

SPECIAL ANALYSES

BUDGET OF THE UNITED STATES





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FOREWORD

This volume of Special Analyses, Budget of the United States, 1969, contains facts and figures on special aspects of the President's budgetary recommendations transmitted in The Budget of the United States Government, 1969. Thirteen special analyses are included, of which six (A through F) are reprints of analyses already printed in the budget document.

GENERAL NOTES

- 1. All years referred to are fiscal years, unless otherwise noted.
- 2. Detail in the tables, text, and charts of this volume may not add to the totals because of rounding.

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SPECIAL ANALYSIS A

COMPARISON OF NEW AND OLD BUDGET CONCEPTS

This analysis provides a comparison of the budget totals under the new concept used in this budget with two older concepts used heretofore. It also presents, as a transitional matter, a full table based upon the old concept of the "administrative budget." It continues the presentation of a gross table on the flow of funds, as a supplementary measure of Federal financial data.

THE NEW CONCEPT OF THE BUDGET

In this budget, a unified comprehensive summary budget statement is utilized to present the total financial plan for the Government, along the lines recommended by the President's Commission on Budget Concepts in its report of October 10, 1967. The basic principles are that the budget encompasses all programs of the Federal Government and its agencies, with the outlay and deficit divided between the expenditure account and loan account, and with proprietary receipts offset against outlays, regardless of the funding structure at any particular time. Payments between funds are eliminated from the totals, as is conventional in statements that consolidate data for a number of funds. These principles are explained on pages 48 to 50 of this document.

The financial plan also includes appropriate attention to congressional action on the budget, a comprehensive statement of the Federal debt with a distinction between that which is internal and that which is held by the public, and a redefinition of participation certificates in

loans to be a part of the debt rather than a sale of assets.

Two of the fundamental recommendations of the Commission could not be adopted in this budget because, as the Commission report indicates, more time is required to provide an appropriate accounting basis for the data. These relate to the use of the accrual basis, instead of the cash basis, for the presentation of receipts and expenditures, and the identification of subsidies on loans (including the capitalization of the interest subsidies at the time the loan is disbursed).

OLD MEASURES OF THE BUDGET

The administrative budget.—While the budget documents have for many years covered all of the types of funds administered by the Government, certain funds were totaled separately from others to form the "administrative budget." This administrative budget covered receipts and expenditures of the Federal funds—that is, funds owned by the Government. It excluded funds held in trust by the Federal Government. In the case of public enterprise funds, intra-

¹Transactions in the Federal sector of the national income and product accounts, another measure of Government finances, are set forth and explained in Special Analysis B.

governmental funds, and reimbursements which by law are mingled with appropriations, the administrative budget offset receipts against expenditures; otherwise, it presented receipts and expenditures gross,

except for refunds.

While the administrative budget was not coextensive with either the finances requiring annual action or the expenditures subject to legislative and administrative control, it was often the focus of attention as the principal financial plan for the Government. Actually, it always included a number of appropriations and funds in which money becomes available each year without new action by the executive or legislative branches, the most important being interest on the public debt. Similarly, it excluded a few items on which annual action is required, but which are in the nature of trust funds.

Consolidated cash statement.—The consolidated cash statement sought to reflect the transactions between the Government and the public. It was "consolidated" in the sense that it included both Federal funds and the trust funds. It was "cash" in the sense that its totals were basically on a checks-paid basis, as distinguished from the

checks-issued basis used in the administrative budget.

Since the trust funds, particularly those derived from taxes and social insurance premiums, have become of greater importance, the consolidated cash statement took on a greater significance in the presentation of Federal finances, and in permitting analysis of the relationship between Federal finances and the remainder of the economy. This statement followed the same rules as the administrative budget with respect to grossing and netting; most trust funds were reported gross, but a few, designated as trust revolving funds, were included on the basis of the net excess of expenditures over receipts. The consolidated cash statement also included among Government-sponsored enterprises two privately owned groups—the Federal home loan banks and the Federal land banks—which at one time were mixed ownership in nature.

ELEMENTS OF DIFFERENCE

Table A-1 presents "bridges" between the measures of receipts and expenditures used in this budget and the older measures of the administrative budget and the consolidated cash statement. Table A-2 makes a similar presentation for the measures of borrowing and other financing presented in this budget, as compared with the changes in the net borrowing by Federal funds, related to the administrative budget, and the net borrowing from the public, related to the consolidated cash statement.

Table A-1. RELATION OF BUDGET TOTALS TO OLDER MEASURES
(In billions of dollars)

Description		onciliatio istrative		Reconciliation to consolidated cash		
2000	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
RECEIPTS						
Unified, comprehensive budget totals Additions or deductions (—), differences in:	149.6	155.8	178.1	149.6	155.8	178.1
Coverage (adjusted for intragovern- mentals ¹): Trust funds	-37.0	-38.9	43.9			
D.C. municipal funds				.3	.4	.4
Grossing of proprietary receipts: To be continued in fund structure Proposed for netting in new funds	2.8 .4	2.1	2.0	4.5 .4	4.1	4.2
Interfund and intragovernmental trans- actions:						
Employee payments for retirement Employer payments of Government	-1.2	-1.3	-1.4	-1.2	-1.3	-1.4
for social security	.5	.5	.6	.5	.5	.6
for supplementary medical insur- ance	.8	.4	.2	5 *	6	8
Total, receipts under older concepts	115.9	118.6	135.6	153.6	158.9	181.1
OUTLAYS (FORMERLY EXPENDI- TURES)						
Unified, comprehensive budget totalsAdditions or deductions (—), differences in:	158.4	175.6	186.1	158.4	175.6	186.1
Coverage (adjusted for intragovern-						
mentals ¹): Trust funds	-30.9	-35.1	-36.6	*	*	*
D.C. municipal funds Privately owned institutions	1			.3 -3.9	1.6	2.8
Grossing of proprietary receipts: To be continued in fund structure Proposed for netting in new funds		2.1	2.0	4.5	4.1	4.2
Interfund and intragovernmental trans- actions	7	8	8	-1.2	-1.4	-1.0
Timing: Debt issued in lieu of checks: International lending agencies	2					
Other program payments Interest			-	* 7	1 .	
Other interest accruals, checks out- standing, and clearing accounts			-	.7		_
Deposit fund liabilities	.]	.		-1.1	4	- .
Definition of cash, monetary assets Definition of borrowing: Sales of participation certificates, net		1		-2.6	1	-2.:
Increase in balances held for buyers of		.3				
participation certificates Sales of Defense family housing mort- gages, net	.1	.1		.1	.1	
Totals, outlays under older concepts.	•	137.2	-	155.1	176.0	

^{*}Less than \$50 million.

The adjustments for coverage take account of the change in the intragovernmental transactions caused by inclusion or exclusion of funds which have transactions with the Federal funds.

Significant differences are as follows:

Coverage.—Trust funds must be subtracted from the new budget totals in moving toward the administrative budget concept. The District of Columbia municipal funds, and certain transactions of Government sponsored, but privately owned corporations (Federal land banks and Federal home loan banks), for which the U.S. Treasurer acts as fiscal agent, must be added to the new budget to move toward the consolidated cash statement.

Grossing of proprietary receipts from the public.—The new budget offsets against expenditures the proprietary receipts from the public, both in the Federal funds and the trust funds, regardless of fund structure. The older budget concepts permitted such offsets only in accordance with the fund structure—that is, when the receipts are deposited in public enterprise funds, trust revolving funds, etc. The proposals to create new public enterprise funds such as for the Rural Electrification Administration and the power marketing agencies of the Department of the Interior, have no effect on the totals under the new concept; under both of the older concepts, however, the adoption of such proposed legislation would reduce the receipts and expenditures from the levels which would otherwise prevail.

Interfund and intragovernmental transactions.—Under each concept, payments between funds covered by that concept are netted out to avoid duplication. However, there are differences in the application of this principle. The Government's payments into the social security trust funds, representing its contributions as employer of military personnel and covered civilian personnel, are treated as an intragovernmental transaction in the new budget, just as the Government's payments into the civil service and foreign service retirement and disability funds are treated there and in the consolidated cash statement. On the other hand, the new budget does not treat as an intragovernmental payment the employee's share of retirement or social security, which is collected by payroll deductions. Nor does the new budget treat as an intragovernmental transaction the monthly payments for supplementary medical insurance which are collected from social security or other annuitants through deductions from their annuity checks. The older consolidated cash statement had given intragovernmental treatment to such deductions. The new concept does not diminish the recorded expenditures in payment of earnings or annuities because of the payroll deduction method of making collection from the payees.

Timing.—The new budget follows closely the checks-issued principle of the conventional accounts, and therefore differs from the old administrative budget only in one minor regard with respect to timing. In accordance with the recommendations of the President's Commission on Budget Concepts, payments to international lending organizations are recognized in the new budget only when the cash is actually paid out, whereas the administrative budget recognized the expenditure at the time that the public debt figures were increased through the issuance of notes to these organizations.

Table A-2. RELATION OF FINANCING TOTALS TO OLDER MEASURES (In billions of dollars)

Description		conciliatio iistrative		Rec		
2000,	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
FINANCING						
Unified comprehensive budget deficit	8.8	19.8	8.0	8.8	19.8	8.0
Trust fundsBorrowings from D.C. government	6.5	4.3	7.1	6 *	*	
Privately owned institutions	1		.1	-3.9 6	1.6	2.8
Definition of cash, monetary assets Definition of borrowing	2 3 -3.4	4 -4. 6	7 -3. 0	-2.5		-2. 2
Net change in borrowing	2.5	7	3.5	7.4	-2.3	.1
Additions or deductions (—) to other fi- nancing, differences in: Coverage:						
Trust fundsOther	4	4	.2	.7	*	*
Timing Definition of cash, monetary assets				4 3	4	4
Definition of borrowing Definition of receipts	8	4	3 2	*	*	***************************************
Net change in other financing	-1.4	5	.3	.1	4	4
Deficit under older concepts	9.9	18.6	11.8	1.5	17.2	7.6

^{*}Less than \$50 million.

Several adjustments are necessary, however, to move from the new budget toward the old consolidated cash statement, since the latter was on a checks-paid basis. The exclusion of deposit funds from the coverage of the new budget is a reconciling item; the exclusion is made because deposit funds generally represent a timing adjustment with respect to transactions of other funds; the most common uses of deposit funds are to account temporarily for receipts before they are earned, and to account temporarily for certain expenditures after the check in payment of the liability has been drawn but pending final settlement. Such funds are also used to account for moneys deposited with the Government as banker.

Definition of cash and monetary assets.—The United States drawing rights in the International Monetary Fund (which represent a part of the Government's equity in the fund) are now treated like cash. Hence, the exercise of those drawing rights, under which cash is moved from the IMF to the U.S. Treasury, no longer affects receipts, expenditures, borrowing, or redemption of borrowing. Also, the exchange of notes for cash in connection with subscriptions to the IMF do not affect the new budget totals. In the older concepts, certain transactions with the IMF affected the totals.

Definition of receipts.—Seigniorage, representing the difference between the face value and the intrinsic value of coins manufactured, increases the Government's cash without an increase in liabilities and has therefore been a receipt in the administrative budget. It has been excluded from the consolidated cash statement of receipts because it did not come from the public. The new budget similarly excludes seigniorage.

Definition of borrowing.—Both of the older concepts treated the sale of certificates of participation in loans as the sale of an asset, and therefore as a receipt offsetting expenditures in the public enterprise funds concerned. However, the portion of the loan repayments received by the Government and retained for the certificate holders until maturing of the certificates was accounted for in a trust fund. On recommendations of the President's Commission, such sales are now treated as borrowing. Under these circumstances, the repayments on loans collected by the Government are appropriately deposited into Federal funds. The new budget also treats Defense family housing mortgages as a form of borrowing.

Borrowing.—Several of the factors named above also affect the figures on borrowing. The reconciliation of debt oustanding under the three concepts is as follows (in billions of dollars):

Public debt issued by the Treasury 326, 221 347, 031 358, 908 Agency debt issued by authorized agencies (TVA, FHA, etc.), other than participation certificates and trust fund issuances 910 1, 099 1, 333 Portion of above debt held by Federal funds (-)1 2-2, 736 -3, 637 -4, 270 Total net debt outstanding, administrative budget concept 324, 394 344, 493 355, 971 Participation certificates issued to public 6, 119 9, 504 11, 737 Defense family housing mortgages outstanding 2, 034 1, 954 1, 871 Agency debt issued by trust funds to public 7, 821 10, 617 12, 033 Public and agency debt held by trust funds (-)1 -67, 881 -73, 630 -81, 376 Public debt held by the IMF and international lending organizations (-) -3, 328 -2, 937 -2, 237 Total net debt outstanding, unified comprehensive budget concept 269, 160 290, 000 298, 000 Participation certificates and defense family housing above -8, 153 -11, 458 -13, 608 Debt issued in lieu of checks other than to IMF and international lending organizations (-) -8, 153 -11, 458 -13, 608 Debt issued in lieu of checks other than to IMF and international lending organizations (-) -13, 321 -13, 916 -14, 466 Debt issued to public by Federal land banks and Federal home 8, 239 8, 119 10, 979 Public and agency debt held by Federal land banks and Federal home
Agency debt issued by authorized agencies (TVA, FHA, etc.), other than participation certificates and trust fund issuances
than participation certificates and trust fund issuances. Portion of above debt held by Federal funds (-)1
Portion of above debt held by Federal funds (-)¹
Total net debt outstanding, administrative budget concept
Participation certificates issued to public 6, 119 9, 504 11, 737 Defense family housing mortgages outstanding 2, 034 1, 954 1, 871 Agency debt issued by trust funds to public 7, 821 10, 617 12, 033 Public and agency debt held by trust funds (-)1
Defense family housing mortgages outstanding. 2, 034 1, 954 1, 871 Agency debt issued by trust funds to public. 7, 821 10, 617 12, 033 Public and agency debt held by trust funds (—)1 ——67, 881 —73, 630 —81, 376 Public debt held by the IMF and international lending organizations (—) ——73, 328 —2, 937 —2, 237 Total net debt outstanding, unified comprehensive budget concept ——269, 160 290, 000 298, 000 Participation certificates and defense family housing above ——8, 153 —11, 458 —13, 608 Debt issued in lieu of checks other than to IMF and international lending organizations (—) ——13, 321 —13, 916 —14, 466 Debt issued to public by Federal land banks and Federal home 8, 239 8, 119 10, 979 Public and agency debt held by Federal land banks and Federal home
Defense family housing mortgages outstanding. 2, 034 1, 954 1, 871 Agency debt issued by trust funds to public. 7, 821 10, 617 12, 033 Public and agency debt held by trust funds (—)1 ——67, 881 —73, 630 —81, 376 Public debt held by the IMF and international lending organizations (—) ——73, 328 —2, 937 —2, 237 Total net debt outstanding, unified comprehensive budget concept ——269, 160 290, 000 298, 000 Participation certificates and defense family housing above ——8, 153 —11, 458 —13, 608 Debt issued in lieu of checks other than to IMF and international lending organizations (—) ——13, 321 —13, 916 —14, 466 Debt issued to public by Federal land banks and Federal home 8, 239 8, 119 10, 979 Public and agency debt held by Federal land banks and Federal home
Agency debt issued by trust funds to public
Public and agency debt held by trust funds (—)1 — — 67, 881 — 73, 630 — 81, 376 Public debt held by the IMF and international lending organizations (—) — — — — — — — — — — — — — — — — — —
Public debt held by the IMF and international lending organizations (-)
Total net debt outstanding, unified comprehensive budget concept
Total net debt outstanding, unified comprehensive budget concept
Participation certificates and defense family housing above
Participation certificates and defense family housing above
Debt issued in lieu of checks other than to IMF and international lending organizations (-)
Debt issued in lieu of checks other than to IMF and international lending organizations (-)
Debt issued in lieu of checks other than to IMF and international lending organizations (-)
lending organizations (-) -13, 321 -13, 916 -14, 466 Debt issued to public by Federal land banks and Federal home loan banks 8, 239 8, 119 10, 979 Public and agency debt held by Federal land banks and Federal home
Debt issued to public by Federal land banks and Federal home loan banks
banks 8, 239 8, 119 10, 979 Public and agency debt held by Federal land banks and Federal home
Public and agency debt held by Federal land banks and Federal home
loan banks (-) -3,851 -2,100 -2,100
Debt issued for IMF drawings, net of Exchange Stabilization Fund
holdings
Debt issued by trust revolving funds, not included in consolidated
cash computations (-) -93 -91 -104
Public debt held by trust revolving funds not included in consolidated
cash computations 11 12 13
Debt issued by the District of Columbia Armory Board
Public and agency debt held by District of Columbia agencies -65 -70 -73
Total net debt outstanding, consolidated cash concept 252, 773 271, 344 279, 489
1 After adjusting for reclassification of participation sales trust fund.

Financing other than borrowing.—The remaining adjustments in table A-1 that do not affect borrowing (except for those which are self-balancing within table A-1) generally affect either the cash accounts

or the liabilities related to the cash accounts. One item in this group is the accumulation of trust fund balances, which, in conventional administrative budget terms, represent a change in liabilities. In both the consolidated and comprehensive budget concepts, trust fund balances, like the Federal fund balances, are merely a reservation within the total balances on the books of the Treasury that result from the cumulative surplus or deficit.

THE "ADMINISTRATIVE BUDGET"

Table A-3 presents, according to customary classifications, the administrative budget as derived from the adjustments set forth in the preceding tables.

Table A-3. THE "ADMINISTRATIVE BUDGET" (in millions of dollars)

Description	1967 actual	1968 estimate	1969 estimate
RECEIPTS BY SOURCE			
Individual income taxes	61.526	67,700	80,900
Corporation income taxes	33,971	31,300	34,300
Excise taxes	9,278	9,509	9,908
Estate and gift taxes	2.978	3,100	3,400
Customs	1,901	2,000	2,070
Miscellaneous receipts	6.87	5.644	5,669
Interfund transactions	-682	678	-660
Total, administrative budget receipts	115,849	118,575	135,587
EXPENDITURES BY AGENCY			
Legislative Branch	250	285	296
The Judiciary	87	95	101
Executive Office of the President	28	32	33
Funds appropriated to the President	4,141	4,808	4,900
Department of Agriculture	5,741	6,520	7,220
Department of Commerce	757	856	910
Department of Defense—Military	67,664	73,930	76,881
Department of Defense—Civil	1,343	1,401	1,371
Department of Health, Education, and Welfare	10,794	13,156	14,515
Department of Housing and Urban Development.	493	495	1,249
Department of the Interior	1,516	1,542	1,717
Department of Justice	409	443	504
Department of Labor	512	713	712
Post Office Department	1,141	1.087	767
Department of State	414	421	431
Department of Transportation	1,467	1.570	2,093
Treasury Department	14,538	15,493	16,440
Atomic Energy Commission.	2.264	2,333	2.546
General Services Administration	675	648	673
National Aeronautics and Space Administration	5,426	4,805	4,575
Veterans Administration	6,197	6,325	6.818
Other independent agencies	543	804	1,322
Allowances for:			1
Civilian and military pay increase			1,600
Contingencies		100	350
Interfund transactions	-682	-678	-66
Total, administrative budget expenditures	125,718	137,182	147,36
Excess over receipts (+) or expenditures (-)	-9,869	-18,607	-11,77

As in the case of the basic tables of the budget, the amounts shown include transactions under both existing and proposed legislation. The receipts, therefore, include the expected income from the proposed income tax surcharge, as well as lesser amounts from other tax proposals. The expenditures include those to be financed from Federal funds under the President's legislative program, as well as those recommended under existing legislation, and its renewal or extension.

FLOW OF GOVERNMENT-ADMINISTERED FUNDS

In recent years there has been presented in the special analyses of the budget, a consolidated statement of Government-administered funds on a gross basis. This statement presents the flow of moneys between the Federal Government and the public. It has been on a checks-issued basis and its coverage has been substantially the same as the new concept. It excludes borrowing and repayment thereof.

The Commission recommended that the compilation of such gross figures be continued as supplementary information. Table A-4 pre-

sents such a statement.

Table A-4. GROSS FLOW OF GOVERNMENT-ADMINISTERED FUNDS
(In millions of dollars)

(In millions of dollars)			
Description	1967 actual	1968 estimate	1969 estimate
RECEIPTS BY SOURCE	ļ		
Individual income taxes	61,526	67, 700	80, 900
Corporation income taxes	33, 971	31, 300	34, 300
Employment taxes	27, 823	29, 730	34, 154
Unemployment insurance	3, 652	3, 660	3, 594
Premiums for insurance and retirement	1, 853	2, 049	2, 275
Excise taxes	13, 719	13, 848	14, 671
Estate and gift taxes	2, 978	3, 100	3, 400
Customs	1, 901	2,000	2, 070
Other receipts from the public:	,,,,,,,	_,	_•
General and special funds	5, 280	4, 838	5, 070
Public enterprise funds	14, 812	14, 755	16, 542
Trust funds (excluding trust revolving funds)	1, 836	2, 035	2, 291
Trust revolving funds	9, 549	11, 481	13, 238
Trust revolving funds	2, 450	2, 475	2, 630
Total receipts from the public	181, 350	188, 971	215, 135
PAYMENTS BY FUNCTION			
National defense	74, 245	80, 389	83, 979
International affairs and finance	6, 032	6, 334	6, 635
Space research and technology	5, 439	4, 812	4, 589
Agriculture and agricultural resources	18, 859	20, 184	22, 075
Natural resources	3, 920	4, 196	4, 308
Commerce and transportation	12, 953	14, 234	15, 285
Housing and community development	4, 313	6. 370	5, 897
Health, labor, and welfare	39,017	45, 311	50, 419
Education		4, 702	4, 879
Veterans benefits and services	7, 937	8, 195	8, 405
Interest	10, 561	11. 147	11.655
General government	2, 709	2. 803	3, 015
Allowances for:	2, 107	2,00	2,012
Civilian and military pay increase			1, 600
Contingencies		100	350
Total payments to the public	190, 173	208, 775	223, 090
Excess of payments (—)	-8, 823	-19, 805	-7,954

It differs from the unified comprehensive budget, only with respect to grossing and netting and the distribution here of the nonfunctional adjustments shown elsewhere. Its deficits are the same. The items which are here grossed may be summarized as follows (in millions of dollars):

Receipts conventionally offset against expenditures:	1967 actual	1968 estimate	1969 estimate
Receipts of public enterprise funds (table C-1)	14.812	14.755	16,542
Receipts of trust revolving funds (table C-5)	9,549	11,481	13,238
Reimbursements to appropriations and other funds:			-
Department of Defense	2,249	2,278	2,432
Other agencies	200	197	198
Other receipts offset against expenditures in the new budget (table			
12)	4,948	4,430	4,617
Total	31,758	33,141	37,027

Table A-4 is not fully comparable to similar information presented in recent budgets (table B-9 in the 1968 budget), because of the following conceptual changes that were set forth earlier in this analysis:

- Definition of borrowing (sale of participation certificates);
- Definition of cash and monetary assets (IMF);
- Timing of payments to international lending organizations;
- Government payments as employer for social security.

COMPARISON OF RESULTS

Table A-5 summarizes receipts, expenditures, and deficits under the new concept, the old administrative budget, the consolidated cash statement, and the flow of funds statement included above.

Table A-5. COMPARISON OF RESULTS UNDER FOUR CONCEPTS
(In millions of dollars)

Description	1967 actual	1968 estimate	1969 estimate
Unified, comprehensive budget:	149,591	155,830	178.108
Receipts Expenditures and net lending	158,414	175,635	186,062
Budget deficit	8,823	19,805	7,954
The "administrative budget": Receipts	115,849	118,575	135,587
Expenditures (including lending)	125,718	137, 182	147,363
Excess of expenditures	9,869	18,607	11,776
"Consolidated cash" statement:	152 506	150 022	101 146
Receipts Expenditures (including lending)	153,596 155,142	158,823 175,981	181,146 188,725
Excess of expenditures	1,546	17,157	7,579
Flow of Government-administered funds: Receipts from the public	181,350 190,173	188,971 208,775	215,135 223,090
Excess of payments	8,823	19,805	7,954

SPECIAL ANALYSIS B

FEDERAL TRANSACTIONS IN THE NATIONAL INCOME AND PRODUCT ACCOUNTS

The budget is designed to serve many purposes:

• It represents a proposed allocation of resources to serve national objectives, between the private and public sectors, and within the public sector;

• It is an economic document which embodies the taxing and spending policies of the Government for promoting high employment, price stability, growth of the national economy, and maintainance of the Nation's balance of payments;

• It sets forth the President's requests to Congress for appropriation action on existing or new programs, and changes in tax legisla-

tion;

• It is a report to the Congress and the people on how the Government has spent the funds entrusted to it in past years.

No single budget concept can completely satisfy all purposes. The budget is designed to provide a unified picture of the Federal Government's finances, while other series—such as the Federal sector of the national income accounts (NIA)—focus on specific areas of concern

for various other purposes.

In past years, the budget document included a special analysis which concentrated on explaining the relationship among the three most widely used measures of Federal financial transactions: (1) the administrative budget, (2) consolidated cash statement (receipts from and payments to the public), and (3) the Federal sector of the national income accounts. In accordance with the recommendations of the President's Commission on Budget Concepts, neither the administrative budget nor the consolidated cash will be utilized as major measures of Federal finances. The relationship between the new budget and these two older concepts is discussed in detail in Special Analysis A.

The budget document and related Treasury reports provide detailed information on the finances of the Federal Government. The national income accounts of the United States are the most widely used measures of aggregate economic activity in the country. This analysis is designed to explain the relationships of the budget to the Federal sector of the national income accounts, and to present the budget

estimates in national income terms.

This analysis is divided into three major sections: (1) the size and trends of major components in the Federal sector; (2) the relationship between the Federal sector and the budget; and (3) definitions of the major categories of the Federal sector.

Trends in Federal Sector Receipts and Expenditures

Total expenditures in the Federal sector accounts budget are estimated to rise by \$13.9 billion between fiscal 1968 and 1969, receipts by \$21.4 billion. As a consequence, the Federal sector deficit will decline by \$7.5 billion, from \$10 billion in 1968 to \$2.5 billion in 1969.

Trends in Federal sector receipts.—Rising levels of economic activity expand the Nation's tax base and provide increased sources of Federal revenues. Between 1952 and 1967, Federal sector receipts more than doubled despite major decreases in tax rates and liberalization of tax provisions. Receipts in the national income accounts increased from \$65.1 billion in fiscal 1952 to \$147.6 billion in 1967. Part of this growth, however, has resulted from increases in social security tax rates and wage ceilings. Consequently, Federal receipts have kept pace with the growth in the economy.

Two major factors account for most of the changes in Federal sector

receipts in 1969:

(1) The level of economic activity.—Personal tax and nontax receipts consist mainly of income taxes and tend to increase as personal income rises. Since income tax rates are progressive, there is a larger than proportional increase in these receipts as more people enter the higher income brackets. Corporate profits taxes, which are closely related to corporate profits, are also influenced by the level of economic activity and the profitability of business corporations. Since business taxes consist mainly of excise taxes on certain goods and services, such as tobacco, alcohol, automobiles, and telephones, they depend largely on the level of purchases of these items. Social insurance contributions expand with the growth in employment and earnings.

(2) Changes in tax rates.—The 1969 budget recommends a 10%

(2) Changes in tax rates.—The 1969 budget recommends a 10% income tax surcharge on individuals and corporations. In addition, contributions for social insurance in fiscal 1969 will be affected by recent legislation which increased the ceiling on wages subject to social security taxes from \$6,600 to \$7,800 beginning January 1, 1968, and which raised the combined employer and employee tax rate from

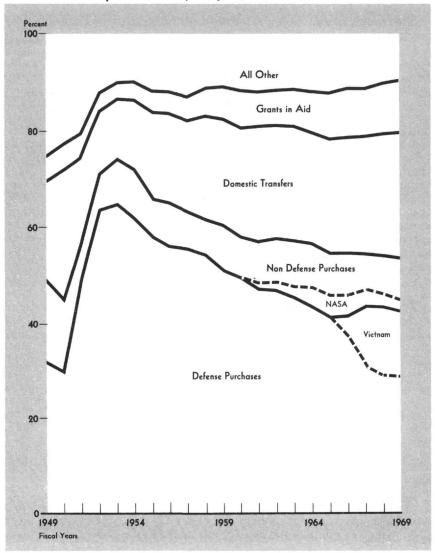
8.8% to 9.6% effective January 1, 1969.

Trends in Federal sector expenditures.—The \$13.9 billion rise in Federal sector expenditures in 1969 compares with increases of \$16 billion in 1968 and \$23.2 billion in 1967. The upsurge in defense purchases, starting with the large-scale commitments of American troops in Vietnam, is expected to continue in the year ahead, but at a much reduced rate. Federal sector expenditures, like receipts, have grown significantly over the past 15 years. The demands of a growing population, an expanding economy, and an unsettled world have resulted in new and expanded Federal programs to meet these needs. Nevertheless, despite a doubling of Federal sector expenditures from 1952 to 1967, about the same proportion of the gross national product was devoted to Federal programs in 1967 as prevailed 15 years previously. This year, Federal sector expenditures will account for 20.9% of the GNP, slightly lower than the 21.1% accounted for 15 years ago.

Significant shifts, however, have occurred among the several categories of expenditures, reflecting world conditions, domestic problems, and basic Government policy. As chart B-1 indicates, the largest proportion of Federal outlays is for national defense purchases of goods

and services, which increased rapidly early in the 1950's due primarily to the requirements of the Korean war. Since that time defense spending as a percent of the total declined to a low point of 7.5% in 1965, and has risen somewhat since as a result of the conflict in Vietnam; they are expected to reach 9.1% of GNP this year, compared with 13.6% in 1953.

Federal Sector Expenditures Major Categories as a Percent of Total



Aside from space, nondefense spending for goods and services has been a very stable proportion of total expenditures. Nondefense purchases have been subject to especially heavy economy efforts recently in order to mitigate inflationary pressures. Expenditures for space exploration have grown rapidly in recent years, rising from \$401 million in 1960 to a high of \$5.9 billion in 1966; they have declined somewhat since then, and are expected to total \$4.6 billion in 1969.

Grants-in-aid reflect Federal efforts to assist State and local governments in meeting pressing domestic needs. Most of the items included in the grants-in-aid category in the Federal sector accounts are also included in the discussion of Federal aids in Special Analysis K of this budget. Table B-1 shows both grants and domestic transfer payments—broken into several major groupings—for the past 10 years.

Table B-1. GRANTS-IN-AID AND DOMESTIC TRANSFER PAYMENTS (In billions of dollars)

	1	Grants-in-aid	ı	Đ	mestic tran	sfer payment	ts.
Fiscal year	Public assistance	Highways	All other	Retire- ment and disability	Unem- ployment insurance	Hospital and sup- plemental medical insurance	All other
1960	2. 1	2.9	1.9	16.5	2. 6		1.5
1961	2.2	2.6	2.1	18. 1	4.0		1.5
1962	2.4	2.8	2.4	20. 1	3.5		1.5
1963	2.7	3.0	2.6	21.9	2.9		1.6
1964	2.9	3.6	3.3	23.1	2.8		1.4
1965	3.3	4.0	3,6	24.3	2.4		1.6
1966	3.5	3.9	5.3	28. 1	2.0		1.7
1967	4. 2	4.0	7.2	29.7	2.0	3. 2	2.8
1968	5. 2	4.3	8,5	32.5	2.4	4.8	3.3
1969	5.8	4.3	9.9	36.4	2.4	5.5	3.6

Domestic transfer payments (which are mainly pensions, unemployment benefits, and veterans benefits) account for the second largest share of total Federal expenditures—an estimated 25.9% in 1969. During the late 1950's there was a rapid decline in expenditures for the GI bill but recent legislation is providing benefits for veterans who were ineligible under the earlier programs, while social security benefits under both retirement and health programs have expanded rapidly in recent years. A significant part of the war on poverty is in the form of transfer payments. In general, the growth of these programs has been the result of efforts to meet the needs of the poor, sick, and elderly—an obligation that our Nation cannot afford to shirk.

Table B-2 shows Federal expenditures as a percent of total GNP, for alternate years, since 1952. These expenditures have been re-

markably stable as a portion of our Nation's economy.

Purchases Domestic All Total Grants. transfer Fiscal year expend-itures in-aid other Nondefense pay-Defense ments NASA Other (1) (1) (1) (1) (1) 0.1 2.5 2.1 2.1 2.2 2.5 2.9 3.1 19.6 12.4 1.4 0.7 2.1 1.5 1.3 20.5 17.0 12.6 9.6 .8 .8 18.9 10.2 4.0 1.1 1.5 1.7 1.7 9.1 2.2 18.4 4.2 1.4 2.4 2.3 19.6 9.3 4.6 1.4 19.1 8.3 4.5 1.6 .8 4.4 1.8 2.2 18.4 7.6 1.6 9.1 5.3 20.9 2.2 .6 1.7 Excluding Vietnam: 17.5 .8 1966_____ 6.8 1.6 1.8 2.1 5.3 17.9 6.4 .6 2.2

Table B-2. FEDERAL SECTOR NIA EXPENDITURES AS A PERCENT OF GNP

RELATIONSHIP OF THE BUDGET TO THE FEDERAL SECTOR OF THE NATIONAL INCOME ACCOUNTS

The national income accounts depict the Nation's current production, income, and spending in separate major categories which are designed to aid understanding of the operations of the economy and to facilitate useful economic analysis. These accounts attempt to include all current income and production activities and do not measure transactions—such as loans—which represent an exchange of assets rather than income or production. Loan transactions have a significant economic impact, affecting both income and output, but they are best analyzed as part of monetary rather than fiscal policy. Special Analysis E (Federal credit programs) and the means of financing statement (p. 61 of the budget) are both designed to facilitate a study of the monetary policy implications of the budget.

Budget outlays are divided into two major segments—the expenditure account and the loan account. All transactions included in the loan account are excluded from the Federal sector, so this discussion will focus exclusively on how the Federal budget expenditure account

relates to the Federal sector account.

Table B-3 shows the major differences between the receipt-expenditure account in the budget and the Federal sector estimates. These differences are explained in the following paragraphs.

Employee retirement.—The Civil Service and Foreign Service retirement programs are financed by employer and employee contributions. Retirement benefits under these programs are recorded as expenditures in the budget and as transfer payments in the Federal sector

¹ Less than 0.05%.

