200
	PAB 250	PAB 250	NAVY	WEAPONS	80	PATUX RIV MD	P	S	140
PAB 250	PAB 250	PAB 250	NASA	MARSHL SP FL CN	20	HUNTSVILLE ALA	L	S	120
PHI 2000	PHI 2000	PHI 2000	AEC	PITTSBRG NRO	8	PITTSBURGH	L	S	500
PHI 2000	PHI 2000	PHI 2000	AEC	SCHENECTADY NRO	10	SCHENECTADY	L	AS	600
PHI 2000	PHI 2000	PHI 2000	OSD	DEF COMM AGENCY	7	WASHINGTON	L	P	572
	PHI 2000	PHI 2000	AF	SYSTEMS COMM	52	BEDFORD MASS	L	APSC	293
PHI 2000	PHI 2000	PHI 2000	ARMY	SIGNAL	121	WHITE SANDS NM	L	PS	500
PHI 2000	PHI 2000	PHI 2000	NAVY	SUP AND ACCTS	28	OAKLAND	L	AP	512
	RCA 301	RCA 301	OSD	DEF SUP AGENCY	16	PHILADELPHIA	L	A	276
	RCA 301	RCA 301	OSD	DEF SUP AGENCY	16	PHILADELPHIA	L	A	276
		RCA 301	AF	TRAINING COMM	54	SACRAMENTO	L	A	176
		RCA 301	AF	TRAINING COMM	55	BIG SPRING TEX	L	A	176
		RCA 301	AF	TRAINING COMM	56	WICHITA FALLS	L	A	176
		RCA 301	AF	TRAINING COMM	57	AMARILLO	L	A	176
	RCA 301	RCA 301	AF	MATS	71	ST LOUIS	L	A	165
	RCA 301	RCA 301	AF	MATS	76	SAN FRANCISCO	L	A	198
		RCA 301	AF	MATS	79	TRENTON	L	A	296
	RCA 301	RCA 301	ARMY	ENGINEERS	32	WASHINGTON	L	S	190
	RCA 301	RCA 301	ARMY	ENGINEERS	39	OMAHA	L	AS	200
		RCA 301	ARMY	SURG GEN	51	DENVER	L	S	200
	RCA 301	RCA 301	ARMY	ORDNANCE	72	DETROIT	L	A	362
	RCA 301	RCA 301	ARMY	ORDNANCE	72	DETROIT	L	A	362
		RCA 301	ARMY	US ARMY EUROPE	155	FRANCE	L	A	270
	RCA 301	RCA 301	NAVY	SHIPS	14	CHARLESTON SC	L	AS	178
	RCA 301	RCA 301	NAVY	PERSONNEL	47	WASHINGTON	L	S	102
	RCA 301	RCA 301	NAVY	WEAPONS	78	SAN DIEGO	L	A	200
	RCA 301		NAVY	WEAPONS	90	WASHINGTON	L	A	198
	RCA 301	RCA 301	HEW	SOCIAL SECURITY	2	BIRMINGHAM	L	P	160
	RCA 301	RCA 301	HEW	SOCIAL SECURITY	2	CHICAGO	L	P	170
	RCA 301	RCA 301	HEW	SOCIAL SECURITY	2	KANSAS CITY	L	P	150
	RCA 301	RCA 301	HEW	SOCIAL SECURITY	2	NEW YORK	L	P	160
	RCA 301	RCA 301	HEW	SOCIAL SECURITY	2	PHILADELPHIA	L	P	200
	RCA 301	RCA 301	HEW	SOCIAL SECURITY	2	SAN FRANCISCO	L	P	120
	RCA 301	RCA 301	HEW	GENERAL SERV	3	WASHINGTON	L	APS	115
	RCA 301	RCA 301	HEW	TRANSPORT ECON	1	WASHINGTON	L	AP	200
		RCA 301	ICC	GODDARD SFC	26	WASHINGTON	L	P	140
RCA 501	RCA 501	RCA 501	CIA	CIA	3	WASHINGTON	L	A	200
RCA 501	RCA 501	RCA 501	OSD	DEF SUP AGENCY	16	PHILADELPHIA	L	A	417
	RCA 501	RCA 501	OSD	DEF SUP AGENCY	16	PHILADELPHIA	L	A	364
		RCA 501	OSD	DEF SUP AGENCY	16	PHILADELPHIA	L	A	460
		RCA 501	AF	AERO CHART CEN	5	ST LOUIS	L	C	300
RCA 501	RCA 501	RCA 501	AF	ACCTG AND FIN	22	DENVER	L	AP	441
RCA 501	RCA 501	RCA 501	AF	AF COMM SERVICE	24	ST LOUIS	L	AP	375
RCA 501	RCA 501	RCA 501	AF	CONT AIR COMM	62	DENVER	L	AP	326
	RCA 501	RCA 501	AF	MATS	71	ST LOUIS	L	A	344
	RCA 501	RCA 501	ARMY	DCSLOG	11	PETERSBURG VA	L	AS	146
	RCA 501	RCA 501	ARMY	ORDNANCE	63	CHICAGO	L	S	200
RCA 501	RCA 501	RCA 501	ARMY	ORDNANCE	65	ROCK ISLAND	L	A	500
RCA 501	RCA 501	RCA 501	ARMY	ORDNANCE	70	BOSTON	L	AS	176
		RCA 501	ARMY	ORDNANCE	72	DETROIT	P	A	362
RCA 501	RCA 501	RCA 501	ARMY	ORDNANCE	72	DETROIT	L	A	362
	RCA 501	RCA 501	ARMY	ORDNANCE	134	NEW YORK	L	P	282
		RCA 501	ARMY	CONARC	137	BALTIMORE	L	P	170
		RCA 501	ARMY	CONARC	139	ATLANTA	L	P	170
		RCA 501	ARMY	CONARC	142	SAN ANTONIO	L	P	300
	RCA 501	RCA 501	ARMY	CONARC	149	CHICAGO	L	P	200
		RCA 501	ARMY	CONARC	150	SAN FRANCISCO	L	P	168
		RCA 501	ARMY	CONARC	14	CHARLESTON SC	L	AS	176
	RCA 501	RCA 501	NAVY	SHIPS	66	WASHINGTON	L	S	200
RCA 501	RCA 501	RCA 501	NAVY	WEAPONS	78	SAN DIEGO	L	A	200
	RCA 501								

Table 4 - Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
RCA 501	RCA 501		NAVY	WEAPONS	90	WASHINGTON	L	A	425
RCA 501			GSA	REGION 3	3	WASHINGTON	L	AP	312
RCA 501	RCA 501	RCA 501	HEW	SOCIAL SECURITY	2	BIRMINGHAM	L	P	150
RCA 501	RCA 501	RCA 501	HEW	SOCIAL SECURITY	2	CHICAGO	L	P	140
RCA 501	RCA 501	RCA 501	HEW	SOCIAL SECURITY	2	KANSAS CITY	L	P	160
					2	PHILADELPHIA	L	P	290
RCA 811	RCA 811		ARMY	ORDNANCE	72	DETROIT	P	A	362
	REM 490	REM 490	NAVY	WEAPONS	59	CHINA LAKE CAL	L	S	176
REM 1103	REM 1103	REM 1103	AF	SYSTEMS COMM	45	ALAMOGORDO NM	P	PS	375
REM 1103	REM 1103	REM 1103	AF	SYSTEMS COMM	45	ALAMOGORDO NM	P	PS	325
REM 1103	REM 1103	REM 1103	AF	SYSTEMS COMM	48	ROME NY	P	S	210
REM 1103			AF	SYSTEMS COMM	50	FT WALTON FLA	P	S	176
REM 1103	REM 1103	REM 1103	ARMY	ORDNANCE	80	WHITE SANDS NM	L	S	304
REM 1103	REM 1103	REM 1103	ARMY	ORDNANCE	99	SNOWVILLE VA	L	P	176
REM 1103	REM 1103	REM 1103	NASA	LEWIS RES CN	9	CLEVELAND	P	S	302
			OEP	NAT RES EVAL C	1	NAT RES EVAL C	P	SC	600
REM 1105	REM 1105	REM 1105	COMM	CENSUS					
REM 1105	REM 1105	REM 1105	COMM	CENSUS	1	WASHINGTON	P	P	550
REM 1105	REM 1105	REM 1105	AF	LOGISTICS COMM	1	WASHINGTON	P	P	550
REM 1105			AF	LOGISTICS COMM	27	SACRAMENTO	L	AP	500
REM 1105	REM 1105	REM 1105	AF	LOGISTICS COMM	31	MACON GA	L	P	290
			AF	LOGISTICS COMM	35	DAYTON OHIO	L	P	520
					37	UTICA NY	L	P	320
	REM 1107		COMM	CENSUS	1	WASHINGTON	P	P	550
REM LARC	REM LARC	REM LARC	AEC	SAN FRAN OO	29	SAN FRANCISCO	P	S	650
REM LARC	REM LARC	REM LARC	NAVY	SHIPS	22	WASHINGTON	P	S	320
	REM STEP	REM STEP	AF	LOGISTICS COMM	27	SACRAMENTO	L	P	450
	REM STEP	REM STEP	AF	LOGISTICS COMM	31	MACON GA	L	P	400
	REM STEP		AF	LOGISTICS COMM	35	DAYTON OHIO	L	P	500
	REM STEP	REM STEP	AF	LOGISTICS COMM	37	UTICA NY	L	P	400
		REM SS80	AEC	ALBUQUERQUE OO	58	BURLINGTON IA	L	AP	200
	REM SS80	REM SS80	AF	LOGISTICS COMM	27	SACRAMENTO	L	P	450
	REM SS80	REM SS80	AF	LOGISTICS COMM	27	SACRAMENTO	L	P	450
REM SS80	REM SS80	REM SS80	AF	LOGISTICS COMM	31	MACON GA	L	P	490
	REM SS80		AF	HQS COMMAND	31	MACON GA	L	P	400
REM SS80		REM SS80	ARMY	ORDNANCE	64	WASHINGTON	L	A	262
REM SS80	REM SS80		ARMY	ORDNANCE	79	ALBANY NY	L	S	170
REM SS80	REM SS80	REM SS80	NAVY	CH NAV OPNS	80	WHITE SANDS NM	L	S	274
REM SS80	REM SS80	REM SS80	NAVY	SUP AND ACCTS	6	WASHINGTON	L	A	214
REM SS80	REM SS80	REM SS80	NAVY	SUP AND ACCTS	34	CHICAGO	L	P	527
	REM SS80	REM SS80	NAVY	MARINE CORPS	37	WASHINGTON	L	AP	258
				WEAPONS	38	PHILADELPHIA	L	P	479
					60	SAN BERNARDINO	L	AS	147
	REM SS90	REM SS90	AEC	BROOKHAVEN O					
REM SS90	REM SS90		AEC	ALBUQUERQUE OO	6	NEW YORK	L	A	176
	REM SS90	REM SS90	AF	SYSTEMS COMM	58	BURLINGTON IA	L	AP	200
	REM SS90	REM SS90	AF	SYSTEMS COMM	40	WASHINGTON	L	A	329
REM SS90	REM SS90	REM SS90	ARMY	CHEMICAL	40	WASHINGTON	L	A	433
REM SS90	REM SS90	REM SS90	ARMY	CHEMICAL	13	EDGEWOOD MD	L	S	176
REM SS90	REM SS90	REM SS90	ARMY	ORDNANCE	18	FREDERICK MD	P	AS	172
			SBA	SBA	90	PHILADELPHIA	L	S	160
					1	WASHINGTON	L	AP	176
REM UI	REM UI		COMM	CENSUS					
REM UI	REM UI	REM UI	COMM	CENSUS	1	WASHINGTON	L	P	500
REM UI	REM UI		AF	LOGISTICS COMM	1	WASHINGTON	P	P	500
REM UI	REM UI		AF	AIR UNIVERSITY	35	DAYTON OHIO	L	P	550
REM UI			ARMY	CHEMICAL	58	MONTGOMERY ALA	P	A	320
REM UI	REM UI	REM UI	ARMY	ENGINEERS	12	EDGEWOOD MD	L	A	225
	REM UI	REM UI	NAVY	SHIPS	26	WASHINGTON	P	S	505
	REM UI	REM UI	NAVY	SHIPS	22	WASHINGTON	P	AS	409
					22	WASHINGTON	P	S	80
	REM UII	REM UII	AGRI	STAB AND CONS					
REM UII		REM UII	AGRI	STAB AND CONS	6	KANSAS CITY	L	P	340
	REM UII		AGRI	STAB AND CONS	6	KANSAS CITY	L	P	340
REM UII	REM UII	REM UII	ARMY	CHEMICAL	7	KANSAS CITY	L	P	368
REM UII	REM UII	REM UII	NAVY	SHIPS	12	EDGEWOOD MD	L	A	225
	REM UII	REM UII	NAVY	SUP AND ACCTS	12	PHILADELPHIA	L	A	310
					34	CHICAGO	P	P	533
		REM UIII	FCC	ADMINISTRATION	1	WASHINGTON	P	PS	154
REM UFCO	REM UFCO		AF	LOGISTICS COMM	27	SACRAMENTO	L	P	410
REM UFCO			AF	LOGISTICS COMM	31	MACON GA	L	P	400
REM UFCO	REM UFCO	REM UFCO	AF	LOGISTICS COMM	37	UTICA NY	L	P	400

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
REM UFCO	REM UFCO	REM UFCO	ARMY	ORDNANCE	92	PHILADELPHIA	L	A	340
			OSD	DEF SUP AGENCY	20	WASHINGTON	L	AP	593
REM UFC1	REM UFC1		AF	HQS COMMAND	64	WASHINGTON	L	A	383
REM UFC1	REM UFC1		ARMY	CONARC	134	NEW YORK	L	A	339
REM UFC1	REM UFC1		ARMY	CONARC	136	BALTIMORE	L	A	245
REM UFC1	REM UFC1	REM UFC1	NAVY	SHIPS	16	SAN FRANCISCO	L	AS	589
REM UFC1	REM UFC1	REM UFC1	NAVY	MARINE CORPS	38	PHILADELPHIA	L	P	450
REM UFC1	REM UFC1	REM UFC1	NAVY	MARINE CORPS	43	ALBANY GA	L	P	429
REM UFC1	REM UFC1	REM UFC1	NAVY	MARINE CORPS	44	SAN BERNARDINO	L	P	384
REM UFC1	REM UFC1	REM UFC1	NAVY	AIR TRAFFIC SER	2	WASHINGTON	L	P	480
REM UFC1	REM UFC1		FAA	AIR TRAFFIC SER	3	BOSTON	L	P	510
REM UFC1	REM UFC1		FAA	AIR TRAFFIC SER	4	CLEVELAND	L	P	480
REM UFC1	REM UFC1		FAA	AIR TRAFFIC SER	6	NEW YORK	L	P	480
REM UFC1	REM UFC1		FAA	AIR TRAFFIC SER	7	PITTSBURGH	L	P	480
REM UFC1	REM UFC1		FAA	AIR TRAFFIC SER	9	ATLANTIC CITY	L	S	176
REM UFC1	REM UFC1	REM UFC1	FAA	RES AND DEVELOP					
		REM UFC2	FAA	AIR TRAFFIC SER	2	WASHINGTON	L	P	480
		REM UFC2	FAA	AIR TRAFFIC SER	3	BOSTON	L	P	510
		REM UFC2	FAA	AIR TRAFFIC SER	4	CLEVELAND	L	P	480
		REM UFC2	FAA	AIR TRAFFIC SER	5	INDIANAPOLIS	L	P	480
		ROY 4000	AEC	OAK RIDGE OO	19	CINCINNATI	L	A	110
			COMM	NAT BUR STAND	11	WASHINGTON	L	PS	25
ROY 4000		ROY 4000	AF	SYSTEMS COMM	45	ALAMOGORDO NM	L	S	161
	ROY 4000	ROY 4000	AF	MATS	83	ORLANDO FLA	L	S	142
ROY 4000	ROY 4000	ROY 4000	ARMY	CHEMICAL	15	EDGEWOOD MD	L	PS	176
	ROY 4000	ROY 4000	ARMY	SURG GEN	48	WASHINGTON	L	S	140
ROY 4000	ROY 4000	ROY 4000	ARMY	ORDNANCE	53	HUNTSVILLE ALA	L	S	132
	ROY 4000	ROY 4000	ARMY	ORDNANCE	53	HUNTSVILLE ALA	L	S	132
	ROY 4000	ROY 4000	ARMY	ORDNANCE	53	HUNTSVILLE ALA	L	S	132
	ROY 4000	ROY 4000	NAVY	SHIPS	18	BREMERTON WASH	L	S	102
	ROY 4000	ROY 4000	INT	GEOLOGICAL SURV	4	SAN FRANCISCO	L	S	80
			NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY 4000			NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
	ROY 4000	ROY 4000	NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY 4000	ROY 4000	ROY 4000	NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
	ROY 4000								
ROY LG30	ROY LG30	ROY LG30	AEC	BROOKHAVEN O	4	NEW YORK	P	S	352
ROY LG30	ROY LG30	ROY LG30	AEC	BROOKHAVEN O	4	NEW YORK	L	S	176
ROY LG30	ROY LG30	ROY LG30	AEC	BROOKHAVEN O	5	NEW YORK	P	S	176
ROY LG30	ROY LG30		AEC	OAK RIDGE OO	19	CINCINNATI	L	A	320
ROY LG30	ROY LG30	ROY LG30	AEC	CHICAGO OO	34	CHICAGO	P	S	164
ROY LG30	ROY LG30	ROY LG30	AEC	ALBUQUERQUE OO	46	ALBUQUERQUE	P	S	150
ROY LG30	ROY LG30	ROY LG30	AEC	ALBUQUERQUE OO	51	ALBUQUERQUE	P	S	100
ROY LG30	ROY LG30	ROY LG30	AFC	CARRIER ACCOUNT	1	WASHINGTON	L	P	140
ROY LG30			CAB	DASA	3	WASHINGTON	L	S	100
ROY LG30			OSD	DASA	4	HAGERSTOWN	L	C	5
ROY LG30			OSD	DASA	4	HAGERSTOWN	L	C	5
ROY LG30	ROY LG30		OSD	LOGISTICS COMM	25	DAYTON OHIO	L	A	120
ROY LG30	ROY LG30		AF	SYSTEMS COMM	50	FT WALTON FLA	L	S	176
ROY LG30			AF	HQS USAF	66	WASHINGTON	L	P	143
ROY LG30	ROY LG30		AF	HQS USAF	69	SACRAMENTO	P	C	156
ROY LG30	ROY LG30	ROY LG30	AF	HQS USAF	14	EDGEWOOD MD	L	PS	190
ROY LG30	ROY LG30		AF	CHEMICAL	35	DETROIT	L	S	168
ROY LG30	ROY LG30	ROY LG30	ARMY	ENGINEERS	48	WASHINGTON	L	S	120
ROY LG30	ROY LG30	ROY LG30	ARMY	SURG GEN	53	HUNTSVILLE ALA	L	S	132
ROY LG30			ARMY	ORDNANCE	55	HUNTSVILLE ALA	L	P	185
ROY LG30	ROY LG30	ROY LG30	ARMY	ORDNANCE	64	ROCK ISLAND	P	A	100
ROY LG30			ARMY	ORDNANCE	70	BOSTON	L	S	176
ROY LG30	ROY LG30	ROY LG30	ARMY	ORDNANCE	89	PHILADELPHIA	L	S	160
ROY LG30			ARMY	ORDNANCE	112	RED BANK N J	P	A	
ROY LG30	ROY LG30	ROY LG30	ARMY	SIGNAL	112	RED BANK N J	P	A	
ROY LG30	ROY LG30	ROY LG30	ARMY	SIGNAL			L	S	160
			NAVY	CH NAV OPNS	5	WASHINGTON	L	S	144
ROY LG30	ROY LG30	ROY LG30	NAVY	SHIPS	8	WASHINGTON	L	S	308
ROY LG30			NAVY	PERSONNEL	47	WASHINGTON	L	S	80
ROY LG30			NAVY	WEAPONS	59	CHINA LAKE CAL	L	S	90
ROY LG30			NAVY	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY LG30	ROY LG30	ROY LG30	NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY LG30	ROY LG30	ROY LG30	NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY LG30			NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY LG30			NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY LG30			NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY LG30	ROY LG30	ROY LG30	NASA	MARSHL SP FL CN	21	HUNTSVILLE ALA	L	S	90
ROY LG30			NASA	GODDARD SFC	25	WASHINGTON	P	S	40
ROY LG30	ROY LG30	ROY LG30	NASA	GODDARD SFC	25	WASHINGTON	L	S	40
ROY LG30	ROY LG30	ROY LG30	NASA	GODDARD SFC	2	KNOXVILLE	L	S	170
ROY LG30	ROY LG30	ROY LG30	TVA	TVA					
	SYL 9400	SYL 9400	ARMY	ACSI	8	WASHINGTON	L	P	192
ANALOG	ANALOG	ANALOG	COMM	NAT BUR STAND	10	WASHINGTON	P	S	20
		BAS PAC	ARMY	SIGNAL	112	RED BANK N J	P	X	264
	BRLESC	BRLESC	ARMY	ORDNANCE	66	ABERDEEN MD	P	AS	200
	CXPQ	CXPQ	NAVY	SHIPS	8	WASHINGTON	P	S	50
CXPQ			NAVY	SHIPS	22	WASHINGTON	P	S	