Table B-3. RELATIONSHIP OF THE RECEIPT-EXPENDITURE ACCOUNT TO THE FEDERAL SECTOR NIA (in billions of dollars)

Employer share, employee retirement (grossing). 1.7 1.9 Other netting and grossing. 1.1 1.2 Adjustment to accruals 7.4 8 2.2 Other 1.1 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1		1967 actual	1968 estimate	1969 estimate
Employer share, employee retirement (grossing) 1.7 1.9 Other netting and grossing 1.1 1.2 Adjustment to accruals -4.8 2.2 Other (1) (1) (1) Federal sector, NIA receipts 147.6 161.1 18 EXPENDITURES Total budget expenditures (excludes net lending) 153.2 169.9 18 Employer share, employee retirement (grossing) 1.7 1.9 1.2 Other netting and grossing 1.1 1.2 1.2 Defense timing adjustment 4 .3 1.1 1.2 Dollar expenditures to finance agricultural exports -1.4 -1.7 - Other 1.6 .2 -7	RECEIPTS			
Other netting and grossing 1. 1 1. 2 Adjustment to accruals -4. 8 2. 2 Other (¹) (¹) (¹) Federal sector, NIA receipts 147. 6 161. 1 18 EXPENDITURES Total budget expenditures (excludes net lending) 153. 2 169. 9 18 Employer share, employee retirement (grossing) 1. 7 1. 9 Other netting and grossing 1. 1 1. 2 Defense timing adjustment 4 . 3 Lending in the expenditure account -1. 4 -1. 7 - Dollar expenditures to finance agricultural exports 8 7 - Other 1. 6 . 2 -	Total budget receipts	149.6	155.8	178. 1
EXPENDITURES Total budget expenditures (excludes net lending) 153.2 169.9 18 Employer share, employee retirement (grossing) 1.7 1.9 Other netting and grossing 1.1 1.2 Defense timing adjustment	Other netting and grossing	1. 1 -4. 8	1. 2 2. 2	2.0 1.2 1.1
Total budget expenditures (excludes net lending) 153.2 169.9 18	Federal sector, NIA receipts	147.6	161.1	182. 5
Employer share, employee retirement (grossing) 1.7 1.9 Other netting and grossing 1.1 1.2 Defense timing adjustment 4 .3 Lending in the expenditure account -1.4 -1.7 Dollar expenditures to finance agricultural exports 8 7 Other 1.6 .2	EXPENDITURES	====		
Other netting and grossing 1.1 1.2 Defense timing adjustment 4 .3 Lending in the expenditure account -1.4 -1.7 Dollar expenditures to finance agricultural exports 8 7 Other 1.6 .2	Total budget expenditures (excludes net lending)	153. 2	169.9	182. 8
Federal sector, NIA expenditures 155. 1 171. 1 18	Other netting and grossing Defense timing adjustment Lending in the expenditure account Dollar expenditures to finance agricultural exports	1.1 4 -1.4 8	1.2	2.0 1.2 .4 -2.1 5
	Federal sector, NIA expenditures	155. 1	171.1	185.0

¹ Less than \$50 million.

accounts. The contributions of Government agencies, as employers, to these retirement trust funds are deducted from total budget expenditures since these contributions represent intragovernmental transactions. However, the NIA accounts consider Government payments for employee retirement to be part of the compensation paid to Government employees who, in turn, make their trust fund contributions. Therefore, the Federal sector accounts include the Government's contributions to employee retirement funds in both receipts and expenditures. Likewise, Federal payments on behalf of its employees to the old-age and survivors disability insurance programs are included in Federal sector receipts and expenditures. These adjustments affect total receipts and expenditures equally and thus do not alter the budget surplus or deficit.

Other netting and grossing.—The budget normally counts as receipts only income from taxation or revenues due to the exercise of governmental power to compel. Money received in the course of business type transactions, therefore, are normally shown as offsets against expenditures. For instance, receipts from two major insurance programs operated by the Veterans Administration (National Service Life Insurance and United States Government Life Insurance) are

netted against expenditures in the budget since these programs are voluntary, business-type activities. However, in the NIA the receipts are treated in the same way as receipts from compulsory Government insurance programs. This adjustment also has no impact on the budget surplus or deficit.

Timing adjustments.—At the present time the budget counts receipts when the cash is collected, and most expenditures when the checks are issued to pay the bills. In the NIA receipts are counted when the income is earned or when the transaction giving rise to the receipt occurs, even though the cash may be received at a later point. Accrued expenditures record outlays when the production or work takes place rather than when the payment is made. This permits changes in receipts and expenditures to more accurately reflect the impact of the Government on the economy. Since the accrual concept is followed in the national income accounts receipts, they differ from budget receipts by the amount of estimated accruals which are not collected in the time period covered.

Defense purchases are recorded in the Federal sector at the time of delivery of goods instead of when they are paid for; work in process on fixed-price contracts is counted as change in business inventories. Both the budget and the Federal sector record public debt interest

when it accrues.

Lending.—The loan account in the budget includes only those domestic credit transactions where there are definite requirements for full repayment of the loans, plus all foreign loans made on commercial terms. Those credit programs which do not meet these requirements are included in the expenditure account. The Federal sector, however, excludes not only all lending transactions included in the loan account, but also some credit programs included as expenditures in the budget—such as foreign loans in AID and tobacco and foreign loans in the Commodity Credit Corporation (CCC). Certain credit transactions in the expenditure account—like most CCC nonrecourse commodity loans—are treated as purchases of goods under the national income accounts concept.

Dollar expenditures to finance agricultural exports.—The Commodity Credit Corporation facilitates the export of agricultural products by acquiring the foreign currencies used to pay for such commodities. This expenditure of dollars is included in the budget but excluded from the Federal sector on the ground that it is an exchange of financial assets: dollars for foreign currencies. When the foreign currencies thus acquired are spent, they are then counted as Federal sector expenditures.

Other.—This category includes some of miscellaneous adjustments largely for certain specialized aspects of the national income accounts

such as purchases and sale of land, which are included in the budget but not in the national income accounts. Certain nondefense timing adjustments are included here because of the difficulty in separating them from other adjustment categories included herein. It also includes adjustments for the expenditure of foreign currency acquired as described in the paragraph above.

MAJOR CATEGORIES OF THE FEDERAL SECTOR OF THE NATIONAL INCOME ACCOUNTS

Federal sector receipts.—Federal receipts on a national income basis largely reflect the tax payments or liabilities of individuals and of corporations and other businesses arising out of incomes earned. They also include other tax and nontax receipts. These receipts are classified into the following four categories: (1) personal tax and nontax receipts, (2) corporate profits tax accruals, (3) indirect business tax and nontax accruals, and (4) receipts from contributions for social insurance.

- 1. Personal tax and nontax receipts consist mostly of individual income taxes, estate and gift taxes, fines, fees, and donations.
- 2. Corporate profits tax accruals comprise the Federal tax liability incurred and accrued on corporate earnings during the specified year or period. While the budget treats Federal Reserve payments of earnings to the Treasury as miscellaneous receipts, these are included in the corporate profit tax category in the Federal sector.
- 3. Indirect business tax and nontax accruals consist primarily of excise taxes, customs duties, and Federal receipts from rents and royalties.
- 4. Contributions for social insurance are composed chiefly of payroll taxes for retirement, disability, hospital, and unemployment insurance, plus employer and employee contributions to retirement funds of Federal Government employees and premiums for federally operated veterans and medical insurance programs.
- Table B-4 shows the adjusted receipts and expenditures after reclassification into the national income accounts categories.

Table B-4. FEDERAL RECEIPTS AND EXPENDITURES IN THE NATIONAL INCOME ACCOUNTS (in billions of dollars)

Description	1967 actual	1968 estimate	1969 estimate
RECEIPTS, NATIONAL INCOME BASIS			
Personal tax and nontax receipts	64.6	71.0	83.8
Corporate profits tax accruals	31.4	34.3	37.2
Indirect business tax and nontax accruals	15.9	17.1	18.1
Contributions for social insurance	35.7	38.7	43.4
Total receipts, national income basis	147.6	161.1	182.5
EXPENDITURES, NATIONAL INCOME BASIS			
Purchases of goods and services.	84.5	92.8	99.4
Defense	(67.6)	(74.4)	(78.8)
Nondefense	(16.9)	(18.4)	(20.6)
Transfer payments	39.8	`44.9	49.9
Domestic ("to persons")	(37.7)	(43.0)	(47.9)
Foreign	(2.1)	(1.9)	(2.0)
Grants-in-aid to State and local governments	15.4	18.0	20.0
Net interest paid	10.1	10.7	11.2
Subsidies less current surplus of Government enterprises	5.3	4.6	4.5
Total expenditures, national income basis	155.1	171.1	185.0
Surplus (+) or deficit (-), national income basis	-7.5	-10.0	-2.5

Federal sector expenditures.—Federal expenditures on a national income basis represent either purchases of goods and services or outlays which directly affect current levels of income. These expenditures are classified in the following five categories: (1) purchases of goods and services, (2) transfer payments, (3) grants-in-aid to State and local governments, (4) net interest paid, and (5) subsidies less current surplus of Government enterprises. The definitions of the categories have been developed by the Department of Commerce so that they are consistent with the framework of accounts used to cover all sectors of the Nation's economic activity.

1. Purchases of goods and services measure the value of the Nation's output (i.e., gross national product) bought directly by the Federal Government. Thus, Federal expenditures for goods and services represent the value of output taken by the Federal Government itself.

These purchases include the pay of active military and civilian employees of the Federal Government, employer contributions for retirement, insurance, and other benefits for Federal employees; deliveries of equipment and supplies for defense and other programs; construction put in place for the Government; payments on research and development contracts with corporations and on similar agree-

ments with private nonprofit institutions; expenditures for the purchase of commodities to be donated to schools or similar institutions; and, generally, the administrative expenses of Government programs.

Federal purchases, in turn, are classified in two major subcategories-defense and nondefense. The defense category includes purchases for those activities classified under the defense function of the budget. Purchases for all other types of activities are classified as nondefense.

2. Transfer payments consist of expenditures by the Federal Government for which no current services have been rendered. Examples of transfer payments are: veterans compensation, pensions, and benefits; retired pay to Federal civilian or military personnel; unemployment benefits; old-age, survivors, disability, health, and supplemental medical insurance; and nonrepayable outlays for scholarships and fellowships.

Although transfer payments do not directly enter gross national product as a Federal Government component, they are a part of personal income and are counted as part of national output when respent

by the recipients.

- 3. Grants-in-aid to State and local governments, for purposes of the national income accounts, are Federal payments (other than for interest on the public debt) to State and local governments, including State and local educational institutions. Like transfer payments and net interest paid, Federal grants-in-aid are counted in the GNP when spent by recipients—in this case, as purchases by State and local governments or as consumption expenditures of individuals receiving State or local transfer payments.
- 4. Net interest paid consists of the interest outlays to residents (including State and local governments) minus the interest received from them.

5. Subsidies less current surplus of Government enterprises consists of two elements which are consolidated for statistical reasons: (a) subsidy payments to resident businesses and (b) the "current surplus" or "deficit" of Government enterprises.

- (a) A subsidy is a monetary grant to a private business. By definition, therefore, subsidies are made only to businesses organized for profitmaking purposes (including farms). Examples of subsidies are Government payments to farmers for land retirement, payments to air carriers, and the operating differential subsidy of the Maritime Administration.
- (b) Government enterprise is the term applied to those functions of the Government (usually appearing in the budget as public enterprise revolving funds) for which operating costs are to a great extent covered by the sale of goods and services to the public, as distinguished from those being financed by tax receipts. Government enterprises conduct operations which are of a business-type nature. The difference between their sales and current operating expenses constitutes the surplus or deficit of Government enterprises. The Post Office and the Tennessee Valley Authority are two of the largest enterprises.

SPECIAL ANALYSIS C

PUBLIC ENTERPRISES, TRUST FUNDS, AGENCY BORROWING, AND INVESTMENT

This analysis presents selected information on the financing and operations of the public enterprise funds and the trust funds. Additional tables in this special analysis relating to agency borrowing and to agency investments in U.S. securities are an integral part of the computation of the changes in debt in table 9 (in part 2 of the budget).

PUBLIC ENTERPRISE FUNDS

The public enterprise funds are federally owned funds which carry on a cycle of operations, primarily with the public, organized usually on a business-type basis. Some of them are incorporated enterprises; others are unincorporated. Their outlays have been included, on a net basis, in the budgets and financial reports on Federal funds for many years. The general fund usually supplies them with capital; the provision of such capital, its return, and any dividends given to the general fund are not counted in the budget totals as expenditures, net lending or receipts.

Outlays and receipts.—Gross outlays of public enterprise funds are estimated to be \$30.5 billion in 1969, and their receipts will be \$22.8 billion (table C-1), resulting in net outlays of \$7.7 billion. The Commodity Credit Corporation and the postal fund together account for slightly more than half of the outlays. The figures exclude the effects of proposed legislation to create new funds for certain activities now funded directly by general fund appropriations. The receipts do not include the proceeds of borrowing (either through participation certificates or otherwise), nor do the expenditures include the repayment of borrowing.

The outlays in table C-1 include certain interfund payments to the general fund, principally for interest (see table 12). The receipts shown in table C-1 are generally from the public; but they include some transactions from within the Government—notably, the sales of Commodity Credit Corporation inventories and services to appropriations for special activities, and the short-term loans and repayments resulting from the line of credit extended to the Federal National Mortgage Association secondary market operations fund. The sales of Tennessee Valley Authority power to Government agencies, payments by all agencies to the Post Office for postal services, and interest paid to certain funds on their investments are other examples of such intragovernmental receipts included in table C-1.

Table C-1. GROSS OUTLAYS AND APPLICABLE RECEIPTS OF PUBLIC ENTERPRISE FUNDS (in millions of dollars)

	G	ross outle	ys	Appl	icable rec	eipts
Description	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Funds appropriated to the President:						
Economic assistance	1.137	1,074	1.186	76	85	108
Other	210	400	231	320	362	84
Department of Agriculture:						
Commodity Credit Corporation 1	8,682	7.758	8,090	6.764	4,876	5,233
Farmers Home Administration	1.367	1.672	1.757	1.385	1.771	1.759
Federal Crop Insurance Corporation	28	56	47	35	41	46
Department of Commerce	243	213	213	255	229	238
Department of Defense:						
Military	29	20	27	30	18	13
Civil (Panama Canal Company)	131	148	154	144	153	156
Department of Health, Education, and						
Welfare	18	64	83	15	10	14
Department of Housing and Urban Development:			,			į
College housing loan fund	460	454	461	101	121	134
Urban renewal fund	991	973	1,176	546	473	465
Low-rent public housing fund	416	505	560	148	205	240
Federal National Mortgage Association_	3,015	4,350	2,965	2,385	3,368	2,658
Federal Housing Administration	944	930	1,047	957	972	1,029
Other	262	280	354	18	28	33
Department of the Interior	116	123	113	51	56	61
Department of Labor	279	306	356	282	310	360
Post Office Department	6,468	6,919	7,342	5,326	5,832	6,575
Department of Transportation	23	27	32	20	23	23
Treasury Department	1 1	2	177	!	2	179
General Services Administration	*	*	*	*	*	*
Veterans Administration	821	890	1,035	606	674	733
Other independent offices:						
Export-Import Bank of Washington	1,707	1,760	1,928	1,271	1,188	1,362
Farm Credit Administration	3	1	4	16	12	13
Federal Home Loan Bank Board:	i	1				İ
Federal Savings and Loan Insurance	100	100	-	2/2	44.0	100
Corporation	105	19	7	262	416	406
Other	17	24	22	17	19	21
Small Business Administration	430	557	556	283	383	413
Tennessee Valley Authority	479	529	586	377	420	436
United States Information Agency	3	1	•	3	1	•
Total	28,385	30,061	30,509	21,694	22,049	22,792
Receipts from the public				/14 912	(14 75E)	(16 EA2
Receipts from the public Receipts from other accounts			·		(14,755)	
receipts from other accounts		· ·	.	/(0,002)	(7,294)	J (0,230)

^{*}Less than \$500 thousand.

Includes advances from foreign assistance and special export programs of \$1,509 million in 1967, \$1,198 million in 1968, and \$1,448 million in 1969.

Capital and borrowing.—Capital requirements of the public enterprise funds are usually supplied through budget authority (either appropriations or some other form of such authority) from the general fund. While most public enterprise funds are operated to be self-sustaining over a period of years, the largest—the Commodity Credit

Corporation—has incurred substantial losses in most years. Appropriations have been made regularly to make up for the loss in this fund, the postal deficit, and other losses in a few smaller funds. Contract authorizations have also been provided for the Commodity Credit Corporation and for the urban renewal fund of the Department of Housing and Urban Development. Authorizations to spend debt receipts are used, especially for credit programs. Table C-2 reflects all such new obligational authority.

The return of capital shown here includes the writeoff of unused authority, the return of capital and transfer of dividends to the general fund of the Treasury, net transfers to other accounts, and the repay-

ment of borrowing that is not renewable.

The effect of these capital transactions, together with outlays and receipts, upon the public enterprise fund group may be summarized as follows (in millions of dollars):

Balances, start of year:	1967	1968	1969
Cash and balances in Treasury	8,926	10.823	11,768
U.S. securities	2.394	2.836	4,016
Undrawn authorizations:	_,_,		.,
Contract authorizations	3.815	3,006	3,994
Authority to borrow from Treasury	22,508	25,844	25,509
Authority to borrow from the public	779	1.264	1,601
Additional amounts becoming available:		*,	.,
Budget authority	12,289	11,998	11.817
Applicable receipts	21.694	22,049	22,792
Total available	72,405	77.821	81,496
Application of funds:			
Expenditures and loan disbursements	28,385	30,061	30,509
Return of capital and authority, net of transfers in	248	875	1,209
Balances, end of year:			
Cash and balances in Treasury	10,823	11,768	12,702
U.S. securities	2.836	4,016	4,939
Undrawn authorizations:	-•	- • -	•
Contract authorizations	3.006	3,994	3,644
Authority to borrow from Treasury	25.844	25,509	27,394
Authority to borrow from the public	1,264	1,601	1,100
radione, to solve from the publications			
Total application and balances	72,405	77,821	81,496
• • • • • • • • • • • • • • • • • • • •			

Where the new obligational authority consists of authorizations to expend public debt receipts or appropriations to provide capital, rather than to make up deficits or finance losses, it is customary for the amounts thereof to become interest bearing when used or when credited to the fund.

Upon the creation of new revolving funds, to finance programs previously financed otherwise, capital may also be provided by the transfer of assets, including appropriation balances, into the new fund. Liabilities and obligations are taken over, also.

Minor adjustments in capital occasionally include other transfers to or from appropriations when authorized by law, and the transfer

of real or personal property into or out of a fund.

Table C-2.	BUDGET	AUTHORITY	AND OF	CAPITAL	OF PUBLIC
	ENTE	RPRISE FUND	S (in millior	ns of dollars)	

Description	Budget authority			Return of capital (net of transfer (net			
	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate	
Funds appropriated to the President:							
Economic assistance	920	824	1,280	34	226	28	
Other	75	34	4	-133	(1)		
Department of Agriculture:		1	1				
Commodity Credit Corporation		2,423	3,362	-13	18	29	
Farmers Home Administration	671	750	425				
Department of Commerce				5	2		
Department of Defense-Military		20	12	1		. 1	
Department of Defense—Civil (Panama							
Canal Company)	 				10		
Department of Health, Education, and			ļ		1		
Welfare	316	124	105	-1	*		
Department of Housing and Urban Development:				;			
College housing loan fund	602	1.924	648			}	
Urban renewal fund	740	850	1.250				
Federal National Mortgage Association	1.366	1.237	1.730	177	185	994	
Low-rent housing fund	269	2 305	358	*	*	*	
Other	292	333	303	6	4	10	
Department of the Interior		55	41	Š	3	'2	
			43	,	1		
Department of Labor Post Office Department	1 215	1.174	920	40		-	
Department of Transportation			120			-	
Treasury Department		1		*	1*	32	
General Services Administration		'		*	*		
Veterans Administration		851	527	17	199	1 3	
Other independent offices:	200	051	, ,,,	''	'''	1	
Export-Import Bank	779	865	608	50	50	50	
Federal Home Loan Bank Board		005	000	, ,,	1 70	, ,	
Small Business Administration		153	152		115	-	
Tennessee Valley Authority		61	50	62			
10thicasee valies Addionity	1,004					- 02	
Total	12,289	11,998	11,817	248	875	1,209	

^{*}Less than \$500 thousand.

1 In addition, the \$400 million balance of the foreign military sales fund was transferred from Funds appropriated to the President to the Treasury Department in 1968, for liquidation.

2 Includes \$6 million appropriation made in 1968 for 1967.

Balances available.—The balances of public enterprise funds are shown in table C-3. They are there divided between the balances which are accounted for as assets of the funds, and the undrawn authorizations to obtain capital from the Treasury, to borrow, or (in two cases) to contract in excess of their cash availability.

In most cases, a large part of the balances are obligated or reserved—to pay loan commitments, purchase and construction contracts, or other obligations entered into but on which the other party has not yet required or earned the money. The balances include inactive "standby" authority for loans to the Federal Deposit Insurance Corporation, the home loan banks, and the Federal Savings and Loan Insurance Corporation.

Table C-3. BALANCES OF PUBLIC ENTERPRISE FUNDS (in millions of dollars)

Description	Cash balances in Treasury and U.S. securities as of June 30			Undraw as	izations 30	
Zvanpilon	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Funds appropriated to the President:						
Economic assistance	2, 978	2, 786	2, 960	199		
Other	440	40	8	250	246	135
Department of Agriculture:			_			ł
Commodity Credit Corporation	64	50	50	4, 403	3,940	4, 417
Farmers Home Administration	891	1.434	1, 723	131	261	171
Federal Crop Insurance Corporation	37	22	22		l <u> </u>	
Department of Commerce	32	47	72			
Department of Defense-Military	19	37	35			
Department of Defense-Civil (Panama			1			
Canal Company)	23	19	21	10	10	10
Department of Health, Education, and			1			
Welfare	316	385	420	 		
Department of Housing and Urban De-			1			
velopment:						1
College housing loan fund	87	88	87	1, 109	2, 685	2, 978
Urban renewal fund	1, 270	1, 620	2, 159	3,606	3,606	3,606
Low-rent public housing fund	112	120	154	1,500	1, 496	1,500
Federal National Mortgage Association	163	666	1,019	5, 719	5, 796	6, 477
Other	1, 241	1, 331	1,442	1,295	1,322	1,165
Department of the Interior	22	18	8	14	3	
Department of Labor	309	313	360			
Post Office Department	581	667	820			
Department of Transportation	5	18	18	15	11	3
Treasury Department	*	401	372			
General Services Administration	*	*	*			
Veterans Administration	1, 342	1,800	2, 003	196	85	
Other independent offices:						
Export-Import Bank	116	358	366	6,000	6,000	5,985
Farm Credit Administration	161	165	173			
Loans to Federal Deposit Insurance						
Corporation				3,000	3,000	3,000
Federal Home Loan Bank Board:]			
Loans to Federal home loan banks				1,000	1,000	1,000
Federal Savings and Loan Insurance						
Corporation	1, 733	2, 130	2, 529	750	750	750
Other	1	2] 3	13	8	6
Small Business Administration	975	891	709	330	50	
Tennessee Valley Authority	77	95	104	1, 233	1, 105	935
United States Information Agency	5	6	6	1	*	*
		·	<u> </u>			
Total	12,999	15,508	17,641	30,774	31,374	32,138

^{*}Less than \$500 thousand.

TRUST FUNDS

The trust funds are administered in a fiduciary capacity by the Government. They are not included in the administrative budget totals, and transactions between the general fund and the trust funds are conducted "at arm's length"—that is, payments between them are reported as expenditures and receipts of the funds involved.

Outlays and receipts.—Trust fund outlays are estimated to be \$47.2 billion in 1969, with receipts of \$54.6 billion, as shown in table C-4. The transactions of the Federal old-age and survivors insurance fund are far larger than any other one fund.

Table C-4. OUTLAYS AND RECEIPTS OF TRUST FUNDS
(In millions of dollars)

	Outlays			Receipts		
Description	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Funds to which receipts are appropriated: Federal old-age and survivors insurance trust fund	1,429 2,091 3,973 1,070 970	21,650 2,268 5,064 3,163 1,415 2,133 4,219 1,125 638 602 2,310	24,567 2,617 5,770 3,088 1,376 2,262 4,203 1,330 559 426 990	23,371 2,332 4,373 4,072 1,611 3,105 4,455 1,078 736 277	24,005 2,838 5,751 4,119 1,629 3,452 4,379 1,150 752 380	27,188 3,655 6,827 4,095 1,791 3,638 4,805 1,400 744 416
SubtotalInterfund transactions	39,275 -686	44,587 —641	47,189 -720	45,411 -686	48,455 -641	54,559 -720
Total	38,589	43,946	46,469	44,725	47,814	53,839

When trust funds are consolidated with Federal funds, as in the unified comprehensive budget, appropriate deductions must be made for expenditures and receipts between the two groups of funds. The unified comprehensive budget also offsets some of the above receipts against expenditures.

The trust funds include a small group of trust revolving funds (see table C-5) which, like the public enterprise funds, are stated on a net basis in figures used elsewhere in the budget. The group includes the Federal Deposit Insurance Corporation, the three mixed-ownership enterprises, and several other business-type activities.

Table C-5. TRANSACTIONS OF TRUST REVOLVING FUNDS (In millions of dollars)

	G	ross outle	.ys	Applicable receipts		
Description	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Federal intermediate credit banks	7, 161	8, 531	9, 693	6, 692	8, 067	9,214
Banks for cooperatives	1.898	2, 186	2, 474	1.703	1,944	2.238
Federal National Mortgage Association	1. 288	2,616	1, 351	481	667	761
Civil Service Commission (employees' life	1,200	-,				
insurance and health benefits)	604	960	1, 209	692	1,045	1,300
Federal Deposit Insurance Corporation	19	14	18	258	275	292
All other trust revolving funds	62	65	115	62	64	65
Total trust revolving funds	11,031	14, 370	14, 860	9, 887	12,061	13,870
Receipts from the public						(13,238)
Receipts from other accounts				(338)	(580)	(632)

Balances available.—Trust fund balances, both open book balances with the Treasury and investments in U.S. securities are shown in table C-6. These balances are reserved to carry out the purposes of the trusts.

Table C-6. TRUST FUND BALANCES (in millions of dollars)

	As of June 30						
Description	1966 actual	1967 actual	1968 estimate	1969 estimate			
Federal old-age and survivors insurance trust fund	19,872	23,401	25,756	28,377			
Federal disability insurance trust fund	1,686	1,948	2,518	3,556			
Health insurance trust funds	851	1,813	2,500	3,557			
Unemployment trust fund.	9,300	10,504	11,460	12,467			
Railroad retirement accounts	4,181	4,363	4,577	4,99			
Federal employees retirement funds	16,795	17,811	19,130	20,50			
Highway trust fund	244	725	885	1,48			
Advances, foreign military sales	754	762	787	857			
Veterans life insurance funds	7,061	6,827	6,942	7,120			
Other trust funds:	1		_				
Nonrevolving	815	684	461	450			
Revolving	4,102	4,428	4,773	5,099			
Subtotal	65,661	73.267	79,789	88,475			
Agency debt issuances of trust funds held by other			•				
trust funds (-)		646	550	-450			
Total	65,661	72,621	79,239	88,02			

Note.—The balances shown here cover the amounts on deposit with Treasury, and the U.S. securities held. In addition, certain funds have authority to obligate in advance of receiving moneys, and to borrow from the public. The reconciliation is as follows:

, o, to bottom trom the promot the troublement				
	1966	1967	1968	1969
Balance available on an authorization basis Unfinanced contract authorizations:	78, 801	89, 444	95, 146	102, 990
Highway trust fund	-8,801	-9. 267	-10.049	10, 548
Advances, foreign military sales.	-1,974	-2.376	-2,576	-2,496
Other	-8	-12	-12	-2
Undrawn authorizations to borrow:				
Federal National Mortgage Association	-813	-3,934	-2.508	-2,049
Banks for Cooperatives	-1.267	-1,073	<u>–</u> 878	–648
Federal Intermediate Credit Banks	-661	−380	-349	-393
Unappropriated receipts:				
Available as needed, on an indefinite basis	41	37	25	26
Available for appropriation by Congress:				
Soldiers' Home	108	107	108	108
Highway trust fund	235	721	882	1, 487
Agency debt issuances of trust funds held by other				.,
trust funds		 646	— 550	- 450
Balance available on a cash basis	65, 661	72, 621	79, 239	88, 025
	,	,	. ,	

The trust fund balances are affected by the transactions as follows (in millions of dollars):

	1967	1968	1969
Balances, start of year	65,661	72,621	79,239
Receipts	44,725	47,814	53,839
Agency debt issuances (other than to other trust funds)	824	2,750	1,416
Total available	111,210	123,185	134,494
Outlays	38,589	43,946	46,469
Balances, end of year	72,621	79,239	88,025
Total application and balances	111,210	123,185	134,494

Borrowing

Agency debt.—The Tennessee Valley Authority has authority to borrow \$1,750 million from the public. The Federal Housing Administration has an indefinite authorization to issue short-term debentures in connection with its settlements. The three mixed-ownership trust revolving funds all have authority to issue their own debt instruments. A few funds in liquidation are retiring earlier debt issuances.

Agency borrowing also takes the form of the sale of participation certificates in which buyers are purchasing a share in a pool of Government-owned loans (see Special Analysis E).

Some Government enterprise debt is guaranteed by the Treasury;

some is not formally guaranteed.

Some agency debt is issued to other enterprises or trust funds, rather than to the public, and in some cases another fund may purchase or sell agency debt on the market. Table C-7 separates the agency debt on the basis of net issuances and holdings, as between the public and the Government-administered funds.

Relation to Treasury borrowing.—The Treasury borrowing, often called the "public debt," includes both borrowing from the public and the issuance of debt instruments to trust funds and other Government-administered funds with balances available to invest.

In a number of cases, Government enterprises obtain capital by borrowing from the Treasury, which is usually directed by the law to use the proceeds of public debt receipts (that is, its borrowing) to supply the funds to the enterprise. The enterprise borrowing that takes this form is included in the capital section of the balance sheets in the budget appendix, and is not included in the phrase "agency debt" as used herein.

Table C-7. AGENCY DEBT ISSUANCES, NET (in millions of dollars)

	•	End 1969, estimate		
Description	1967 actual	1968 estimate	1969 estimate	outstand- ing
Borrowing from the public:				
By public enterprise funds:				
Agriculture: Farmers Home Administration 1	419	456	190	1,065
Health, Education, and Welfare:	117	150	1,70	1,003
Office of Education 1	70	68		138
Public Health Service 1	,,	10		100
Housing and Urban Development:		10		, ,
Federal Housing Administration 2	67	57	68	538
	56		54	164
Public facility loans 1		54		
College housing loans 1	419	935	338	1,692
Housing for the elderly 1		40	46	86
Federal National Mortgage Association 1	467	359	713	2,324
Treasury: Federal Farm Mortgage Corporation 2	•	•		
Veterans Administration 1	121	456	341	1,893
Export-Import Bank 1	779	865	608	3,637
Federal Home Loan Bank Board:			Į.	ļ
Home Owners Loan Corporation 2	*	*	*	*
Board revolving fund		5	2	7
Small Business Administration 1	293	143	-57	729
Tennessee Valley Authority	130	130	170	715
By trust funds:		ļ		
Federal National Mortgage Association	360	1,843	690	6,162
Banks for cooperatives	219	240	236	1.547
Federal intermediate credit banks	273	714	490	4,324
By general fund appropriation: Defense family		'''	""	,,,,,,
housing	-77	80	-83	1,872
nonsuig				.,.,.
Total, borrowing from the public	3,596	6,293	3,805	26,902
Borrowing from other funds:				
By public enterprise funds:		ļ	ļ	
Agriculture: Farmers Home Administration 1	181	219	130	530
Health, Education, and Welfare:				
Office of Education 1	30	32		. 62
Public Health Service 1		5		
Housing and Urban Development:		_		
Federal Housing Administration 2	-16	-1	-3	73
Public facility loans 1	24	26	24	7
College housing loans 1	181	450	149	780
Housing for the elderly 1	101	20	20	39
	224	197	351	77
Federal National Mortgage Association 1				
Veterans Administration 1	78	249	178	50
Small Business Administration 1	157	102	44	30
Tennessee Valley Authority	2	—2		-
By trust funds:				
Federal National Mortgage Association	450	100	-100	450
Banks for cooperatives	-28		.	-
Federal intermediate credit banks	196	-242		
Total, borrowing from other funds	1,479	1,155	792	3,59
Total, agency debt issuances 3	5,075	7,448	4,597	30,49

Note .- Excludes borrowing from the general fund. Negative figures represent net retirement of

Note.—Excludes borrowing from the general rund. Negative figures represent net retirement of debt.

*Less than \$500 thousand.

1 Certificates of participation in loans.

2 Guaranteed by the Treasury (except for a small part of the HOLC obligations).

3 In addition, debt of the D.C. Armory Board is guaranteed by Treasury: 1967 actual, \$0; 1968 estimate, \$0; 1969 estimate, \$0; outstanding, end of 1969, estimate, \$20.

INVESTMENTS IN U.S. SECURITIES

The investment transactions of federally administered funds in the securities issued by the Government and its agencies are shown in table C-8.

Table C-8. AGENCY INVESTMENTS IN U.S. SECURITIES (in millions of dollars)

		Transactions		End 1969, estimate
Description	1967 actual	1968 estimate	1969 estimate	outstand- ing
Investment in public debt (issued by Treasury):				
By public enterprise funds:			ı	1
Agriculture: Farmers Home Administration		250	<u>-</u> -	250
Commerce: Maritime Administration	1	1	7	13
Housing and Urban Development:			•••	
Federal Housing Administration	57	91	106	749
Public Housing Administration	-8	-13	246	1 ~4
Federal National Mortgage Association	84	528	349	964
Export-Import Bank	82	-82		
Federal Savings and Loan Insurance Corpora-	212	204	207	2,521
tion	212	396	397	362
Veterans Administration	54	60	60	202
By trust funds:		ļ		i
Federal old-age and survivors insurance trust	3,438	1.934	2,372	25,652
fund	226	323	858	2,870
Federal disability insurance trust fund	220	323	0,0	2,070
Federal supplementary medical insurance trust	479	143	-19	317
fund	406	862	1.070	3.124
Federal hospital insurance trust fund	778	770	917	11.718
Unemployment trust fund	62	-21	254	4.364
Railroad retirement accounts	775	1.134	1,279	20,285
Federal employees' funds	484	186	285	1,193
Highway trust fund	492	57	110	6,726
Veterans life insurance funds	238	265	273	4.120
Federal Deposit Insurance Corporation	1	207 -1	*	45
Bank for cooperatives Federal intermediate credit banks	-1	8	11	128
All other	-32	49	45	166
All other	— <u>- 52</u>	47		
Total, investments in public debt	6,840	6,654	8,382	85,573
Investment in agency debt:				1
By public enterprise funds:	•			1
Public Housing Administration	-3	-1	-3	73
Federal Housing Administration	-12	-51		1 73
Federal National Mortgage Association	- 24	اد –		-}
By trust funds:	*		1	1
Federal National Mortgage Association		58	75	392
Veterans Administration	260	30	13	92
Federal hospital insurance trust fund	92	248	159	711
Federal old-age and survivors insurance trust fund	304	240	159	469
Federal disability insurance trust fund	70 379	173	84	636
Unemployment trust fund	304	248	159	710
Civil service retirement and disability fund	111	240	159	510
Railroad retirement accounts				
Total, investments in agency debt 1	1,479	1,155	792	3,594
Total, agency investments in U.S. securities	8,319	7,810	9,173	89,167

Note.—Negative figures represent net reduction of investments.

*Less than \$500 thousand.

¹ Excludes purchases of securities of the privately-owned Federal land banks and Federal home loan banks. Such purchases are treated as a part of net lending to private enterprises.

SPECIAL ANALYSIS D

INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS

The United States, unlike some other governments, includes in its budget those outlays which are for "capital" or investment-type activities on the same basis as other or "current" activities and costs. Nevertheless, for a complete understanding of budget programs and levels, it is useful to recognize a distinction between those outlays which yield benefits over a period of years and those providing benefits largely in the year in which they are made. Special Analysis D presents the budget data in a manner that makes this distinction, covering both Federal funds and trust funds.

In dividing budget outlays (i.e., including the expenditure account and the loan account) according to their character, two basic break-

downs are used:

First.—Investment-type outlays are considered to be (1) those which add to the financial or physical assets of the Federal Government or add to State, local, and private assets and (2) those which are for "intangible" investments or developmental purposes, such as education, training, health, and research and development. All other outlays are considered as mainly for current operations; they are divided among current expenses for aids and special services, retirement and social insurance benefits, and other services and current operating expenses. (In addition, some outlays which cannot be properly categorized are left "unclassified.")

Second.—In each category, outlays for national defense purposes are reported separately from those for all other, i.e., civil programs; this separation highlights both (1) the difficulty of definition—e.g., whether to treat military outlays such as procurement of "hardware" as additions to assets—and (2) the basic difference in nature between most

military and civil programs.

The combination of Federal funds and trust funds in tables D-1 and D-2, in accordance with the new budget concepts used throughout the 1969 budget, inflates certain of the figures because payments between Government funds and accounts have the effect—over the long run—of causing certain outlays to be counted twice; therefore, a deduction is made at the end of the table to remove the double counting for interfund and intragovernmental transactions. A second deduction is required under the new concept for receipts from the public which are business-type or market-oriented in character, and which are therefore applied against expenditures.

Summary.—Excluding outlays for national defense, \$31.4 billion of estimated outlays in 1969 are for activities which will directly or indirectly promote future gains in productivity and economic growth.