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
EDVAC	EDVAC	EDVAC	ARMY	ORDNANCE	66	ABERDEEN MD	P	S	500
GEORGE	GEORGE	GEORGE	AEC	CHICAGO OO	36	CHICAGO	P	S	315
		INFORMER	ARMY	SIGNAL	112	RED BANK N J	P	X	176
		LINC	HEW	PUBLIC HEALTH	8	WASHINGTON	P	S	170
MANIAC	MANIAC	MANIAC	AEC	ALBUQUERQUE OO	70	LOS ALAMOS NM	P	S	350
MERLIN	MERLIN	MERLIN	AEC	BROOKHAVEN O	3	NEW YORK	P	S	176
		MNEMO	HEW	PUBLIC HEALTH	7	WASHINGTON	L	S	170
		MNEMO	NASA	AMES RES CN	3	MOUNTAIN V CAL	P	X	30
MOBIDIC	MOBIDIC	MOBIDIC	ARMY	US ARMY EUROPE	153	FRANCE	P	A	200
		MOBIDIC	ARMY	US ARMY EUROPE	156	GERMANY	P	A	459
NAREC	NAREC	NAREC	NAVY	NAVAL RESEARCH	55	WASHINGTON	P	S	292
NORC	NORC	NORC	NAVY	WEAPONS	64	DAHLGREN VA	P	S	578
ORACLE	ORACLE		AEC	OAK RIDGE OO	22	KNOXVILLE	P	S	352
ORDVAC	ORDVAC	ORDVAC	ARMY	ORDNANCE	66	ABERDEEN MD	P	S	500
PILOT	PILOT	PILOT	COMM	NAT BUR STAND	10	WASHINGTON	P	P	
READIX	READIX	READIX	AF	SYSTEMS COMM	46	LOS ANGELES	P	S	176
SEAC	SEAC	SEAC	COMM	NAT BUR STAND	10	WASHINGTON	P	P	60
		NOT DET	AEC	HEADQUARTERS	1	GERMANTOWN MD	P	A	130
		NOT DET	AEC	CHICAGO OO	34	CHICAGO	P	S	200
		NOT DET	AEC	CHICAGO OO	34	CHICAGO	P	S	173
		NOT DET	COMM	PATENT OFFICE	5	WASHINGTON	L	X	170
		NOT DET	COMM	PATENT OFFICE	6	WASHINGTON	L	A	170
		NOT DET	OSD	OASD ISA	2	WASHINGTON	L	A	170
		NOT DET	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	200
		NOT DET	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	550
		NOT DET	OSD	DEF SUP AGENCY	12	DAYTON OHIO	L	A	353
		NOT DET	OSD	DEF SUP AGENCY	13	COLUMBUS OHIO	L	A	353
		NOT DET	OSD	DEF SUP AGENCY	19	CHICAGO	L	A	120
		NOT DET	AF	ALASKAN AIR COM	2	ANCHORAGE ALAS	L	A	120
		NOT DET	AF	AERO CHART CEN	4	ST LOUIS	L	P	77
		NOT DET	AF	AERO CHART CEN	6	ST LOUIS	L	APS	264
		NOT DET	AF	ACCTG AND FIN	22	DENVER	L	C	176
		NOT DET	AF	LOGISTICS COMM	25	DAYTON OHIO	L	AP	176
		NOT DET	AF	LOGISTICS COMM	25	DAYTON OHIO	L	AP	450
		NOT DET	AF	LOGISTICS COMM	25	DAYTON OHIO	L	P	450
		NOT DET	AF	LOGISTICS COMM	25	DAYTON OHIO	L	P	450
		NOT DET	AF	LOGISTICS COMM	27	SACRAMENTO	L	AP	360
		NOT DET	AF	LOGISTICS COMM	28	OGDEN UTAH	L	AP	350
		NOT DET	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	AP	400
		NOT DET	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	400
		NOT DET	AF	LOGISTICS COMM	29	OKLAHOMA CITY	L	P	400
		NOT DET	AF	LOGISTICS COMM	30	HARRISBURG	L	AP	400
		NOT DET	AF	LOGISTICS COMM	30	NEWARK OHIO	L	P	176
		NOT DET	AF	LOGISTICS COMM	31	MACON GA	L	AP	400
		NOT DET	AF	LOGISTICS COMM	32	MOBILE ALA	L	AP	400
		NOT DET	AF	LOGISTICS COMM	33	SAN ANTONIO	L	AP	400
		NOT DET	AF	LOGISTICS COMM	34	SAN BERNARDINO	L	AP	400
		NOT DET	AF	LOGISTICS COMM	36	MEMPHIS	L	AP	400
		NOT DET	AF	LOGISTICS COMM	37	UTICA NY	L	AP	400
		NOT DET	AF	SYSTEMS COMM	42	DAYTON OHIO	L	S	150
		NOT DET	AF	SYSTEMS COMM	42	DAYTON OHIO	L	S	330
		NOT DET	AF	SYSTEMS COMM	42	DAYTON OHIO	L	AS	352
		NOT DET	AF	SYSTEMS COMM	42	DAYTON OHIO	L	AS	352
		NOT DET	AF	SYSTEMS COMM	46	BAKERSFIELD	L	S	176
		NOT DET	AF	SYSTEMS COMM	46	BAKERSFIELD	L	AS	352
		NOT DET	AF	SYSTEMS COMM	46	BAKERSFIELD	L	AS	352
		NOT DET	AF	SYSTEMS COMM	47	BAKERSFIELD	L	AS	280
		NOT DET	AF	SYSTEMS COMM	49	COCOA BEACH	L	P	400
		NOT DET	AF	SYSTEMS COMM	49	COCOA BEACH	L	P	250
		NOT DET	AF	SYSTEMS COMM	49	COCOA BEACH	L	P	230
		NOT DET	AF	SYSTEMS COMM	49	COCOA BEACH	L	P	250
									220

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
		NOT DET	AF	SYSTEMS COMM	50	FT WALTON FLA	L	S	176
		NOT DET	AF	SYSTEMS COMM	51	ALBUQUERQUE	L	S	370
		NOT DET	AF	SYSTEMS COMM	51	ALBUQUERQUE	L	A	240
		NOT DET	AF	SYSTEMS COMM	52	BEDFORD MASS	L	A	220
		NOT DET	AF	AIR UNIVERSITY	58	MONTGOMERY ALA	P	A	178
		NOT DET	AF	AIR UNIVERSITY	59	MONTGOMERY ALA	L	A	176
		NOT DET	AF	CONT AIR COMM	63	WARNER ROBINS	L	A	136
		NOT DET	AF	HQS COMMAND	64	WASHINGTON	L	A	250
		NOT DET	AF	HQS COMMAND	64	WASHINGTON	L	A	250
		NOT DET	AF	HQS USAF	65	WASHINGTON	L	A	670
		NOT DET	AF	AEROSPACE RES	85	BEDFORD MASS	L	S	176
		NOT DET	AF	PACIFIC FORCES	88	HONOLULU	L	P	176
		NOT DET	AF	PACIFIC FORCES	92	JAPAN	L	AP	325
		NOT DET	AF	STRATEGIC AIR C	99	OMAHA	L	A	176
		NOT DET	AF	STRATEGIC AIR C	103	HAWAII	L	P	100
		NOT DET	AF	STRATEGIC AIR C	104	ENGLAND	L	P	176
		NOT DET	AF	STRATEGIC AIR C	105	SHREVEPORT	L	A	176
		NOT DET	AF	STRATEGIC AIR C	105	SHREVEPORT	L	A	176
		NOT DET	AF	STRATEGIC AIR C	106	COLUMBUS OHIO	L	A	176
		NOT DET	AF	STRATEGIC AIR C	113	MIAMI	L	A	176
		NOT DET	AF	STRATEGIC AIR C	115	BLYTHEVILLE AR	L	A	150
		NOT DET	AF	STRATEGIC AIR C	116	AUSTIN TEXAS	L	A	160
		NOT DET	AF	STRATEGIC AIR C	117	ALBANY GA	L	A	176
		NOT DET	AF	STRATEGIC AIR C	118	OSCODA MICH	L	A	176
		NOT DET	AF	STRATEGIC AIR C	119	CHICOPEE MASS	L	A	176
		NOT DET	AF	STRATEGIC AIR C	119	CHICOPEE MASS	L	A	176
		NOT DET	AF	STRATEGIC AIR C	120	FORT WORTH	L	A	176
		NOT DET	AF	STRATEGIC AIR C	123	LIMESTONE ME	L	A	176
		NOT DET	AF	STRATEGIC AIR C	124	EL PASO	L	A	176
		NOT DET	AF	STRATEGIC AIR C	125	ALTUS OKLA	L	A	176
		NOT DET	AF	STRATEGIC AIR C	126	BANGOR MAINE	L	A	176
		NOT DET	AF	STRATEGIC AIR C	130	PERU IND	L	A	176
		NOT DET	AF	STRATEGIC AIR C	132	RIVERSIDE CAL	L	A	176
		NOT DET	AF	STRATEGIC AIR C	132	RIVERSIDE CAL	L	A	176
		NOT DET	AF	STRATEGIC AIR C	133	MERCED CAL	L	A	176
		NOT DET	AF	STRATEGIC AIR C	134	SPOKANE	L	A	176
		NOT DET	AF	STRATEGIC AIR C	135	TUCSON	L	A	176
		NOT DET	AF	STRATEGIC AIR C	136	TOPEKA KAN	L	A	176
		NOT DET	AF	STRATEGIC AIR C	140	LINCOLN NEBR	L	A	176
		NOT DET	AF	STRATEGIC AIR C	144	CHEYENNE	L	A	176
		NOT DET	AF	STRATEGIC AIR C	146	MARYSVILLE CAL	L	A	176
		NOT DET	AF	STRATEGIC AIR C	149	SPAIN	L	A	176
		NOT DET	AF	STRATEGIC AIR C	150	SPAIN	L	A	176
		NOT DET	AF	STRATEGIC AIR C	151	WICHITA KAN	L	A	176
		NOT DET	AF	TACTICAL AIR C	154	GOLDSBORO NC	L	A	398
		NOT DET	AF	TACTICAL AIR C	158	SAN BERNARDINO	L	A	330
		NOT DET	AF	TACTICAL AIR C	160	LAS VEGAS	L	A	318
		NOT DET	AF	SECURITY SERV	167	SAN ANTONIO	L	A	176
		NOT DET	AF	SECURITY SERV	169	SAN ANTONIO	L	P	200
		NOT DET	ARMY	FINANCE	1	INDIANAPOLIS	L	AP	176
		NOT DET	ARMY	FINANCE SCHOOL	4	INDIANAPOLIS	L	AS	150
		NOT DET	ARMY	MILITARY ACADMY	6	WEST POINT	L	A	80
		NOT DET	ARMY	CHEMICAL	17	DUGWAY UTAH	L	APS	240
		NOT DET	ARMY	ENGINEERS	19	WASHINGTON	L	S	176
		NOT DET	ARMY	ENGINEERS	21	VICKSBURG MISS	L	S	110
		NOT DET	ARMY	ENGINEERS	22	SEATTLE	L	AS	150
		NOT DET	ARMY	ENGINEERS	24	WALLA WALLA	L	S	176
		NOT DET	ARMY	ENGINEERS	36	WASHINGTON	L	A	150
		NOT DET	ARMY	ENGINEERS	44	WASHINGTON	L	A	125
		NOT DET	ARMY	ENGINEERS	46	TULSA	L	S	100
		NOT DET	ARMY	SURG GEN	50	WASHINGTON	L	AP	168
		NOT DET	ARMY	ORDNANCE	52	ANNISTON ALA	L	A	176
		NOT DET	ARMY	ORDNANCE	61	PUEBLO COL	L	A	176
		NOT DET	ARMY	ORDNANCE	65	ROCK ISLAND	L	A	350
		NOT DET	ARMY	ORDNANCE	66	ABERDEEN MD	L	S	200
		NOT DET	ARMY	ORDNANCE	88	PORT CLINTON O	L	A	176
		NOT DET	ARMY	ORDNANCE	94	CHAMBERSBURG	L	A	176
		NOT DET	ARMY	ORDNANCE	95	CHAMBERSBURG	L	A	176
		NOT DET	ARMY	ORDNANCE	96	TEXARKANA TEX	L	A	176
		NOT DET	ARMY	QMG	101	FORT WORTH	L	A	176
		NOT DET	ARMY	QMG	103	MEMPHIS	L	A	176
		NOT DET	ARMY	QMG	104	HARRISBURG	L	A	176
		NOT DET	ARMY	QMG	107	SCHENECTADY	L	A	176
		NOT DET	ARMY	QMG	108	STOCKTON CAL	L	A	176
		NOT DET	ARMY	SIGNAL	110	RED BANK N J	L	S	176
		NOT DET	ARMY	SIGNAL	111	PHILADELPHIA	L	A	350
		NOT DET	ARMY	SIGNAL	112	RED BANK N J	L	X	176
		NOT DET	ARMY	SIGNAL	116	HAGERSTOWN	L	P	176
		NOT DET	ARMY	SIGNAL	116	HAGERSTOWN	L	P	176
		NOT DET	ARMY	SIGNAL	120	FT HUACHUCA AR	L	PS	279
		NOT DET	ARMY	TRANSPORTATION	129	NEWPT NEWS VA	L	A	129
		NOT DET	ARMY	DCSPERS	131	WASHINGTON	L	P	176
		NOT DET	ARMY	DCSPERS	132	INDIANAPOLIS	L	AP	142
		NOT DET	ARMY	CONARC	135	NEW YORK	P	AP	84
		NOT DET	ARMY	CONARC	138	LOUISVILLE	L	A	152
		NOT DET	ARMY	CONARC	140	COLUMBUS GA	L	A	176
		NOT DET	ARMY	CONARC	141	FAYETTEVILLE	L	A	176
		NOT DET	ARMY	CONARC	143	EL PASO	L	A	120
		NOT DET	ARMY	CONARC	146	LAWTON OKLA	L	AP	176
		NOT DET	ARMY	CONARC	148	LEAVENWORTH	L	A	176
		NOT DET	NAVY	CH NAV OPNS	6	WASHINGTON	L	A	176
		NOT DET	NAVY	CH NAV OPNS	7	WASHINGTON	L	S	176
		NOT DET	NAVY	SHIPS	10	BOSTON	L	S	176
		NOT DET	NAVY	SHIPS	15	LONG BEACH CAL	L	A	176
		NOT DET	NAVY	SHIPS	16	SAN FRANCISCO	L	AS	176
		NOT DET	NAVY	SHIPS	17	SAN FRANCISCO	L	A	176
		NOT DET	NAVY	SHIPS	58	CHERRY POINT	L	A	176
		NOT DET	NAVY	WEAPONS	68	JACKSONVILLE	L	A	176
		NOT DET	NAVY	WEAPONS	76	NORFOLK	L	A	176
		NOT DET	NAVY	WEAPONS	81	PENSACOLA	L	A	176
		NOT DET	NAVY	WEAPONS	86	QUONSET PT RI	L	A	176
		NOT DET	NAVY	WEAPONS	90	WASHINGTON	L	A	315
		NOT DET	NAVY	WEAPONS	1	OKLAHOMA CITY	L	APS	151
		NOT DET	FAA	CONTROL SYS DIV	6	NEW YORK	L	P	480
		NOT DET	FAA	AIR TRAFFIC SER	8	ATLANTIC CITY	L	S	352
		NOT DET	FAA	RES AND DEVELOP	8	ATLANTIC CITY	L	S	352
		NOT DET	FAA	RES AND DEVELOP					