Description	1964 actual	1967 actual	1968 estimate	1969 estimate
Additions to Federal assets:				
Loans and other financial investments	1.5	6.2	8.1	5.4
Major commodity inventories	4	-1.2	9	1.1
Other	3.0	3.2	3.1	3.1
Additions to State, local, and private assets	5.1	5.7	6.6	6.9
Developmental outlays:				Ì
Education, training, and health	1.6	6.2	7.9	8.8
Research and development:				
National Aeronautics and Space Administration	3.7	5.1	4.6	4.5
Other	1.4	1.9	2.2	2.4
Other developmental outlays	.1	.2	.3	.3
Total	16.2	27.3	31.9	31.4

Additions to Federal civil assets are estimated at \$8.6 billion in 1969. This includes \$5.4 billion in loans and financial investments for housing, farming, small business, and other purposes. It also includes \$3.2 billion for physical assets of various types—such as civil public works, major equipment, and commodity inventories. Another \$6.9 billion of budget outlays in 1969 will help finance

Another \$6.9 billion of budget outlays in 1969 will help finance additions to State, local, and private assets such as highways, hospitals, schools, conservation projects, and a variety of public facilities.

Developmental outlays for civil purposes are estimated at \$16 billion in 1969, compared with \$13.5 billion in 1967 and \$6.8 billion in 1964. Thus, the 1969 budget continues a trend begun several years ago toward emphasizing investment in human resources and scientific research and development. No less important than investment in physical assets, this type of investment helps promote the long-run growth of the Nation by expanding knowledge, enhancing occupational skills, increasing productivity, and encouraging technological development. Outlays for civil education, training, and health programs will be \$8.8 billion in 1969. Another \$6.9 billion will be for scientific research and development (including \$4.5 billion for space programs), representing a major source of funds for all such activities undertaken in the United States.

OUTLAYS OF AN INVESTMENT NATURE

Outlays of an investment nature are divided into three categories: (1) additions to Federal assets; (2) additions to State, local, and private assets; and (3) developmental outlays.

Additions to Federal assets.—This category comprises additions to both financial and physical assets of the Federal Government.

The financial assets consist mainly of direct loans—for example, loans to finance private housing construction and encourage homeownership, to help small businesses, to finance college dormitory construction, to aid farm ownership and operation, to finance rural electric and telephone systems, and to promote economic development abroad. All Federal financial assets are covered, both loans and other financial

investments which have been classified under the new budget concept in the expenditure account as well as loans in the loan account. (The specific distinction between the two types of loans is presented and discussed in Special Analysis E.) Other financial investments include the capital provided for certain international organizations and for supersonic aircraft development.

Additions to physical assets include expenditures for public works, such as dam construction, flood control projects, and Federal power systems. They also include changes in major commodity inventories and outlays for major equipment (including military equipment) and for the acquisition and improvement of real property and other phys-

ical assets.

Table D-1. SUMMARY OF INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (in millions of dollars)

	1967 actual	1968 estimate	1969 estimate
INVESTMENT-TYPE OUTLAYS			
Additions to Federal assets: Civil:			
Loans and other financial investments	6,207	8,062	5,398
Major commodity inventories	-1,230	-859	52
Other	3,173	3,094	3,102
National defenseAdditions to State, local, and private assets:	21,993	23,743	24,242
Civil	5.721	6,649	6.905
National defense.	11	11	12
Developmental outlays:			ł
Civil	13,456	14,950	15,951
National defense.	8,923	9,063	9,702
Subtotal, investment-type outlays:			
Civil	27,325	31,896	31,408
National defense	30,927	32,817	33,956
CURRENT OUTLAYS			
Current expenses for aids and special services:			
Civil	23,156	24,148	25,301
National defense	1,841	1,737	2,006
Retirement and social insurance benefits—civil	29 ,048	33,430	37,783
Other services and current operating expenses:			
Civil:	13,524	14,497	15,349
Other	4,208	4,606	4.779
National defense	39.030	43,427	45.478
	J9,0J0	47,421	75,770
UNCLASSIFIED ITEMS			
Payments to other funds	657	573	663
Allowances:			
Civilian and military pay increase			1,600
Contingencies		100	350
Undistributed intragovernmental payments:	1 725	1 012	2 007
Government contribution for employee retirement (-)	-1,735	-1,913	-2,007 -3,017
Interest received by trust funds (-)	-2,268 $-2,585$	-2,639 $-2,863$	-3,017 -3,217
Interfund and intragovernmental transactions (-)	-2,363 -4,713	-2,003 -4,181	-4,375
Applicable receipts from the public (-)	-4,713	-4,101	-7,575

Additions to State, local, and private assets.—Federal outlays under this heading add to State, local, and private assets. Grants-in-aid which augment the physical assets of State and local governments are primarily for the construction of highways (mainly through the highway trust fund), hospitals, airports, waste-treatment works, watershed protection projects, schools in federally affected areas, and public facilities under regional economic development programs for depressed regions.

Outlays which increase the value of privately owned assets are largely for the conservation and improvement of private farmland and water, for grants for construction of private nonprofit hospitals and other health facilities, and for construction subsidies to the merchant

fleet.

Developmental outlays.—Federal outlays of this type are principally for research and development, education and health, and other programs which increase the Nation's fund of knowledge and technical skills and improve the physical vigor of the population. The total of Federal outlays shown in this category does not fully reflect the Government's contribution to the productivity of the economy, since it excludes loans and additions to physical assets, as well as certain other programs which further this end. The latter are classified in accordance with their principal purpose; thus, veterans educational benefits are listed as veterans aids rather than as developmental outlays. Similarly, the training of military personnel or other Government personnel is treated as an operating expense and not as part of the Government's education and training programs.

OUTLAYS OF A CURRENT NATURE

Outlays of a current nature are divided into the following categories: (1) current expenses for aids and special services, (2) retirement and social insurance benefits, and (3) other services and current operating expenses.

Current outlays for aids and special services.—Outlays classified under this heading provide aids or special services to certain groups—mainly in the year in which the outlays are made. In addition to such items as realized losses of the Commodity Credit Corporation on its farm programs, maritime operating subsidies, veterans pensions, and grants to foreign nations for economic and military assistance, this category includes (1) administrative and other operating expenses attributable to investment-type programs which benefit specific groups, and (2) the costs of maintaining the physical assets related to those programs.

Only part of the Federal Government's aid to special groups is reflected in this classification, which is limited by definition to current expenses. For example, subsidies for the construction of private merchant ships are classified as additions to private assets. Similarly, outlays for which the Federal Government receives assets or collateral (as the acquisition of farm commodities by the Commodity Credit Corporation) are treated as additions to Federal assets. Many indirect Government aids are excluded from this classification either because

they are not reflected in outlays or cannot be readily measured. Examples of such indirect benefits include low interest rates on some

loans and certain preferential tax treatments.

Although outlays in this category essentially provide a direct aid or special service yielding immediate benefits, some of the items included contribute indirectly to the Nation's future development. Among these are grants for slum clearance and urban renewal.

Retirement and social insurance benefits.—This category applies only to trust funds. It covers benefit programs which (1) are financed from special taxes or contributions and (2) provide insurance against the loss of income due to unemployment, retirement, disability, or death. It does not include outlays for Government employees' health and life insurance expenditures which are in the form of premium payments to approved companies.

Other services and current operating outlays.—The outlays reported under this heading support a wide range of activities. They consist mainly of: pay and subsistence of military personnel; repair, maintenance, and operation of physical assets of the national military establishment and general purpose public buildings; conduct of foreign affairs; tax collection; payment of interest on the national debt; and operation and administration of other direct Federal programs not elsewhere classified.

UNCLASSIFIED

Certain transactions cannot be properly classified into any of the categories described above. The major examples of such transactions include special allowances for (1) the second stage of the pay increase enacted in 1967 for Government personnel and (2) unforeseen contingencies. They also include transactions which occur entirely within Government accounts and which therefore do not result in any flow of funds between the public and the Government. In addition, under the new budget concept, receipts from the public arising from market-oriented or business-type activities of the Government are applied against outlays to highlight the *net* impact of the budget.

RELATIONSHIP TO CAPITAL BUDGET

The U.S. Government does not produce a capital budget in the sense of a long-range program for the acquisition of assets, with separate financing of capital outlays. Some foreign governments and some State and local governments fund a portion of their capital expenditures by separate borrowing and exclude most or all such expenditures from their computation of budget totals, except for annual charges to amortize these capital outlays over a number of years.

While not a precise measure of the difference between capital and current items, this analysis does provide useful general magnitudes. However, it does not make any allowance for depreciation and obsolescence on existing physical assets, anticipated losses on loan programs, or profit or loss on sales of assets at figures different from their book value, although agencies record such allowances for transactions only

where the data will serve program and management needs, as in the case of the public enterprise funds. As a result, it is not possible to determine directly from this analysis the net addition to the value of federally owned assets.

Recoverability of outlays.—In general, Government outlays for assets are not expected to be recovered by specific revenues. However, most loans, investment in commodity inventories, the construction of powerplants, and outlays for range and forest improvements on public domain and national forest lands are offset in whole or in part by receipts to the Treasury through repayments and sales, specific charges, or recoveries. Where activities are carried on through revolving funds, such as in the case of most loan programs, receipts are credited directly against disbursements and only the difference is included in the total of outlays in the budget and in this analysis. All other receipts from the public arising from market-oriented or business-type activities of the Government are offset against total outlays.

Whether recovered by specific revenues or not, investment and developmental outlays for both physical and human capital add to the wealth and income of the Nation and, by helping to expand the tax base, augment the Government's potential future revenues. However, this analysis does not attempt to measure the degree of recoverability of developmental outlays, the potential gain in public revenues which will be forthcoming from them, nor the duration of future benefits and their discounted present value.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS
(In millions of dollars)

1967 actual	1968 estimate	1969 estimate
600 232	157 278	-546 360
		_9 _14
42	24	
14		-3 21 -2
	•	
23 -9	29 8	36 -7
41	75	73 27
. 7		
		5 45
	600 232 4 18 42 14 * 23 9	-600 157 232 278 4 -29 -18 -79 42 -24 14 36 * -4 23 29 -9 -8 41 75 7 20 124 5

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

		1	<u> </u>
Description	1967 actual	1968 estimate	1969 estimate
Investment-Type Outlays—Continued			
ADDITIONS TO FEDERAL ASSETS—Continued			
Loans—Continued			
Civil—Continued			
To domestic private borrowers—Continued			
Department of Health, Education, and Welfare—Con. Social Security Administration:			
Federal old-age and survivors insurance trust fund	114		-114
Federal disability insurance trust fund	74		74
Other trust funds	15		-15
Other	3	4	4
Department of Housing and Urban Development:		İ	i
Renewal and housing assistance:		!	
College housing loans	163	142	116
Housing for the elderly or handicapped	77	89	98
Other	5	17	19
Mortgage credit:			l
Federal Housing Administration fund	17	62	[113
Federal National Mortgage Association:			
Management and liquidating functions	421	367	52
Special assistance functions	109	639	410
Participation sales fund	147		-179
Secondary market operations trust fund	831	2,012	643
Other	4	2	
Department of Labor: Unemployment trust fund	114		-114
Veterans Administration:	£2	44	82
Veterans direct loans	53 217	66 246	28
Loan guarantee revolving fund	133	55	20 -15
National service life insurance trust fund	82	-2	-85
Other	4	5	-0
Civil Service Commission (trust fund)	114	1	-114
Farm Credit Administration:	114		
Banks for cooperatives trust fund	193	249	23
Federal intermediate credit banks trust fund	478	500	53
Federal Home Loan Bank Board	44	-8	-20
Railroad Retirement Board (trust fund)	114	"	-11
Small Business Administration:	•••		1
Disaster loan fund	-6	36	13
Business loan and investment fund	74	78	11/
Other agencies	45	20	
Total, to domestic private borrowers, civil	3,534	5,077	1,84
T 0:			
To State and local governments:	-	24	3(
Department of Commerce: Economic development	7	24	, ,
Department of Health, Education, and Welfare:	38	148	150
Higher educational activities	59		1 1
Other Department of Housing and Urban Development:	29	15	1
			ł
Renewal and housing assistance: Urban renewal fund	58	1	12
College housing loans	199	174	14
Other	117	20	_i
Metropolitan development:	- ''	1 20	'
Public facility loans	56	41	50

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Investment-Type Outlays—Continued			
ADDITIONS TO FEDERAL ASSETS—Continued			
Loans—Continued Civil—Continued To State and local governments—Continued			
General Services Administration: General Services Administration credit sales	2 4	-44 -2	-40
Other Loans to District of Columbia	20	17	64
Other agencies.	21	19	12
Total, to State and local governments, civil	473	411	416
To foreign borrowers: Funds appropriated to the President: Economic assistance_ Department of Agriculture: Commodity Credit Corpora-	1,147	1,041	1,163
tion: Credit sales, Public Law 480	153	428	680
Export-Import Bank of Washington	540	716	675
Total, to foreign borrowers, civil	1,840	2,184	2,518
Total, loans, civil	5,847	7,673	4,778
National defense: To domestic private borrowers: other agencies	-3	-2	
To foreign borrowers: Funds appropriated to the President: Military assistance Other agencies		-20	. 11
Total, to foreign borrowers, national defense		-20	17
Total, loans, national defense	-3	-22	14
Total, loans	5,844	7,651	4,792
Other financial investments—civil: Investments in quasi-public institutions, trust funds, and international institutions:			
Funds appropriated to the President: Economic assistance	61	54	4
Inter-American Development Bank	54	88	120
International Development Association	106	125	8
Other	10	10	Ĭ
National Mortgage Association.	Ì	20	2
Department of Transportation: Civil supersonic aircraft. Other agencies	145 —17	100 8	35 -1
Total, investments in quasi-public institutions, trust funds and international institutions	360	389	62
Public works—sites and direct construction: Civil:			
Department of Agriculture:			_
	30	27	2
Forest protection and utilizationForest roads and trails	70	94	

¹ Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Investment-Type Outlays—Continued			
ADDITIONS TO FEDERAL ASSETS—Continued			
Public works—sites and direct construction—Continued Civil—Continued			
Department of Defense—Civil:			
Corps of Engineers:			
Construction, general	974	942	854
Trust funds	60 23	55 26	46
Other 1	10	23	2
Other 1			
Health Service and other 1	46	68	91
Department of the Interior:			
Bureau of Indian Affairs: Construction	41	38	35
Other	16	20	20
National Park Service:			
Parkway and road construction	32	32	34
Other 1	20	22	17
Bureau of Reclamation:	102	145	170
Construction and rehabilitation	182 44	165 40	179
Other Bonneville Power Administration:	75	6	1 7
	10.4		
Construction	104	113	115
Other 1Other	2 40	2 37	35
Post Office Department	43	42	88
Department of Transportation:			•
Coast Guard: Acquisition, construction, and improvements_	29	34	70
Federal Aviation Administration	62 *	79	103
Other	239	3 214	17
National Aeronautics and Space Administration.	289	160	7
Veterans Administration: Hospitals and other	60	59	6
Tennessee Valley Authority	183	249	263
Other agencies	122	114	103
Total, public works, civil	2,752	2,706	2,60
National defense:			
Department of Defense—Military	1,601	1,623	1,53
Atomic Energy Commission	130	161	24
Total, public works, national defense	1,731	1,784	1,78
Total, public works, sites and direct construction	4,483	4,489	4,39
Major commodity inventories:			
Department of Agriculture: Commodity Credit Corporation. Department of the Interior: Helium fund	-1,253 23	-884 26	3 2
Total, major commodity inventories, civil	-1,230	-859	5
National defense: Other agencies	9	12	
Total, major commodity inventories	-1,221	-847	6
*Less than \$500 thousand,			

^{*}Less than \$500 thousand,

1 Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Investment-Type Outlays—Continued			
ADDITIONS TO FEDERAL ASSETS—Continued			
Major equipment:			
Civil: Post Office Department	55	127	118
Department of Transportation:		12,	
Coast Guard	72 1	66	65
Other agencies	36	38	31
Total, major equipment, civil	163	231	218
National defense:			<u> </u>
Department of Defense—Military 1	19,498	21,295	21,785
Atomic Energy Commission	152	150	165
Total, major equipment, national defense	19,650	21,445	21,950
Total, major equipment	19,813	21,675	22,168
Other physical assets—acquisition and improvement:			========
Civil:	E.4	57	40
Department of Agriculture 1 Department of Housing and Urban Development	54 149	57	60 120
Department of the Interior:			
Land and water conservation	40 42	41	79
Other Veterans Administration	-8	-29	-21
Other agencies 1	-19	5	6
Total, other physical assets, civil	258	157	277
National defense: Atomic Energy Commission	606	524	488
Total, other physical assets—Acquisition and improve-	9/4	490	765
ment	864	680	/03
Total, additions to Federal assets	30, 144	34, 038	32, 796
ADDITIONS TO STATE, LOCAL, AND PRIVATE ASSETS			
State and local assets:			
Civil: Funds appropriated to the President:			
Appalachian regional redevelopment programs		. 127	219
Public works acceleration	19	12	
Department of Agriculture:	54	60) ff
Watershed protection Rural water and waste disposal grants		27	3
Other	29	24	_
Department of Commerce: Economic development:			124
Development facilities and other	20 40	99	139
Appalachian development highway system Department of Defense—Civil: Corps of Engineers	12	26	6
Department of Health, Education, and Welfare:			
Office of Education:			
*** 1 1 .* 1 .* ***	136	207	
Higher educational activitiesSchool assistance in federally affected areas	39	22	1 19

^{*}Less than \$500 thousand,
1 Includes both Federal funds and trust funds,

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Investment-Type Outlays—Continued			
ADDITIONS TO STATE, LOCAL, AND PRIVATE ASSETS—Continued			
State and local assets—Continued Civil—Continued			
Department of Health, Education, and Welfare—Continued Public Health Service:			
Hospital construction activities	91	104	95
Construction of health educational facilities	21	63	65
Community mental health resources support	4	25	25
Other education and health	26	48	26
Department of Housing and Urban Development:			1
Renewal and housing assistance: Grants for neighborhood facilities	1	15	32
Metropolitan development:		1,5	J.
Open space land programs	19	60	60
Grants for basic water and sewer facilities	6	90	130
Urban mass transportation	41	96	144
Other metropolitan development			3
Department of the Interior:		-,	
Land and water conservation	22	56 112	74 154
Construction grants for waste treatment works and other.	85 9	16	28
Other Department of Transportation:	7	10	20
Federal Aviation Administration.	64	58	73
Federal Highway Administration:	٠.	30	1
Highway trust fund	3,951	4,191	4,171
Forest highways	28		
State and community highway safety programs		26	70
Other 1	11	2	1 6
Other agencies 1	*	4	27
Total, State and local assets, civil	4,797	5,630	5,939
National defense: Other agencies 1	10	10	12
Total, State and local assets	4,807	5,640	5,952
Private assets—civil:			
Department of Agriculture:			
Soil conservation	141	144	143
Agricultural stabilization and conservation	420	440	416
Other 1	-7	-4	-4
Department of Commerce: Merchant ships	82	86	71
Department of Health, Education, and Welfare:	50	00	
Office of Education: Higher educational activities	58	89	61
Public Health Service:	0	25	25
Construction of health educational facilities	8 112	104	117
Grants for construction of health research facilities	37	37	37
Other education and health	13	17	22
National Science Foundation	58	60	52
Other agencies	2	21	25
Total, private assets, civil	924	1,019	966

^{*}Less than \$500 thousand.

1 Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dellars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Investment-Type Outlays—Continued			
ADDITIONS TO STATE, LOCAL, AND PRIVATE ASSETS—Continued			
Private assets—Continued National defense: Atomic Energy Commission trust fund	1	i	,
Total, private assets	925	1,020	967
Total, additions to State, local, and private assets	5,732	6,660	6,918
DEVELOPMENTAL OUTLAYS			
Education, training, and health: Civil:			
Funds appropriated to the President:			
Economic opportunity program	838	1,066	1,23
Appalachian regional development		1	
Department of Agriculture: Extension service 1	93	90	9
Elementary and secondary educational activities	1,266	1,423	1,40
School assistance in federally affected areas	400	341	38
Higher educational activities	250	422	55
Vocational education	166	188	18
Libraries and community services	33	78	12
Defense educational activities	202	182	
Educational improvement for the handicapped	24	34	5
Education professions development activities			5
Salaries and expenses	36	38	4
Other	33	53	7
Public Health Service	*	72	11
Comprehensive health planning and services	61	73	9
National Institutes of Health	93	122	
Indian health activities	73	79	9
Health manpower education and utilization	í	47	g
Chronic diseases	60	57	ĺ
Community health services	65	43	5
Air pollution	14	29	2
Communicable diseases	22	35	1 2
Community mental health resources support	*	15	1 2
Other 1	211	192	15
Social and Rehabilitation Service:			
Grants to States for public assistance and medical	1,173	1,761	2.12
assistance Grants for rehabilitation services and facilities	207	298	36
Grants for maternal and child health and welfare	179	214	24
Rehabilitation research and training.	31	40	1 2
Social services demonstrations training and projects	21	10] 3
Other	24	34	1 4
Other 1	23	40	6
Department of the Interior:			}
Bureau of Indian Affairs: Education and welfare	96	95	12
Other	. 8	13	'i
Department of Labor: Manpower Administration:	·	'	1
Manpower development and training	275	444	43
Other	27	31	3

^{*}Less than \$500 thousand.
1 Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Other agencies	Description	1967 actual	1968 estimate	1969 estimate
Education, training, and health—Continued Civil—Continued National Science Foundation 136 145 56 145	Investment-Type Outlays—Continued			
National Science Foundation	DEVELOPMENTAL OUTLAYS—Continued			
National Science Foundation				ļ
Other agencies		***		
National defense: Atomic Energy Commission		• • •		15
Total, education, training, and health	Total, education, training, and health, civil	6, 163	7,849	8,75
Research and development: Civil: Funds appropriated to the President: Economic opportunity program	National defense: Atomic Energy Commission	18	17	1
Funds appropriated to the President:	Total, education, training, and health	6, 181	7,866	8,76
Funds appropriated to the President:				
Economic opportunity program				
Other 9 10 Department of Agriculture: Agricultural Research Service 137 141 Cooperative State Research Service 36 58 Forest Service 38 39 Other 1 22 22 Department of Commerce: 38 44 National Bureau of Standards 26 25 Other 38 44 Department of Health, Education, and Welfare: 66 84 Office of Education: Research, training, and other 66 84 Public Health Service: 84 120 National Institutes of Health 795 841 9 Air pollution 16 24 120 Other 94 120 1 Social and Rehabilitation Service: 21 21 21 Rehabilitation research and training 21 21 21 Other 15 22 2 Other 30 34 34 Federal Water Pollution Control Administration <		35	53	5
Ågricultural Research Service. 137 141 Cooperative State Research Service. 56 58 Forest Service. 38 39 Other 1 22 22 Department of Commerce: 38 44 National Bureau of Standards 26 25 Other. 38 44 Department of Health, Education, and Welfare: 66 84 Office of Education: Research, training, and other. 66 84 Public Health Service: 795 841 9 Air pollution. 16 24 Other. 94 120 1 Social and Rehabilitation Service: 84 120 1 Rehabilitation research and training. 21 21 21 Other. 10 11 11 Department of the Interior: 32 34 Geological Survey. 32 34 Bureau of Mines 1. 30 34 Federal Water Pollution Control Administration 15 30		9	10	1
Cooperative State Research Service		127	141	
Forest Service	Agricultural Research Service			14
Other ¹ 22 22 Department of Commerce: 26 25 National Bureau of Standards 26 25 Other 38 44 Department of Health, Education, and Welfare: 66 84 Office of Education: Research, training, and other 66 84 Public Health Service: 84 120 National Institutes of Health 795 841 9 Air pollution 16 24 120 Other 94 120 1 Social and Rehabilitation Service: 84 120 1 Rehabilitation research and training 21 21 22 Other 15 22 0 Other 10 11 11 Department of the Interior: 32 34 34 Geological Survey 32 34 34 Bureau of Mines ¹ 30 34 34 Federal Water Pollution Control Administration 15 30 30 O				6
National Bureau of Standards 26	Other 1			2
National Bureau of Standards 26	Department of Commerce:	22	22	4
Other 38 44 Department of Health, Education, and Welfare: Office of Education: Research, training, and other 66 84 Public Health Service: 795 841 9 National Institutes of Health 795 841 9 Air pollution 16 24 120 1 Social and Rehabilitation Service: 8 120 1 Rehabilitation research and training 21 21 21 Other 15 22 1 Other 10 11 1 Department of the Interior: 32 34 34 Geological Survey 32 34 34 Federal Water Pollution Control Administration 15 30 30 Other 1 72 95 1 Department of Transportation: 46 44 44 Federal Aviation Administration: 46 44 44 Federal Highway Administration: 17 44 National Aeronautics and Space Administration <td< td=""><td>National Bureau of Standards</td><td>26</td><td>25</td><td>2</td></td<>	National Bureau of Standards	26	25	2
Department of Health, Education, and Welfare: Office of Education: Research, training, and other				4
Office of Education: Research, training, and other Public Health Service:	Department of Health, Education, and Welfare:	30	• • •	'
Air pollution 16 24 Other 94 120 1 Social and Rehabilitation Service: Rehabilitation research and training 21 21 Other 15 22 Other 10 11 Department of the Interior: 32 34 Geological Survey 32 34 Bureau of Mines 1 30 34 Federal Water Pollution Control Administration 15 30 Other 1 72 95 1 Department of Transportation: 46 44 Federal Aviation Administration: 46 44 Federal Highway Administration: Highway trust fund 23 27 Other transportation 1 17 44 National Aeronautics and Space Administration 1 5,131 4,641 4,4 Veterans Administration 209 240 2 Other agencies 1 61 73 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3	Office of Education: Research, training, and other Public Health Service:	66	84	9
Other 94 120 I Social and Rehabilitation Service: Rehabilitation research and training 21 21 Other 15 22 Other 10 11 Department of the Interior: 32 34 Geological Survey 32 34 Bureau of Mines 1 30 34 Federal Water Pollution Control Administration 15 30 Other 1 72 95 1 Department of Transportation: 46 44 44 Federal Highway Administration: 46 44 44 Federal Highway Administration: Highway trust fund. 23 27 Other transportation 1 5,131 4,641 4,4 Veterans Administration 44 45 National Science Foundation 209 240 2 Other agencies 1 61 73 Total, research and development, civil. 7,057 6,819 6,8 National defense: Department of Defense—Military: 325	National Institutes of Health	79 5	841	90
Social and Rehabilitation Service: Rehabilitation research and training	Air pollution	16	24	5
Rehabilitation research and training	Other	94	120	11
Other 15 22 Other 10 11 Department of the Interior: 30 34 Geological Survey 32 34 Bureau of Mines 1 30 34 Federal Water Pollution Control Administration 15 30 Other 1 72 95 1 Department of Transportation: 46 44 Federal Aviation Administration: 46 44 Federal Highway Administration: Highway trust fund 23 27 Other transportation 1 17 44 National Aeronautics and Space Administration 1 5,131 4,641 4,4 Veterans Administration 209 240 2 Other agencies 1 61 73 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 50 Procurement 110 95				_
Other 10 11 Department of the Interior: 32 34 Geological Survey 30 34 Bureau of Mines 1 30 34 Federal Water Pollution Control Administration 15 30 Other 1 72 95 1 Department of Transportation: 46 44 Federal Aviation Administration 46 44 Federal Highway Administration: Highway trust fund 23 27 Other transportation 1 17 44 National Aeronautics and Space Administration 4 4,44 45 Veterans Administration 44 45 National Science Foundation 209 240 2 Other agencies 1 61 73 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 9 Procurement 110 95		-:		2.
Department of the Interior: Geological Survey				3
Geological Survey 32 34 Bureau of Mines 1 30 34 Federal Water Pollution Control Administration 15 30 Other 1 72 95 1 Department of Transportation: 46 44 Federal Aviation Administration 46 44 Federal Highway Administration: Highway trust fund 23 27 Other transportation 1 17 44 National Aeronautics and Space Administration 1 5,131 4,641 4,4 Veterans Administration 44 45 National Science Foundation 209 240 2 Other agencies 1 61 73 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 50 Procurement 110 95		10	11	1
Bureau of Mines 30 34 Federal Water Pollution Control Administration 15 30 30 30 30 30 30 30 3	Department of the Interior:	22	24	3(
Federal Water Pollution Control Administration				3
Other ¹ 72 95 1 Department of Transportation: Federal Aviation Administration 46 44 Federal Aviation Administration: 23 27 Other transportation ¹ 17 44 National Aeronautics and Space Administration ¹ 5,131 4,641 4,4 Veterans Administration 44 45 44 45 National Science Foundation 209 240 2 Other agencies ¹ 61 73 7 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 50 Procurement 110 95	Endered Water Pollution Control Administration			4
Department of Transportation: Federal Aviation Administration	Other I			10
Federal Aviation Administration	Department of Transportation:	12	,,	, 10
Federal Highway Administration: Highway trust fund	Federal Aviation Administration	46	44	4
Other transportation ¹ 17 44 National Aeronautics and Space Administration ¹ 5,131 4,641 4,4 Veterans Administration 44 45 45 National Science Foundation 209 240 2 Other agencies ¹ 61 73 7 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 50 9 Procurement 110 95 95				3
National Aeronautics and Space Administration 5,131 4,641 4,45 44 45 45 44 45 45	Other transportation 1		44	6
Veterans Administration 44 45 National Science Foundation 209 240 2 Other agencies 1 61 73 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 50 6 Procurement 110 95 110 95	National Aeronautics and Space Administration 1	5,131	4,641	4,49
Other agencies 1 61 73 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 50 50 Procurement 110 95 30	Veterans Administration	44	45	4
Other agencies 1 61 73 Total, research and development, civil 7,057 6,819 6,8 National defense: Department of Defense—Military: 325 328 3 Operation and maintenance 44 50 50 50 Procurement 110 95 30	National Science Foundation	209	240	25
National defense: 325 328 3 Department of Defense—Military: 325 328 3 Operation and maintenance. 44 50 Procurement 110 95		61	73	9
Department of Defense—Military: Military personnel	Total, research and development, civil	7,057	6,819	6,88
Department of Defense—Military: Military personnel	National defense:		 	
Military personnel 325 328 3 Operation and maintenance 44 50 Procurement 110 95	Department of Defense—Military:	-		
Operation and maintenance 44 50 Procurement 110 95	Military personnel	325	328	32
Procurement 110 95	Operation and maintenance			
	Procurement.		95	45
Research, development, test, and evaluation 7,160 7,200 7,80 Other 10 11	Research, development, test, and evaluation	7,160	7,200	7,80

¹ Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Investment-Type Outlays—Continued			
DEVELOPMENTAL OUTLAYS—Continued			
Research and development—Continued			
National defense—Continued			
Atomic Energy Commission	1,256	1,362	1,500
Total, research and development, national defense	8,905	9,046	9,684
Total, research and development	15,962	15,865	16,569
Engineering and natural resource surveys—civil:			
Department of Commerce	26	28	31
Department of Defense—Civil	22	29	31
Department of Housing and Urban Development Department of the Interior:	22	31	46
Geological Survey 1	50	54	60
National Park Service	36	43	45
Other 1	41	54	61
Other agencies 1	40	44	41
Total, engineering and natural resource surveys	236	282	315
Total, developmental outlays	22,379	24,014	25,653
Current Outlays			
CURRENT EXPENSES FOR AIDS AND SPECIAL SERVICES			
Agriculture—civil:			
Department of Agriculture:			}
Consumer and Marketing Service:			į
Removal of surplus agricultural commodities.	145	175	178
Other 1	7	8	8
	21	25	26
Foreign Agricultural Service			
Expenses	132	140	144
Sugar Act	82	86	87
Other 1	*	i	*
Commodity Credit Corporation and special export programs:		l	
Transfer to supplemental stockpile	33	25	1
Price support, and related programs	3,760	3,398	3,313
National Wool Act	35	64	63
Other	_9	-1	-2
Rural Electrification Administration ¹ Farmers Home Administration:	12	13	13
Salaries and expenses	52	59	58
Direct loans and other 1Other	-60 62	88	. 577 77
Farm Credit Administration:	_		
Federal Intermediate Credit Banks trust fund	-11	-36	-54
Other 1	1	-8	-2
Other agencies	7	5	4
	1	- 	

^{*}Less than \$500 thousand.
1 Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Current Outlays—Continued			
CURRENT EXPENSES FOR AIDS AND SPECIAL SERVICES—Continued	ĺ		
Business:			
Civil:			
Department of Commerce:			
Patent office	36	38	41
Maritime Administration:			
Ship operating subsidies and other	182	207	21
Federal ship mortgage insurance escrow trust fund	18	47	7:
Other 1	62	88	80
Department of Defense—Civil:	115	140	150
Corps of Engineers—Operation and maintenance	-21	-21	-20
OtherPost Office Department	474	298	
Department of Transportation:	7/7	270	
Coast Guard: Navigation aids and other 1	308	298	358
Federal Aviation Administration: Operations.	513	554	597
Other 1	2	20	7
Civil Aeronautics Board: Payments to air carriers	62	58	54
Small Business Administration:			
Business loan and investment fund	66	47	36
Other	16	22	10
Other agencies 1	27	24	20
Total, business, civil	1,860	1,819	1,538
National defense: Funds appropriated to the President:	-102	22	140
Total, business	1, 758	1,841	1,684
			
Labor—civil:			
Department of Health, Education, and Welfare: Work incen-		11	84
tive activities			00
Unemployment trust fund	584	620	664
Other	20	31	4
Other agencies	12	15	3
Vuina againates			
Total, labor	616	677	824
Homeowners and tenants—civil:			
Department of Housing and Urban Development:			ļ
			700
Renewal and housing assistance:	370	- WIII	69
Renewal and housing assistance: Urban renewal	370 4	500 17	
Renewal and housing assistance: Urban renewal	-4	17	
Renewal and housing assistance: Urban renewal	_4 257	17 280	33
Renewal and housing assistance: Urban renewal College housing loans Low-rent public housing program Other	-4	17	33
Renewal and housing assistance: Urban renewal College housing loans Low-rent public housing program Other Mortgage credit:	-4 257 -3	17 280	335 16 -214
Renewal and housing assistance: Urban renewal College housing loans Low-rent public housing program Other	-4 257 -3 -126	17 280 14	335 16
Renewal and housing assistance: Urban renewal	-4 257 -3 -126	17 280 14 —149	335 10 -214 -25
Renewal and housing assistance: Urban renewal College housing loans Low-rent public housing program Other Mortgage credit: Federal Housing Administration Secondary market operations trust fund Other Other	-4 257 -3 -126 -24 -16 2	17 280 14 -149 -43 5	33: 10 -214 -25 39
Renewal and housing assistance: Urban renewal	-4 257 -3 -126 -24 -16 2 -201	17 280 14 -149 -43 5	33: 10 -214 -25 39
Renewal and housing assistance: Urban renewal College housing loans Low-rent public housing program Other Mortgage credit: Federal Housing Administration Secondary market operations trust fund Other Other	-4 257 -3 -126 -24 -16 2	17 280 14 -149 -43 5	333 10 —21

¹ Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dellars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Current Outlays—Continued			
CURRENT EXPENSES FOR AIDS AND SPECIAL			
SERVICES—Continued Veterans—civil:			
Department of Health, Education, and Welfare: Payments			
for military service credits	105	105	105
Veterans Administration: Compensation and pensions	4, 302	4, 606	4, 654
Readjustment benefits	292	518	618
Medical care	1, 272	1, 336	1, 413
General operating expenses National Service Life Insurance trust fund	176	190	199
National Service Life Insurance trust fund	671	509	576
United States Government Life Insurance trust fund	84 34	75 -35	83 35
Veterans reopened insurance fund	-30	-30	-32
Other 1	34	21	33
Other agencies 1	38	40	41
Total, veterans	6, 910	7, 336	7, 654
International aids:			
Civil:			
Funds appropriated to the President:			
Foreign economic assistance 1	1, 102 112	1, 104 108	1, 118
Peace Corps 1 Department of Agriculture: Commodity Credit Corpora-	112	100	110
tion and special export programs:			
Credit sales, Public Law 480	917	462	322
Commodities disposed of and other costs incurred in con-	381	425	442
nection with donations abroad and other Export-Import Bank of Washington	-104	-144	-110
Other agencies.	36	42	42
Total, international aids, civil	2, 445	1,999	1, 924
National defense:			
Funds appropriated to the President:		1	
Military assistance	873	570	519
Advances, military assistance trust fund	1,070	1, 125 20	1, 330
Department of Defense—Military: ConstructionOther agencies		20	-14
Total, international aids, national defense	1,943	1,715	1,860
Total, international aids	4,388	3,714	3,784
Other aids and special services—civil:			
Funds appropriated to the President:	•		
Disaster relief	53 598	45	690 690
Economic opportunity program ¹ Appalachian regional development		722	070
Department of Agriculture:			1
Special milk program	96	102	102
Food stamp program	114	178	230
School lunch program Department of Health, Education, and Welfare:	208	220	244
Department of Health, Education, and Welfare:		1	1
Public Health Service: Hospitals and medical care	61	61	6
Other		43	3

^{*} Less than \$500 thousand.
1 Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Current Outlays—Continued			
CURRENT EXPENSES FOR AIDS AND SPECIAL SERVICES—Continued			
Other aids and special services—civil—Continued			
Department of Health, Education, and Welfare—Continued Social and Rehabilitation Service:			
Grants to States for public assistance and maintenance	3, 002	3, 436	2, 963
Coordination and development of programs for the aging	7, 002	13	2, 70
Assistance to refugees in the United States	27	29	34
Demonstration projects and training			558
Work incentive activitiesOther	8	4 9	33
Social Security Administration:	· ·	,	,
Payment to trust funds for health insurance for the aged	950	1,280	1,360
Payment for special benefits for the aged			226
Federal supplementary medical insurance trust fund	135	139	164
Federal hospital insurance trust fund	89 33 3	83 452	94 443
Federal old-age and survivors insurance trust fund Federal disability insurance trust fund	98	112	129
Other 1	19	29	35
Department of Housing and Urban Development: Model			
cities programs and other	35	66	303
Department of the Interior:	74		
Bureau of Indian Affairs and other	74 174	88 140	99 119
In 'ian tribal fund's (trust) Post Office Department	557	605	634
Department of Transportation:	331	003	0,
Federal Highway Administration:			
Landscaping, scenic enhancement, and beautification	22	73	78
Other 1	4	14	20
Other '	3	8	11
Other agencies 1	88	86	104
Total, other aids and special services, civil	6, 797	8, 041	8, 886
Total, current expenses for aids and special services	24, 999	25, 885	27, 309
RETIREMENT AND SOCIAL INSURANCE BENEFITS		-	
nsurance benefits—civil:			
Department of Health, Education, and Welfare:			
Federal supplementary medical insurance trust fund	664	1, 473	1,656
Federal hospital insurance trust fund	2,508	3, 369	3,865
Federal old-age and survivors insurance trust fund	18, 886 1, 861	20, 742 2, 118	23, 711 2, 521
Federal disability insurance trust fund	1, 257	1, 328	1, 392
Total, insurance benefits	25, 176	29, 030	33, 145
Unemployment benefits-civil: Department of Labor: Unemployment benefits-civil:	2, 072	2, 455	2, 451
ployment trust fund	2, 0/2	2, 433	2, 7)

^{*}Less than \$500 thousand.

1 Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

(in minions of dollars)—Continu			
Description	1967 actual	1968 estimate	1969 estimate
Current Outlays—Continued			
RETIREMENT AND SOCIAL INSURANCE BENEFITS—Con.			
Other retirement and social insurance benefits—civil: Civil Service Commission: Civil Service retirement and dis-			
ability trust fundOther trust funds	1,789 11	1,932 12	2,174 13
Total, other retirement and social insurance benefits	1,800	1,944	2,187
Total, retirement and social insurance benefits	29,048	33,430	37,783
OTHER SERVICES AND CURRENT OPERATING EXPENSES	**		
Repair, maintenance and operation of physical assets (excluding special services):			
Civil: Department of Agriculture: Forest Service Department of Defense—Civil: Corps of Engineers and	192	195	175
other	63	88	98
Department of the Interior: Bureau of Land Management		42	32
National Park Service	27 52	31	35
Bureau of Reclamation		53	56
Other 1 General Services Administration: Public buildings	283	301	309
Tennessee Valley Authority	-119	-172	-14
Other agencies ¹	41	41	38
Total, repair, maintenance and operation of physical assets, civil	622	641	661
National defense:			
Department of Defense—Military: Operation and maintenance	18, 923	19, 720	22, 22
Family housing		15, 720	
Atomic Energy Commission	1 1 1 1	119	
Other agencies		*	
Total, repair, maintenance and operation of physical assets, national defense		19,991	22,50
Total, repair, maintenance and operation of physical assets.		20,631	23,16
Regulation and control—civil: The Judiciary	. 87	94	10
Department of Agriculture: Agricultural Research Service	. 80	86	8
Consumer and Marketing Service: Protective, marketing, and regulatory programs	. 77	90	10
Expenses and refunds, inspection and grading of farm	1	22	
products trust fundOther 1	29		
Department of Health, Education, and Welfare:	40	51	5
Food and Drug Administration and other	.) 48)	1 2

^{*}Less than \$500 thousand.

1 Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Current Outlays—Continued			
OTHER SERVICES AND CURRENT OPERATING EXPENSES—Continued			
Regulation and control—civil—Continued			
Department of Justice:			
Legal activities and general administration	.77	81	88
Federal Bureau of Investigation	185	195	206
Immigration and Naturalization Service	80	82	86
Bureau of Prisons 1	55	58	61
Proposed legislation for control of crime Department of Labor: Wage and labor standards and other	31	10 35	33 37
Department of Labor: wage and labor standards and other)	22	21
Department of Transportation: Coast Guard.	36	37	44
Federal Aviation Administration	90 44	48	52
		5	6
OtherFederal Deposit Insurance Corporation trust fund	-239	-261	-274
Interstate Commerce Commission	27	24	24
National Labor Relations Board	30	32	35
Other agencies 1	138	145	160
Outer agencies			
Total, regulation and control	787	850	939
Other operation and administration:			
Civil:		1	
International activities:	•]	
Department of Justice: Alien property trust fund	2	4	53
Department of State:	201	211	220
Administration of foreign affairs 1	201	211	220 124
International organizations and conferences 1	108	118	47
Educational exchange 1	49	47	3
Other ¹ Foreign Claims Settlement Commission: War claims trust	• 11	,	,
Foreign Claims Settlement Commission: war claims trust	21	200	11
fund and other	165	171	180
United States Information Agency	14	26	20
Other agencies 1	14	20	20
Total, international activities	572	782	657
T 1 16 (1) 2 22			ļ ————
Federal financial activities:	40	E4	50
Legislative branch: General Accounting Office	49	54	58
Treasury Department:	24	24	1
Bureau of Accounts	34 79	36 82	46
Bureau of Customs Bureau of the Public Debt		53	61
Jureau of the Fublic Debt	52	688	760
Internal Revenue Service	662	33	32
Other agencies ¹	5	5	5
Total, Federal financial activities	915	951	1,052
Other direct Federal programs:			
	176	199	206
Legislative branch 1			
Legislative branch i			1
Legislative branch 1 Department of Commerce: Environmental Science Services Administration	112 12	108	. 114

¹ Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Ceneral Services Administration 126	(In millions of dollars)—Continu	ed		
Other operation and administration—Continued	Description			
EXPENSES—Continued Civil—Continued Civil—Continued Department of Defense—Civil	Current Outlays—Continued			
Civil — Continued	OTHER SERVICES AND CURRENT OPERATING EXPENSES—Continued			
Other direct Federal programs—Continued Department of Defense—Civil				
Department of Defense—Civil. 60 65 61 Treasury Department: Bureau of Accounts 49 8 6 General Services Administration 126 110 166 Civil Service Commission: 18 36 40 Civil Service retirement and disability trust fund 176 189 190 Employees lain insurance fund trust fund. -69 -63 -68 Employees health benefits fund trust fund. -19 -21 -25 Other agencies -10 -21 -25 Other -10 -21 -25 Other agencies				
General Services Administration 126 110 166	Department of Defense—Civil		65	61
Civil Service Commission: Salaries and expenses and other			8	6
Salaries and expenses and other		126	110	100
Civil Service retirement and disability trust fund		18	36	40
Employees life insurance fund trust fund. — 69 — 63 — 68 Employees health benefits fund trust fund. — 19 — 21 — 25 Other agencies 1	Civil Service retirement and disability trust fund			190
Employees health benefits fund trust fund.	Employees life insurance fund trust fund			-68
Total, other direct Federal programs	Employees health benefits fund trust fund			-25
Retirement, unemployment, and accident compensation for Federal employees: Department of Labor: Unemployment compensation for Federal employees and ex-servicemen	Other agencies 1	50	63	69
Retirement, unemployment, and accident compensation for Federal employees: Department of Labor: Unemployment compensation for Federal employees and ex-servicemen	Total other direct Federal programs	601	705	767
Federal employees: Department of Labor: Unemployment compensation for Federal employees and ex-servicemen				
Department of Labor: Unemployment compensation for Federal employees and ex-servicemen				
Unemployment compensation for Federal employees and ex-servicemen				
Employees compensation claims and expenses 79 91 92				
Employees compensation claims and expenses		70	01	92
Department of Transportation: Coast Guard: Retired pay Civil Service Commission: Special payments and annuities				53
Civil Service Commission: Special payments and annuities 111 113 114 Other agencies 4 7 8 Total, retirement, unemployment, and accident compensation for Federal employees 295 311 322 Shared revenues and grants-in-aid: 295 311 322 Shared revenues and grants-in-aid: 43 45 48 Department of the Interior: 71 73 72 Other. 47 54 62 Treasury Department: 27 29 25 Bureau of Customs 27 29 25 Internal Revenue Service 59 65 66 District of Columbia: Federal payment 58 81 81 Other agencies 21 21 22 Total, other operation and administration, civil 2,800 3,116 3,180 National defense: Department of Defense Military: 19,462 21,472 22,444 Operation and maintenance 33 30 66 Civil defense 78	Department of Transportation: Coast Guard: Retired pay.			54
Total, retirement, unemployment, and accident compensation for Federal employees 295 311 322		111	113	114
Shared revenues and grants-in-aid: Department of Agriculture: Forest Service		4	7	8
Shared revenues and grants-in-aid: Department of Agriculture: Forest Service	Total, retirement, unemployment, and accident com- pensation for Federal employees	295	311	322
Department of Agriculture: Forest Service				ļ
Department of the Interior: Bureau of Land Management	Shared revenues and grants-in-aid:			1
Bureau of Land Management		43	45	48
Other		71	72	72
Treasury Department: 27 29 29 29 29 29 29 29				
Bureau of Customs		4/	74	02
Internal Revenue Service	Rureau of Customs	27	29	29
District of Columbia: Federal payment 58 81 21 21 22 22 22 22 2	Internal Revenue Service	59		67
Other agencies 21 21 22 Total, shared revenues and grants-in-aid 326 367 382 Total, other operation and administration, civil 2,800 3,116 3,180 National defense: Department of Defense—Military: 19,462 21,472 22,442 Operation and maintenance 33 30 60 Family housing 265 290 30 Civil defense 78 69 6 Other 1 -64 1,491 11 Selective Service System 58 61 6 Other agencies 1 22 22 22 Total, other operation and administration, national defense 19,855 23,436 22,97	District of Columbia: Federal payment			81
Total, other operation and administration, civil		21	21	22
Total, other operation and administration, civil	Total decoderance and marks in aid	326	367	383
National defense: Department of Defense—Military:	i otal, snared revenues and grants-in-aid	320	307	
Department of Defense—Military: Military personnel	Total, other operation and administration, civil	2,800	3,116	3,180
Department of Defense—Military: Military personnel	National defense:			
Military personnel. 19,462 21,472 22,44 Operation and maintenance 33 30 60 Family housing. 265 290 30: Civil defense. 78 69 6 Other 1 -64 1,491 1: Selective Service System. 58 61 6 Other agencies 1 22 22 22 Total, other operation and administration, national defense. 19,855 23,436 22,970		1		ļ
Operation and maintenance 33 30 66 Family housing 265 290 30 Civil defense 78 69 6 Other 1 -64 1,491 11 Selective Service System 58 61 6 Other agencies 1 22 22 22 Total, other operation and administration, national defense 19,855 23,436 22,97		19,462	21,472	22,445
Family housing. 265 290 30. Civil defense. 78 69 6 Other 1 -64 1,491 11. Selective Service System. 58 61 6 Other agencies 1 22 22 22 Total, other operation and administration, national defense. 19,855 23,436 22,97	Operation and maintenance			60
Other 1 -64 1,491 11 Selective Service System. 58 61 6 Other agencies 1 22 22 22 Total, other operation and administration, national defense. 19,855 23,436 22,970	Family housing	265		302
Selective Service System 58 61 60 Other agencies 1 22 22 22 22 22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25				6!
Other agencies 1 22 22 22 Total, other operation and administration, national defense 19,855 23,436 22,970	Other 1			
Total, other operation and administration, national defense 19,855 23,436 22,970				26
defense 19,855 23,436 22,970	Other agencies *			
defense 19,855 23,436 22,970	Total, other operation and administration, national			
		19,855	23,436	22,970
Total, other operation and administration 22,654 26,552 26,15			-	
	Total, other operation and administration	22,654	26,552	26,150

Includes both Federal funds and trust funds.

Table D-2. INVESTMENT, OPERATING, AND OTHER BUDGET OUTLAYS (In millions of dollars)—Continued

Description	1967 actual	1968 estimate	1969 estimate
Current Outlays—Continued		·	
OTHER SERVICES AND CURRENT OPERATING EXPENSES—Continued			
Interest: On the public debt	13,391	14,350	15,200
Other interest: On refunds: Treasury Department General Services Administration	120	134	137
On uninvested funds: Treasury Department	13	13	12
Total, other interest	133	147	149
Total, interest	13,524	14,497	15,349
Total, other services and current operating expenses	56,762	62,530	65,606
UNCLASSIFIED			
Payments to other funds 1Allowances for:	657	573	663
Civilian and military pay increase		100	1,600 350
Interfund and intragovernmental payments Applicable receipts from the public	-6,589 $-4,713$	-7,415 -4,181	-8,240 -4,375
Total, budget outlays	158,414	175,635	186,062

^{*}Less than \$500 thousand.

1 Includes both Federal funds and trust funds.

SPECIAL ANALYSIS E

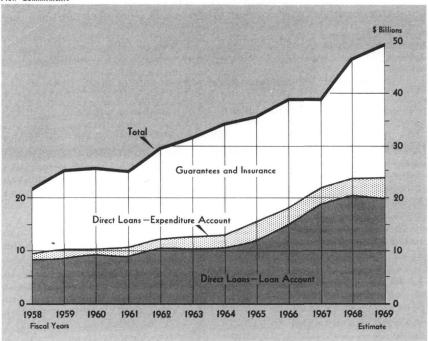
FEDERAL CREDIT PROGRAMS

Introduction

Federal credit aids—direct loans and insurance or guarantees of private loans—play a major role in Government programs for:
(a) improvement of housing and encouragement of homeownership;
(b) development of agricultural and other natural resources; (c) assistance to economic development and military preparedness abroad; (d) promotion of business, especially exports, transportation, and small business generally; (e) redevelopment of communities and regions; and (f) aid to higher education.

Federal Credit Programs

New Commitments



Over the past decade the overall level of Federal credit assistance has doubled, a rate of increase comparable to the rise in the gross national product. During the same period many existing programs have been broadened and new programs initiated to meet emerging needs. On the other hand, other programs established for temporary reasons in earlier years are liquidating their operations as outstanding loans are repaid or privately refinanced. Moreover, as private investors accumulate experience with ongoing programs, they often refinance outstanding Federal loans or directly finance the new credit requirements of borrowers.

Federal credit programs help borrowers to help themselves. In several programs, the credit aids are part of a package of Federal assistance. Such a package sometimes also includes, for example, grants to provide necessary public facilities for depressed areas; grants for work-training, education, and other types of community action to help combat poverty; technical aids to help underdeveloped countries plan and construct basic transportation systems; or management advice to help rural residents plan, develop and operate their farms economically and productively.

SCOPE OF SPECIAL ANALYSIS

This analysis (a) summarizes the 1967-1969 trends in Federal credit programs, (b) indicates the relationship between the credit programs and the overall budget totals, and (c) discusses certain subsidy aspects of credit programs.

The 1969 analysis includes for the first time information on the level and trends of all Federal credit programs. It comprises not only those operated by wholly owned Government agencies, but also those administered by mixed-ownership corporations and trust funds. Both currently active programs and programs in process of liquidation are included.

The principal disbursements and repayments of most, but not all of the direct Federal loans covered by this analysis are included in the loan account; the specific appropriation accounts which finance these programs are separately identified in Part 5. In addition, in line with the recommendations of the President's Commission on Budget Concepts, two specific types of direct loan programs, accounting for about 15% of new commitments, are reflected in the expenditure account; these programs comprise (a) foreign loans made largely on noncommercial terms, and (b) other loans where the terms of the loan contract make repayment in certain respects contingent rather than mandatory.

As in previous years, the analysis includes both direct Federal loans and Federal guarantees and insurance of loans made by private lenders. It excludes all borrowing operations of Federal agencies, whether from the Treasury or the public. Pursuant to the recommendations of the Commission on Budget Concepts, sales of certificates of participation in loans by the Export-Import Bank and by the Federal National Mortgage Association as trustee for several agencies are treated as borrowing. Sales and retirements of such certificates are shown in table E-6, but the transactions otherwise are excluded from the analysis.

In addition, contrary to the practice followed in previous years, the analysis is confined to loans made and repayable in dollars and, therefore, excludes significant amounts of loans, mainly some of those made by the Agency for International Development, which are repayable in foreign currencies. This exclusion facilitates reconciliation with other budget totals.

The 1969 analysis covers credit programs administered by nine departments and 10 other agencies. The estimates for 1968 and 1969 include credit aid authorized by legislation enacted during the past

year.2

The analysis also reflects the impact on credit programs of proposed legislation (a) authorizing a new export expansion program by the Export-Import Bank; (b) broadening Federal assistance for existing programs of student loan insurance; (c) revising the formulas governing interest rates on college housing and academic facility loans; (d) authorizing a flexible ceiling for interest rates on insured or guaranteed housing loans; (e) accelerating the transfer of the secondary market operations of the Federal National Mortgage Association to private ownership; (f) creating two new cooperative banks for rural electric and telephone loans; (g) authorizing federally insured loans to Indians; and (h) extending authority to make credit sales of military equipment.

NEW COMMITMENTS

New commitments are the best single measure of the short-run trends in most Federal credit programs. They also give the best advance indication of trends in the financing impact of these programs, since changes in the level of new commitments usually precede corresponding changes in the volume of loans disbursed by either public agencies or private lenders and in the purchase of goods and services by the ultimate borrowers.

In this analysis, commitments are defined as approvals by Federal agencies of direct loans or of insurance or guarantees of private loans. They are shown on a gross basis, including administrative reservations, commitments which do not later result in actual credit extensions, and the unguaranteed portions of loans partially covered by

Federal guarantees.

¹ Data on loans repayable in foreign currency is contained in table M-6 in Special Analysis M.
² See summary on pp. 527-528 for further details.

	1967 actual		1968 es	timate	1969 estimate	
Agency or program	Direct loans	Guar- anteed and insured loans	Direct loans	Guar- anteed and insured loans	Direct loans	Guar- anteed and insured loans
EXPENDITURE ACCOUNT						
Funds appropriated to the President: Military assistance Economic assistance Department of Agriculture: Commodity	65 1, 1 90	289 59	72 996	190 315	61 1, 459	235 303
Credit Corporation	1, 417	166	2, 112	354	2, 180	400
WelfareOther programs	220 7		236 7		248 7	
Total, expenditure account	2, 899	514	3, 422	859	3, 955	938
LOAN ACCOUNT						
Office of Economic Opportunity Department of Agriculture:	32		29		18	
Commodity Credit Corporation	277 472 505	822	161 470 458	817	220 470 435	870
Department of Commerce: Economic Development Administration Maritime Administration	75	7 104	72	7 140	86	9 166
Department of Health, Education, and and Welfare	209		157	476	157	165
velopment: Federal National Mortgage Association Federal Housing Administration	2, 436 676	9, 991	3, 874 667	12, 657	1, 651 415	14, 238
Public housing loans	23	443	52 200 211	985	67 300 214	1, 265
Housing for the elderly loansPublic facility loans	84 30		85 50		85 40	
Department of the Interior General Services Administration Veterans Administration:	24 39	8	29	6 45	17 	11
Housing loans and guarantees	529 161	2, 831	539 155	4, 005	592 165	4, 350
District of Columbia	77 2, 661	1, 160	119 2, 111	1, 446	144 2, 440	2, 076
Banks for cooperatives	1, 815 6, 999 66		2, 101 8, 349 12		2, 370 9, 481	
Small Business Administration	357 28 850	132 96	429 17	318	459 12	36
sored enterprises. Total loan account	18, 903	16, 371	20, 346	21, 783	19, 840	24, 400
Grand total	21, 802	16, 885	23, 768	22, 642	23, 795	25, 34

Direct loans.—New commitments of \$23.8 billion for direct loans in 1969 are unchanged from the revised estimates for 1968, but roughly \$2 billion higher than the actual commitments made in 1967. Over the 2-year period, the largest increases are anticipated in short-term credit provided by the Federal intermediate credit banks and the Banks for Cooperatives in the loan account, and in commodity loans and long-term export sales credit by the Commodity Credit Corporation in the expenditure account. These three credit aids alone account for well over half of the direct loan commitments projected for 1969. On the other hand, mortgage purchase commitments by the Federal National Mortgage Association for the account of the Government are expected to be sharply lower, because legislation is proposed both to lift the statutory ceiling on interest rates, encouraging broader private credit extension, and to transfer the secondary market operations to private ownership.

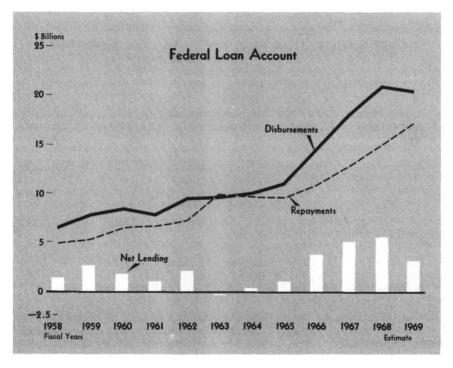
Guarantees and insurance.—New commitments of \$16.9 billion in 1967 for guarantees and insurance of private loans were at the lowest level since 1961. This was primarily attributable to the sharp decline in housing construction—aggravated by the unattractiveness of investment in federally insured or guaranteed loans at the fixed statutory ceilings on interest rates.

Total commitments, however, are expected to reach a record level of \$25.3 billion in 1969. Increases in commitments for mortgage insurance by the Federal Housing Administration (\$4.2 billion), and in housing loan guarantees by the Veterans Administration (\$1.5 billion) account for the great bulk of the estimated expansion. Other substantial increases are anticipated in guarantees of foreign loans by the Export-Import Bank (\$0.9 billion) and in low-rent housing loans underwritten in the public housing program (\$0.8 billion).

Disbursements and repayments.—Gross disbursements for direct loans have the most immediate impact on the budget. In long-established programs, or in programs involving short-term loans, however, the cash outflow required for such disbursements usually is largely or wholly offset by repayments on the outstanding portfolio of loans. This is true for most of the credit extensions by the Federal intermediate credit banks, the banks for cooperatives, the Farmers Home Administration and the Commodity Credit Corporation, as well as for the interim financing of public housing and urban renewal projects.

On the other hand, long-term loans, such as those to finance construction of college housing and academic facilities or rural electrification and telephone systems, as well as purchases of mortgages to help finance residential housing, have a major net impact on the budget, since repayments usually fall short of new loans. This is expecially true for rapidly expanding programs, such as the Export-Import Bank. Moreover, while in some previous years substantial sales of outstanding loans have augmented repayments, the current outlook is for sales of only \$0.2 billion in 1968 and 1969.

Federal guarantees and insurance of private loans ordinarily have only minor and indirect budget consequences. Principal disbursements of Federal funds normally occur only when the borrower defaults, or in a few programs when holders of such insured loans exercise their repurchase options.



In accordance with the recommendations of the Commission on Budget Concepts, both the budget as a whole and this analysis segregate and treat separately net lending—the excess of principal disbursements over collections of all credit programs in the loan account. The gross data on disbursements are also adjusted to reflect writeoffs, losses, and recoveries. As a result, the net lending in any year equals the change between the loans outstanding in the loan account at the beginning of the year and the total outstanding at the

The same principles are followed in deriving the gross and net loan expenditures for credit programs in the expenditure account. As a result, the net loan disbursements for all credit programs in the loan account and for most of the credit programs in the expenditure account are identical with the outlays shown as "loans" in the "additions to Federal assets" category in Special Analysis D. The only exceptions are for those programs in the expenditure account not financed through revolving funds, where repayments are individually recorded in miscellaneous receipts, rather than netted against expenditures. Omission of these repayments in Special Analysis D causes the total of "additions to assets" in that analysis to exceed the net loan disbursements in this analysis by \$467 million, \$177 million, and \$223 million in 1967, 1968 and 1969, respectively.

¹ See table D-2 on pp. 498-500.

Table E-2. DISBURSEMENTS AND REPAYMENTS FOR FEDERAL CREDIT PROGRAMS CLASSIFIED BY TYPE OF ACCOUNT (in millions of dollars)

	1967 actual		1968 es	timate	1969 estimate	
Agency or program	Dis- burse- ments	Repay- ments	Dis- burse- ments	Repay- ments	Dis- burse- ments	Repay- ments
EXPENDITURE ACCOUNT						
Funds appropriated to the President:						
Military assistance 1	43	43	34	54	6	
Economic assistance	1, 169	66	1,064	84	1, 191	94
Department of Agriculture: Commodity	1. 376	2, 085	2, 072	1, 458	2, 140	2.020
Credit Corporation Department of Health, Education, and	1, 5/0	2,000	2,012	1,40Q	2, 140	2, 030
Welfare	222	*	238	*	238	4
Treasury Department 1		416		109	11	151
Other programs	14	12	8	14	5	14
	2 922	2 622	2 416	1 720	2 501	2 200
Total, expenditure account	2, 823	2, 622	3,416	1,720	3, 591	2, 288
LOAN ACCOUNT			1			
Office of Economic Opportunity	32	8	29	12	18	15
Department of Agriculture:				4-0		
Commodity Credit Corporation	277	15	161	190	220	196
Rural Electrification Administration	412	180	470	192	550	190
Farmers Home Administration Department of Commerce:	1, 231	1, 188	1, 426	1,526	1, 352	1,350
Economic Development Administration_	34	4	58	5	72	١ :
Maritime Administration	,,,	9	,,,,	8	, ·-	
Department of Health, Education, and						1
Welfare	88	3	73	1	87	4
Department of Housing and Urban De-						
velopment:		400	2 512	405		
Federal National Mortgage Association	1,766	405	3, 513	495	1,669	56 29
Federal Housing Administration Public housing loans	662 154	641 144	658 220	594 200	405 220	23
College housing loans	391	29	350	34	295	3
Urban renewal loans		543	470	453	475	44
Housing for the elderly loans		ĺ	90	1	100	"
Public facility loans		3	45	4	54	4
Department of the Interior	28	3	26	4	16	1
General Services Administration	38	40		46		4
Veterans Administration:	522	252	527	225	(00	22
Housing loans and guarantees	522 146	252 85	537 155	225 97	600	23
Insurance policy loans District of Columbia	55	36	55	39	108	4
Export-Import Bank	1, 167	627	1, 645	929	1, 680	1,00
Farm Credit Administration:	1, 107	\ \tag{42.7}	1,045	/2/	1,000	1,00
Banks for cooperatives	1, 815	1,622	2, 101	1, 852	2, 370	2, 13
Federal intermediate credit banks		6, 520	8, 349	7,849	9, 481	8,94
Federal Home Loan Bank Board	53	9	12	20		. 2
Small Business Administration		212	410	296	421	32
Other agencies or programs	45	33	17	20	12	1
Purchase of obligations of federally spon-	850		1			88
sored enterprises	020					. 00
Total, loan account	17, 787	12, 611	20, 869	15, 091	20, 372	17, 10
Condens	20 410	15 222	24 205	16 911	23, 963	19, 39
Grand total	20,610	15, 233	24, 285	16, 811	42, 702	17, 27

^{*}Less than \$500 thousand.

1 All 1969 transactions of the Foreign military sales fund are shown in a Treasury liquidation account.

Over the 1957-66 decade, net lending for all Federal programs in the loan account ranged from a high of \$3.8 billion in 1966 to a low in 1963 when repayments exceeded new loan disbursements by \$0.1 billion. The actual net lending in 1967 and the net lending now estimated for 1968 is at record levels, \$5.2 billion and \$5.8 billion, respectively. A sharp cutback to \$3.3 billion is now forecast for 1969. This reflects predominantly the \$1.8 billion reduction in net mortgage purchases by the Federal National Mortgage Association.

Loan disbursements in the expenditure account also are expected to substantially exceed repayments—by \$1.7 billion in 1968 and \$1.3 billion in 1969. This is partly because most loans for foreign economic assistance permit deferment of principal repayments during the early

years.

OUTSTANDING DIRECT AND GUARANTEED LOANS

The best index of the level of Federal credit programs over a period of years is provided by the total outstanding direct and guaranteed loans. By the close of 1969, these will amount to \$156.9 billion in the loan account and an additional \$19.4 billion in the expenditure ac-

count—or a gross total of \$176.2 billion.

Outstanding direct loans in the loan account (including loans pooled as collateral for certificates of participation) will rise by an estimated \$9 billion over the 2-year period—almost half of this because of the \$4.1 billion increase in the total FNMA portfolio. Other major increases are estimated for the Export-Import Bank (\$1.4 billion) and the Federal intermediate credit banks (\$1 billion), as well as in college housing loans, VA housing loans, and REA loans.

An additional \$3 billion rise is anticipated between 1967 and 1969 in the direct loan portfolios in the expenditure account. Most of this occurs in foreign assistance credits of the Agency for International Development, long-term export sales credit by the Commodity Credit Corporation, and repayable capital contributions to student loan

funds by the Department of Health, Education, and Welfare.

Outstanding guaranteed and insured loans in both accounts will rise from a total of \$99.5 billion at the end of 1967 to \$117.1 billion in 1969. Housing loans insured by the Federal Housing Administration or guaranteed by the Veterans Administration or in the low-rent public housing program account for two-thirds of this increase. Other major increases are expected in loans insured by the Farmers Home Administration (\$1.6 billion), the Export-Import Bank (\$0.9 billion), the Commodity Credit Corporation (\$0.7 billion), and the urban

renewal program (\$0.7 billion).

The amounts shown include both the guaranteed and unguaranteed portion of outstanding loans in order to give a more complete picture of the economic impact of these programs and to tie in better with banking statistics. Thus, they do not indicate the estimated contingent liability of the Federal Government. The major program for which the contingent liability differs materially from the principal amount of the loans is the veterans loan guarantee program; by the end of 1969, the Government's liability will be \$17.6 billion lower than the amount of guaranteed loans outstanding under that program.

Table E-3. OUTSTANDING DIRECT LOANS, AND GUARANTEED AND IN-SURED LOANS FOR FEDERAL CREDIT PROGRAMS CLASSIFIED BY TYPE OF ACCOUNT (in millions of dollars)

	1967	actual	1968 es	1968 estimate		1969 estimate	
Agency or program	Direct loans	Guar- anteed and insured loans	Direct loans	Guar- anteed and insured loans	Direct loans	Guar- anteed and insured loans	
EXPENDITURE ACCOUNT							
Funds appropriated to the President:	40						
Military assistance 1	43	218	23	388	0 152	235	
Economic assistance Department of Agriculture: Commodity	6, 074	237	7, 055	552	8, 152	854	
Credit Corporation	1,085	1,021	1.698	1. 375	1, 808	1, 775	
Department of Health, Education, and	959	., .2.		., 5 5		.,	
Welfare Treasury Department 1	4.686		1, 196 4, 577		1, 434 4, 461	463	
Other programs	184		177		168		
Total, expenditure account	13, 031	1, 476	14, 727	2, 315	16, 030	3, 327	
LOAN ACCOUNT		1, 170					
Office of Economic Opportunity	70		87		90		
Department of Agriculture:	• •						
Commodity Credit Corporation	294		265		288		
Rural Electrification Administration	4,506	1 626	4, 785	2, 505	5, 146	3, 260	
Farmers Home Administration Department of Commerce:	2, 229	1,636	2, 129	2, 505	2, 123	5, 20	
Economic Development Administration.	191	11	244	17	309	20	
Maritime Administration	iói	562	93	669	85	790	
Maritime Administration Department of Health, Education, and			1)			
Welfare	164		236	476	320	64	
Department of Housing and Urban Devel-					l		
opment: Federal National Mortgage Association	7, 403	1	10, 421		11, 527	j	
Federal Housing Administration	635	54, 197	699	56, 538	812	60, 36	
Public housing loans	68	5,772	88	6, 394	73	7, 29	
College housing loans	2, 606		2, 923		3, 180		
Urban renewal loans	286	1,921	304	2, 271	335	2,60	
Housing for the elderly loans	225		314		412		
Public facility loans	269		310		360 203	2	
Department of the Interior General Services Administration	170 174	12	192 128	16	87	2	
Veterans Administration:	"		120	1	· ·	~	
Housing loans and guarantees	2, 203	31,537	2,515	33, 203	2, 878	35, 15	
Insurance policy loans.	756		814		878		
District of Columbia	180		197		261		
Export-Import Bank	4, 151	1,790	4, 868	1,904	5, 543	2, 72	
Farm Credit Administration:			1		1 700		
Banks for cooperatives	1, 302		1,551		1, 790 4, 580		
Federal intermediate credit banks	3, 547 149		4, 047		1, 121		
Small Business Administration	1, 373	355	1, 486	515	1, 588	70	
Other agencies or programs.	88	232	85	203	81	18	
Purchase of obligations of federally spon-							
sored enterprises	882		882				
Total, loan account	34, 026	98, 024	39, 804	104, 756	43, 070	113, 81	
Grand total	47, 057	99, 500	54, 531	107, 071	59, 100	117,13	

¹ All 1969 transactions of the Foreign military sales fund are shown in a Treasury liquidating account.

INTEREST RATES AND MATURITIES

Two of the major ways in which Federal credit programs help achieve program objectives are by providing more favorable interest rates or maturities than many borrowers can obtain from other sources. Table E-4 summarizes the current range of interest rates charged by the various major credit programs on direct loans (or prevailing on insured or guaranteed loans) and the customary maturities for both direct and insured and guaranteed loans. These terms are on newly committed loans by currently active programs, and do not necessarily correspond to those on outstanding loans, or on loans

covered by commitments made in earlier years.

Interest rates charged on direct loans vary both among the various Federal credit agencies and sometimes among the various types of loans made by a single agency. Many of the differences in rates reflect mainly differences in the cost of providing the loan (including the cost of borrowing the necessary funds), of administering the several types of loans and of incurring the varying degrees of risk of probable loss. In many cases, the rate charged is governed by statutory limits or formulas. Frequently, these are intended to assure loans at rates below those prevailing in the private market or below the cost to the Government, in order to provide special assistance to particular groups of borrowers as a method of accomplishing Federal program objectives. In some cases, the rates charged reflect mainly Government borrowing costs in earlier periods, rather than current market yields of Government obligations.

Interest rates charged on insured and guaranteed loans tend to correspond more closely to market rates of interest on comparable loans by private lenders—allowing for the reduction or removal of the normal private credit risk. In a few cases, however, interest rates on insured loans are set below the market rate and a secondary market is provided to assure the willingness of the private lender to originate the loans. The Federal Housing Administration, for example, was authorized in the Housing Act of 1961 to insure certain types of loans to finance moderate-income housing at rates well below those prevailing in the private market (currently 3%), and the Federal National Mortgage Association purchases all of such mortgages. In other cases, the Federal agency pays part of the interest costs necessary to obtain private financing, for example, for insured student loans made by private lenders under the Higher Education Act of 1965.