Table 4 – Continued

COMPUTERS IN PLACE END OF FISCAL YEAR			DEPARTMENT	BUREAU, OFFICE COMMAND	UNIT NO.	LOCATION	PURCHASE (P) LEASE (L)	USE CODE	HOURS USED PER MONTH
1961 ACT	1962 EST	1963 EST							
		NOT DET	FPC	ADMINISTRATION	1	WASHINGTON	L	APS	176
		NOT DET	NASA	LANGLEY RES CN	6	NEWPT NEWS VA	L	S	190
		NOT DET	NASA	WALLOPS STATION	22	WALLOPS IS VA	L	AS	167
		NOT DET	NASA	GODDARD SFC	23	WASHINGTON	L	A	120
		NOT DET	NASA	GODDARD SFC	25	WASHINGTON	L	S	140
		NOT DET	NASA	GODDARD SFC	26	WASHINGTON	L	S	140
		NOT DET	NASA	GODDARD SFC	26	WASHINGTON	L	S	140
		NOT DET	NASA	GODDARD SFC	26	WASHINGTON	L	PS	140
		NOT DET	NASA	GODDARD SFC	26	WASHINGTON	P	P	140
		NOT DET	NASA	GODDARD SFC	26	WASHINGTON	L	S	100
		NOT DET	TREAS	COAST GUARD	6	WASHINGTON	L	A	200
		NOT DET (1)	VA	MED SURGERY	7	CHICAGO	P	S	

APPENDIX A

EXPLANATION OF TERMS

Table I

1. ADP Unit with Computers: An ADP organizational unit using an equipment configuration which includes one or more electronic digital computers. In these cases the peripheral equipment and supporting punched-card equipment are included in the unit.

2. ADP Unit with Punched-Card Equipment Only: An ADP organizational unit using an equipment configuration which does not include an electronic digital computer but consists of punched-card equipment only.

3. Number of Computers: The number of computers (central processors) installed at the end of the fiscal year.

4. Man-Years: Represents the full-time equivalent of personnel who, as their principal occupation, are involved in the data processing function, such as the ADP unit supervisor, equipment operators, system analysts, programmers, maintenance engineers, and clerks. Excluded are headquarters or staff ADP personnel who are not directly associated with a specific ADP unit.

5. Operating Costs of an ADP Unit: Costs include salaries of civilian and military personnel identified in 4 above; equipment rentals; ADP services acquired from other Government ADP units or commercial sources which supplement the work of the reporting ADP unit; and other related costs such as maintenance of owned equipment and supplies.

6. Capital Costs of an ADP Unit: Costs include ADP equipment that is purchased and site preparation.

7. ADP Contractual Services Costs: The costs of ADP services (such as machine time, programming, and key-punching), which are acquired from governmental or commercial sources by organizational components that do not have ADP units, and which are therefore not included in the operating costs of an ADP unit.

Tables II, III, and IV

1. Bureau, Office, or Command: The principal organizational component which has responsibility for the ADP unit in a department or agency.

2. Location: The Standard Metropolitan Statistical Area (as defined and published by the Bureau of the Budget) in which the computer is located. If located outside such areas, the city and state are shown; locations outside of the United States are shown by country only.

3. Use Code: The principal area of computer application as identified by the following letters:

A: administrative-service-type applications, such as payroll and personnel accounting.

P: program-type applications, such as military supply management, and social security claims administration.

S: scientific and engineering-type applications.

C: classified applications.

X: other applications.

4. Hours Used Per Month: Operating time, including rerun and program testing time, but excluding scheduled or unscheduled maintenance time and idle time.

NOTE: The information under the columns headed "Purchase or Lease," "Use Code," and "Hours Used Per Month" reflects the status as of June 30, 1962, except for those computers shown only in the fiscal year 1961 or fiscal year 1963 columns in which case the information is as of the date of removal or June 30, 1963, respectively.

APPENDIX B

IDENTIFICATION OF DEPARTMENT CODES

CODE	IDENTIFICATION
AEC	Atomic Energy Commission
AGRI	Department of Agriculture
AID	Agency for International Development
BOB	Bureau of the Budget
CAB	Civil Aeronautics Board
CIA	Central Intelligence Agency
COMM	Department of Commerce
CSC	Civil Service Commission
CZGOV	Canal Zone Government
DCGOV	District of Columbia Government
DEF	Department of Defense
OSD	Office of the Secretary of Defense
AF	Department of the Air Force
ARMY	Department of the Army
NAVY	Department of the Navy
EXIMB	Export-Import Bank of Washington
FAA	Federal Aviation Agency
FCC	Federal Communications Commission
FDIC	Federal Deposit Insurance Corporation
FHLBB	Federal Home Loan Bank Board
FPC	Federal Power Commission
FRS	Federal Reserve System
FTC	Federal Trade Commission
GSA	General Services Administration
HEW	Department of Health, Education, and Welfare
HHFA	Housing and Home Finance Agency
INT	Department of Interior
ICC	Interstate Commerce Commission
JUST	Department of Justice
LABOR	Department of Labor
NASA	National Aeronautics and Space Administration
NLRB	National Labor Relations Board
NSF	National Science Foundation
OEP	Office of Emergency Planning
PEACE	Peace Corps
PO	Post Office Department
RRB	Railroad Retirement Board
SBA	Small Business Administration
SEC	Securities and Exchange Commission
STATE	Department of State
TREAS	Department of the Treasury
TVA	Tennessee Valley Authority
USIA	U. S. Information Agency
VA	Veterans Administration