Maturities, both on direct and on insured or guaranteed loans, often are substantially more liberal than on private loans of similar types. Private lenders are often limited by law or supervisory policy to shorter maturities. When a Federal agency insures or guarantees the loans, however, these limitations customarily do not apply. Lenders can, safely, extend their loan maturities and borrowers can take advantage of lower periodic installments to acquire assets yielding income or tangible benefits over a long period of years.

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Table E-4. INTEREST RATES AND MATURITIES FOR MAJOR ACTIVE CREDIT PROGRAMS CLASSIFIED BY AGENCY OR PROGRAM, DE-CEMBER 1967

	Direct	loans	Guaranteed and insured loans		
Agency or program	Interest rate (percent)	Maturity (years)	Interest rate (percent)	Maturity (years)	
EXPENDITURE ACCOUNT					
Funds appropriated to the President:				}	
Military assistance	0-6	3-10	31/2-61/4	4-10	
Economic assistance	34-534	5_40	6-71/2		
Department of Agriculture: Commodity Credit Corpora-	/4 3/4	, ,,,	0 1/2	, ,,,,	
tion	1 31/2	1-11	31/2	1/2-1	
Department of Health, Education, and Welfare	0-51/8	(2)			
LOAN ACCOUNT	, .	` ` `			
Office of Economic Opportunity	41/8	15–30			
Department of Agriculture:		,,,			
Commodity Credit Corporation	4-7	1/2-5			
Rural Electrification Administration	2	35			
Farmers Home Administration	3-5	1–50	4-61/2	33-40	
Department of Commerce:	49/49/	r 40		- 10	
Economic Development Administration	,	5-40	6–8	5-10	
Maritime Administration	6	9-25	6	25	
Department of Health, Education, and Welfare	3–6	0-40	6	(2)	
Department of Housing and Urban Development:		05.40	1	1	
Federal National Mortgage Association	3-6	25-40			
Federal Housing Administration	51/4-6	20-40	33-6		
Public housing loans	2½-5½	0-40	21/3-43/5	1/2-40	
College housing loans	3	40-50			
Urban renewal loans	23/5-51/4	0-34	23/5-51/4	1/2-34	
Housing for the elderly loans	3	30-50			
Public facility loans	41/4-41/2	10 -4 0			
Department of the Interior: (Reclamation loans)	0-31/4	22-50			
General Services Administration	6	1–30]	
Veterans Administration:					
Housing loans and guarantees	4-63/4		51/4-63/4	7-30	
Insurance policy loans	4	(4)			
District of Columbia	0-5½				
Export-Import Bank	6	11/4-20	6-10	1/2-7	
Farm Credit Administration:	1 .				
Banks for cooperatives	41/4-6	1-20			
Federal intermediate credit banks	41/4-61/5				
Federal Home Loan Bank Board					
Small Business Administration	3-51/2	1-30	3-8	1-30	

1 When commodity loan is repaid by forfeiting collateral, no interest is charged.

2 On student loans, maturities begin when student leaves school and exclude periods of military or Peace Corps service.

3 In addition, property improvement loans are insured for 4-5% discount per year (equivalent to over 8% simple interest), and with maturities of 6 months to 7 years.

4 Indefinite.

Unlike most other programs, Government outlays on credit programs are largely or wholly repayable with interest, so that the ultimate net cost is normally low. Some programs are fully self-supporting; in most others, income from interest payments or insurance and guarantee fees covers most of the current expenses, and sometimes provides reserves for future losses. But a substantial number of loan programs contain an element of subsidy, e.g., by

lending at more favorable interest rates than the cost of money to the Government and/or at rates inadequate to defray the administrative expenses of the program or to establish an adequate reserve for probable future losses.

The Commission on Budget Concepts has recommended:

(a) "That the full amount of the interest subsidy on loans compared to Treasury borrowing costs be reflected and specifically disclosed in the expenditure account of the budget, and furthermore, that it be measured on a capitalized basis at the time the loans are made"; and

(b) "That effective measures be developed to reflect (in the expenditure rather than the loan account of the budget) the further subsidy involved in the fact that Federal loans have a larger element of risk than Treasury borrowing. This should be done by creation of allowances for losses and making appropriate credits to those allow-

ances and charges to expense as new loans are extended."

As the Commission recognized, these recommendations will require extensive further study and consultation to develop the information and methods necessary to place them in force. While it is not possible in this budget to present reliable data on the amounts of "subsidy" involved, a preliminary review indicates that of the roughly \$20 billion in new commitments for loans estimated for the fiscal year 1968 by loan programs in the loan account, three-fourths are being made at interest rates of 5% or higher. However, the great bulk of the estimated new commitments of \$3.4 billion in direct loan commitments by programs in the expenditure account are made at lower rates of interest and/or with terms which give the borrower considerably greater option on the timing and extent of interest and/or principal payments.

GOVERNMENT-SPONSORED CREDIT PROGRAMS

Three major groups of Government-sponsored, privately owned institutions administer credit programs. The operations of the Federal land banks and of the Federal home loan banks are not reflected in the budget totals, but detailed schedules and explanatory statements are printed as annexed budgets in Part III of the Appendix. The operations of the Federal Reserve banks have no direct effect on

Table E-5. OUTSTANDING LOANS FOR MAJOR GOVERNMENT-SPONSORED CREDIT PROGRAMS (in millions of dollars)

Agency	Outstanding at end of-					
	1966 actual	1967 actual	1968 esti mate	1969 estimate		
Farm Credit Administration: Federal land banks Federal Home Loan Bank Board: Federal home loan	4,725	5,304	6,069	6,860		
banks	6,783	4,302	4,600	5,600		
Federal Reserve, Board of Governors: Federal Reserve banks	530	204	(1)	(1)		
Total	12,038	9,810				

¹ Estimates are not available.

budget totals, but payments of excess Federal Reserve profits are regularly made to the Treasury and these will continue to be treated as budget receipts in line with the recommendations of the Commission

on Budget Concepts.

The Federal land banks anticipate a continued rapid expansion, amounting to \$2.1 billion over the 3-year period, in outstanding loans made through the nearly 700 Federal land bank associations. The Federal home loan banks, after the rapid repayment of advances during 1967, now expect a net expansion of \$1.3 billion in outstanding advances over the next 2 years. Outstanding discounts, advances, and acceptances of the Federal Reserve banks declined by \$0.3 billion during 1967.

CERTIFICATES OF PARTICIPATION IN FEDERAL LOANS

For several years the Export-Import Bank and the Federal National Mortgage Association, as trustee for five departments and agencies, have been pooling blocks of direct loans and selling certificates of participation in such pools. Receipts from these sales not only have provided private financing for the specific programs involved, but also under previous budget concepts have been treated as offsets to budget expenditures, comparable to the proceeds from direct sales of individual loans.

Table E-6. SALES AND RETIREMENTS OF CERTIFICATES OF PARTICIPATION IN FEDERAL LOANS (in millions of dollars)

	1967 actual		1968 estimate		1969 estimate	
Agency or program	Sales	Retire- ments	Sales	Retire- ments	Sales	Retire- ments
Department of Agriculture: Farmers Home Administration	600		675		500	180
Department of Health, Education, and Welfare:						
Office of Education	100		100		·	
Public Health Service			15			
Department of Housing and Urban Development:						
Federal National Mortgage Association	740	49	605	49	1,205	140
College housing loans	600		1,385		500	13
Housing for the elderly loans			60		65	
Public facility loans	80		80		80	2
Veterans Administration	260	61	765	61	600	82
Small Business Administration	520	70	315	70	200	213
Subtotal, trusts administered by						
FNMA.	2,900	180	4.000	180	3,150	630
Export-Import Bank	1,329	550	1,300	435	850	242
Total	4,229	730	5,300	615	4,000	872

In this budget, in accordance with the recommendations of the Commission on Budget Concepts, sales of participations are treated as means of financing the loan portfolio, i.e., agency borrowing, rather than sale of assets. Table E-6 summarizes the trends in sales and retirements for the six departments and agencies involved.

SUMMARY OF LEGISLATION AUTHORIZING NEW AND BROADENED FEDERAL CREDIT PROGRAMS

The following summary lists all legislation authorizing new Federal credit programs or revising existing programs in major respects enacted during the last session of Congress. It excludes simple extensions in expiring laws and increases in funds for continuing programs.

I. Department of State—Agency for International Development and Department of Defense

A. Foreign Assistance Act of 1967—Public Law 90-137

(1) Revises interest rates for Development Loan Fund and Alliance for Progress loans, and criteria for DLF loans; (2) revises standards for investment guarantees and basis for determining interest rates, (3) transfers the military sales fund at the end of the fiscal year 1968 from the Department of Defense to the Treasury Department to discharge outstanding liabilities and obligations arising out of previous credit sales agreements; and (4) limits guaranteed military sales credit extended in 1968 and terminates authorities for sales and guarantees as of June 30, 1968.

II. District of Columbia

A. District of Columbia Federal Payment Authorization and Borrowing Authority Act of 1967—Public Law 90-120

Provides broader and more flexible formula to govern Federal loan

authorization to the D.C. General Fund (capital outlay).

B. Amendments to the Act of June 12, 1960—Public Law 90-84 Forgives half of outstanding debt on the Dulles Interceptor sewer line.

III. Farm Credit Administration

Amendments to the Federal Farm Loan Act and the Farm Credit Act of 1933—Public Law 90–204.

Removes statutory interest ceiling on loans made by Federal land banks and banks for cooperatives, and makes related adjustments in other interest rates.

- IV. Small Business Administration and Office of Economic Opportunity
 - A. Small Business Act Amendments of 1967 and Small Business Investment Act Amendments of 1967—Public Law 90-104
- (1) Increases maximum maturity of business loans for construction purposes to 15 years, and (2) liberalizes authority to purchase debentures of small business investment companies and establishes new interest formula on such debentures.
 - B. Economic Opportunity Amendments of 1967—Public Law 90-222

Revises standards for SBA loans to provide employment and investment incentives to small businesses in areas with high proportions of unemployed or low-income individuals or businesses owned by low-income individuals.

V. Appalachian Regional Commission

A. Appalachian Regional Development Act Amendments of 1967—Public Law 90-103

Authorizes grants and loans with flexible interest and repayment requirements for expenses of planning and obtaining insured loans for low and moderate income housing construction in growth areas of Appalachian region.

SPECIAL ANALYSIS F

CIVILIAN EMPLOYMENT IN THE EXECUTIVE BRANCH

Recent substantial increases in civilian employment in the executive branch are attributable chiefly to support for Vietnam operations and to a large increase in mail volume. Because of the expected near stabilization of Vietnam defense requirements, the rise in civilian employees in fiscal 1969 is estimated to be substantially less than in 1968.

FULL-TIME PERMANENT CIVILIAN EMPLOYMENT

Full-time permanent civilian employment is estimated to reach 2,687,500 by the end of 1969. Nearly one-half of these employees will work in the Defense Department, another one-fifth in the Post Office, and about 6% in the Veterans Administration. Thus, these three agencies account for nearly three-quarters of all permanent

full-time employment in the executive branch.

Table F-1 outlines the estimated changes in civilian permanent full-time employment between 1968 and 1969. Of the total anticipated increase of 46,000, over 39% is for the Post Office to service a 3.8% increase in mail volume and a further substantial rise in the number of mailing addresses. Another 6%, or 3,000 employees, is for the Department of Defense to support operations in Vietnam.

The remaining increase is for providing a larger number of public services to a growing population and expanding economy. Ten agencies

account for the bulk of these added employees:

(1) The Treasury Department, up 3,500, as the Internal Revenue Service will require an additional 2,700 persons to stay abreast of 112 million tax returns, up 3 million in 1969, and the Bureau of Customs expects a 7% increase in formal cargo entries.

(2) The Department of Health, Education, and Welfare, up 3,400, mainly because the number of claims processed for old-age and survivors insurance is expected to rise, and bills and claims received under the supplementary medical insurance plan are expected to

increase by 3 million.

(3) The Department of the Interior, up 2,400, chiefly for teachers to educate Indians on reservations, for personnel to continue building and to operate new power facilities initiated in prior years, for work on water pollution control (including the staffing of new laboratories), and for accommodating a 9% increase in visitors to the National Parks.

(4) The Department of Transportation, up 1,900, largely for additional workload in the Federal Aviation Administration associated with increased aviation activity, illustrated by a 15% increase in landings and takeoffs at airports with FAA towers.

(5) The Veterans Administration, up 1,900, primarily to enlarge

and improve hospital services and give better medical care.

Table F-1. SUMMARY OF FULL-TIME PERMANENT EMPLOYMENT IN THE EXECUTIVE BRANCH

		Increase, 1969		
Agency	1967 actual	1968 estimate	1969 estimate	1968
Department of Defense, Military and military				
assistance	1, 193, 657	1, 220, 500	1, 223, 500	3,000
Post Office Department	528, 254	550, 600	568, 400	17, 800
Subtotal	1, 721, 911	1, 771, 100	1, 791, 900	20, 800
Department of Agriculture	85, 723	85, 800	86, 300	500
Department of Commerce	25, 900	26, 200	27, 000	800
Department of Defense, Civil	31, 980	32, 200	32, 600	400
Department of Health, Education, and Welfare.	97, 792	105, 400	108, 800	3, 400
Department of Housing and Urban Development.	14, 250	14, 800	16, 200	1, 400
Department of the Interior	60, 606	61, 100	63, 500	2, 400
Department of Justice	33, 176	33, 650	34, 200	550
Department of Labor	9, 461	9, 700	10,700	1,000
Department of State	26, 849	26, 900	27, 000	100
Agency for International Development.	16, 713	17, 600	18, 100	500
Peace Corps	1, 240	1,400	1,600	200
Department of Transportation	55, 187	57, 700	59, 600	1,900
Treasury Department	81, 591	82,000	85, 500	3, 500
Atomic Energy Commission	7,013	7, 150	7, 300	150
General Services Administration	37, 117	38, 300	39, 700	1, 400
National Aeronautics and Space Administration_	33, 726	32, 400	32, 600	200
Veterans Administration	150, 225	152, 100	154,000	1, 900
Other agencies:	1 17,5	1	""	.,,,,
Selective Service System	7,085	7,200	6,900	300
Small Business Administration		4, 300	4,700	400
Tennessee Valley Authority		12, 350	12, 700	350
The Panama Canal	14, 571	14, 950	15,000	50
United States Information Agency	11, 686	11, 650	11,700	50
Miscellaneous agencies 1	32, 204	33, 550	35, 100	1,550
Subtotal	850, 140	868, 400	890, 800	22, 400
Allowance for contingencies		2, 400	4, 800	2, 400
Total	2, 572, 051	2, 641, 900	2, 687, 500	45, 600

¹ Excludes member-employees of the Soldiers' Home.

(6) The Department of Housing and Urban Development, up 1,400, mainly covering an anticipated growth of 100,000 FHA mortgage insurance applications, and the new or expanded activities in the Model Cities, Public Housing, and Urban Renewal programs.

(7) The General Services Administration, up 1,400, mostly to handle the increased volume of supplies required for support of military operations in Southeast Asia, and for the operation and maintenance of 3 million square feet of new Federal buildings, construction of which will have been completed.

(8) The Labor Department, up 1,000, to administer an expanded Federal manpower program including full cost on-the-job training for the disadvantaged, short-term employability training, and support for State and least manpower program planning.

State and local manpower program planning.

(9) The Commerce Department, up 800, largely for (a) a larger number of overseas commercial exhibitions in 1969 which are expected

to boost sales of American products abroad, (b) a significant increase in weather observations and improved weather forecasting capability, and (c) a 4% increase in the disposition of patent applications.

(10) The Justice Department, up 550, mainly for crime control and civil rights activities of the FBI and the Department's attorneys, and for the expected 7 million additional inspections by the Immigration and Naturalization Service.

TOTAL FEDERAL PERSONNEL

Employees in permanent full-time positions account for nearly 90% of total civilian employment in the executive branch. The remainder consists of part-time and intermittent workers, employed largely in projects of a special, temporary, or seasonal nature.

Total Federal Government employment also includes military personnel in the executive branch and employment in the legislative

and judicial branches.

and judicial branches.	As of June				
Civilian employment in the executive branch: 1	1967 actual	1968 estimate	1969 estimate		
Permanent full-time	2, 572, 051	2, 641, 900	2,687,500		
Other than permanent full-time 2	305, 276	289, 800	299, 200		
Military personnel:					
Department of Defense	3,374,436	3,487,510	3, 474, 589		
Reimbursable details to other agencies	2,075	2,366			
Department of Transportation (Coast Guard)	36,540	37,321	38,475		
Total executive branch personnel	6, 290, 378	6, 458, 897	6, 502, 695		
Legislative and judicial personnel	34, 291				
Total	6, 324, 669				

¹ Excludes member-employees of the Soldiers' Home.

² Excludes summer workers under the President's Youth Opportunity Campaign and various merchant seamen on vessels under Federal shipping contracts.

GEOGRAPHICAL DISTRIBUTION OF EMPLOYMENT

Table F-2 presents data on the geographical distribution of Federal employment. Most Federal employees—over 81%—work in the various States. Less than 11% are located in the Washington, D.,C. metropolitan area (including nearby Maryland and Virginia). Another 8% are in foreign countries and in U.S. territories and possessions.

PERSONNEL COMPENSATION AND BENEFITS

Estimates of the Federal payroll and related costs are shown in table F-3. Direct compensation includes regular pay, Sunday pay, and special pay for overtime, holiday, and standby time; differentials for nightwork and overseas duty, flight and hazardous duty, etc. Related personnel benefits include the Government's share of Federal retirement and old-age, survivors', and disability insurance costs; employees' life insurance, health insurance and benefits, and similar payments; they also include cost-of-living and quarters allowances, uniform allowances (when paid in cash), and, in the case of the military personnel, they also include allowances for subsistence, reenlistment bonuses, and certain other cash payments.

Table F-2. FEDERAL CIVILIAN EMPLOYMENT BY GEOGRAPHICAL LOCATION (as of June 1967)

Location	Total 1	Location	Total 1
Washington, D.C., metropolitan			
area	² 308,712	Oregon	22.806
Alabama	62,066	Pennsylvania	143,588
Alaska	14.834	Rhode Island	14.924
Arizona	24.864	South Carolina	29,665
Arkansas	16,502	South Dakota	9.267
California	306,351	Tennessee	40,388
Colorado	41.380	Texas	144,191
Connecticut	18,315	Utah	41.412
Delaware	4,232	Vermont	3,454
Florida	65.051	Virginia	3 81 . 162
Georgia	75,701	Washington	55.764
Hawaii	26,859	West Virginia	12,663
Idaho	7.717	Wisconsin	24,299
Illinois	113.761	Wyoming	4,658
Indiana	39.813	Undistributed	4 -7, 714
owa	17,933	Ondate ibacca	7,711
Kansas	21.746	Total United States	2, 675, 458
Sentucky	35.784	Total Officed Deates	2,075,150
ouisiana	28,664	Outside United States:	
Maine	16,955	Territories and possessions	35, 728
Maryland	3 59,684	Foreign countries	200, 432
Massachusetts	66,445	1 oreign countries	200, 152
Vichigan	53,623	Total outside United	
Minnesota	29,738	States	236, 160
Mississippi	19.822	U.S. citizens	(58,510)
Missouri	63,822	Foreign nationals	5 (177,650)
Montana	9,682	Torcigii nationals	(177,030
Vebraska	15,515	Total employment	2,911,618
Vevada	7.814	Legislative and judicial	-34, 291
New Hampshire	4.596	Degistative and judicial	-J4, 271
New Jersey	66,091	Total employment execu-	
	25.399	tive branch	2 977 227
New Mexico	185.521	Other than full-time permanent	2, 877, 327 -305, 276
		Other than rull-time permanent	505, 270
North Carolina	36,617	Tabal Call Alassa	·
North Dakota	7,576	Total full-time permanent	
Ohio	100,148	employment, executive	0 570 651
Oklahoma	55,598	branch	2, 572, 051

The obligations to be incurred for civilian personnel compensation and benefits in 1969 are estimated at \$25 billion.

Some of the personnel are employed by trust funds (such as old-age and survivors insurance) and some are employed by public enterprise funds (such as the Post Office). The cost of these employees, included in Table F-3, amounts to \$7 billion.

Government pay scales for "blue collar" workers have for many years been subject to administrative adjustment to correspond to local prevailing rates in private industry. As wages in private industry advanced, Federal compensation for such workers also increased.

Pay for most other Federal workers has been set by statute. In

¹ Distribution by State is partially estimated.
2 Includes employees of the executive branch and of the legislative and judicial branches.
3 Excludes employment within the Washington, D.C., metropolitan area, which includes the District of Columbia, and the adjacent counties and cities in Maryland and Virginia.
4 Includes various merchant seamen on vessels under Federal shipping contracts who are distributed by State of residence and member-employees of the Soldiers' Home.
5 Excludes 120,383 foreign nationals working for Department of Defense under contract agreements, or other arrangements with foreign governments which provide for the furnishing of personal services,

December 1967, the Congress enacted pay legislation which authorizes the President, without additional congressional approval, to set salary rates consistent with the standards set forth in the 1962 Salary Reform Act.

Table F-3. ESTIMATED PERSONNEL COMPENSATION AND BENEFITS
(In millions of dollars)

Description	1967	1968	1969 1
Total civilian personnel costs: Direct compensation Personnel benefits	20,600 1,700	22,300 1,850	23,150 1,900
Total	22,300	24,150	25,050
MEMORANDUM			
Total military personnel costs: 2 Direct compensation Personnel benefits	11,750 3,500	13,050 3,900	13,500 4,000
Total	15,250	16,950	17,500

¹ Excludes 1969 budget allowance of \$1,600 million for military and civilian pay increases, to be effective July 1, 1968, under present law.

² Excludes Reserve components.

This legislation is designed to achieve, in three steps, comparability

with private industry salary levels by July 1969.

The first step was effective retroactively to October 1967 and provided an increase of 6% for postal employees and an average increase of 4.5% for all others. The second step, which is to be effective in July 1968, provides a 5% increase for postal employees, and an increase for all others equal to one-half of the difference then existing between Government salaries and comparable private salaries for the same type of occupation. The third and final step will achieve full comparability in July 1969. The compensation figures in table F-3 reflect the first step in the series.

For 3 successive years, 1965-67, there has been no significant Government-wide change in the average grade of Classification Act employees. Apart from legislative changes in pay scales, average compensation for 1967 showed only a slight increase from 1966. This was due mostly to merited within-grade salary advancements and

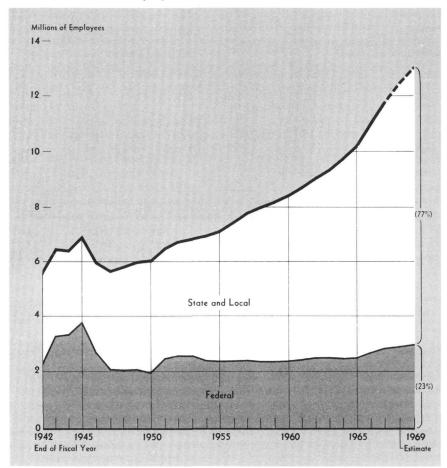
necessary reclassifications of new positions in certain agencies.

TRENDS IN NUMBERS OF EMPLOYEES AND WORKLOAD

The continued growth in population, in national income, and in economic activity, coupled with an increasing concern for the welfare of the poor and the elderly, has brought about a sharp rise in the volume of public services the Government is called upon to render. In 1969, for example, the participants in the food stamp program will rise 8%; establishments with Federal meat inspectors will increase by 78%; the number of pieces of mail delivered by the Post Office will be up 3.8% to 85 billion; the number of small business loans are expected to increase by 21%; complaint applications concerning monopolistic and unfair trade practices are projected to rise by 7%; air

carrier rate and fare cases will rise by 16%; the number of radio and television stations regulated by the Federal Communications Commission will be up 5%; a 93% increase is expected in electric rate filings to the Federal Power Commission; the number of law enforcement investigations and cases completed by the Department of Justice is expected to rise by 5%; there will be a 20% increase in outlays by Federal manpower programs, mostly aimed at the disadvantaged in both urban and rural areas; the number of applications for motor carrier operating authority is expected to increase by 8%; a 7.5% increase is projected in unfair labor practice cases; and beneficiaries of the Social Security system will increase by 4%. The increase in staff needed to carry out the new programs and to accommodate the increasing demands for existing Government services has been estimated on the assumption that existing work methods can be improved with a resulting increase in productivity.

Government Civilian Employment



A historical comparison of total Federal civilian employment in the executive branch (including temporary and part-time employment) with employment by State and local governments and U.S. population Digitized for for 1942-69 is shown in table F-4.

http://fraser.stlouisfed.org/ Federal Reserve Bank of St. Louis

Table F-4. GOVERNMENT EMPLOYMENT AND POPULATION, 1942-69

		Government	Popul	Population		
Year	Federal executive branch 1 (thousands)	State and local govern- ments (thousands)	All govern- mental units (thousands)	Federal as percent of all govern- mental units	Total United States (thousands)	Federal em ployment per 1,000 population
1942	2, 272	3, 310	5, 582	40.7	135, 361	16.8
1943	3, 274	3, 184	6, 458	50.7	137, 250	23.9
1944	3, 304	3, 092	6, 396	51.7	138, 916	23.8
945		3, 104	6, 891	55.0	140, 468	27.0
946	2,666	3, 305	5, 971	44.6	141, 936	18.8
1947		3, 568	5, 650	36.8	144, 698	14.4
948		3, 776	5, 820	35.1	147, 208	13.9
9-9		3, 906	5, 981	34.7	149, 767	13.9
950		4, 078	6,012	32.2	152, 271	12.7
951		4,031	6, 487	37.9	154, 878	15.9
952		4, 134	6, 708	38.4	157, 553	16.3
953		4, 282	6, 814	37. 2	160, 184	15.8
954		4, 552	6, 934	34.4	163, 026	14.6
955		4, 728	7, 099	33.4	165, 931	14.3
956		5,064	7, 436	31.9	168, 903	14.0
957		5, 380	7,771	30.8	171, 984	13.9
958		5, 630	7, 985	29.5	174, 882	13.
959		5, 806	8, 161	28.9	177, 830	13.2
960		6, 073	8, 444	28.1	180, 684	13.1
1961		6, 295	8, 702	27.7	183, 756	13.
962		6, 533	9, 018	27.6	186, 656	13.3
963		6, 834	9, 324	26.7	189, 417	13.
1964		7, 236	9, 705	25.4	192, 120	12.9
965		7,700	10, 196	24.5	194, 592	12.8
1966	1 7,111	8, 320	10, 190	24. 2	196, 920	13.
1967	2, 877	8, 898	11, 775	24. 2	199, 118	14.4
		0,090	11,773	23.8	177, 110	14.0
968 (estimated) 4				23.0		14.7
1969 (estimated) 4	2, 70/			25.0		14.7

¹ Covers total end-of-year employment in full-time permanent, temporary, part-time, and intermittent positions except for summer workers under the President's Youth Opportunity Campaign; member employees of the Soldiers' Home; and various merchant seamen on vessels under Federal shipping contracts:

and the second s	1967 actual	1968 estimate	1969 estimate
Youth Opportunity Campaign	82,923	83,000	83,000
Merchant seamen	7, 464	6, 500	6, 4 0 0
Member-employees of the Soldiers' Home	250	250	260

² Includes piece-rate census workers employed for the decennial census.

³ Excludes 7, 411 project employees in 1963 and 406 project employees in 1964 for the public works acceleration program.

⁴ An official projection of population and of State and local government employment for 1968 and 1969 is not available. The percentages and ratios shown for these years are consistent with a range of reasonable estimates based on recent trends in population and State and local employment.

SPECIAL ANALYSIS G

FEDERAL ACTIVITIES IN PUBLIC WORKS

To aid in understanding the nature and magnitude of Federal activities affecting public works, this analysis brings together information on new authority and budget outlays relating to Federal construction and federally aided State and local public works. The analysis also includes, as a separate tabulation, information on major Federal programs affecting construction by private cooperatives and nonprofit groups. Other Federal programs which affect the level of private construction, such as Federal procurement, leases, loans, loan guarantees, and tax concessions, are not included in this analysis.

The trend of Federal expenditures for grants and direct Federal civil and defense construction is shown in the accompanying chart. Table G-1 indicates total budget outlays for public works, including

net lending, over a 10-year period.

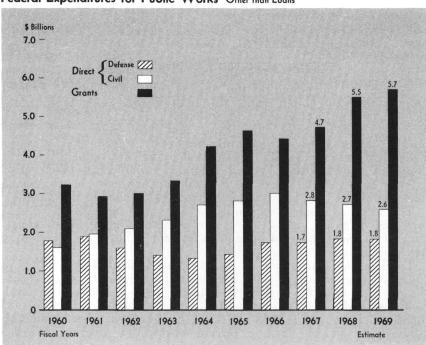
Total outlays for public works are estimated at \$10.4 billion in 1969, 52% higher than in 1960. The higher level in recent years reflects the growing need for highways, schools, public buildings, research facilities, and other structures to carry on various governmental functions. Increases in 1968 and 1969, however, have been held to a minimum by slowing down on certain construction programs in order to reduce the deficit and lessen inflationary pressures on the economy. Actions taken include reductions in 1968 under the cutback of controllable programs enacted by the Congress and a temporary postponement of new construction contracts. As a result of these actions and further reductions recommended for 1969, new obligational

Table G-1. FEDERAL EXPENDITURES AND NET LENDING FOR PUBLIC WORKS, FISCAL YEARS 1960-69 (in millions of dollars)

From	Federal	funde and	l trust fund:	e

Year	Total Federal	Direct F	ederal cons	Grants	Net	
	outlays	Total	Civil	Defense	·	lending
1960	6, 846	3, 463	1, 643	1, 820	3, 226	150
1961	6, 823	3, 758	1, 878	1, 880	2, 915	149
1962	6, 938	3, 693	2, 085	1, 608	3, 037	20
1963	7. 196	3, 704	2, 321	1, 383	3, 302	190
1964	8, 346	4,019	2, 691	1, 328	4, 186	143
1965	8, 886	4. 152	2, 800	1, 352	4, 567	16
1966	9, 428	4, 693	3, 014	1, 679	4, 446	289
1967	9, 572	4, 483	2, 752	1,731	4, 730	359
1968 estimate	10, 281	4, 489	2, 706	1, 784	5, 473	31
1969 estimate	10, 404	4, 391	2, 607	1, 783	5, 706	30

Note,—In this and the following tables, nonconstruction costs are excluded; proposed legislation is included for the years 1968 and 1969. Details may not add because of rounding. Net lending in years prior to 1967 does not reflect those repayments deposited to miscellaneous receipts, which for 1967 and later years are netted against disbursements.



Federal Expenditures for Public Works Other than Loans

authority and loan authority recommended for civil public works have been reduced by \$1.5 billion to \$8.7 billion in 1969.

As indicated in the accompanying chart, expenditures for direct Federal civil construction are estimated to decline in 1969; however, the estimated level is 59% higher than in 1960. Expenditures for defense construction have varied over the 10-year period and will be slightly lower in 1969 than in 1960. Grants for public works will continue to increase in 1969 and are 77% higher than in 1960.

DIRECT FEDERAL PUBLIC WORKS

Projects built and owned by the Federal Government are termed direct Federal works. The category includes defense and space installations; complex multiple-purpose water resource projects providing flood control, navigation, water supply, and power; research facilities; public buildings; air navigation facilities; and other structures. Budget expenditures for direct works generally measure the value of the work put in place and ultimately reflect the Federal cost of the projects.

Table G-2 provides information according to whether the direct works are for civil purposes or for national defense, by major agency. In 1969, approximately 60% of the expenditures for direct Federal public works will be for civil programs. The largest civil programs are

those of the Corps of Engineers, Bureau of Reclamation, Bonneville Power Administration, and Tennessee Valley Authority for water resources development and related power and transmission facilities. Other major direct Federal construction is undertaken by the General Services Administration, the Forest Service, the National Park Service, and the National Aeronautics and Space Administration.

Table G-2. DIRECT FEDERAL PUBLIC WORKS: EXPENDITURES AND 1969
NEW OBLIGATIONAL AUTHORITY BY AGENCY (in millions of dollars)

From Federal funds and trust funds

	I	New obliga-		
Type of program and agency	1967 actual	1968 estimate	1969 estimate	tional author- ity, 1969 estimate
Civil public works:				
Forest Service	112	137	123	139
Corps of Engineers—Civil	1.057	1, 022	923	894
Public Health Service	36	47	48	30
Social Security Administration (trust funds)	ĭ	8	26	26
Bureau of Indian Affairs	56	58	55	52
National Park Service	52	54	51	13
Bureau of Reclamation	231	210	215	202
Bonneville Power Administration	106	115	116	114
Post Office Department	43	42	88	130
Coast Guard	29	34	70	52
Federal Aviation Administration	62	79	102	71
General Services Administration	239	214	172	61
National Aeronautics and Space Administration	289	160	76	45
Veterans Administration	60	59	66	34
Tennessee Valley Authority	183	249	263	28
Other	196	218	213	87
Subtotal, civil public works	2,752	2,706	2,607	1,978
National defense public works:				
Army	447	786	604	691
Navy	523	177	356	372
Air Force	550	568	438	278
Interservice activities	80	90	134	79
Civil defense centers and shelters	1	2	6	
Atomic Energy Commission	130	161	245	353
Subtotal, national defense public works	1,731	1,784	1,783	1,773
Total, direct Federal public works	4,483	4,489	4,391	3,752

A region or community is affected by direct Federal construction both during the period of construction and over the longer period of use of the completed structure. During the construction period, depending upon the characteristics of the project and area involved, part of the construction workers, equipment, and supplies will be drawn from the immediate area and part from more distant areas. After completion of the project, the community and the Nation benefit from the services provided by the project. Low-cost electricity, transportation, water for irrigation and for domestic consumption,

recreation, and other purposes are examples of the direct benefits provided by some Federal projects. In other instances, the community benefits indirectly as in the case of military bases, laboratories, and veterans hospitals.

GRANTS AND NET LENDING FOR PUBLIC WORKS

Federal expenditures for grants and lending in support of construction by State and local governments are summarized by agency in table G-3. The Federal expenditures are generally advances or reimbursements paid to State and local governments for specific construction projects. Most of the grants are contingent on the availability of the State and local share of project costs. The Federal contribution varies by program and may be expressed as a fixed percentage of the total cost of the project or as a variable ratio depending on such factors as population and relative financial ability of the States.

Table G-3. GRANTS AND NET LENDING FOR PUBLIC WORKS: OUTLAYS AND 1969 NEW AUTHORITY, BY AGENCY (in millions of dollars)

From F	ederal	funds	and	trust	funds
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	Expendit	NOA and LA		
Type of program and agency	1967 actual	1968 estimate	1969 estimate	1969 estimate
Grants to State and local governments:		107	210	107
Appalachian regional development programs	19	127 12	219	197
Public works acceleration	73	79	69	
		31		37 32
Farmers Home Administration	20 60		39	
Economic development assistance (Commerce)	12	99 26	138	170
Corps of Engineers—Civil	259		69 239	124
Office of Education Public Health Service	118	310 219	188	191
Denote the Control of Union and Union Denote the	18	169	272	334
Department of Housing and Urban Development.	8	109	26	17
Office of Territories	85	112	154	237
Federal Aviation Administration	64	58	73	70
Federal Highway Administration	3, 988	4, 192	4, 177	4. 626
Other civil	J, 900 1	7, 192 19	35	80
Subtotal, civil grants	4, 725	5, 467	5, 698	6, 184
Department of Defense	5	6	8	6
Total, grants	4, 730	5, 473	5, 706	6, 190
Lending to State and local governments:				
Department of Agriculture	8	4	2	2
Economic development assistance (Commerce)	8	25	31	34
Office of Education	32	25	30	40
Department of Housing and Urban Development.	442	465	440	402
Bureau of Reclamation	17	14	8	4
District of Columbia	21	16	67	104
Other	3	6	4	6
Repayments	172	-235	274	-3
Total, net lending	3 59	319	308	588

For example, the Federal Government's share of the cost of the 41,000 miles of highways comprising the Interstate Highway System is 90%. The system is now more than three-fifths completed. For most of the remaining highway grant programs, the Federal share is 50%, although for special programs, such as Appalachian development highways, the Federal share may be larger.