APPENDIX C

IDENTIFICATION OF COMPUTER CODES

MAKE AND MODEL	CODE
ADVANCED SCIENTIFIC INSTRUMENTS	
210	ASI 210
BENDIX CORPORATION (BENDIX COMPUTER DIVISION)	
G-20	BEN G20
G-15	BEN G15
BURROUGHS CORPORATION	
220	BUR 220
205	BUR 205
204	BUR 204
E-101	BUR E101
E-102	BUR E102
CONTROL DATA CORPORATION	
1604	CDC 1604
160-A	CDC 160A
160	CDC 160
DIGITAL EQUIPMENT CORPORATION	
PDP-1	DEC PDP1
EL-TRONICS INCORPORATED (ALWAC COMPUTER DIVISION)	
ALWAC III-E	ELT ALW3
ALW-2	ELT ALW2
GENERAL ELECTRIC CORPORATION	
225	GEL 225
GENERAL MILLS	
AD/ECS	GEN ECS
GENERAL PRECISION INCORPORATED (LIBRASCOPE DIVISION)	
LIBRATROL 500	LIB L500
LIBRASCOPE AIR TRAFFIC CONTROL	LIB ATC
MINNEAPOLIS-HONEYWELL REGULATOR COMPANY	
H-800	HON 800
H-400	HON 400
1000	HON 1000
IBM CORPORATION	
7000 SERIES	IBM 7---
700 SERIES	IBM 7--
650	IBM 650
305	IBM 305
1620	IBM 1620
1401	IBM 1401
1410	IBM 1410
MONROE CALCULATING MACHINE COMPANY	
XI	MON XI
NATIONAL CASH REGISTER COMPANY	
304	NCR 304
315	NCR 315
390	NCR 390
102	NCR 102
NORTH AMERICAN AVIATION, INCORPORATED (AUTONETICS DIVISION)	
RECOMP II	NAA REC2
RECOMP III	NAA REC3
PACKARD BELL	
PB 250	PAB 250
PHILCO CORPORATION	
2000	PHI 2000
RADIO CORPORATION OF AMERICA	
501	RCA 501
301	RCA 301
BIZMAC	RCA BIZ
SPERRY RAND CORPORATION (REMINGTON RAND DIVISION)	
LARC	REM LARC
1100 SERIES	REM 110-
UNIVAC I	REM UI
UNIVAC II	REM UII
UNIVAC III	REM UIII
SS 80/90	REM SS--
FILE COMPUTER 0/1/2	REM UFC-
490	REM 490
ROYAL MCBEE CORPORATION	
RPC 4000	ROY 4000
LGP 30	ROY LG30
SYLVANIA ELECTRIC PRODUCTS INCORPORATED	
S-9400	SYL 9400
UNDERWOOD CORPORATION	
ELECOM 120	UND 120
ELECOM 125	UND 125
NOT DETERMINED	NOT DET

APPENDIX III

AGENCY REPORTS ON H.R. 5171

1. General Accounting Office

COMPTROLLER GENERAL OF THE UNITED STATES,
Washington, D.C., May 15, 1963.

Hon. WILLIAM L. DAWSON,
Chairman, Committee on Government Operations,
House of Representatives.

DEAR MR. CHAIRMAN: Reference is made to your letter of April 1, 1963, acknowledged April 2, and letter of May 3 from the chairman of your Government Activities Subcommittee, requesting our comments on H.R. 5171.

The bill would amend title I of the Federal Property and Administrative Services Act of 1949, as amended, 5 U.S.C. 630–630g–1 (supp. IV), by adding a new section 111 which would grant authority to the Administrator of General Services to coordinate and control the purchase, lease, maintenance, and use of electronic data-processing equipment by Federal agencies, and to operate or provide for the operation of such equipment by delegation of authority or otherwise.

In carrying out his responsibilities under this section, the Administrator is authorized to provide electronic data-processing equipment suitable for efficient and effective use by Federal agencies through purchase, lease, transfer of equipment from other Federal agencies or otherwise, and to provide for the maintenance and repair thereof by contract or otherwise. The Administrator is further authorized to transfer such equipment between Federal agencies, to require joint utilization thereof by two or more Federal agencies, and to establish equipment pools and data-processing centers for such joint use when necessary for its most efficient and effective utilization. The Administrator, in his discretion, may delegate authority to lease, purchase, maintain, or operate (1) general classes of equipment, (2) equipment of special design needed to fulfill some unique requirement or special purpose of a particular Federal agency, and (3) equipment necessary for national defense and security.

The bill would establish an electronic data-processing fund, without fiscal year limitation, which would be used to finance the administrative expenses and costs incident to the procurement and utilization of electronic data-processing equipment. This revolving fund would be financed primarily from advances and reimbursements from available appropriations and funds of any agency (including the General Services Administration), organization, or persons utilizing such equipment and services rendered to them at rates determined by the Administrator to approximate the costs thereof. The capital of the fund would consist of appropriations as may be required together with the value, as determined by the Administrator, of supplies and equipment transferred to the Administrator less any liabilities assumed on account thereof.

In our report to the Congress dated March 6, 1963 (B–115369), on the "Financial Advantages of Purchasing over Leasing of Electronic Data-Processing Equipment in the Federal Government," we pointed out that there is need in the Federal Government for an effective mechanism to coordinate and control the purchase, lease, maintenance, and utilization of EDP equipment. Accordingly, we recommended to the President of the United States that he establish such an office in his organization. We are of the opinion that overall policy guidance and direction of the Government's data-processing programs can be most effectively accomplished through the efforts of a small, highly placed central management office in the executive branch of the Government. However, we recognize that there are various ways in which central control can be exercised over the procurement and utilization of this type of equipment. H.R. 5171 provides such an alternate method. We are not opposed to the method set forth in H.R. 5171; however, we feel that the mechanism proposed in H.R. 5171 for carrying out the detailed operations of coordination and control needs to be subject to the policy guidance and overall direction of the office of the President.

With reference to the policies and procedures set forth in the bill we offer the following comments for consideration.

1. We suggest that the word "electronic" as used in the bill be deleted and the word "automatic" be substituted therefor in order to place a wider range of equipment within the scope of authority of the General Services Administration.

2. The provisions of H.R. 5171 limit control by the General Services Administration over in-house Government electronic data-processing equipment. We believe that, to the maixmum extent practicable, such equipment or systems required by contractors in the performance of negotiated contracts with the Federal agencies where the whole or a substantial part of the cost of such equipment or systems would become a part of Government contract prices should likewise be furnished by the Government with title or leasehold interest remaining in the Government subject substantially to the same laws and regulations applicable to in-house Government equipment.

3. The bill proposes to establish an electronic data-processing fund for carrying out the functions enumerated therein to be "available without fiscal year limitation." This method of financing, not requiring annual congressional authorization—as compared with budgetary and appropriation processes followed in financing activities through annual appropriations—would materially diminish congressional control over such activities and should not be permitted in the absence of justifiable need therefor. It is our opinion that an annual congressional review of operations under the fund and affirmative annual congressional authority in respect of the availability of the fund is necessary to place the activities of the General Services Administration in this area under complete congressional control. Consequently, we suggest that after the word "limitation" appearing on page 2, line 24, there be added "within such amounts as may be provided annually in appropriation acts."

4. We suggest that, after a date determined upon, existing appropriations and, unless specifically so provided, future appropriations of the agencies concerned, other than appropriations to the fund, shall not be available for the purchase, lease, or installation of automatic data-processing equipment of the types taken over by the Administrator.

5. It is our opinion that no executive agency should be exempted from the provisions of the bill except under extraordinary circumstances.

6. We note the terms "organization, or persons" appearing on page 3, line 14 of the bill. If by use of these terms it be intended to authorize the Administrator to make equipment available for, or otherwise supply services to, private organizations or persons, which would constitute an exception to section 3678, Revised Statutes, 31 United States Code 628, requiring the application of appropriations solely to the objects for which made and no other, in the absence of specific authority to the contrary, then adding the word "private" before the word "organization" would obviate any doubt in the matter.

7. In order to carry out the policy expressed in the bill with reference to the purchase, lease, maintenance, and utilization of electronic data-processing equipment, we suggest that the President be required to issue regulations to provide for adequate notice to affected agencies, and to assure each such agency independent review of the Administrator's determination in the event of disagreement with the Administrator concerning such determinations. Similarly, the Administrator of General Services should be authorized to prescribe regulations to effectuate his functions under the bill subject, of course, to the regulations issued by the President thereunder.

We believe the enactment of the bill would be in the interest of the Government and will result in considerably more economical procurement and utilization of electronic data-processing equipment. Therefore, and subject to the changes suggested above, we favor enactment of the proposed legislation. If we can be of any further assistance in this matter please advise us.

Sincerely yours,

JOSEPH CAMPBELL,
Comptroller General of the United States.

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2. General Services Administration

GENERAL SERVICES ADMINISTRATION,
Washington, D.C., May 27, 1963.

Hon. WILLIAM L. DAWSON,
Chairman, Committee on Government Operations,
House of Representatives,
Washington, D.C.

DEAR MR. CHAIRMAN: You letter of April 1, 1963, requested the views of the General Services Administration on H.R. 5171, 88th Congress, a bill "To author-

ize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data-processing equipment by Federal departments and agencies."

The bill would add a new section 111 to title I of the Federal Property and Administrative Services Act of 1949, as amended (5 U.S.C. 630), which would centralize GSA control over all electronic data-processing equipment required by Federal agencies. Financing would be provided by a revolving fund established by the section. Original capitalization of the fund would be by appropriation and transfer of assets, which would be reimbursed through user charges. According to a report of the Comptroller General to the Congress, dated March 6, 1963, entitled "Study of Financial Advantages of Purchasing Over Leasing of Electronic Data-Processing Equipment in the Federal Government," there would be very substantial savings to the Government of it purchased more of its requirements for electronic computers instead of leasing as was the case with respect to 86 percent of Federal requirements in the fiscal year 1962. The report recites, as an example, that if 523 of the approximately 1,000 electronic data-processing systems installed or planned for installation in the Government on a lease basis by the end of fiscal year 1963 were purchased instead, potential savings would be about $148 million over a 5-year period and over $100 million annually thereafter. The Comptroller General's report concludes that "the only practical way in which the kind of coordinated management can be practiced to achieve the possible financial savings cited is through the establishment of a small, highly placed central management office in the executive branch of the Government."

In order to achieve for the Government the full use potential of automatic data-processing equipment, the requirements for which have shown stupendous growth during recent years, to assure full coordination of procurement by and use within Government, and to obtain for the Government the most economical cost possible, it is essential that centralized management and control over the procurement and use of all such equipment be established. We believe that GSA is not only the logical but the appropriate agency to provide such a central management for the Government. Provision of this service for all Federal agencies by GSA would be consistent with the declared purpose of the Congress in creating GSA to provide for the Government an economical and efficient system of procurement of personal property and nonpersonal services, including related services such as contracting, the utilization of available property, the disposal of surplus property and records management. The utilization of automatic data-processing equipment has become so vital to the successful performance of these and many other functions of Government that they no longer can be successfully handled without the use of such equipment.

As the volume of Government transactions required to be handled continues to grow during the ensuing years and as automatic data-processing equipment becomes more technologically sophisticated, its potential for even greater application in the transaction of Government business affords the principal means by which the ever-increasing volume of Government business may be successfully carried out without proportionate increases in staff costs. At the same time it must be recognized that Government utilization of such equipment either as owner or lessee entails substantial costs.

Accordingly, to achieve for the Government the maximum economic benefits from the use of such equipment, it is highly desirable that prompt action be taken to assure (1) proper economic evaluation of such equipment now in use and proposed in the future; (2) maximum utilization of all such equipment owned or leased by the United States including arrangements for multiple agency use; and (3) that the total Government requirements for such equipment is fully brought to bear, both as to price and terms, in negotiating contracts with manufacturers for its use through purchase, lease, or other arrangements.

In our judgment the many related purposes can best be achieved through centralization of coordination and control of all aspects of the matter in a single agency.

GSA is an organization already existing within Government which possesses considerable know-how in this complex field and into which pool equipment operations and available personnel that may now be fragmented throughout Government can be integrated to the extent necessary to provide for the Government an efficient and economical system for the purchase, lease, maintenance, and use of electronic data-processing equipment. Provision of this centralized service

by GSA would, as previously pointed out, be consistent with the purposes for which GSA was created.

We suggest that the word "electronic" wherever it appears in the bill be changed to read "automatic." This change is regarded as desirable to make it absolutely clear that the authority of GSA would extend to complete data-processing systems which may include electronic computers as well as such related items as punchcard equipment and tabulating machines, which, while a part of the system, may not technically be within the term "electronic."

We recommend, also, elimination of the following language which appears to have been adopted in the proposed bill from the provisions of section 110 of the act and which has no application to automatic data-processing equipment:

Page 3, line 10, "less any liabilities assumed";

Page 3, lines 18 and 19, "where appropriate for terminal liability changes".

We construe the authority which would be vested in the Administrator by the first sentence of proposed new section 111 to "control the purchase, lease, maintenance, and use" of automatic data-processing equipment by Federal agencies as broad enough to authorize the exercise of such coordination and control through issuance of appropriate regulations applicable not only to such equipment owned or leased by and in the possession of Federal agencies but also to use or services of such equipment in the possession of others and obtained by contract or other arrangement. Costs incurred by cost-type contractors for acquisition by purchase, lease, contract, or otherwise of automatic data-processing equipment or the use thereof required for the performance of such contracts, are costs which are reimbursable by Federal agencies under the terms of such contracts. This constitutes an area of indirect Government utilization of such equipment involving, so we understand, substantial cost to the United States. To remove any question as to whether the proposed authority of the Administrator to coordinate and control the purchase, lease, maintenance, and use of automatic data-processing equipment encompasses such actions by cost-type contractors where the expense is passed to the United States through reimbursement, it is recommended that the words "or at the expense of" be inserted in line 8, page 1, between the words "by" and "Federal."

The budgetary requirements of GSA resulting from enactment of this legislation would be increased to the extent of capital appropriations to the revolving fund for the purchase and lease of automatic data-processing equipment and services. Administrative and staff costs would be recovered through rental charges from the agencies using equipment owned by or leased through the fund.

Accordingly, GSA wholeheartedly endorses H.R. 5171 and urges its early enactment by the Congress.

The Bureau of the Budget has advised that, while there is no objection to the presentation to your committee of such report as we deem appropriate on H.R. 5171, other affected agencies have expressed serious concern about certain effects of the bill. Further, that the Bureau of the Budget generally shares these concerns and, accordingly, in its separate report on the legislation, opposes the bill's favorable consideration in its present form.

Sincerely yours,

BERNARD L. BOUTIN, *Administrator.*

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3. Treasury Department

TREASURY DEPARTMENT,
Washington, D.C., May 27, 1963.

Hon. WILLIAM L. DAWSON,
Chairman, Committee on Government Operations,
House of Representatives,
Washington, D.C.

DEAR MR. CHAIRMAN: Reference is made to your request for the views of this Department on H.R. 5171, to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies.

The proposed legislation would vest in the Administrator of General Services all authority to coordinate and control the purchase, lease, maintenance, and use of all electronic data processing equipment by Federal agencies, and to operate or provide for the operation of such equipment.

Five bureaus of he Treasury Department own or lease a substantial number of computers and related peripheral equipment. They serve a variety of purposes including accounting for and maintaining the issue and retirement records on savings bonds; collection of revenue; compiling statistics on income; plotting courses for serach and rescue; supply, fiscal and personnel management; and issuance, payment, and reconciliation of checks. In each instance, the machine was specifically designed or adapted to the function which it performs. Furthermore, personnel operating the equipment require special training.

The Department has given great emphasis to achieving the most efficient utilization of the equipment and of the trained personnel. In addition to making the fullest use required by Treasury operations, the Department permits other Government agencies to use the equipment in periods when it is not required for Treasury programs. We also handle, on a reimbursable basis, the accounting and reconciliation of the money order system of the Post Office. However, the principal use of, and need for, the equipment remain the responsibility of the Treasury Department. The proposed legislation, by centralizing control of EDP equipment in a single agency, would separate the control of the equipment from the agency having the responsibility for the program for which the equipment was specifically designed. The Treasury Department believes that this would be contrary to good managerial practice and to efficient administration.

As for the centralized maintenance of the equipment, the Department's experience indicates that it would cost more for Treasury to maintain the equipment than it would cost the supplier to furnish maintenance. Centralized maintenance should not, therefore, be undertaken unless it is clearly demonstrated that on a Government-wide basis it would be more economical than present arrangements.

Insofar as the centralized procurement of electronic data-processing equipment is concerned, the proposed legislation would be unnecessary since the General Services Administration already has authority to do this. At the present time, the General Services Administration negotiates terms and conditions of computer contracts with suppliers of equipment, but the prices are set by the supplier and procurement actions are directly between the departments and agencies and the suppliers.

In view of the above, the Treasury Department would be opposed to the enactment of the proposed legislation.

The Department has been advised by the Bureau of the Budget that there is no objection from the standpoint of the administration's program to the submission of this report to your committee.

Sincerely yours,

G. D'ANDELOT BELIN, *General Counsel.*

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4. Bureau of the Budget

EXECUTIVE OFFICE OF THE PRESIDENT,
BUREAU OF THE BUDGET,
Washington, D.C., May 27, 1963.

Hon. WILLIAM L. DAWSON,
Chairman, Committee on Government Operations,
House of Representative,
Longworth House Office Building,
Washington, D.C.

DEAR MR. CHAIRMAN: This is in response to your request for a report on H.R. 5171, a bill to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data-processing equipment by Federal departments and agencies. The following is submitted in response to your request.

We understand that a major purpose of the proposed bill is to correct the lease versus purchase situation described by the Comptroller General in his March 1963 report which he based on agency plans for fiscal year 1963. Agency plans for fiscal year 1964, the first effective year for Bureau of the Budget Circular A–54, differ significantly from those for the prior year. In the civil agencies 64 percent of all new ADP acquisitions will either be purchased or, for better budget timing, will be leased with an option to purchase in fiscal year 1965. Additionally, the civil agencies will purchase 18 presently leased computers in fiscal year 1964. Purchase policies and plans for the military departments currently are being reviewed in the Office of the Secretary of Defense.

This trend toward purchasing new ADP equipment and purchasing equipment currently leased, creates the necessity for designing procedures for utilizing Government-owned equipment when it is no longer suitable for use by the acquiring agency. However, the General Services Administration is making satisfactory progress within its present statutory authority in the development of regulations for the effective utilization of this ADP equipment as well as for taking advantage of the Government's equity in leased computers.

In the hope that it will be helpful to the committee, we plan to furnish to you in a few days a résumé of the ADP program of the executive branch, indicating its current status and future objectives. This résumé will also describe the wide range of activities, involving the GSA and other agencies, occasioned largely by the fact that the management of our ADP equipment resources is integral to program management in an agency and thus cannot be viewed in the same light as office space, typewriters, or automobiles.

In the circumstances, and for reasons outlined in the views letters of the Departments of Defense, Agriculture, Labor, and Post Office, and the Atomic Energy Commission, Federal Aviation Agency, and Tennessee Valley Authority transmitted herewith, the Bureau of the Budget does not favor enactment of H.R. 5171 in its present form. While we do not believe additional legislative authority is necessary, we will be glad to work with the committee and with other agencies concerned to develop amended or substitute legislation which might assist in the more effective use of automatic data-processing equipment without creating the problems which we believe are inherent in this bill.

Sincerely yours,

PHILLIP S. HUGHES,
Assistant Director for Legislative Reference.

Enclosures.

(*a*) *Tennessee Valley Authority*

TENNESSEE VALLEY AUTHORITY,
OFFICE OF THE BOARD OF DIRECTORS,
Knoxville, Tenn., April 30, 1963.

Mr. PHILLIP S. HUGHES,
Assistant Director for Legislative Reference,
Bureau of the Budget,
Washington, D.C.

DEAR MR. HUGHES: This is in response to your legislative referral memorandum of April 10, requesting our views with respect to H.R. 5171, a bill to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data-processing equipment by Federal departments and agencies.

The bill would add a new section to the Federal Property and Administrative Services Act authorizing and directing the General Services Administration to coordinate and control the purchase, lease, maintenance, and use of electronic data-processing equipment by Federal agencies and to operate such equipment or provide for its operation by delegation of authority. The objectives of centralizing such control in GSA, according to the sponsor of the bill, are (1) greater economy in the acquisition of EDP equipment, mainly through purchase thereof in lieu of long-term rental arrangements, and (2) more effective use of such equipment through coordination among the various agencies of the Government.

These are worthwhile objectives with which we, of course, are in accord, but we do not believe additional legislation such as that proposed in H.R. 5171 is necessary to achieve them. In our opinion, the desired economy and efficiency can be obtained through voluntary action by the various Government agencies if the Congress and the administration provide the needed encouragement and funds. Moreover, we are concerned that such centralized control of EDP equipment in GSA might hinder Federal agencies in their use of what has been found to be an important tool in efficient administration and businesslike management.

It should be kept in mind that this equipment is not just another item of office equipment which falls within the recognized scope of GSA's Government housekeeping activities. More and more uses are being found for EDP equipment in carrying out Government programs, particularly in the case of an agency such

as TVA which conducts extensive engineering and business-type activities. TVA has found EDP equipment of immense benefit in carrying out its program of regional development, such as in predicting and controlling the flow of the Tennessee River, in operation of its extensive power system, and in production of fertilizer materials. We believe TVA, which has responsibility for the success of these activities, is in a much better position to determine how and what items of EDP equipment can be used most effectively therein than any central agency operating out of Washington and without such responsibility would be. Actually, as far as these programs of TVA are concerned, they would not appear to be affected by the provisions of H.R. 5171 since the bill does not alter the existing exemptions under section 602(d) of the Federal Property and Administrative Services Act, but we believe that remote, centralized control of such vital equipment as applied to any agencies is wrong in principle and should be avoided.

TVA has given careful attention to economy and efficiency in its acquisition and use of EDP equipment. TVA first acquired an IBM–704 machine several years ago under lease but it was purchased outright as soon as we could determine that it met our needs. Smaller units of EDP equipment have been temporarily leased for special use but these will be replaced with purchased equipment as soon as we can determine with greater preciseness what we need. Also, we have made our EDP equipment available to AEC and other Government agencies when they need it and it can be spared. We see no reason why similar cooperative action should not be taken throughout the Government without additional legislation on the subject.

We appreciate the opportunity to comment on the bill.

Sincerely yours,

AUBREY J. WAGNER, *Chairman.*

(*b*) *Federal Aviation Agency*

FEDERAL AVIATION AGENCY,
Washington, D.C., May 10, 1963.