On the other hand, allocations to States for waste treatment facilities are made on the basis of population and per capita income. The Federal share of the cost of individual waste treatment plants may

range from 30% to 55% of project costs.

Certain types of public works built by State or local governments are eligible for Federal loans on favorable terms. Most of these are in support of income-producing facilities which might otherwise be unable to provide low-cost public services such as water and sewer developments, public housing, and urban rehabilitation, including mass transportation. For example, the Department of Housing and Urban Development helps State and local governments provide housing for students and faculty in higher educational institutions by providing loans for up to 50 years at 3% per annum interest. When loans are not otherwise available on reasonable terms, the Department of Housing and Urban Development provides loans to State and local governments for the construction of public facilities for up to 40 years at an interest rate ½% to ½% above the average rate on all interest-bearing obligations forming part of the Federal debt.

CIVIL PUBLIC WORKS

Although the information on civil public works compiled in this analysis encompasses Federal expenditures for direct Federal construction and for grants as well as net lending to State and local governments in support of construction, only the direct works are subject to complete Federal control from project initiation to completion. Additional information on planning and programing direct Federal works is provided in the following sections on new and continuing work, planning and surveys, and on the authorized reserve of direct Federal projects.

New and continuing work.—Direct Federal construction projects often require a number of years from start to completion. The more complex water control developments may require 10 years or more to complete. For projects underway in 1969, table G-4 indicates the total cost, the progress through the budget year, and the estimated expenditures after 1969 to complete the projects. The rate of completion during and after 1969 is contingent not only on new obligational authority recommended for 1969, but also, in the case of water resource developments, on appropriations in future years. Over the years, the estimates may also be modified to take account of changes in construction costs.

Table G-4 distinguishes expenditures for projects started in prior years, new projects for which new obligational authority is recommended for 1969, and projects to be started after 1969 for which advance planning is provided in 1969. It is estimated that construction started or funded before 1969 will result in the expenditure of \$2.4

Table G-4. ESTIMATED COST OF 1969 DIRECT FEDERAL CIVIL PUBLIC WORKS BY CONTINUING AND NEW WORK (in millions of dollars)

From Federal funds and trust funds

Agency or program	Total estimated Federal cost	Expendi- tures prior to 1969	1969 estimated expendi- tures	Required to com- plete
Continuing work:	_			
Corps of Engineers—Civil	12, 837	6, 740	896	5, 201
Tennessee Valley Authority	1, 196	343	262	592
Bureau of Reclamation	6, 970	4,022	213	2, 735
General Services Administration	729	330	151	249
Bonneville Power Administration	634	181	110	343
Forest Service	340	203	102	35
Federal Aviation Administration	254	79	72	102
National Aeronautics and Space Administration	1,817	1, 702	7 0	46
Veterans Administration	401	207	62	132
Bureau of Indian Affairs	681	396	51	234
National Park Service	1, 155	51	48	1,056
Post Office Department	125	31	40	54
Coast Guard	78	32	39	7
Public Health Service	154	81	34	39
Social Security Administration (trust funds)	1,3 17	11 855	26 182	27 280
Total, continuing work	28,750	15,264	2,358	11,129
New projects and features in 1969:				
Federal Aviation Administration	69		30	39
Coast Guard	49		30	19
Post Office	79		28	51
Forest Service	23		21	2
Public Health Service	34	9	9 7	17
Corps of Engineers—Civil	121	5	7	109
Office of Economic Opportunity	5		5	
Bonneville Power Administration	85		5	80
Bureau of Indian Affairs	27		4	23
National Aeronautics and Space Administration	42		4	38
Veterans Administration	29	*	3	26
Southwestern Power Administration	39	*	2	37
Tennessee Valley Authority	98	*	1	97
Bureau of ReclamationOther	13 90	1	17	12 72
Total, new projects and features	£03	15	166	622
Advance planning:				
General Services Administration 1	160	100	21	38
Corps of Engineers—Civil	63	24	20	19
Post Office 1	51		19	32
Public Health Service	14	1	5	8
Bureau of Land Management	5	2	5 3 2 2 2	*
National Park Service	18	2	2	14
Coast Guard	4		2	14 2 4
Veterans Administration	7	1 1		4
National Aeronautics and Space Administration.	11	5	1	4
Bureau of Reclamation	4	3	<u>1</u> ·	*
Other	14	4	7	4
Total, advance planning	350	140	84	126
Total, direct civil public works	29,904	15,419	2,607	11,876

^{*}Less than \$500 thousand.
Includes some site costs.

billion in 1969, and an additional \$11.1 billion in later years. Expenditures for these ongoing projects represent more than 90% of the total expenditures for direct civil public works construction in 1969.

Because of the restrictive budget policy for 1969, the number of new projects or features recommended for starting has been held to a minimum. New obligational authority is recommended for the Corps of Engineers to begin construction or undertake land acquisition for 10 projects, and for the Bureau of Reclamation to initiate one project. The Post Office Department will start three new postal public buildings in 1969. Some other new projects or features will be started by the Federal Aviation Administration, the Coast Guard, and the Forest Service; and the Smithsonian Institution will begin construction of the Joseph H. Hirshhorn Museum in Washington, D.C. On all new projects, expenditures are estimated to be \$166 million in 1969, and the total cost of these projects is estimated at \$803 million.

Consistent with actions taken during the current fiscal year to hold down or reduce the level of construction expenditures, new projects such as those of the Corps of Engineers, Bureau of Reclamation, and General Services Administration which had been planned for starting in the 1968 budget, or added by the Congress, are now planned to be initiated over the 2-year period, 1968 and 1969. In table G-4, expenditures on new projects to be funded from 1968 appropriations are reflected under continuing work rather than as new projects and features. The latter category is confined to those new projects and features for which new obligational authority is recommended for 1969.

Public works planning and surveys.—Expenditures for preliminary planning, surveys, and general investigations are not included in the definition of public works used in this analysis and are therefore not reflected in the summary tables. Such studies precede construction of some types of public works and help to assure economic design of facilities. Comprehensive river basin planning requires coordinated long-range economic, hydrologic, and land-use projections prior to undertaking individual water resource projects.

As these general studies indicate a need, advance planning of the specific projects begins and, in some instances, sites must be acquired. Expenditures for advance planning of such projects are shown in

table G-4.

In addition, the Department of Housing and Urban Development will disburse \$4 million in 1969 to State and local government agencies to facilitate advance planning of their public works.

Authorized reserve of civil public works.—In addition to the projects underway, agencies whose programs regularly include construction of public works generally maintain a reserve of authorized projects. Projects included in the reserve require only detailed planning and appropriations for starting. The reserve provides a basis for the selection of projects to fulfill program needs and budgetary policy. Table G-5 indicates the size and status of planning of the authorized reserve.

Table G-5. RESERVE OF PRESENTLY AUTHORIZED PROJECTS AND PROGRAMS FOR UNDERTAKING AFTER 1969 (in billions of dollars)

	Cost of authorized reserve							
Agency	Status of plans as of Esti- June 30, 1968 mated			Status Ju	Status of plans as of June 30, 1969			
	total Federal cost	Con- tract could be let	In process	Not started	Con- tract could be let	In process	Not started	
Corps of Engineers—Civil Forest Service Tennessee Valley Authority Bonneville Power Administra-	7. I 1. 2 . 8	1.3 .2 .1	3. 2 1.0 . 2	2.6	2. 6 . 2 . 3	2. 2 1. 0 . 2	2.4	
tion	.8 .6 .5 .4 .3 .3	.! * *	.3 * .1 .1	.8 .2 .4 .3	.4 * .1	.1 .1 *	.7 .1 .4 .2 .2	
Public Health Service Veterans Administration Other agencies	.2 .2 .3	*	.3 .2 .1	.1 .1 .2	.1	.1	.1 .2	
Total	12.7	1.9	5.5	5.4	4.1	4.1	4.6	

^{*}Less than \$50 million,

Civil public works by function.—Table G-8 classifies public works activities according to the major functional categories used in the budget, with details shown for the agencies and type of program included under each heading.

The largest civil works expenditures are reported for the commerce and transportation and the natural resources functions. Of the total \$4.9 billion to be spent in 1969 in the commerce and transportation function, grants for highways and airports predominate, although air navigational facilities and post office improvements are also important segments. In contrast, direct works related to water resources development are the major component of the total \$2.1 billion in the natural resources function. Additional information on the types of facilities included in water resources developments is provided in table G-6.

Within the remaining functional categories, a number of programs, responsive to the more urgent needs of our increasingly urban society, show larger expenditure estimates for 1969 than for 1968. Grants for urban transportation improvements and neighborhood facilities are examples in the housing and community development function. Grants for rural water and sewer systems in the agriculture function also increase in 1969 over 1968.

The Veterans Administration will continue its program to replace obsolete facilities and to expand the veterans hospital system. A new hospital will be started in San Antonio, Tex., and planning will begin for a replacement hospital in San Francisco, Calif.

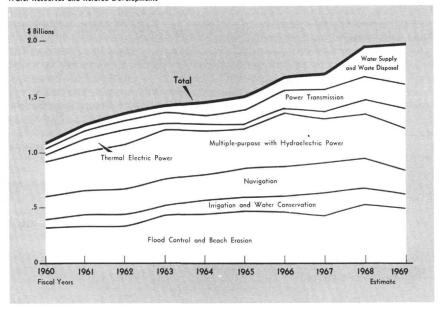
In the general government function, the General Services Administration will spend \$172 million in 1969 compared with \$214 million in 1968. Only the most pressing requirements for the acquisition of sites and planning of new buildings will be met in 1969. Projects started in earlier years will be continued.

Table G-6. BUDGET OUTLAYS FOR WATER RESOURCES AND RELATED DEVELOPMENTS (in millions of dollars)

Type and agency	1967 actual	1968 estimate	1969 estimate
Flood control works:			
Corps of Engineers—Civil	332, 2	398. 4	332.5
Grants	12.1	25. 7	69. 1
Bureau of Reclamation Soil Conservation Service (mostly grants)	iō. ò	13.6	5.4
Soil Conservation Service (mostly grants)	66.8	70. 1	60.6
International Boundary and Water Commission.	1.3	1.9	2.
Tennessee Valley Authority	4.8	10. 7	11.3
Total, flood control works	427. 2	520. 4	482.
Total, flood control worksBeach erosion control: Corps of Engineers—Civil	1.3	3. 2	1.1
Irrigation and water conservation works:			
Bureau of Reclamation	155.5	118.6	10 <u>9</u> . :
Loan and grant program	16.8	14. 2	7.5
Soil Conservation Service (mostly grants)	14. 7	12.0	9.8
Bureau of Indian Affairs	11.5	8.5	4. 5
Total, irrigation works	198. 5	153. 3	131. 1
Navigation facilities:			
Corps of Engineers—Civil	272.3	261.2	216.
Saint Lawrence Seaway Development Corporation.	*	3.2	8.5
Tennessee Valley Authority	.7	.1	
Total, navigation facilities	273.0	264.5	224. 0
Multiple-purpose dams and reservoirs with hydroelectric power facilities:			=
Corps of Engineers—Civil	338. 3	334. 1	320. (
Bureau of Reclamation	25. 3	38.5	50.2
Bureau of Reclamation	8. 1	8.8	7.9
Tennessee Valley Authority	31.6	25. 5	9, 7
Total, multiple-purpose facilities	403.3	406. 9	388. 4
Thermal-electric powerplants: Tennessee Valley Authority	65.0	126. 4	170.8
		120. 4	=====
Power transmission facilities: Tennessee Valley Authority	63.0	65, 8	60.9
Bureau of Reclamation	31.5	35.7	35. 2
Bonneville Power Administration	105. 8	114.6	116.2
Southwestern Power Administration	3. 4	4. 2	5. 2
Total, power transmission facilities	203. 7	220.3	217.5
Water supply and waste disposal facilities:		==	
International Boundary and Water Commission	.1	.1	
Federal Water Pollution Control Administration (grants)	84. 7	111.8	154.
Farmers Home Administration (grants)	11.1	27.0	33.8
Bureau of Reclamation. Department of Housing and Urban Development:	8.4	4.1	14.
	۷.	^	130.0
Grants Net lending	6.0 24.0	90.0 16.0	150.0
Total, water supply and waste disposal	134.3	249.0	352.
Total, water resources and related developments	1, 706, 3	1,944.0	1.968.0

^{*}Less than \$50 thousand.

Budget Outlays Water Resources and Related Developments



NATIONAL DEFENSE PUBLIC WORKS

Department of Defense—Military.—In support of the national defense, \$1.4 billion in new obligational authority is recommended for 1969 to strengthen and modernize facilities of the Armed Services. The programs will provide for the initial design and deployment of the Sentinel antiballistic missile system, additional pilot training facilities, shipyard modernization, and other program requirements to permit mission accomplishment, both at home and overseas.

Atomic Energy Commission.—In fiscal year 1969, the Atomic Energy Commission will begin construction on the 200 billion electron volt proton accelerator. Work will be continued on the \$285 million of facilities required to produce nuclear warheads for the Sentinel and other advanced weapons systems, and on other facilities for reactor and weapons development and for research in the physical sciences.

AID TO COOPERATIVES AND NONPROFIT GROUPS

Some private nonprofit groups carry on activities of a public service character, such as the provision of educational and health services and the conduct of research, which are similar to programs conducted by State and local governments. Federal assistance programs sometimes provide support both to State and local governments and to the private nonprofit institutions providing similar services. Federal expenditures in aid of construction undertaken by these non-government institutions are shown in table G-7, but are not included in the total public works expenditures reported in this analysis.

Table G-7. FEDERAL OUTLAYS FOR CONSTRUCTION BY COOPERATIVES AND NONPROFIT GROUPS (not included in public works)

(In millions of dollars)

Program	1967 actual	1968 estimate	1969 estimate	
Expenditures: Federal construction:				
Howard University	1	3	3	
Gallaudet College	*	ī	1	
Grants:		•	,	
Hospital construction	112	104	117	
Health professions educational facilities.	8	25	25	
Health research facilities	37	37	37	
Higher education facilities	58	89	61	
Lending:				
Rural electrification and telephones	412	470	550	
College housing	176	158	133	
Higher education facilities	48	40	47	
Repayments	-193	207	-207	
Total, expenditures and net lending	659	720	767	

^{*}Less than \$500 thousand.

Table G-8. FEDERAL ACTIVITIES IN PUBLIC WORKS (in millions of dollars)

By major function and agency

Function, organization, unit, and program	AUT	OBLIGAT HORITY N AUTHO	AND	EXPENDITURES AND NET LENDING		
, another, organization, unit, and program	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
CIVIL PUBLIC WORKS International Affairs and Finance						
Department of State: State Department and Foreign Service buildings. Cultural and Technical Interchange Center, Hawaii (grant)	4.5	3.4	*	6.5	4.8	6.5
United States Information Agency: Radio facilities and special interna- tional exhibitions.	4.8	24. 0		20. 4	16.3	13.7
Total, international affairs and finance	9. 6	27. 4	*	27. 0	21.7	20. 7
Space Research and Technology						
National Aeronautics and Space Administration: Research and space flight facilities	85. 0	37.8	45. 0	288. 6	160.0	75. 5

Table G-8. FEDERAL ACTIVITIES IN PUBLIC WORKS—Continued (In millions of dollars)

Function, organization, unit, and program	NEW (AUT) LOAN	OBLIGAT HORITY I AUTHO	IONAL AND ORITY	EXPENDITURES AND NET LENDING		
Tantion, or games on the program	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
CIVIL PUBLIC WORKS—Continued						
${\bf Agriculture and Agricultural Resources}$						
Department of Agriculture: Laboratories, research facilities, and Library 1 Grants for research facilities Soil Conservation Service: Resource conservation and development:	11.2	4.9 1.3	1.0	11.5	26. 3 1. 3	29. 1 2. 7
LoansGrantsFarmers Home Administration:	.5 1.0	1.5	. 9	.5 1.1	1.0	. 9
Rural renewal loans Grants for rural housing Grants for rural water and sewer	1.0 3.0	1.3 3.5	1.3 5.0	1. 1 8. 6	1.8 3.8	1.4 5.0
systems	26. 0	30.0	27. 2	11.1	27.0	33.8
Total, agriculture and agricul- tural resources	43. 1	42.5	38. 1	34. 6	62.7	72.8
Natural Resources						
Department of Agriculture: Soil Conservation Service: Flood prevention and watershed protection: Direct work Grants Loans	1.4 71.6 5.5	1.1 75.2 .9	.7 36.3 .8	1. 4 71. 8 6. 7	1. 1 77. 2 1. 2	. 7 68. 5 1. 0
Forest Service: Roads and research, recreational and protective facilities 1 Department of Defense—Civil: Corps of Engineers—Civil:	156.8	186. 4	139. 4	112.4	136.7	122. 8
Flood control, navigation, and multiple- purpose projects with power Trust funds Grants Department of the Interior:	1, 013. 2 25. 9 12. 1	1, 000. 5 20. 8 25. 7	875. 7 18. 5 69. 1	1, 034. 3 23. 0 12. 1	996. 3 26. 0 25. 7	900. 4 23. 0 69. 1
Bureau of Land Management: Roads and other facilities	13.0	14.5	14.3	20. 4	13.6	15. 4
Bureau of Indian Affairs: Irrigation works, roads, and schools	75. 1	63.8	52.3	56. 3 . 3	57.5	55. 1
Geological Survey: LaboratoryBureau of Mines: Laboratories and demonstraticn plants Anthracite mine drainage: Grants	1.4	1.2		.5	1.5	.2
Office of Coal Research: Demonstra-	4.5	5.6	7.5	4.3	4.5	8.0
Bureau of Commercial Fisheries: Facilities. Grants	1	1.7	.4	1.6	1.4	1.2

Table G-8. FEDERAL ACTIVITIES IN PUBLIC WORKS—Continued (In millions of dollars)

Function, organization, unit, and program	NEW C AUTI LOAN	BLIGAT HORITY AUTHO	IONAL AND RITY	EXPENDITURES AND NET LENDING		
renction, organization, unit, and program	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
CIVIL PUBLIC WORKS—Continued						
Natural Resources—Continued						
Department of the Interior—Continued Bureau of Sport Fisheries and Wildlife: Facilities	9.5	5.5	2.0	7.8	10. 0	4, 9
Grante	2.5	2. 2	2. 1	1	1.8	1.6
National Park Service: Parkways, roads, buildings, and utilities 1 Bureau of Reclamation:	56. 3	52. 1	13.4	52. 1	54.0	51.0
Irrigation and multiple-purpose proj-						
ects with power 1Loans, small irrigation projects	241. 4 12. 9	221.8 14.7	202. 1 4. 3	230. 7 16. 7	210.5 14.1	214.6 7.5
Repayments	1	8	8	 .	8	8
Grants, small irrigation projects Power transmission facilities:		. '		• •	''	
Bonneville Power Administration ¹ Southwestern Power Administration Federal Water Pollution Control Ad-	108. 6 4. 0	110.7 5.0	114. 1 5. 3	105. 8 3. 4	114. 6 4. 2	116. 2 5. 2
ministration: Buildings and facilitiesGrants	5.3 162.9	214.6	236. 6	1.9 84.7	1.9	. 6 154. 2
Department of State: International Boundary and Water Commission: Water resources projects and Chamizal settlement	9.9	12.4	5.8	15.6	15.2	11.8
Facilities for International Pacific Hali- but Commission (grant)	,.,	12.4	7.0	13.0	.2	.2
Tennessee Valley Authority: Power, water resources, and chemical facilities	1,044.6	39.7	27. 6	182. 9	248. 9	263. 1
Total, natural resources	3, 039. 7	2, 075. 8	1, 827. 4	2, 047. 3	2,129.7	2,095.9
Commerce and Transportation						
Funds appropriated to the President: Appalachian Regional Development Programs: Grants for highways, edu-						
cation, and health facilities Public works acceleration:	}	111.5	197.0		127.2	219.1
Grants Direct Federal work		-		19. 4 1. 7	12.0	
Department of Commerce: Economic development assistance:				39.9		
Appalachian highways: Grants Development facilities grants Development facilities loans Repayments	. 202.6	153.0		19.6 7.8 -1.0	99. 4 24. 9 1. 1	137.9 30.8 -1.3
Participation in U.S. expositions: 1967 Alaska Centennial, building	-			4.0	*	*
Environmental Science Services Admin- istration: Structures Bureau of Standards: Buildings	. *			.7		1.1
Maritime Administration: Library and other improvements	1			.1		

Table G-8. FEDERAL ACTIVITIES IN PUBLIC WORKS—Continued

(In millions of dollars)

Function, organization, unit, and program	NEW (AUT) LOAN	DBLIGAT HORITY I AUTHO	IONAL AND RITY		ENDITUI AND LENDI	
runction, organization, unit, and program	1967 actual	1968 estimate	1969 esti mate	1967 actual	1968 estimate	1969 estimat
CIVIL PUBLIC WORKS—Continued						
Commerce and Transportation— Continued						
Department of Defense—Civil: Panama Canal Company: Canal and harbor im- provements and bridges				4.1	10.4	12.
Department of the Interior: Bureau of Mines: Appalachian mining restoration	2.5			4		
grants Post Office Department: Post offices, im-	2.5		100.0	.4	40.4	
provements and alterations	16. 9	91.9	130.3	43. 2	42. 4	87.
gation aids Federal Aviation Administration:	30.4	40.8	51.8	28. 9	33.8	70.
Air traffic control, navigation, and re- search facilities.	27. 9	50.0	70.0	60.0	74.8 4.6	99. 3.
Dulles and National Airports Federal-aid airport program: Grants Federal Highway Administration:	71.0	66.0	1.0 70.0	2. 4 64. 1	58.0	73.
Woodrow Wilson Bridge Federal-aid highways and other trust				.3	*	
funds: Grants Forest and public land highways:		4, 929. 8	4, 621. 9		4, 191. 3	4, 171.
Grants Chamizal Memorial Highway: Grant		4.0	4.0	37.3	1.0	5.
Alaskan highway assistance grant		5.0		*	3, 2	8.
Corporation: Alterations		15.1		·		0.
Total, commerce and transportation	4,910.5	5,488.4	5,349.9	4,295.8	4,689.8	4,919.
Housing and Community Development						
Department of Housing and Urban Development:						
Urban transportation grants	98.8	95.0	133.5	11.7	64.3	107.
Public facility loans	79.7	79.5	79.9	58.7 -2.8	45.0 3.6	54. -4.
Grants for water and sewer facilities Grants for neighborhood facilities		165. 0 30. 0	150. 0 40. 0	5.7	90. 0 15. 0	130. 32.
Metropolitan development incentive			10.0			3.
grants			10.0			
Loans				14.1 -6.2	7.1	-8
Repayments Liquidating programs: Repayments Low-rent public housing:		1		5	5	
Loans	.			154.1	220.0	220.

Table G-8. FEDERAL ACTIVITIES IN PUBLIC WORKS—Continued (In millions of dollars)

Function, organization, unit, and program	NEW (AUT LOAN	DBLIGAT HORITY LAUTHO	IONAL AND ORITY	EXPENDITURES AND NET LENDING		
i unction, organization, unit, and program	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
CIVIL PUBLIC WORKS—Continued						
Housing and Community Development—Continued						
Grant to Washington Metropolitan Area Transit Authority			55, 1		1.0	18.0
Federal Home Loan Bank Board: Headquarters	13. 2)		5.2	1.5
National Capital Transportation Agency:	,,,,					"
Land acquisition and construction District of Columbia:	9.1			2. 2	2.0	
Grant for Dulles interceptor sewer Loans	43.6	79.2	103.7	21.4	11.2	67.2
Repayments	~1.8	-2.0	-2.6	-1.8	-2.0	-2.6
Total, housing and community development	359.5	446. 7	569. 6	113.8	261.7	386. 7
Health, Labor, and Welfare						
Office of Economic Opportunity: Job Corps centers and related facilities Department of Health, Education, and Welfare:	10.5	9.5	5.0	10.5	9.5	5.0
Food and Drug Administration: Build- ings	3.1	1.2	.1	.6	3.3	5.1
Public Health Service: Federal research facilities and National Library of Medicine Saint Elizabeths Hospital: Buildings Indian health facilities Grants for Indian health facilities Grants for public hospitals. Grants for health research facilities.	18.3 2.3 14.7 149.0 2.0	11. 2 1. 2 16. 9 . 2 126. 0 1. 5	12.5 1.3 16.1 .2 114.4	24. 5 .9 10. 2 .2 91. 3 1. 6	24.7 3.1 19.3 .2 104.2 1.6	24. 2 3. 7 19. 7 . 2 95. 4 1. 6
Community health service facilities,		28.6			24.5	1.3
Grants for mental health centers Grants for health educational facilities.	39. 7 115. 3	51.0 146.2	15.0 61.1	4. 0 20. 6	25. 0 63. 4	24. 6 64. 8
Social and Rehabilitation Service: Grants for mental retardation facilities.			6.0			2.0
Social Security Administration: Build- ings and district offices (trust funds)	1.4	8.2	26. 1	1.4	8.2	26.1
Total, health, labor, and welfare	356.3	401.6	257.6	165.8	286. 9	273.6
Education						
Department of Health, Education, and Welfare: Office of Education:						:
Schools in federally affected areas: At Federal installations Grants	10.0 42.3	10 0 12.3	10.0	8. 0 38. 6	9.0 21.8	11.7

Table G-8. FEDERAL ACTIVITIES IN PUBLIC WORKS-Continued

(In millions of dollars)

Function, organization, unit, and program	NEW (AUT) LOAN	DBLIGAT HORITY I AUTHO	TIONAL AND ORITY	EXPENDITURES AND NET LENDING			
- Concession organization, unit, unit program	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate	
CIVIL PUBLIC WORKS—Continued							
Education—Continued			}				
Department of Health, Education, and Welfare—Continued Office of Education—Continued Higher education facilities: Loans	120.0	40.0	40.0	32.3	25.4	30.4	
Repayments Grants	360.6	315.0	52.5	1 135.5	206.6	5 142.1	
Vocational schools (grants)	60.6	60.6	58.0	60.6	60.0	57.0	
Libraries (grants) Model secondary school for the deaf Department of Housing and Urban De-	40.0	27. 2	9.2	23. 9	21.6	21.1	
velopment: College housing loans	330.0	1,045.0	321.8	215.0 -15.8	192.5 -18.6	162.2 -20.8	
National Science Foundation: Research facilities. Smithsonian Institution: John F. Kennedy Center for Performing	13.6	5.6	8. 0	12. 4	11.5	11.5	
Arts				1.8	8.0	11.0	
Museums	3.9	2.3	16. 1	3.5	3.0	7.4	
Total, education	981.0	1, 518. 3	520.0	515.6	540. 6	452.0	
Veterans Benefits and Services							
Department of Defense—Civil: Army: Cemeteries	3. 8 3. 6	6.6	1.6 .7	1. 9 . 1	4.8	3.5 1.0	
Hospital and domiciliary facilities Research facilities	52. 1 . 3	52. 6 . 4	33 3 .4	60. 0 . 3	58. 0 . 4	65. 7 . 4	
Construction of State nursing homes, grants	4.0	4. 0	4. 0	.1	2. 4 1. 1	3. 0 . 3	
Total, veterans benefits and services.	63.8	63.9	40.0	62.3	70.3	73.8	
General Government							
Legislative Branch: Architect of the Capitol: Buildings and James Madison Library		.9	2. 8 2. 5	7. 3	7. 2	6. 7 2. 3	
Ryukyu Islands: Loans Canal Zone Government: Improvements. Department of the Interior: Office of Territories: Public facilities in Samoa, Guam, and the Trust Terri-	1.4	3.6	.4	4. 4	3.8	4.3	
tory of the Pacific Islands: GrantsLoans	7. 0 . 3	10. 4 4. 4	17. 0 5. 7	7. 9 2. 6	13. 8 5. 4	25. 6 4. 5	

Table G-8. FEDERAL ACTIVITIES IN PUBLIC WORKS-Continued

(In millions of dollars)

Function, organization, unit, and program	NEW OBLIGATIONAL AUTHORITY AND LOAN AUTHORITY				ENDITU AND LENDI	
	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
CIVIL PUBLIC WORKS—Continued						
General Government—Continued						
Department of Justice: Immigration and Naturalization Service: Border facilities						*
Federal Prison System: Prison facilities Grants for correctional and enforcement facilities	ĺ	ļ	11.3	7.6	9.0	12. 6 5. 6
Treasury Department: Bureau of Customs: Border facilities Bureau of Engraving and Printing: Air	İ	l		.4	.2	.2
conditioning Bureau of the Mint: Philadelphia Mint_		<u>-</u>	.5	2.0 11.9	1.1	.5 8.3
Secret Service: Training facilities			1.0			.8
planning	199.6	134. 2	60.8	239. 3 1. 4	214.3	171.7
Total, general government	208.6	153.7	102.1	285. 2	268. 2	243. 2
Total, civil public works	10,057.1	10,256.1	8, 749. 9	7, 835. 9	8, 491.6	8, 613.7
NATIONAL DEFENSE PUBLIC WORKS						
Department of Defense—Military:						
Interservice activities: Construction, Defense agencies		77.0	30.4	13.0	7.0	24.0
Loran stations		3. 6 154. 4	48.7	1. 8 65. 2	5. 0 78. 0	110.0
Civil Defense: Grants for shelters Emergency centers and shelters	4.9	4.5	2. 4	4. 0 0. 9	4.0	4. 7 6. 0
Army: Construction Construction, Army Reserve	402.5	373. 8 3. 0	688. 3 3. 0	447. 2 *	780. 0 2. 0	594. 0 4. 0
Construction, Army National Guard (includes grants)		3.0	2.7	.7	6.0	9.0
Navy:				_		
Construction	266. 9 5. 4	487. 6 5. 0	367. 5 5. 0	519. 1 3. 5	170.0 7.0	350. 1 6. 0
Construction	401.5	401. 2 3. 9	266.0 4.3	536. 9 5. 3	554.0 5.0	425.0 4.0
Construction, Air National Guard	9.4	9.5	8.3	8.2	9.0	9.0
Total, Department of Defense Military Atomic Energy Commission: Facilities	1, 103. 4 128. 3	1, 526. 6 213. 1	1, 426. 7 353. 0	1, 605. 7 130. 4	1, 628. 8 161. 0	1, 545. 8 245. 0
Total, national defense public works		1, 739, 7	1.779.6	1, 736. 0	1. 789. 8	1, 790, 8
Total, civil and defense public works: Federal funds and trust					10,281.4	

^{*} Less than \$50 thousand.
1 Includes small amounts from trust funds.

SPECIAL ANALYSIS H

FEDERAL EDUCATION, TRAINING, AND RELATED PROGRAMS

Overview.—The 1969 Federal budget provides outlays of \$11.6 billion for education, training, and related programs compared with \$10.8 billion in 1968 and \$5.2 billion in 1965, the fiscal year just preceding initiation of new programs under the historic Elementary and Secondary and Higher Education Acts of 1965. This amount totals 6.2% of total Federal expenditures and lending in 1969, compared with 3.9% for 1965.

The following table summarizes the principal categories to which

Federal funds are allocated over the period 1965-69:

FEDERAL OUTLAYS FOR EDUCATION, TRAINING, AND RELATED PROGRAMS BY CATEGORY

(in billions of dollars)

Category	1965	1966	1967	1968	1969
Preschool, elementary, and secondary Higher education Vocational education, work training Training of Federal Government personnel Other	0.8 2.0 .6 1.4	1.8 2.4 1.0 1.5	2.5 3.3 1.2 1.5	2.6 3.9 1.7 1.7	2.8 4.2 1.9 1.7
Total	5.2	7.3	9.2	10.8	11.6

Of the \$6.4 billion increase during the 5-year period, \$2 billion is for elementary and secondary education, \$2.2 billion for higher education, and \$1.3 billion for vocational education and work training programs. These three categories account for 86% of the total 5-year increase.

Compared with 1968, the budget for 1969 provides increased outlays totaling \$1 billion and decreases of one-quarter of a billion dollars, a net increase of \$817 million. The principal changes are as follows:

Preschool, elementary, and secondary education includes increases for education of American Indians (Interior); "Follow Through" for Head Start and other preschool children in the early elementary grades (OEO); operation of schools for American dependents overseas (Defense); payments to schools in areas affected by Federal activities, additional instructional programs for the physically and mentally handicapped and children from low-income families, and expansion of teacher training (HEW). These increases, totaling \$201 million, are offset by a reduction in supplementary grants for school books and equipment (HEW) of \$82 million.

• Higher education includes expansion of student assistance through grants, insured loans, work-study opportunities and health professions training (HEW) and GI bill benefits (VA); and medical and military research grants (HEW and Defense) which total \$316 million. These are offset in part by decreases in grants and loans for academic and housing facilities (HEW and HUD) totaling \$104 million.

 Vocational education and work-training provides for increases in training activities under the comprehensive employment programs (OEO) and vocational rehabilitation services and training

(HEW) of \$212 million.

Coverage of this special analysis.—This analysis includes all programs classified in the budget functional category for education, which is largely in the nature of support of activities in educational institutions as such. It also includes other programs classified under different functional categories which use education, research, or formal training as means for accomplishing their primary objectives. For example, included are programs which involve on-the-job training activities, conduct of research at universities, national libraries and library aid programs, military, professional, and occupational training with transfer value to the civilian economy, and Federal programs which provide educational services for foreign nations through grants or exchange of persons.

The analysis does not include privately financed insured loans for college and vocational education students (although it does include Federal advances to establish loan funds and Federal interest payments on such loans). These loans will total an estimated \$641 million in 1969, compared with \$476 million in 1968. Other activities excluded are basic recruit training of military personnel and other strictly military training; scientific research conducted outside of academic institutions, or carried on in university-managed centers under Federal contracts; the school lunch and special milk programs; university service contracts, for example, for operating mental health centers; and many in-service training programs for Federal civilian employees. The amounts reported in this analysis include some programs also

The amounts reported in this analysis include some programs also covered in other special analyses. For example, both this analysis and Special Analysis I, Federal Expenditures for Medical and Health Related Programs, include funds for health related training and research programs of health agencies conducted at universities approximating \$1.2 billion in 1969. That portion of expenditures for research in academic institutions reflected in Special Analysis J, Federal Research, Development, and Related Programs, is largely included in this analysis also. The overlap between these two analyses is approximately \$1.6 billion in 1969.

Relationship of Federal funds for education, training, and related activities to Office of Education national estimates.—The tabulation of Federal funds in this analysis and Office of Education reports of expenditures by U.S. educational institutions are not prepared on

comparable bases. Many of the elements in this analysis do not flow through educational institutions and hence would not appear in the Office of Education data. These include expenditures for federally operated schools for training of military personnel, on-the-job and similar training activities carried on outside of schools or colleges, Federal student assistance paid to individuals and partially spent by them on subsistence, education in other countries, and for the Smithsonian Institution and national libraries. On the other hand, the Office of Education reports include amounts for some major programs which are omitted from this special analysis, such as funds for school lunches and school milk, and funds for research and development in university-managed, off-campus research centers.

If the estimates in this special analysis are adjusted to correspond with those of the Office of Education, the Federal contribution to financing of the Nation's educational institutions would be about 13%.

The following table summarizes these adjustments (dollars in billions):

	1967	1968	1969
	actual	estimate	estimate
Federal education, training, and related activities. Less estimated amount not paid to institutions. Plus estimated Federal payments to educational institutions not included in this analysis.	\$9.2 4.1	\$10.8 5.0	\$11.6 5.4 1.2
Total, Federal expenditures in educational institutions	6.2	6.8	7.4
Office of Education estimate of expenditures by educational institutions ¹	48.5	51.9	55.5
	13	13	13

¹ Source: "Projections of Educational Statistics to 1976–77," Office of Education, OE-10030-67, table No. 35.