Mr. PHILLIP S. HUGHES,
Assistant Director for Legislative Reference,
Bureau of the Budget,
Washington, D.C.

DEAR MR. HUGHES: This is in response to your request for this Agency's views on H.R. 5171, a bill to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies.

This measure would appear to vest complete authority in the Administrator of the General Services Administration to control the purchase, lease, maintenance, and use of electronic data processing equipment by Federal agencies. It is the opinion of this Agency that the establishment of such a highly centralized control over the acquisition and use of EDP equipment is both unwarranted and unwise. We fear that the attendant administrative, coordinative, and restrictive procedures which would flow from this bill would prove to be a serious impediment to the conduct of our air safety programs which rely to a great extent upon the application of EDP.

This Agency now makes extensive use of special EDP equipment in air navigation and air traffic control, flight inspection, and related communications systems. As an example, the computer systems used in the air traffic control centers to control movement of aircraft have attached to them specially designed equipment to work in conjunction with the computers. This highly specialized equipment is built to specifications which are required to satisfy the unique operational requirements for control of movement of aircraft in the air. These computer systems are used 24 hours a day and every day of the year in a "real time" environment. Information fed to the computers comes from various other special system equipment in the center and adjacent control centers, entering the computer with no intervention. The computer immediately processes information and displays the information on cathode ray tubes or prints the information on specially prepared paper strips or electromechanical displays for immediate use by the controller in making decisions relative to control of air traffic. This is but one example of how EDP equipment as used in this Agency is an integral part of an operational system which, to be properly managed, requires Agency control over all physical resources, including EDP equipment.

While the proposed legislation provides that GSA at its discretion may delegate certain of its authority to other agencies, this is not satisfactory assurance that we will have the decisionmaking latitude which we believe is necessary to carry out our statutory responsibilities in the most efficient and economic manner possible. In order to continue improving the control of air traffic and other highly specialized functions, we must retain full responsibility and authority over the design, installation, and maintenance of these complex systems. It has been necessary for us to develop a highly trained staff with operational, programing, and technical skills who keep abreast of these constantly changing requirements and recommend the basic decisions necessary for the development of this system. We do not believe it would be feasible for GSA to develop the substantially duplicate staff required to perform or supervise the performance of this activity.

We certainly recognize the necessity for coordination and control of EDP programs and many agencies, including FAA, have established centralized control of the acquisition and application of EDP equipment within their own organizations. This is in recognition of the large amounts of money involved, the need for maximum utilization of the equipment, the scarcity of trained personnel, and the need to integrate data systems for overall management purposes. These reasons which exist within the agencies, also apply to the Government as a whole.

H.R. 5171 suggests, however, that no mechanism now exists for providing central coordination of EDP activities throughout the Government. This is not the case. As you know, the Bureau of the Budget presently provides Government-wide coordination and control through the normal budget processes and by prescribing basic policies and standards for acquisition and joint use of EDP facilities. Simply transferring this responsibility to GSA would result in no apparent advantage to the Government. To the contrary, we believe it would only result in the creation of an additional overhead group and additional delays in reaching decisions and implementing programs.

In transferring responsibility to GSA, the subject bill would also substantially expand, and alter the nature of the coordination and control mechanisms now existing. It would inject GSA into all matters relating to EDP, including operation, utilization, transfer, multiple use, and even agency organization. These are areas where the individual agencies must have considerable discretion and authority if they are effectively to carry out their statutory functions. We do not suggest that there should be no external review or evaluation of an agency's performance in this area. The General Accounting Office is currently carrying out this function and, we would assume, in a satisfactory manner.

There would appear to be an advantage in the establishment and operation of EDP equipment pools for joint use by Government agencies, although we do not know that additional legislative authority would be required for this purpose. Similarly, the establishment of an EDP capital fund would appear to have advantages if the agencies were in a position to charge acquisition costs against the fund with appropriate arrangements for GSA to bill agencies for the use of equipment in order to reimburse the fund. However, if to accomplish this, individual agencies must justify and obtain approval from GSA for acquisition of the equipment, any advantage would hardly be worth the additional burden and cost. The basic decisions as to acquisition and use should continue to be made within the framework of budgetary justifications and standards and policies established by the Bureau of the Budget.

There are further improvements in the EDP area which GSA could effect under existing authority. GSA is now negotiating Government-wide contracts with computer manufacturers. These negotiations have concentrated on the terms and conditions of use of the equipment and significant benefits to the Government have accrued. To date, however, GSA has not attempted to negotiate rental cost with manufacturers. For example, agencies are still generally required to pay approximately 40 percent of the basic shift rental for equipment use in excess of 176 hours per month. As a user, it is difficult for us to see the justification for this charge since the equipment is not subject to the same deterioration through use as is mechanical or electromechanical equipment. With GSA's present authority for contract negotiations, we feel they should take the initiative in negotiating equipment rental costs with manufacurers. In this connection, any significant reduction in rental for extra shift use would tend to reduce the cost advantages of purchase.

To summarize, we believe each agency, and the Government as a whole, should continue to explore and adapt mechanized processes wherever possible in order to conserve personnel resources and otherwise improve the efficiency and economy of Government operations. The control procedures established to assure that the use of EDP equipment proceeds wisely and economically should be simplified wherever possible. We are convinced that H.R. 5171 would accomplish the opposite result.

There is involved in EDP much more than a simple procurement and property utilization problem. The state of the art in aviation, for example, is evolving very rapidly. The questions as to how, when, and where to utilize EDP in the performance of our mission are so intricate it would be virtually impossible for a central agency to compose a staff capable of supervising and second-guessing the decisions which must be made. Undoubtedly, this is true in many other agencies. If the existing controls over the acquisition and use of EDP equipment as exercised by the Bureau of the Budget and the General Accounting Office are found to be inadequate, a much less drastic remedy should be explored.

Sincerely,

N. E. HALABY, *Administrator.*

(c) *Atomic Energy Commission*

U.S. ATOMIC ENERGY COMMISSION,
Washington, D.C., May 22, 1963.

Hon. KERMIT GORDON,
Director, Bureau of the Budget.

DEAR MR. GORDON: Reference is made to Mr. Rommel's legislative referral memorandum of April 10, 1963, transmitting H.R. 5171, a bill "To authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies."

By amending the Federal Property and Administrative Services Act of 1949, as amended, this bill would authorize the Administrator of the General Services Administration to control the purchase, lease, maintenance, and use of electronic data processing equipment by Federal agencies with the proviso that the Administrator, in his discretion, may delegate this authority in three broadly defined classes of cases. In addition, the bill would establish on the books of the Treasury an electronic data processing fund for the various expenses involved in the coordination, operation, and utilization of such equipment by and for Federal agencies. The fund is to be credited with advances and reimbursements from available appropriations and funds of any agency in the amount of the cost, as determined by the Administrator, of the equipment and services rendered to the agency.

We recognize considerable merit in the bill's objectives of centralizing and simplifying the acquisition, maintenance, and use of electronic data processing equipment, with economies possibly resulting to the Government. Nevertheless, the Atomic Energy Commission considers H.R. 5171 unacceptable in its present form for the reasons stated below.

The Atomic Energy Commission now has electronic data processing equipment representing an investment of more than $60 million. Such equipment is used by the Commission for the most part for scientific and technical purposes, particularly in connection with development, testing, and production of weapons and reactor research and development. In these areas electronic data processing equipment requirements are so inextricably linked to the intended use that only the user is able to develop the specifications for and determine the types and configurations of equipment needed. The use of this equipment is so tied in with the Commission's exercise of its statutory responsibilities that we firmly believe coordination and control of the use of such AEC equipment by another Government agency could seriously interfere with the functions of the Commission.

We note that the bill would authorize the Administration "to require joint utilization of such equipment by two or more Federal agencies, and to establish equipment pools and data processing centers for such joint use when necessary for its most efficient and effective utilization." Inasmuch as the Commission has specific statutory responsibility under the Atomic Energy Act of 1954, as amended, with respect to security of certain classes of information, which could

come into conflict with actions of the Administrator directing joint utilization or pooling arrangements, the mandatory nature of this provision could be in conflict with the Commission's responsibility for safeguarding information. For this reason we oppose the provision giving the Administrator authority to require joint utilization or pooling arrangements.

Another complication raised by the proposed bill is the fact that most of the procurement and utilization of electronic data processing equipment is accomplished for the Commission through its many contractors rather than by the AEC directly, and in many of these situations the highly specialized nature of the equipment needed prevents orders being placed under Federal supply schedules. The Commission could not take over these procurement and utilization functions from its contractors without dislocating its present method of conducting major portions of its programs through its contractors, with resulting problems which in administrative and staffing implications alone could outweigh any economies the bill might otherwise permit. It would, of course, not be feasible or consistent with contractural relationships, and would not be contemplated by the bill as we understand it, for another agency to attempt to exercise control over AEC contractors.

We have no objection to an expansion of the activities of the Administrator in entering into open-end contracts for the purchase of electronic data processing equipment which the various Federal agencies will be free to avail themselves of when they believe that the contracts meet their needs and specifications.

In essence the Atomic Energy Commission believes that the connection between its procurement and uses of electronic data processing equipment and the fulfillment of its appointed tasks is so essential as to make it incompatible with the Atomic Energy Act to place this procurement and use under the control of another agency. Accordingly, we oppose the passage of H.R. 5171 as it applies to the Commission.

Sincerely yours,

DWIGHT A. INK,
Assistant General Manager.

(*d*) *Post Office Department*

OFFICE OF THE POSTMASTER GENERAL,
Washington, D.C., May 9, 1963.

Hon. KERMIT GORDON,
Director, Bureau of the Budget,
Washington, D.C.

DEAR MR. GORDON: This is in reply to the request of the Assistant Director, Legislative Reference, for the views of this Department with respect to H.R. 5171, "To authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies."

The Post Office Department does not favor the establishment of a central control organization for the procurement or management of electronic data processing equipment for all Federal agencies.

The use of electronic data processing equipment is vital to the day-to-day conduct of the Post Office Department business and is considered to be an essential administrative sanction of the Department.

While the bill would permit the Administrator of General Services Administration, in his discretion, to delegate the control of electronic data processing equipment in certain cases, we believe that because an exceptionally high degree of responsiveness to the data processing needs of the Department is required, it is imperative that all phases of administrative management of the equipment, personnel, job schedules, and contact with vendors remain under the direct control of the Postmaster General or his designated representative.

This Department is currently participating in the experimental regional sharing plan for electronic computers sponsored by the Bureau of the Budget. The Department intends to continue in this effort in order to help secure maximum utilization of data processing equipment. However, it is not considered advisable to relinquish authority over the management of this function since data processing services are fundamental responsibilities of the Postmaster General.

This Department would not be opposed to the establishment of an electronic data processing fund provided such fund is available for the purchase of electronic data processing equipment if an economic evaluation of the relative costs of lease against purchase indicates that it is to the best advantages of the Government to purchase equipment and further, that the fund is available to support extraordinary one-time expenses for data processing services which may from time to time occur.