Federal funds for education, training, and related programs by level or type of aid.—The distribution of the total new obligational and lending authority and expenditures for the programs in this special analysis by level or type of assistance is presented in table H-1.

Table H-1. FEDERAL FUNDS FOR EDUCATION, TRAINING, AND RELATED PROGRAMS BY LEVEL OR TYPE (in millions of dollars)

Level or type of aid	New Len	Obligation ding Auth	al and ority		Outlays	
	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
1. Preschool, elementary, and secondary:						
(a) Current operations	2,172	2,376	2,559	2,014	2,104	2,295
(b) Facilities and equipment	382	401	269	339	397	333
(c) Teacher training	141	145	192	128	140	163
Subtotal	2,695	2,922	3,020	2,481	2,641	2,791
2. Higher education:						
(a) Institutional support	315	370	451	208	292	363
(b) Student support:	544	610	705	397	630	698
Undergraduate Graduate and professional	381	408	476	363	401	452
(c) Facilities and equipment	868	817	296	379	560	462
(d) Research, except educational	333		•	,,,		102
research	1,405	1,492	1,602	1,248	1,301	1,421
(e) Other	113	129	161	59	125	177
Subtotal	3,626	3,826	3,691	2,654	3,309	3,573
3. Vocational education, work training,						
and other adult or continuing educa-						
tion	1,494	1.631	1.980	1.230	1.682	1,898
4. Educational research, curriculum de-	.,		.,	.,		1,070
velopment, etc.	122	127	178	97	117	136
o. Training of Federal Government per-					i	
sonnel:	1 42/	1.5/2	1 500	1 204		
(a) Military personnel	1,436	1,562	1,592	1,394	1,558	1,596
(b) Civilian personnel	338	110 341	125 388	91 276	109 284	125 309
6. International educational activities 7. Other	390	415	509	332	415	497
Total, excluding credit programs	10, 195	10.934	11,483	8,555	10,115	10,925
rotal, excluding credit programs	=	10,751				=
CREDIT PROGRAMS						
8. Higher education:						
(a) Student support	235	235	251	224	239	240
(b) Facilities and equipment	504	383	526	439	399	405
Total, credit programs	739	618	777	663	638	645
Total, Federal outlays	10,934	11,552	12,260	9,218	10,753	11,570

Note: Lending authority figures in fiscal years 1967, 1968, and 1969 are adjusted to eliminate the authority from sale of participation certificates in pools of college housing and academic facility loans which are not applied to current program.

Preschool, elementary, and secondary.—The second largest category of support for education, totaling \$2.8 billion in 1969, or 24% of the total Federal outlay tabulated in this analysis, is aid for preschool, elementary, and secondary education. Both the current operations expenditures and those for facilities and equipment included in this amount represent about 7.4% of total national expenditures for these purposes in U.S. elementary and secondary schools. Note, however, that the Federal percentage would be somewhat increased if vocational education grants to local school districts were included in the above Federal estimates.

These funds are concentrated on aiding disadvantaged children, particularly children from low-income families, but also the physically and mentally handicapped, migrants, children from non-English-speaking homes, children in State institutions, and American Indians. The section of this analysis on Federal education funds for the poor

provides additional comments on such programs.

Other aids for elementary and secondary education, all administered by the Office of Education, will include \$311 million for supplementary grants for school services, equipment, books, and counseling programs, and \$416 million for schools where enrollments are affected by Federal activities. In addition, increased emphasis will be placed on teacher training for elementary and secondary education primarily under authority of the Education Professions Development Act of 1967 which broadened and expanded previous laws establishing teacher fellowships and institute programs. These activities are detailed in the following table:

ELEMENTARY AND SECONDARY TEACHER TRAINING

	Teachers trained (in thousands)					
•	1967	1968	1969			
Office of Education: Full-year training	8	9	11			
Short-term training	37 2	34 2	52 4			
Subtotal	47	46	67			
Office of Economic Opportunity: Head Start teacher training	39	49	50			
National Science Foundation: Institutes	34	33	32			
Total	120	127	149			

Higher education.—Expenditures and net lending in 1969 for support of higher education will amount to \$4.2 billion or 36% of the total funds included in this analysis; and an increase of 7% over 1968. These outlays represent about 21% of expenditures which are estimated for all U.S. colleges and universities in 1969.

As table H-1 shows, the 1969 increase in Federal funds for higher education goes principally to support students, institutions, and research. Outlays for facilities and equipment will decline in 1969,

reflecting the budget policy to limit or defer construction.

Expenditures for institutional support in 1969 will total \$363 million. HEW and NSF provide the major portion of these funds which are awarded in large part in connection with fellowship and training grants. The Public Health Service makes grants to schools preparing professional health manpower to help meet increased costs and upgrade curricula. NIH and NIMH funds are increasingly made available for general research support to supplement research project

grants.

Federal funds support students at the undergraduate, graduate, and professional levels through (1) fellowships for graduate study; (2) research contracts and grants at institutions of higher education which support thousands of research assistants, principally graduate students; and (3) grants, work-study, and loan opportunities. Table H-2 presents estimates of the number of individuals assisted, other than for training of elementary and secondary teachers, by agency and nature of aid. Support of college students under GI bill benefits is growing significantly as veterans return and further increases may be expected in 1970. In 1969, three quarters of a million college students, an increase of 190 thousand over 1968, will receive insured loans from private sources for which Federal interest payments are made. Training of health manpower under PHS programs will increase in 1969.

Table H-2. ESTIMATED NUMBER OF INDIVIDUALS ASSISTED IN FULL-TIME GRADUATE AND UNDERGRADUATE STUDY (other than for elementary/secondary teacher training) (in thousands)

Agency	Fellowships and traineeships			Resear	ch assista	ntships	Other ¹			
	1967	1968	1969	1967	1968	1969	1967	1968	1969	
Department of Defense.				9.7	9.8	10.2				
Department of the Interior	0.1	0.1	0.1					<u></u> -		
Department of Commerce	.5		- -	3.3	3.4	3.4	1.5	1.7	1.7	
tomic Energy Commission	.5	.5 .3	.6 .3	ر.و	2.4	2.4				
Department of Housing and Oroan Development Department of Health, Education, and Welfare:	. 1	ر.	ر.							
Office of Education:										
Grants	19.4	23.3	29.1				446.8	488.6	511.	
Direct loans						7 8.0	394.0	405.0	408.	
Insured loans							330.0		750 .	
Public Health Service	52.4	57.6	66.2	7.3	7.7		38.9	58.3	68.	
Social and Rehabilitation Service	14.5	14.3	14.3	<u>-</u>		<u>-</u>				
lational Science Foundation	8.9	9.4	9.4	5.0	5.0	5.4				
lational Aeronautics and Space Administration	.8	.8	,8							
ustice Department	5.8	.3 6.4	7.9				377.1	422.3	469.	
Cecique Administration									407.	
Total	102.0	112.6	128.1	25.4	25.9	27.1	1,589.4	1,936.0	2,209.	

¹ Involves some duplication because a number of students are assisted under more than one program.

The following table shows Federal outlays for the principal college construction aid programs.

PRINCIPAL FEDERAL AIDS FOR CONSTRUCTION OF HIGHER EDUCA-TION FACILITIES, EXPENDITURES AND NET LENDING

(In millions of dollars)

	1967	1968	1969
Undergraduate and graduate academic facility grants (Office of Education). Academic facility loans (Office of Education). College housing loans (Housing and Urban Development). Medical and health education facilities (Public Health Service). Health research facilities (Public Health Service). Science research facilities (National Science Foundation). All other programs.	219 81 358 29 32 58 41	324 66 333 88 32 60 56	227 79 326 90 32 52 61
Total, grants and loans	818	959	867

University based research, exclusive of research in the education process, totaling \$1.4 billion in 1969, is financed by a number of agencies to assist in meeting their mission objectives. It includes medical and health related research under the Public Health Service (\$0.5 billion), research related to military requirements under the Department of Defense (\$0.1 billion), research in the physical and biomedical sciences under the Atomic Energy Commission (\$0.1 billion), space-related research under the National Aeronautics and Space Administration (\$0.1 billion), and research in all fields of science under the National Science Foundation (\$0.2 billion). These programs are discussed in greater detail in Special Analysis J, Federal Research, Development, and Related Programs.

Vocational education, work-training, and other adult or continuing education.—The third largest category, totaling \$1.9 billion in 1969 or 16% of the total, includes a wide variety of programs providing occupational or work experience and training, basic or continuing

education.

The major portion of the expenditures in this category relates to programs which provide structured training or general work experience to persons no longer in the formal educational system. These programs, administered by the Departments of Labor, Interior, Health, Education, and Welfare, the Veterans Administration, and the Office of Economic Opportunity, are designed to reach those out of school who are untrained or whose skills have become outdated by a fast-changing technology, or those who suffer the effects of social and economic discrimination.

In 1969, 281,000 individuals will be provided on-the-job training through the Manpower Development and Training Act (MDTA), the Work Incentive Program for welfare recipients, veterans programs, and funds made available to the Department of Labor by the Office

of Economic Opportunity.

Institutional training will be provided 170,000 individuals through the MDTA, Opportunities Industrialization Centers, and the Work Incentive Program.

In other training programs, the Job Corps will provide job skills, basic education, and other remedial services to about 98,000 youths and another 63,000 individuals will receive part-time skill upgrading

and short-term employability training through the MDTA.

Many more individuals will be served through work experience programs which are designed to develop work habits and provide job experience leading to training and eventual participation in the regular labor force. About 121,000 disadvantaged youth and adults will be provided opportunities to engage in meaningful employment in useful community services. Another 469,000 disadvantaged youth will be provided opportunities for community service employment during the school year or in the summer to acquire the income needed to continue their education. Most of this activity is funded through the Economic Opportunity Act, but is administered by the Department of Labor.

Large numbers of disadvantaged youth and adults will acquire job skills and experience through the Concentrated Employment Program and the Special Impact Program. These programs are designed to concentrate a wide range of resources and services, including the programs discussed above, in selected areas of high unemployment.

Vocational education programs administered by the Office of Education will serve an estimated 8.6 million high school and out-of-school students. In addition, 411,000 adults will be provided basic literacy training through the Office of Education's adult literacy program.

PARTICIPANTS IN SELECTED VOCATIONAL AND TRAINING PROGRAMS
(In thousands)

Category and program	1967 actual	1968 estimate	1969 estimate
Structured training:			
On the job	125	186	281
Institutional	134	129	170
Job Corps.	99	98	98
New careers.	14	10	13
MDTA part-time and employability training	• • •	57	63
Indian manpower activities	11	13	14
General work experience:		.,	
Youth school and summer work	454	310	469
Community work experience	216	126	121
Classroom education:	2.0	120	
Vocational education	6,900	7,500	8,600
Adult basic education	293	319	411
Adult basic education	290	217	411

Education research and curriculum development.—Expenditures, principally by the Office of Education and the National Science Foundation, support a broad range of efforts to improve education through experiments, development, and demonstrations. Included is support for (1) educational laboratories which bring together the resources of institutions of higher education, States, private enterprise, and the talents of scholars, experts, artists, and other specialists to design and demonstrate improved curricula and methods of instruction for use in the Nation's classrooms; (2) research and development centers which concentrate on such specific questions as education of the disadvantaged, individualized instruction, early childhood learning, teacher education, and strengthening institutions of higher education; and (3) project grants which are awarded to institutions for improvement of school curricula and inquiries into education and its effects. In 1969, stress will be placed on prototype programs for improved instruction, especially for children from low-income, migrant, or non-English-speaking families. One of the prototypes will be a model school using the District of Columbia. A variety of research projects will involve joint efforts with the National Science Foundation, the National Institutes of Health, the Department of Housing and Urban Development, the Department of Labor, and the Office of Economic Opportunity.

Training of Federal Government personnel.—The estimated Federal outlay for this category is \$1.7 billion in 1969, or 15% of the total Federal funds for education, training, and related activities. Nearly all of this is for technical and professional training of military personnel in skills which are transferable to civilian use. It is estimated that the Department of Defense will provide training for more than 800,000 military personnel in 1969, about the same as in 1968, and for about 25,000 civilians. Department of Defense programs include the service academies, professional training, ROTC scholarships, and special training in technical skills. Other agencies will support full time or part time training for about 57,000 employees.

International educational activities.—This category includes activities of the Federal Government which support the education of foreign nationals either in this country or in their own country. Important programs are: Aid to or through American schools abroad under Economic Assistance Program (AID), Peace Corps teaching abroad, foreign language training and area studies, expenditures for the Center for Cultural and Technical Interchange between East and West, and educational exchange activities under the auspices of the Department of State.

Federal education funds for the poor.—The Federal Government has continued to increase its support of programs to ensure equality of educational opportunity among all children regardless of family income or social background. The major landmarks in this

direction were the passage of the Economic Opportunity Act of 1964 and the Elementary and Secondary and Higher Education Acts of 1965.

It is estimated that expenditures for Government programs with special focus on elementary, secondary, and higher education for the poor total \$2.5 billion in 1969, compared with \$2.1 billion in 1967. The principal programs and the participants in each are described

in the paragraphs and table which follow:

• For preschool and early elementary education, \$345 million is provided in the Office of Economic Opportunity. About \$90 million will be spent for 8-week summer Head Start programs for 3- to 6-year-olds about to enter school, and about \$230 million on a comprehensive, year-round child development program for 3- to 6-year-olds. In order to continue the small but significant gains a child makes in Head Start or other pre-school programs, \$25 million is provided for Head Start Follow Through which will concentrate on experimentation with new techniques and curricula

in the early elementary grades.

• Elementary and secondary programs are predominantly supported through Title I of the Elementary and Secondary Education Act which distributes \$1,073 million for education of children from low-income families through programs designed by the local districts. This Office of Education program is supplemented by Office of Economic Opportunity support for remedial and tutorial activities and by Upward Bound which provides \$35 million for an intensive summer education program to prepare poor high school students for college. In addition, the Teacher Corps provides \$22 million to train beginning teachers for service in poor urban and rural schools under the supervision of an experienced teacher. In 1969, \$12 million will be spent for a new program to experiment with means of preventing students from dropping out of school and \$153 million for expanded Federal education programs for American Indian children.

Higher education Federal student aid programs for lower income

students include:

-\$129 million for equal opportunity grants to students from a low-income family who are admitted to college;

-\$146 million for work-study opportunities for poor students

attending college; and

-\$180 million for loans to students who need such assistance in order to pursue their courses of study.

SCHOOL AND COLLEGE STUDENTS AIDED BY FEDERAL PROGRAMS ESPECIALLY FOR LOWER INCOME GROUPS

(In thousands)

	1967 actual	1968 estimate	1969 estimate	
Elementary and secondary education: Title I (HEW) Head Start (OEO) Follow Through (OEO)	9,000 680	9,500 652 9	9,500 652 79	
Upward Bound (OEO) Dropout prevention (HEW)	23	24	30 46	
Remedial tutorial (OEO) American Indians (Interior)	39 58	36 59	43 61	
Subtotal	9,800	10,280	10,425	
Higher Education: Equal Opportunity Grants (HEW) Work Study programs (HEW) Student loans (HEW)	227 220 394	276 212 405	284 228 408	
Subtotal	841	893	920	
Total	10,641	11,173	11,345	

Note:—Involves some duplication because a number of students are assisted under more than one program.

Trend in Federal funds for education, training, and related activities.—A longer perspective on Federal funds for education, training, and related activities may be seen in the table below. For the years prior to 1965 the figures are based on unpublished Office of Education tabulations, supplemented by the Bureau of the Budget, which are approximately comparable with new obligational authority for the years 1965–69. The table data also permit comparison, for the larger components of Federal funds in this analysis, with the major "functional" classifications of Federal programs used in the President's budget.

Category	Obligations							New obligational and lending authority			
	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
"Education" function (700)	}			i	1.3			·	i i		5.1
ing (051)	8. 1.3	.8 1.4	9. 1.3	1.0 1.4	1.9	1.2 2.0	1.4 1.8 1.6	1.4 2.3 1.6	1.4 2.8 1.8	1.6 3.1 1.8	1.6 3.4 2.2
Total education, training, and re- lated programs	2.9	3.1	3.3	3.8	4.2	4.7	7.2	9.6	10.9	11.6	12.3

Note: Lending authority figures in fiscal years 1967, 1968, and 1969 are adjusted to eliminate the authority from sale of participation certificates in pools of college housing and academic facility loans which are not applied to current program.

In the decade since 1959, total Federal funds for education increased fourfold. As the table illustrates, the most dramatic increase in Federal funds—from \$0.8 billion in 1959 to \$5.1 billion in 1969—is for programs that have education as their primary purpose which are included in the "education" functional classification in the Federal Budget. This function includes the Office of Education in the Department of Health, Education, and Welfare, the National Science Foundation, the College Housing program of the Department of Housing and Urban Development, education programs for American Indians conducted through the Department of the Interior, the Smithsonian Institution, the National Foundation on the Arts and the Humanities, and the Library of Congress.

Equally significant is the increase in the "health, labor, welfare" function—from \$1.8 billion to \$3.4 billion between 1965 and 1969. This reflects the extent to which educational institutions and educational activities have been essential to the Government's thrusts into manpower training, health research and services, and the attack on poverty. "All other" Government programs exhibit an increase, primarily due to the recent expansion in education benefits for returning veterans. The military technical and professional programs

are not changing appreciably.

Federal funds for education, training, and related programs by agency.—Ten cabinet departments and more than 15 other agencies report education, training, and related programs as an integral part of their mission, although only six departments and four agencies administer education programs totaling \$250 million or more per annum. Table H-3 identifies these agencies and the major programs

included in this analysis.

Of the \$11.6 billion estimated outlays on education, training, and related programs in 1969, \$4.8 billion or 41% will be made by the Department of Health, Education, and Welfare. Within this Department, \$3.3 billion or nearly three-fourths of the total HEW funds will be administered by the Office of Education. The Public Health Service, including the National Institutes of Health and the National Institute of Mental Health, will administer about \$1.1 billion. Over the 3-year period from 1967 to 1969, HEW expenditures for education-related programs show an increase of 23%.

The Department of Defense is the second largest Federal contributor to education with estimated outlays in 1969 of \$2 billion. Most of these outlays are for military technical and professional training and the increase of \$100 million over 1968 is largely associated with

requirements of the present international situation.

The Office of Economic Opportunity ranks third among Federal agencies in expenditures for education, training, and related activities. In 1969 these expenditures will amount to \$1.3 billion, an increase of 20% over 1968 and 59% over 1967. All of these expenditures are directed at the poor, and include Head Start, Job Corps, and youth and adult work experience and training programs.

In total, the Department of Health, Education, and Welfare, the Department of Defense, and the Office of Economic Opportunity account for \$8.1 billion or 70% of the 1969 total Federal outlays for education, training, and related programs. The balance of \$3.5 billion is accounted for in other agencies covering a wide range of activities:

• The Department of Housing and Urban Development plays a

 The Department of Housing and Urban Development plays a large role in providing direct long-term loans for financing college housing and related facilities for faculty and students, including student nurses and hospital interns.

• The National Science Foundation provides funds for basic re-

search and education in the sciences.

• The Veterans Administration supports the education of recent veterans, disabled veterans, children of totally disabled or deceased veterans, and training in medicine and dentistry.

• The Department of Labor finances programs for occupational

training and manpower research.

 The Department of Interior provides elementary, secondary, and college level education and vocational training for Indians and Alaskan natives.

 The Agency for International Development finances both formal and informal education and training of individuals from develop-

ing countries.

• The National Foundation on the Arts and Humanities will be playing an increasingly important role in education and training in the arts and humanities.

Table H-3. FEDERAL FUNDS FOR EDUCATION, TRAINING, AND RELATED PROGRAMS, BY DEPARTMENT AND PROGRAM

(In millions of dollars)

Department, agency, and program		NEW OBLIGATIONAL AND LENDING AUTHORITY			OUTLAYS		
	code	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Department of Health, Education, and Welfare:							
Office of Education:	[]		Ì]			İ
Elementary and secondary education:	1 1		ì	j			
Education of children from low-income families and projects to prevent dropouts	701	1,053	1,191	1,238	1,057	1,070	1,089
Supplementary services	. 701	135	209	189	75	155	157
Schoolbooks and strengthening State educational agencies	701	132	134	81 (121	123	88
Educational planning and evaluation	. 701			[14			(
Aid to federally impacted school districts:						İ	i .
Operation		416	416	396	400	341	38-
Construction	701	53	23	15	47	31	3
School equipment, guidance, and testing	701	108	106	39	92	113	6
National Teacher Corps		11	14	31 }	13	13	2:
Civil rights and other	. 701	8	10	15	9	10] [1
Education of the handicapped	. 701	5	18	37	1	13	3
Aid for undergraduates and graduate college students:						i	
Equal opportunity grants and insured loan interest payments		152	190	215	58	160	22
Work-study	702	134	140	140	106	132	144
Teacher Training:							
Training of elementary and secondary teachers	. 704	87	88	132	76	85	10
Training of college teachers	. 704	84	89	102	54	86	9
Higher education academic facilities; graduate and undergraduate	702	540	476	113	219	324	22
International education	. 702	17	16	23	13	18	1.
Other aids to higher education institutions, including aid to developing colleges	702	67	71	99	43	70	6
Expansion and improvement of vocational education	704	303	297	322	253	287	28
Grants for libraries and community services:							_
Public libraries	704	75	62	44	56	55	5
Higher education libraries		25	25	25	8	25	2
Other libraries and community service assistance		8	19	20	_5	15	2
Education research and development	_ 1 704	91	93	150	71	88	1 10

Other aids to education, including salaries and expenses of Office of Education	704	34	38	46	27	39	45
Total, Office of Education	-	3, 538	3, 725	3, 486	2, 804	3, 253	3, 299
Special institutions, including American Printing House for the Blind, Gallaudet College, Howard University	702-704	21	29	28	17	25	28
Public Health Service: Construction of medical schools and other health education facilities. Health professions training. National Institutes of Health. National Institute of Mental Health. Other Public Health Service	- 651 - 651 - 651	160 97 684 168 61	203 130 730 207 72	85 136 722 207 73	29 101 583 123 31	88 102 645 113 38	90 136 655 160 50
Total, Public Health Service		1, 170	1, 342	1, 223	867	986	1, 091
Social and Rehabilitation Service: Maternal and child welfare grants Public assistance grants to States and assistance to refugees Research and training Rehabilitation services and training	- 653 659	31 14 60 80	36 22 63 135	49 18 78 207	18 14 54 67	31 22 60 108	41 18 75 160
Total, Social and Rehabilitation Service	-	185	256	352	153	221	294
Other Health, Education, and Welfare: Educational broadcasting facilities	- 704 702	3	4	13 20 11	8	7 4	9 20 8
tation	- 654	18	12	12	18	12	12
Total, Department of Health, Education, and Welfare	-	4,935	5,368	5, 145	3,867	4,508	4,761

[†] Trust fund.

Table H-3. FEDERAL FUNDS FOR EDUCATION, TRAINING, AND RELATED PROGRAMS, BY DEPARTMENT AND PROGRAM (in millions of dollars)—Continued

Department, agency, and program	Functional	NEW OBLIGATIONAL AND LENDING AUTHORITY			OUTLAYS		
Department, agency, and program	code	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Department of Defense:	0.51						
Support of overseas schools for dependents		84	94	112	63	74	99
Research grants and contracts with educational institutions.	. 051	262	239	294	253	238	274
Professional, technical, and related training: Military personnel, including service academies Civilian personnel		1,428 5	1,553	1,583	-1,386 5	1,549 6	1,587
Civil defense research and training		13	13	8	13	13	10
Department of Defense-Civil:				l .			
Canal Zone Government, contributions to schools, including capital outlay		10	11	11	13	13	13
Ryukyu Islands administration: Schools		6	11	12	6	11	11
Corps of Engineers: Research and training	401	1	2	2	1	2	2
Total, Department of Defense		1,809	1,929	2,030	1,740	1,905	2,004
Office of Economic Opportunity (funds appropriated to the President): Community Action program: Head Start	655	349	340	380	295	310	345
Adult training, remedial education, research, etc		92	100	115	85	99	108
Job Corps—Urban and rural centers	655	184	264	275	268	286	275
School and summer youth programs	655	197	146	204	125	192	198
Work Experience—Adult training, including remedial education	. 655	11	3	1	13	5	1
Migrant education		26	17	21	22	19	20
VISTA—Training of volunteers		5	3	4	5	3	1
Comprehensive employment programs	655	95	185	362	2	163	342
Total, Office of Economic Opportunity		958	1,057	1,362	814	1,076	1,293

National Science Foundation: Basic research and specialized research facilities Grants for institutional science programs Science education Other science activities	703 703 703 703 703	227 88 123 42	229 82 126 58	244 66 131 59	209 49 118 39	226 72 115 43	230 78 120 52
Total, National Science Foundation		480	495	500	415	456	480
Veterans Administration: Compensation and pensions: Subsistence allowances for veterans in vocational rehabilitation. Readjustment benefits: Aid under War Orphans' Educational Assistance Act, Veterans' Readjustment Benefits Act, and vocational rehabilitation for disabled	800	13	15	16	13	15	16
veterans	803	364	436	612	287	509	612
Training of medical personnel engaged in VA medical activities	804	54	64	74	52	64	74
Total, Veterans Administration		431	515	702	352	588	702
Department of Labor: Manpower Development and Training Act: Institutional and on-the-job training Apprenticeship, area redevelopment, and research activities	652 652	392 13	386 14	413	275 14	444 13	430
†Department of Labor: Grants to States for school counseling and testing by employment service	652	3	3	3	3	3	3
Total, Department of Labor		408	403	432	292	460	449
Department of the Interior: Shared revenue payments to States and counties under miscellaneous permanent appropriations, largely mineral leasing and grant lands (estimated proportion for school support) Bureau of Indian Affairs: School construction, alteration, repairs, and maintenance Indian education and related programs Bureau of Mines: Health and safety training Water and saline water research, including assistance to States and research Geological survey research and training Administration of territories, including Samoa and Trust Territory of the Pacific, prorated portion for schools. All other, Department of the Interior	400 401 704 652 401 409 910 404	29 56 118 2 21 1	30 41 129 2 23 1	31 32 155 2 23 1	29 41 112 1 18 *	30 38 114 1 21 1	30 35 153 2 23 1
Total, Department of the Interior		239	239	260	212	220	260
							l======= `

*Less than \$500 thousand. | Trust fund.

Table H-3. FEDERAL FUNDS FOR EDUCATION, TRAINING, AND RELATED PROGRAMS, BY DEPARTMENT AND PROGRAM (in millions of dollars)—Continued

Department, agency, and program	Functional	NEW OBLIGATIONAL AND LENDING AUTHORITY			OUTLAYS		
	code	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Economic Assistance (Agency for International Development)	152	205	204	240	143	145	171
Department of Agriculture: Agricultural research service: Training and research, including foreign currency program	355	12	10	13	11	7	7
tions for research Federal extension service for cooperative extension work Forest Service: Largely payments of shared revenues to States and counties for	355 355	57 93	57 97	60 101	54 93	57 90	63 101
schools		23 3	24 3	26 4	23 3	24 8	25 6
Total, Department of Agriculture		188	191	204	183	186	202
Atomic Energy Commission: Research, including conduct and facilities Graduate and professional training and related support for higher education Other	058 058 058	100 7 6	100 7 5	106 8 6	103 7 6	105 7 5	107 8 6
Total, Atomic Energy Commission		113	112	120	117	118	120
National Aeronautics and Space Administration: Research and training	251	133	115	129	141	136	129
Department of State: Mutual educational and cultural activities: Largely American and foreign student, teacher, professor, specialist, and leader exchange programs. Educational and cultural affairs: Center for Cultural and Technical Interchange Between East and West.	153	47 6	45	49	49	46	47

some and overseas dependents	302	10 (10 1	12	10	''	1 14
Federal Highway Administration	503	2	3	5		5	6
Federal Aviation Administration: Principally training of civilian Federal personnel.	501	16	18	19	15	18	19
†Federal Highway Administration: Research and development	503		.,	· 5	'5		<u>'</u> '
All all a to the state of the s	707	-	~	~	~	-	-
All other Department of Transportation, including high-speed grant research and						_	
other research	503	1]	1]	1	1	1	1
							
Total, Department of Transportation		37	43	42	34	43	44
	≔	 =-					
Department of Commerce:			1			ļ	
Maritime Administration: State schools and other maritime training	502	5	6	7	6	7	7
Scientific and technological research	506	*	ī	1	*	*	Ì
Other research and State assistance	506	12	10	اة	4	12	1 1 6
Other research and State assistance	,000	ן כו	10	•	4	12	כו
T. I.D		10	10	1,	10	20	22
Total, Department of Commerce		19	18	16	10	20	23
	704			22			
National Foundation on the Arts and Humanities	704	- 11	12	22	9	14	41
†National Foundation on the Arts and Humanities; fund for private contributions	704	1	1	2	Ī	1	2
Department of Justice: Vocational training in Federal prison industries and training in		1	1			1	
law enforcement	908	9	11	16	7	11	13
Department of Housing and Urban Development: Grants for training in community	,,,,	1			•		
	553		4	10			7
development, city planning, and transportation management	ן כככ	1 1	0	10	-	4	ı , , , , , , , , , , , , , , , , , , ,

*

Department of Transportation:

Salaries and expenses: Foreign Service Institute, grants to oversea schools, etc_____

Total, Department of State

†Educational Exchange Trust Fund

Military Assistance: Training of military and civilian personnel administered by De-

Peace Corps: Training activities

Legislative Branch: Library of Congress

†Library of Congress, gift and trust fund income accounts

Smithsonian Institution

†Smithsonian Institution: trust fund

U.S. Coast Guard, principally Coast Guard Academy, education of uniformed per-

sonnel and overseas dependents

partment of Defense from funds appropriated to the President

^{*}Less than \$500 thousand. †Trust fund.

Table H-3. FEDERAL FUNDS FOR EDUCATION, TRAINING, AND RELATED PROGRAMS, BY DEPARTMENT AND PROGRAM (in millions of dollars)—Continued

Department, agency, and program	Functional	NEW OBLIGATIONAL AND LENDING AUTHORITY			OUTLAYS		
Department, agency, and program	code	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
United States Information Agency: Information center and library activities, Foreign Service Institute, etc.	153	8	7	7	7	7	7
General Services Administration: National Archives services, presidential library activities, and national historical publications grants	905 401	4	4	5	4	4	5
Tennessee Valley Authority: Mainly in-lieu-of-tax payments and cooperative research Legislative Branch: Government Printing Office: Distribution to depository libraries	910	2	2	2	2	2	2
U.S. Arms Control and Disarmament Agency: Research Small Business Administration: Training	. 151	Ĩ I	Ī	1 1	1	[1 1
Total, excluding credit programs		10, 195	10, 934	11, 483	8, 555	10, 115	10, 925
CREDIT PROGRAMS							
Department of Health, Education, and Welfare: Academic facilities	702	203	159	163	81	66	79
Academic facilities Student loans to health personnel National Defense Educational Act: Student loans Insured student loan advances	651 702 702	33 192 10	43 192	46 192 13	33 181 10	43 189	46 182 12
Department of Housing and Urban Development: College housing loans	1	301	224	363	358	333	326
Total, credit programs		739	618	777	663	638	645
Total, Federal outlays		10, 934	11, 552	12, 260	9, 218	10, 753	11,570

Note: Lending authority figures in fiscal years 1967, 1968, and 1969 are adjusted to eliminate the authority from sale of participation certificates in pools of college housing and academic facility loans which are not applied to current program.

^{*}Less than \$500 thousand. | Trust fund.

SPECIAL ANALYSIS I

FEDERAL HEALTH PROGRAMS*

Federal expenditures for medical and health related activities will rise to \$15.6 billion in 1969, 8.3% of Federal expenditures for all purposes. Comparable figures for 1967 and 1968, respectively, are \$10.8 billion and 6.8%, and \$13.9 billion and 7.9%. This rise reflects trends in Federal programs as well as a shift in the relative shares of health expenditures borne by the Federal Government, State and local governments, and by private sources. In 1965, with national expenditures for health near \$39 billion, Federal expenditures represented approximately 12% of the total (State and local governments, 13%, and private sources, 75%). On the basis of preliminary data, total spending for health purposes in 1967 has reached a level of \$47 billion with Federal expenditures representing 23% of the total, State and

local, 12%, and private sources, dropping to 65%.

The marked increase in the Federal share of national health expenditures is primarily attributable to its increasing role in paying for medical care services. In 1965 the Federal Government spent \$3 billion or 9% of the total national bill of \$35 billion for medical care services. In 1967 reflecting the initial impact of Medicare and Medicaid the Federal Government spent \$7.8 billion or 18% of the \$42 billion spent by the Nation for medical care services. The Federal

share may exceed 20% in 1969.

Table I-1 shows the distribution of Federal health expenditures by functional category. While the increase in Federal financing for health services is striking, it should be noted that all categories show increasing Federal support over the 3-year period, 1967–1969.

Development of health resources.—Federal programs aimed at enlarging the health resources of the Nation include biomedical research, health manpower development, medical and health facility construction programs and efforts directed toward improving the organization and delivery of health services. These programs will account for \$3.2 billion or 20% of total Federal health expenditures in 1969.

Health research.—Federal expenditures for biomedical research will rise to \$1,513 million in 1969, an increase of \$69 million over 1968. It is estimated that the 1969 Federal obligations will represent 65% of the national effort with industry supplying an additional 25%and the remaining 10% being financed by foundations and voluntary health agencies.

Of the Federal biomedical research expenditures, about 61% will support the efforts of educational institutions and nonprofit organizations, 25% will be utilized for direct Federal research activities, and 14% will support research conducted by private industry and others.

and training.

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^{*}This analysis summarizes the medical and health related expenditures of the Federal Government. It includes activities classified in the "Health, Labor, and Welfare" function as well as health programs which are undertaken and classified as part of another function such as "National Defense," "Education," or "Veterans Benefits and Services."

1 As used in this analysis, medical care services excludes expenditures for construction, research,

Table I-1. FEDERAL EXPENDITURES FOR MEDICAL AND HEALTH-RELATED ACTIVITIES BY CATEGORY (in millions of dollars)

	1967 actual	1968 estimate	1969 estimate
Development of health resources, total	2, 431	2, 816	3, 163
Health research	1, 364	1, 444	1,513
Training and education	594	732	782
Construction of hospitals and health facilities	391	481	642
Improving the organization and delivery of health services	82	159	226
Provision of hospital and medical services, total	7, 831	10, 382	11, 693
Direct Federal hospital and medical services	2, 552	2, 684	2, 783
Hospital and medical services, indirect	5, 279	7, 698	8, 910
Prevention and control of health problems, total	540	682	700
Disease prevention and control.	386	500	491
Environmental control.	37	50	51
Consumer protection	117	132	158
Total expenditures and net lending from Federal and trust funds	10, 802	13, 880	15, 556

As in the past, the Federal organizations with the major responsibility for medical and health related research will be the National Institutes of Health and the National Institute of Mental Health in the Department of Health, Education, and Welfare. Through the programs of the Institutes, the Federal Government provides support for the conduct of research, research training, the development of research facilities and other resources, and the dissemination and employment of new knowledge.

The primary mechanism for the support of research and development by NIH and NIMH continues to be the research project grant. In total, about 15,000 project grants will be supported in each of the 3 years. However, increasingly, these two organizations are pursuing larger collaborative research projects. For these purposes the contract is usually employed. In 1969 greater emphasis will be given to such projects as the artificial heart and kidney, organ transplants, vaccine

and drug development, and fertility control.

Relatively, the largest increase in 1969 for research and development activities in HEW is for the air pollution program. A level of \$59 million is provided of which \$43 million will be for technology to control pollutants such as sulfur oxides from fossil fuels and emissions from auto exhausts. The remainder of the funds are spent primarily for determining the health and economic effects of air pollution.