Sincerely yours,

FREDERICK C. BELEN,
Acting Postmaster General.

(e) *Department of Labor*

U.S. DEPARTMENT OF LABOR,
OFFICE OF THE SECRETARY,
Washington, May 17, 196.

HON. KERMIT GORDON,
Director, Bureau of the Budget,
Executive Office of the President,
Washington, D.C.

DEAR MR. GORDON: This is in response to your request for the views of the Department of Labor on H.R. 5171, a bill "to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies."

This Department is keenly interested in the efficient utilization of automatic data processing equipment. However, we doubt that this will be best achieved by the enactment of H.R. 5171.

Much progress has been made in dealing with ADP problems in recent years. The establishment of a unit in the management office of the Bureau of the Budget has provided leadership for an overall Federal program. Over the past 2 years, the development of a departmentwide ADP program in the Department of Labor has begun to show results. Not only have internal central ADP services been set up, but the Department is performing work for other agencies and has utilized other Federal agency systems for its own ADP needs.

Representatives of this Department have also participated in an interagency committee sponsored by the Bureau of the Budget. As you know, the express purpose of this committee is to develop more agency expertise in ADP and create a greater awareness of the need for intragovernmental cooperation, including the sharing of equipment and the exchanging of technical assistance.

It is our position that the objectives of H.R. 5171 would be best effected through the continued improvement of our internal ADP program and through the continued leadership of the Bureau of the Budget's ADP staff, with special emphasis on interagency sharing possibilities and a careful analysis of rental-purchase arrangements.

In our opinion, the continuance of the procedures we are now following involve less cost to the Government and to the individual agencies than would the establishment of a new organizational unit to perform essentially the same functions. The creation of such a new unit would not only be expensive, but would also create many complex administrative problems and possibly adversely affect agency operations. It would be virtually an impossible task for GSA or any agency to maintain objective control over the scheduling, arrange for the joint use of systems including all of its administrative ramifications, make decisions on the transfer of equipment in and out of agencies, allocate funds and/or make charges for ADP personnel, supplies and equipment usage, and at the same time satisfy the basic requirements of each agency.

For the foregoing reasons, we would not favor the enactment of H.R. 5171.

Yours sincerely,

W. WILLARD WIRTZ,
Secretary of Labor.

(*f*) *Department of Agriculture*

DEPARTMENT OF AGRICULTURE,
OFFICE OF THE SECRETARY,
Washington, May 16, 1963.

HON. KERMIT GORDON,
Director, Bureau of the Budget.

DEAR MR. GORDON: This is in reply to the Mr. Rommel's request of April 10, 1963, for a report on H.R. 5171, a bill "to authorize the Administrator of the GSA to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data-processing equipment by Federal departments and agencies."

We agee with the objectives of this bill; however, we do not believe that legislation is required to accomplish those objectives.

In Agriculture, we have established three department computer centers. The Secretary has announced that a fourth is to be established. These centers, which are operated by agencies of the Department, serve all organizations within the Department. This sharing provides accessibility to electronic data-processing equipment and experienced personnel at reasonable costs—yet the common direction, under the Secretary of Agriculture, of equipment, personnel and users, provides a manageable operation.

Small-scale computers are being made available to our scientific personnel at laboratories, engineering and research installations. This approach places another tool in these installations. There, the use of a computer can be a means of increasing the effectiveness of the available man-hours of personnel who are in very short supply.

The field of electronic data processing has advanced very rapidly in the 7 years since this Department installed its first computer—it is still developing at a tremendous rate. The rate of advancement in the use of EDP equipment is more dependent—today—on the design of systems, gaining acceptance, programing, and installation, than on the equipment. However, the success of these activities is closely dependent upon the confidence of program personnel that electronic data-processing equipment and personnel will perform as planned. This can be obtained most readily when the management of EDP and the user are within the same department.

This bill would provide an electronic data-processing fund for purchasing computers. This objective is most desirable.

This bill would permit the establishment of centers which could be used by organizations that do not have sufficient work to fully use a computer. We use time on computers of other departments, such as the Treasury Department and the Weather Bureau. The sharing of a computer by small users is being accomplished by the Philadelphia computer sharing project sponsored by the Bureau of the Budget. Thus, this objective of the bill is now being met in three ways— department computer centers, bilateral department arrangements to share equipment, and the Bureau of the Budget sponsored multidepartment equipment sharing project.

This bill would provide central control over the purchase or lease of EDP equipment. This is now provided by Bureau of the Budget standards covering any acquisition of computers. GAO audits of compliance and of utilization of equipment provide for the enforcement of these standards.

Considerable data is transmitted to computers. This, in most cases, we believe would continue even though computers were available at many locations. The cost of dual maintenance of programs of different computers would be an offsetting factor to any data transmission cost reduction. And, any standardization of equipment, which could eliminate dual programing, would be to the disadvantage of the small EDP manufacturer.

For these reasons, it appears that the objectives of the bill are being accomplished and that the bill, as proposed, would result in a decrease rather than an increase in the rate of placing work on EDP equipment.

Sincerely,

CHARLES S. MURPHY,
Under Secretary.

(g) *Department of Defense*

GENERAL COUNSEL OF THE DEPARTMENT OF DEFENSE,
Washington, D.C., May 21, 1963.

HON. KERMIT GORDON,
Director,
Bureau of the Budget.

DEAR MR. GORDON: Reference is made to your request for the views of the Department of Defense on H.R. 5171, a bill "to authorize the Administrator of the General Services Administration to coordinate and otherwise provide for the economic and efficient purchase, lease, maintenance, operation, and utilization of electronic data processing equipment by Federal departments and agencies."

H.R. 5171 would add a new section 111 to title I of the Federal Property and Administrative Services Act of 1949. The new section would authorize and direct the Administrator of General Services to coordinate and control the purchase, lease, maintenance, and use of electronic data processing equipment by Federal agencies and to operate or authorize the operation of such equipment. The Administrator would be authorized to transfer such equipment between agencies, to require joint utilization by two or more agencies, and to establish equipment pools and data processing centers for joint use. In his discretion, the Administrator could delegate authority to lease, purchase, maintain, or operate (1) general classes of equipment; (2) equipment of special design needed to fulfill some unique requirement or special purpose of a particular agency; and (3) equipment necessary for national defense and security.

The legislation would establish on the books of the Treasury an electronic data processing fund to be available for the above purposes. Such fund would be credited with advances and reimbursements from available appropriations and funds of any agency utilizing equipment and services furnished it, and with refunds or recoveries resulting from operations of the fund. Advances and reimbursements would be based on rates determined by the Administrator which would approximate the costs thereof met by the fund.

The Department of Defense is strongly opposed to H.R. 5171. One of its effects would be to place the Administrator of General Services in the position of determining the requirements of the Department of Defense for electronic data processing equipment. Further, it would place him in control over the use of such equipment by the Department, including authority to direct its transfer to other Federal agencies in his discretion.

Electronic data processing equipment performs vital functions in connection with the defense mission. It is employed in intelligence, scientific and engineering fields, weapons fire control systems, tactical military field operations, war gaming, damage assessment, communications, and logistics operations. These systems are designed and installed to be responsive to the operational needs of commanders responsible for functions essential to the defense mission. For example, in the operation of the base supply account at most Air Force bases, electronic data processing systems are used to permit the immediate satisfaction of priority requests for repair parts. Any delay in such supply action may result in the grounding of weapon systems. In this case, the management and operation of the supply functions on a computer have become as integral a part of base operations as procedures on the flight line and in the maintenance hangar.

In the operation of the military supply system at the wholesale level, electronic data processing systems are being used extensively to furnish data necessary for making decisions at inventory control points. Such data are used in determining requirements for repair parts and components to support weapon systems, procuring materiel, scheduling and managing the rebuild of weapon systems, and filling demands for supplies on a worldwide basis. Responsibility for the design of such data systems and the requisite computer capabilities, together with the accumulation of source data and operation within established performance standards and priorities, cannot be assigned to an agency outside the Department of Defense. This management responsibility is necessary for effective control of operating Defense programs.

Similarly, programing and operation of computers installed to support intelligence and war gaming activties require the collection and storage of masses of classified information. Responsibility for the collection of data and timely operation of these electronic data processing systems is inextricably associated

with the performance of the intelligence and war gaming functions. With respect to such applications, it is inconceivable that responsibility and authority for the determination of requirements and the use of electronic data processing equipment should be vested in an agency outside of the Department.

The vital role played by ADP equipment in the management and operation of Defense programs has caused the Secretary of Defense to establish controls over the selection, acquisition, operation, and utilization of such equipment throughout Defense. As prescribed by DOD instruction 5105.11, dated January 2, 1957, Subject: "Responsibility for Application of ADP Systems to Business Procedures," a senior policy official in each military department and agency has been designated to monitor the development of systems in this area. All requests for the acquisition of electronic computers for business data processing systems are submitted to the Office of the Secretary of Defense for review and approval. In the review and approval process, both at the military department and Office of the Secretary of Defense level, care is exercised to see that the need is valid and that it cannot be satisfied through use of an existing Defense installation. Procedures have been established to assure that all new computers are acquired on the basis of competitive bidding, in order that the most economical and effective alternative is followed in selecting from available ADP capability. A program of readiness reviews and performance evaluations has been used to monitor the management and utilization of these systems. Concern with the development of effective and economical data systems has resulted in DOD projects for standard procedures, codes, and programing techniques.

It is estimated that by June 30, 1963, over 800 computers will be installed supporting Defense programs—exclusive of tactical and classified applications. These electronic data processing systems cost approximately $350 million in rental and supporting personnel. The size of this DOD program alone warrants close management surveillance by the Secretary of Defense. The integral part which these computers play in Defense managerial and operational systems makes this control a mandatory responsibility of the Secretary of Defense.

It is pointed out that electronic data processing equipment is now acquired from general schedules issued by the Administrator of General Services. The Department of Defense provides substantial technical support to the GSA in the execution of these contracts. The Department supports the cintinued use of GSA general schedules. Since GSA experience in this field is extremely limited (confined to 10 installations on a relatively small management application) it is assumed that the technical support rendered by DOD would still be required, and such support is assured.

With respect to the matter of lease versus purchase, this Department is in full support of the objectives of purchasing computers on the basis of maximum economic advantage to the Government and agrees that where technology in this field has become stable, substantial cost benefits may be achieved through more extensive purchasing of these equipments. In this respect, the military departments and defense agencies have been in the process of evaluating for the past several months the advantages of the various methods of acquisition; i.e., purchase, lease, or lease with option to purchase (on an item-by-item basis) for all installed equipment. This reappraisal is in consonance with DOD policies and BOB Circular A–54, and is scheduled for completion during May 1963.

In conclusion, performance of such responsibilities for the management of electronic data processing equipment by the Department of Defense is a prerequisite to the control of operating programs. Therefore, the Department opposes H.R. 5171 which would vest such responsibilities in another agency.

Sincerely,

JOHN T. MCNAUGHTON.

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