In addition to the efforts of HEW, significant biomedical research activities are carried on under the auspices of the National Aeronautics and Space Administration, the Atomic Energy Commission, the Defense Department, and the Veterans Administration. While this research is directed to the primary missions of these individual agencies, the contributions have widespread application to health and medical problems of all.

Table I-2 provides a first attempt in this Special Analysis to classify Federal health research expenditures between "basic science" and "targeted research and development." In addition, estimates of targeted research and development are classified by selected program areas. As this tabulation represents the initial attempt at this classification, the figures should only be viewed as indicators of trends.

Table I-2.—FEDERAL EXPENDITURES FOR RESEARCH (in millions of dollars)

	1967	1968	1969
	actual	estimate	estimate
Basic science Targeted research and development	322	326	346
	971	1, 051	1, 099
Neoplasms Heart and circulatory system Mental health Neurological diseases and blindness Air pollution and other environmental research All other Research facilities construction	147 126 35 90 27 547	155 136 35 93 37 595 67	155 139 38 97 59 611 68
Research, total	1,364	1,444	1,513

Training and education.—Growing levels of biomedical knowledge increased demands for health services, and an expanding population continue to reinforce the need for more personnel trained in the health professions. Federal programs that are designed to help meet these national needs include: student loans and scholarship funds, financial aid for the construction of schools in the health professions, financial support for innovations and experiments in medical education, and training and education activities in conjunction with the medical programs of the Veterans Administration, the Public Health Service, and the Defense Department.

Through the efforts of these programs it is estimated that 318,000 students will receive training in 1969, supported by expenditures of \$691 million. As shown in table I-3, 29,700 physicians, dentists, and nurses graduating in 1969 and 15,765 paramedical trainees and other students graduating or otherwise completing their training will have received financial assistance from these programs. Additional physicians, nurses, and dentists in training have been included in the "all other" category.

Enlargement of the health education system will be supported by \$90 million of Federal expenditures in 1969, an increase of \$61 million over the 1967 level. As a result of these and previous expenditures, the spaces for first-year students will be increased as shown in table I_4

In addition to the support provided for expansion of the medical education system and aid to students in the traditional medical professions, the Federal Government will support innovative efforts to improve curricula and develop new categories of ancillary health personnel. Revisions to expiring legislation will be proposed to increase and accelerate the output of health manpower.

The major support for students in the health professions is provided by grants from HEW, but further support of medical education and training will be provided as a byproduct of the direct medical care

Table I-3. FEDERALLY AIDED TRAINING AND EDUCATION

	E: (in mil	spenditures lions of dol	lars)	Numbers ¹ (in thousands)			
	1967	1968	1969	1967	1968	1969	
Degree or certificate training:				1			
Research training	169	171	172	26.3	28.0	29.6	
Physician training	42	53	57	15.3	18.7	18.4	
Completing training				4.5	4.8	5.7	
Dentist training	15	17	19	14.1	16.1	17.5	
Completing training				4.9	5.4	5.6	
Nurse training	29	37	36	26.6	42.8	47.4	
Completing training				13.8	17.0	18.4	
Other health professions training	57	79	80	8.2	11.6	14.5	
Completing training			- 1	3.6	4.3	5.9	
Paramedical training	16	19	25	4.2	3.7	4.0	
Completing training		•		12.3	10.3	9.9	
All other training	236	269	302	125.0	144.7	186.4	
-						317.8	
Total	564	645	691	219.7	265.7		

¹ Numbers in any given year may reflect the impact of expenditures in prior years.

Table 1-4. FEDERALLY AIDED HEALTH PROFESSIONS SCHOOL CONSTRUCTION

	E (in mi	xpenditure llions of do	s llars)	First year spaces added 1				
	1967	1968	1969	1967	1968	1969		
Medical schools	18 5 2 4	55 16 6 10 1	57 16 6 10	315 260 (²) 790	350 40 (²) 1,230	520 270 (²) 790 (³)		
Total.	29	88	90					

Numbers in any given year may reflect the impact of expenditures in prior years.
Not available.

service activities of other Federal agencies. For example, in 1969, an estimated 66,000 medical and paramedical personnel will be trained or continue their education as part of the ongoing medical service program of the Veterans Administration.

Construction of health facilities.—In 1969, \$428 million of Federal expenditures will support the construction or modernization of community hospitals and other health facilities and \$214 will be spent for the construction of hospitals and health facilities required for the medical service and health activities of Federal agencies.

Support for the expansion and modernization of non-Federal health facilities is provided primarily through the Hill-Burton program, and the Community Mental Health Centers Act. Since the enactment of the Hill-Burton legislation in 1946, 427,000 beds have been constructed

³ Spaces will be added after 1969.

or modernized as a result of funds made available under the program. In 1969 alone, health facilities providing approximately 31,000 beds will be constructed or modernized with the support of Hill-Burton funds. By the end of 1968, 367 community mental health centers will have been constructed with Federal financial aid since the enactment of the authorizing legislation in 1963. An estimated 110 additional centers will come into being as a result of this program in 1969. Table I-5 shows facility construction trends over the last 3 years. The rising levels of support for nursing home or long-term care facilities construction and modernization reflect two program trends. The first of these trends is the increasing level of demand for specialized nursing home care, as an alternative to hospital care, which is brought about in part by the Medicare program support for extended medical care treatment provided in nursing homes. The second significant program trend is the development of a continuum of medical care facilities, ranging from intensive care to nursing home facilities.

Additional support for the construction of non-Federal health facilities is provided by grant and loan programs administered by the Small Business Administration, the Department of Commerce and the Department of Housing and Urban Development. The programs of the Small Business Administration and the Department of Commerce primarily support the construction of health care facilities. The activities of the Department of Housing and Urban Development support the construction of essential public facilities, including grants for the construction of basic water and sewer facilities which will contribute to the improved health of a community.

Table I-5.—HOSPITAL AND HEALTH FACILITY CONSTRUCTION

	E (in tho	xpenditures usands of d	ollars)	Numbers ¹ (in thousands)			
	1967	1968	1969	1967	1968	1969	
Federally supported construction of hospitals and other facilities: General hospitals Long-term care facilities Sewer and sanitation facilities Other Federal hospitals and health facilities:	140 46 49 33	162 51 124 28	152 63 176 37	20.6 9.8	18.5 11.6	19.7 11.8	
Hospitals Nursing homes Other facilities	105 2 15	81 7 28	160 1 53	3.6	2.2 2.0	5.0 .4	
Total expenditures	390	481	642				

¹ Numbers in any given year may reflect the impact of expenditures in prior years, and include beds added, modernized, and replaced.

Organization and delivery.—A recent report by the Department of Health, Education, and Welfare noted that the total national expenditures for personal health care in fiscal 1967 reached \$40 billion. Per capita, this represents an increase over 1966, of 7% in current dollars. "In constant dollars however there was relatively no increase in per capita expenditures indicating that nearly all of the increases in personal health care expenditures was due to the rise in medical care prices." ² These facts are confirmed by the Consumer Price Index for the 12-month period ending June 1967, which shows that the medical care component rose by 7.3% (more than 2½ times the 2.7%

increase for all items in the index).

These trends in rising demand for health services and increasing prices are of national concern. The recent report of the National Advisory Commission on Health Manpower calls for major efforts to meet these challenges through more efficient utilization and coordination of health resources. The Federal Government has responded to these needs by establishing several programs that are designed to improve the organization and delivery of health services. In 1969, Federal expenditures for these purposes will rise to \$226 million, 42% above 1968 and 175% over 1967. Of the 1969 expenditures, 93% is estimated for programs in the Department of Health, Education, and Welfare. Most of the programs toward which these efforts are directed have been initiated in the Public Health Service which will spend an estimated \$191 million in 1969 primarily through the programs discussed below.

Federal grants under the Partnership for Health program will be increased by \$9 million in 1969, to a level of \$15 million, to help State and local governments initiate health planning units and expand those that already exist. These Federal grants will help create and support health planning units in virtually every State. Planning activities include ascertaining health levels, taking inventory of health resources, and determining additional resource requirements such as facilities, equipment, and manpower. In addition, these health planning units, in cooperation with the medical profession, will assess the distribution and use of health resources and evaluate the effect utilization of health services has on the health status of their

populations

The Regional Medical Program, initiated in 1966, will spend \$18 million in 1968 and will complete the initial planning phase for 54 regions of which 30 will move to operational phases. Expenditures of \$40 million in 1969 will support new and continued planning and are expected to result in operational programs covering the total population of the United States. This program has established cooperative arrangements between the medical profession and medical institutions in specific regions to make available to patients the latest advances in diagnosis and treatment of heart disease, cancer, stroke, and related diseases. In 1969, new emphasis will be directed towards implementing and operating under these arrangements and in focusing these voluntary professional arrangements toward efficient use of manpower and facilities.

² Department of Health, Education, and Welfare, Social Security Administration, Research and Statistics Note No. 21, Nov. 20, 1967, "Personal health care" is more limited than "Medical care services" and excludes general public health activities and expenditures by philanthropic agencies.

In the past, the Public Health Service conducted or, through grants and contracts, helped finance research in the organization, financing, and utilization of health services through a variety of programs and organizational units. The 1969 budget reflects the first full year focusing of these efforts under the proposed National Center for Health Services Research and Development. Expenditures for the Center—estimated at \$18 million in 1969—will be directed toward studies and experimental projects aimed at containing the rise in medical prices and improving the utilization of health resources. These will include demonstration models in delivery of comprehensive health services, use of health auxiliaries, and group medical practice.

Expenditures and activities classified under "Provision of Hospital and Medical Services" will also contribute towards improvement in the organization and delivery of health care. The Medicare and Medicaid programs, under authority enacted in 1967, will experiment with innovative reimbursement plans aimed at increasing incentives for more efficient medical practices. The OEO neighborhood health centers and the maternity and child centers created by the Children's Bureau will also experiment with new and improved methods of delivering health care, including the use of nonprofessional and paramedical personnel.

Expenditures for organization and delivery are classified in table I-6. Analytic studies, planning, and demonstration activities are common to all these programs, although in varying proportions. As analytic studies of systems models are developed and planning techniques can be fitted to regional and local needs, increasing expenditures are expected to be centered on demonstrations.

Table 1-6. FEDERAL EXPENDITURES FOR IMPROVING THE ORGANIZATION AND DELIVERY OF HEALTH SERVICES (in millions of dollars)

	1967	1968	1969
	actual	estimate	estimate
Analytic studies	18	35	46
	17	23	45
	47	101	135
Total expenditures	82	159	226

Provision of services.—The category, "Provision of Hospital and Medical Services" includes (1) payments to or on behalf of individuals for hospital and medical care in non-Federal facilities and by private physicians, and (2) the expenses of health care facilities operated directly by the Federal Government. The major Federal programs which provide payments for health care are: health insurance for the aged (Medicare), medical assistance for the needy (Medicaid), maternal and child health programs, Office of Economic Opportunity health programs, and the Federal employees health benefits program. The direct care activities consist primarily of those health programs conducted by the Department of Defense, the Veterans Administration and the Department of Health, Education, and Welfare for their beneficiaries in Federal facilities. These agencies, however, also expend

substantial amounts to provide care for their beneficiaries under contract in non-Federal facilities. (See table I-7.)

In 1969, approximately two-thirds of the total Federal health budget will be expended to provide hospital and medical services to large segments of the American population. A total of \$11.7 billion will be for these purposes, an increase of \$1.3 billion over 1968 expenditures. The provision of services has been the fastest growing area of health expenditures in the Federal budget over the past few years, increasing 13% in 1969 over 1968 and almost 50% over 1967. These programs, discussed below, are estimated to account for 20% of the total national expenditures for personal health care from all sources.

T 11 17	DROWGION	OF HOSPITAL	AND MEDICAL	CEDVICES
I able I−/.	PRUVISIUN	UP DUSPILAL	AND MEDICAL	SERVICES

	(In m	Expenditure illions of d	s ollars)		mbers treat thousands	
•	1967	1968	1969	1967	1968	1969
Provision of direct Federal hospital and medical services	2,552	2,684	2,783			
Inpatients treated	1,735 817	1,822 862	1,890 893	2,150 61,688	2,218 65,040	2,251 66,064
Provision of hospital and medical services, indirect	5,279	7,698	8,910			
Inpatients treatedClinic and physician visits	3,854 1,425	5,235 2,463	6,059 2,851	14,816 (2)	1 4,992 (2)	1 5,110 (2)
Total	7,831	10,382	11,693			

Incomplete reporting.
 Not available.

Medicare.—The aged, prior to Medicare, faced the twin spectres of reduced income and high frequency of expensive illness. The Nation's response to the health problems of the aged was a health insurance program for virtually all persons 65 and over, covering 90 days of hospital care, posthospital care in extended care facilities and services provided by home health agencies, as well as physicians' services.

The hospital insurance program is financed by an employer-emplovee payroll tax for persons covered by the social security and railroad retirement systems and by general fund payments for hospital services rendered to eligible aged persons not insured by either of these systems. The 1967 amendments increased the combined employer-employee payroll tax from 1% to 1.2% effective January 1, 1968. In 1969, an estimated 19.6 million persons will be eligible to receive the protection provided by the hospital insurance program. (The only significant population group not covered by the hospital insurance program are the retired Federal employees and their dependents who are eligible for the Federal employee health benefits program.) In 1969, total expenditures for hospitalization of the aged will exceed \$3.9 billion, an increase of \$500 million over 1968, reflecting anticipated increases in hospital charges and in admissions to hospitals and extended care facilities. An estimated 4.6 million aged will receive these services in 1969.

In addition to the hospital insurance program, Medicare made available, on a voluntary basis, a supplementary medical insurance plan covering mainly physician charges. In 1969, approximately 18.6 million persons, almost 95% of the aged, will be enrolled in the supplementary plan. The program is financed by monthly premiums (\$3 currently and \$4 effective April 1, 1968) by each enrollee matched equally by the Federal Government. In 1969, an estimated 7.6 million persons will benefit through payments of \$1.8 billion from the Supplementary Medical Insurance trust fund compared to 7.5 million persons and \$1.6 billion in 1968. The increase of \$211 million over 1968 expenditures results from an estimated 5% increase in physicians' charges, greater utilization of physicians' services by the aged and expanded benefits resulting from the 1967 amendments to the Social Security Act. In 1969, Medicare will account for 80% of all Federal health expenditures for the aged.

Medicaid.—Federal matching payments which defray 50% to 83% of State medical assistance payments on behalf of the poor and medically indigent will total \$1.8 billion in 1968 with 43 States and jurisdictions participating in the Medicaid program. Total expenditures, including State and local funds, are estimated at \$3.4 billion in 1968. In 1969, total Federal, State, and local medical assistance expenditures are estimated at \$4.2 billion, of which Federal grant payments are estimated at \$2.1 billion, \$360 million more than 1968. By the end of 1969, 48 States and jurisdictions are expected to be in the Medicaid program.

Increased Medicaid costs in 1969 are attributable to an anticipated rise in medical prices which is expected to account for about a third of the increase over the 1968 level. In addition, the number of individuals receiving Medicaid services will increase from 7.3 million in

1968 to 8.5 million in 1969.

The 1967 Social Security Amendments limit Federal Medicaid matching payments on behalf of the medically indigent to persons whose income does not exceed by more than one-third the State welfare payments under Aid to Families with Dependent Children. For States already in the program, the limitation does not become fully effective until January 1970, but is immediately effective for new States entering the Medicaid program.

OEO and Children's Bureau health programs.—In contrast to the overarching Federal financing mechanisms provided through the Medicare and Medicaid programs, the Children's Bureau and OEO health programs have focused their efforts on sponsoring medical resources which provide comprehensive medical services mainly for mothers and children and young adults living in low income areas. In 1969, about 50% of Children's Bureau health expenditures will be devoted to further development of comprehensive neighborhood health, maternity and infant care, and child health centers.

Health expenditures by OEO will increase from about \$111 million in 1967 to \$154 million in 1969 primarily through expansion of neighborhood health centers which will account for about 60% of OEO's health expenditures. By the end of 1967, 41 comprehensive centers

had been approved and at present 13 are in operation. All 41 will be operating by the end of 1968. The remaining OEO health expenditures cover health care services provided to children enrolled in its Head Start Program, to Job Corps enrollees, and to VISTA volunteers.

In 1969 the Children's Bureau will spend \$170 million for health care for mothers and children, \$29 million more than in 1968. The major portion of this increase will be aimed at health services to reduce the incidence of mental retardation, birth defects, and infant mortality, and to prevent or correct handicapping conditions among children.

A recent HEW report on maternal and child health programs indicated that dramatic reductions in infant mortality and handicapping conditions among children could take place through sharply focused efforts.³ Accordingly, the 1969 budget requests \$55 million—\$25 million more than in 1968—for 54 maternity and infant care centers and family planning clinics strategically located in low income areas. To prevent and correct chronic illnesses in school and preschool children, the budget for 1969 requests \$42 million—\$5 million more than in 1968—to finance 59 comprehensive children and youth health care centers. Almost 2 million children in low income areas are eligible to receive preventive and corrective health treatment in these centers. Another approach authorized by the 1967 amendments adds \$15 million to the crippled children's program to step up health screening activities which locate and treat handicapping illnesses in young children.

Financing health benefits for Federal employees.—Health benefits are provided to more than 2.7 million Federal civilian employees and their 5.8 million dependents under insurance programs managed by the Civil Service Commission. A similar program provides benefits for retired employees and their dependents. These payments are made from trust revolving funds utilizing the premium deposits of the agencies and their employees. The Government's contribution amounts to \$233 million in 1967, \$251 million in 1968, and \$257 million in 1969.

Providing medical care directly to Federal beneficiaries.—With the expansion of hospital and medical care programs financed through Federal funds, particularly for the aged and indigent, the share of total Federal expenditures allocated for the direct provision of health care in Federal facilities has declined from 40% in 1963 to 18% in 1969. In spite of the major shift in the proportions, this category remains a major program element, with expenditures totaling \$2.8 billion in 1969, an increase of 3.6% over 1968.

The three agencies primarily concerned with direct provisions of health care, the Department of Defense, Veterans Administration, and the Department of Health, Education, and Welfare, operate 542 hospitals containing 188 thousand beds, over 11% of all hospital

³ Department of Health, Education, and Welfare, Office of the Assistant Secretary for Program Coordination, "Maternal and Child Health Care Programs," October 1966.

beds in the United States. Together, these agencies expend over 98% of the funds in this category.

The Department of Defense, with 311 hospitals and 63,000 beds, will make medical care available to over 9 million servicemen, their dependents, and retired military personnel and their dependents.

With the enactment of legislation in 1967 broadening the use of community medical facilities for dependents and retired military personnel, expenditures by the Department of Defense for care provided in community hospitals and by private physicians will almost double, increasing from \$106 million in 1967 to an estimated \$200 million in 1969. In total, expenditures for care provided in both military medical facilities and community facilities will increase

by \$46 million in 1969 over 1968 to a total of \$1,536 million.

To accomplish the medical care mission of the Veterans Administration, that agency will maintain and operate 166 hospitals containing 110,000 beds, 63 nursing home care units with 4,000 beds, 18 domiciliary/restoration care facilities, and 203 outpatient clinics—constituting one of the largest medical care systems in the world. The agency provides care to veterans with service-connected disabilities and veterans with non-service-connected illness to the extent that beds are available and the veteran certifies his inability to pay for care in private facilities. In 1969 the VA will treat 767,000 patients in 110,000 beds, an increase of over 2% from 1967. In addition, outpatient medical visits are expected to increase from 5.4 million in 1967 to 5.6 million in 1969. Expenditures are estimated to rise from \$1.2 billion in 1967 to \$1.3 billion in 1969.

Other persons eligible for care in the 65 hospitals and a variety of outpatient clinics operated by HEW include 400,000 American Indians and natives of Alaska, and about 500,000 seamen, Federal employees injured on the job, narcotic addicts, and persons committed or voluntarily presenting themselves for mental treatment in St. Elizabeths Hospital in Washington, D.C. Under recent legislation, Federal employees and their families stationed in remote locations where private health care facilities are unavailable may utilize hospitals of the Public Health Service on a reimbursable basis. In 1969, HEW will expend approximately \$117 million to provide direct care for these groups, an increase of 7% over 1968.

Family planning.—As pointed out by HEW's program analysis, "Maternal and child health care programs," voluntary family planning programs, by matching births with the spacing and number of children desired by parents, could significantly reduce infant mortality at a comparatively low cost. Out of the funds included for provision of health services, Federal expenditures for family planning in this country are expected to double in 1969 to a total of \$73.8 million. Almost all of the increase is in services and counseling, which rises from \$25.2 million in 1968 to \$60.6 million in 1969, largely through a major expansion in family planning services provided by Children's Bureau and OEO programs. These funds can provide family planning services to about two-thirds of a universe of 5 million women which a recent report to HEW on family planning 4 identifies

⁴ Oscar Harkavy, "Implementing DHEW policy on family planning and population," September 1967, p. 3.

Table I-8. ESTIMATED FEDERAL EXPENDITURES FOR FAMILY PLANNING (in millions of dollars)

	1967	1968	1969
Domestic: Total services and counseling	18.1	25.2	60.6
HEW. OEOOther	11.8 4.1 2.2	14.2 7.0 4.0	41.0 15.0 4.6
Total research and training	10.0	11.2	13.2
HEWOther	9.6 .4	10.8	12.8
Total expenditures (domestic)	28.1	36.4	73.8
International: Services, research and training (primarily AID)	1.1	14.3	23.4

as needing assistance in obtaining such services. Research and training in the family planning field increases by about 18% in 1969 to a total of \$13.2 million. Virtually all of the \$2 million increase is due to expanded research activities by PHS. The 1969 increase of \$9.1 million in international family planning mainly reflects further expansion of AID activities.

Table I-9. ESTIMATED HEALTH CARE EXPENDITURES BY POPULATION AND INCOME GROUPS (in millions of dollars)

	1967	1968	1969
Total, all recipients	7,831	10,382	11,693
aged (65 and over)	4,379	6,310	7,125
other adults (19-64)	2.535	2.893	3,174
children and youth (0-18)	917	1,179	1,394
Indigent, total 1	3,178	4,100	4,749
aged (65 and over)	1.968	2,560	2,872
other adults (19-64)		1.012	1,194
children and youth (0-18)	360	528	683
Non-indigent, total	4,653	6,282	6,944
aged (65 and over)	2.411	3,750	4,253
other adults (19-64)		1.881	1,980
children and youth (0-18)	557	651	711

¹ Indigency as defined by OEO poverty guidelines.

Distribution of health expenditures by age groups and economic status.— Table I-9 estimates the Federal expenditures only for the hospital

and medical services category as distributed among three major age groups and between indigent and nonindigent persons. Funds expended for categories relating to the development of health resources and for the prevention and control of health problems are designed to serve the entire Nation and are not normally allocable by population group or income.

The age distribution in table I-9 indicates that the largest health expenditure increase in percentage terms will be for children and youth, rising 17% in 1969 from \$1.2 to \$1.4 billion. In absolute terms, however, the largest increase will be for the aged, rising from \$6.3 billion in 1968 to \$7.1 billion in 1969. The distribution of expenditures between indigent and nonindigent indicates that 40% of Federal expenditures for the provision of hospital and medical services will aid the poor. In 1969, \$4.7 billion will be spent to provide or finance health care services for the needy, an increase of \$634 million over 1968 and a 49%increase over 1967.

The aged.—Of the total 1969 expenditures for the provision of health services both directly in Federal facilities and indirectly through Federal payments for care, approximately 61% or \$7.1 billion, will be on behalf of the aged. This is an increase of \$805 million or 13% over 1968.

While the proportion of the Nation's aged who are in the indigent category is expected to decline from 39% in 1967 to 34% in 1969 (partly because of the increased cash benefits provided in the 1967 Social Security Amendments), the amounts expended for the indigent aged will rise by \$900 million over 1967 largely due to increases in

medical costs and greater utilization of services.

Medicare—the major health program for the aged—seeks to remove barriers to receipt of hospital and physician services. During the first year of the program, utilization of hospital services increased by about 20\% over the pre-Medicare level. Physician services to the elderly have also shown some increases, as have use of extended medical care in nursing homes and home health services providing posthospital care. Medicare also seeks to ease the burden of medical costs upon the aged and their families. In 1966, the year immediately preceding Medicare, just under 70% of all hospital and medical services for the aged were financed from private sources mainly the aged themselves or their families. In 1967, the first year of Medicare, 70% of these costs were borne by public sources, Federal, State, and local. It is estimated that Medicare's share of all public and private medical care expenditures for the aged will rise from 40% in 1967 to almost 50% in 1969.

In addition to Medicare, Medicaid payments for the aged are estimated at \$864 million in 1968 and \$936 million in 1969. Although the aged constitute only about 35% of all Medicaid recipients, they account for over 44% of all payments, reflecting the higher cost of treating illness affecting older people, especially the high cost of recuperative care in skilled nursing homes.

An additional \$339 million will be spent by the VA and the DOD to provide medical care for aged veterans and retired military personnel and their spouses, mainly in hospitals and clinics operated by those agencies. This is an increase of \$14 million over 1968 expenditures.

Children.—Health care service expenditures for children are expected to be \$1.4 billion in 1969, an increase of \$215 million over the 1968 level. Of the 1969 increase, \$136 million is attributable to Medicaid expansion, and \$33 million to infant care, early casefinding and follow-up treatment in the Children's Bureau and OEO health programs. These three programs account for over half the total Federal expenditures for children. The DOD dependent medical care program provides almost all of the remaining funds. About 75% of the 1969 increase will be for services to needy children. Between 1967 and 1969 expenditures for indigent children are estimated to rise by 90%, or \$323 million. The increases for children and youth reflect the very considerable unmet health needs in this category. To help meet these needs, legislation will be proposed for a child health program to provide, over the next 5 years, for families unable to afford it—access to health services from prenatal care of the mother through the child's first year.

Other adults.—The 1969 expenditures of \$3.2 billion for other adults consist mainly of programs serving persons entitled to care in Federal installations. These programs pay for health care rendered to veterans, servicemen and Federal employees, as well as eligible spouses. A total of \$2.2 billion is expended for these groups, representing 68% of the total spent for nonaged adults. Federal Medicaid payments for needy adults will be \$475 million in 1969, representing 15% of total expenditures for adults. Other Federal programs spending more than \$40 million in 1969 for health care for adults are OEO's neighborhood health centers, the Vocational Rehabilitation program, and the maternal health programs of the Children's Bureau. These programs, plus payments by Medicaid, and approximately \$500 million of the health care funds expended by the Veterans Administration, comprise the \$1.2 billion which will be spent in 1969 to provide hospital and medical care to needy adults.

Prevention and control of health problems.—Programs designed to prevent and control health problems will increase to \$700 million, as compared to \$682 million in 1968 and \$540 million in 1967.

Table I-10. FEDERAL EXPENDITURES FOR THE PREVENTION AND CONTROL OF HEALTH PROBLEMS (in millions of dollars)

	1967	1968	1969
Disease prevention and control	386	500	491
Environmental control 1	37 117	50 132	158
Total, prevention and control of health problems	540	682	700

¹ Excludes expenditures for air pollution and other environmental research which are included in the medical and health-related research category. Table 1–2, \$27 million in 1967, \$37 million in 1968, and \$59 million in 1969.

Disease prevention and control.—Under the Partnership for Health program, \$76 million, an increase of \$16 million over 1968, will be made available for block formula grants to provide financial support to States for establishment and maintenance of public health services

developed and executed in a manner consistent with the State comprehensive health plan. In addition, \$89 million will be made available for project grants to nonprofit organizations and institutions and State and local health agencies to meet health needs of limited geographic scope (such as rat control programs), or of specialized regional or national significance. The disease prevention and control programs in other countries supported by the Agency for International Development will be continued in 1969.

In addition, expenditures of \$60 million will ensure that the national capability to deal with outbreaks of communicable diseases will be maintained. Another \$30 million will support research and community demonstration efforts to upgrade our ability to deal with long-term chronic debilitating diseases such as emphysema, chronic bronchitis, and arthritis.

Environmental control.—In the last few years the quality of the environment has taken on increased importance. This can be demonstrated in terms of anticipated national expenditures from all sources for air pollution control equipment which will more than double between 1967 and 1969; rising from \$325 million to \$700 million in 1969. Unless steps are taken to control the amount of pollution discharged into the air, by 1980 the sulfur and nitrogen oxides emitted are estimated to increase by one-third over present levels. Without the controls put on 1968 automobiles and all later models, the hydrocarbons and carbon monoxide emitted to the atmosphere are estimated to increase by about 50% during this same 12-year period. As table I-11 illustrates, the auto emissions removed by control devices, while increasing, are still not sufficient to create a downward turn in auto emissions released to the atmosphere. As older cars are replaced, the full impact of controls being installed on post-1967 automobiles can be expected to cause a decline in the level of auto exhaust pollutants.

Table I-11. SELECTED AUTO EMISSIONS KEPT OUT OF THE AIR 1 (In millions of tons per year)

	1966	1967	1968	1969
Auto emissions released to the atmosphere: Hydrocarbons	10 62 1	11 65 2 1	11 66 3 6	11 67 4

^{*} Less than 500 thousand tons.

1 Unpublished data furnished by the National Center for Air Pollution Control, HEW.

Controlling pollution is both a social and scientific problem. The Air Quality Act of 1967 provides the national framework designed to obtain clean air for all severely polluted areas in the country. The initiative is left with the States to set enforceable air quality standards consistent with recommendations of the Secretary of HEW. Provision is made for standard-setting by the Secretary for nationally designated

⁵ Unpublished data furnished by the National Center for Air Pollution Control, HEW.

nated air quality control regions in the absence of appropriate State action.

The development of devices and techniques to prevent and control air pollution is a difficult scientific problem. Devices developed to accomplish this task must be practical and economical to avoid a serious disruption of the economy, especially in the fuel and power generating industries. To find such economically feasible control technology is the objective of a \$68 million research program to be undertaken in 1968 and 1969.

On May 26, 1966, the President issued an executive order directing Federal agencies to take the lead in air pollution by abating the pollution from their own facilities. Implementation of the 5-year plans developed as a result of this executive order will begin in 1969. Expenditures of \$21.6 million will fund 89 projects in 1969 which will eliminate the more serious air pollution problems at Federal facilities.

Another environmental problem is the disposal of solid wastes such as trash, garbage, and industrial processing wastes. Increased research is supported to develop ways of greatly reducing the amount of such wastes produced, using wastes as resources rather than discarding them, and disposing of the remaining wastes in the most efficient and healthful manner. Legislation extending the solid waste program will be proposed.

Consumer protection.—Consumer protection is also an important part of the prevention and control of health problems. The Department of Agriculture will substantially increase its activities in 1969 to assure the wholesomeness of meat and poultry meat products shipped in interstate commerce. The Food and Drug Administration's consumer protection activities will be strengthened, including its National Center for Drug Analysis which is designed to ensure the purity, potency, and effectiveness of the Nation's drug supply. Eventually the results from this activity should provide more reliable data on the equivalency of similar drugs. In addition, the Clinical Laboratories Improvement Act of 1967 provides for developing and enforcing standards for the quality and accuracy of performance of the estimated 1,000 diagnostic laboratories transacting business in interstate commerce.

Legislation will be proposed to ensure the quality and wholesomeness of fish, assure the safety of our community water supplies, protect against hazardous radiation from electronic equipment, and strengthen FDA's capacity to ensure safe and adequate medical devices.

EXPENDITURES FOR HEALTH ACTIVITIES BY AGENCY

The following tables distribute the health-related expenditures of Federal agencies by the functions used in this analysis. Based on their major purposes, most of these agencies are assigned in the budget document to functions other than Health. The tables, therefore, also indicate the budget document functional code. Breaking out the health activities of these agencies, functionally assigned elsewhere in the budget document, accounts for the \$15.6 billion reported in this analysis for "health" compared to the \$10.7 billion reported in the budget document. Furthermore, this analysis incorporates a more detailed breakdown within "health" than is used in the budget document. Expenditures for health within each appropriation account are assigned to the various functional components used in this analysis. Finally, expenditures reported in this analysis cannot be added to those reported in other special analyses such as Education; in some cases the same expenditure is reflected in both analyses.

Table 1-12. FEDERAL EXPENDITURES AND NET LENDING FOR MEDICAL AND HEALTH-RELATED ACTIVITIES BY AGENCY,
1967 (in millions of dollars)

	Func- tional code	Health research	Training and edu- cation	Construc- tion	Organiza- tion and delivery	Direct Federal hospital and medical services	Indirect Federal hospital and medical services	Preven- tion and control of health problems	Total
Department of Health, Education, and Welfare		996.0	414.9	220.7	65.0	114.8	4,784.6	286.8	6,882.8
NIH.	651	773.0	163.2		4.4			1.5	942.1
NIMH		69.0	90.3	.9	19.6	8.5		29.9	218.5
Other	651	117.0	133.4	218.1	34.9	106.0	18.7	184.5	812.6
Food and Drug Administration	651	10.0	.8	.6				46.7	58.3
Social and Rehabilitation Service	651, 654	27.0	19.0	1.1	6.1	.3	1,370.2	 	1,423.7
Social Security Administration	651						3,395.7		3.395.7
Other	701		8.2					24.2	32.
Department of Defense	051	77.8	80.3	49.7		1, 226, 1	106, 0	19.3	1,559.2
Veterans Administration	804	47. 1	52. 4	56. 9	1.3	1, 181. 5	37. 2		1, 376,
Department of State	151	1.5	13.7	.8	8.8	1.8	.3	110.0	136.
Agency for International Development	152	(1.5)	(10, 4)		(8.8)	(1.7)		(93. 3)	(115.
Atomic Energy Commission	058	98.6	.7′		[<u>`</u> <u>´</u>	` 99.
Department of Agriculture	355	37. 4						103.5	140.
National Aeronautics and Space Administration	251	84. 9							84.
Department of Housing and Urban Development	553			48. 4	6.8				55.
National Science Foundation	703	15. 1							15.
Civil Service Commission.	906						36, 6		36.
Office of Economic Opportunity	655						103.0	l	103.0
Department of Commerce	507	1.1		2.9					4.
Department of Labor		.2	31.0	 			12. 1	1.8	45.
Other agencies		4.0	.6	11.6		27.5	2. 7	18.4	64.
Agency contributions to employee health benefit funds							196. 8		196.
Total expenditures for health, 1967		1,363.7	593.6	391.0	81.9	2,551.7	5,279.3	539.8	10,801.

Table 1-13. FEDERAL EXPENDITURES AND NET LENDING FOR MEDICAL AND HEALTH-RELATED ACTIVITIES BY AGENCY,
1968 (in millions of dollars)

	Functional code	Health research	Training and edu- cation	Construc- tion	Organiza- tion and delivery	Direct Federal hospital and medical services	Indirect Federal hospital and medical services	Preven- tion and control of health problems	Total
Department of Health, Education, and WelfarePublic Health Service:		1,056.0	539.8	248.3	144.0	109.2	7,106.1	389.6	9,593.0
NIH	651	811.0	165.3		23.9			2.0	1,002.2
NIMH	651	70.3	99.5		55.7	9.5		35.6	270.7
Other	651	130.9	238.9	243.6	53.1	99.4	33.6	253.3	1,052.7
Food and Drug Administration	651	10.8	.9	3.3				50.4	65.4
Social and Rehabilitation Service	[651, 654]	33.0	23.2	1.4	11.3	.3	2,008.2	20.9	2,098.3
Social Security Administration)			5,064.3		5,064.3
Other	701		12.0					27.4	39.4
Department of Defense		86. 6	91.0	26. 1		1, 305. 1	175.0	20.3	1, 704.
Veterans Administration		47.5	60.3	58.0	2.0	1, 235. 5	38. 5		1,441.8
Department of State		1.2	14.0	.5	9.5	4.9	. 3	133.9	164.
Agency for International Development	152	(1.2)	(10. 6)		(9. 5)	(4.8)		(113.7)	(139.
Atomic Energy Commission	058	99.5	.7						100.
Department of Agriculture	355	36. 9						116.0	152.
National Aeronautics and Space Administration		96. 1							96.
Department of Housing and Urban Development	553			123.7	3.3				127. (
National Science Foundation		14.0							14.
Civil Service Commission							40.8		40.
Office of Economic Opportunity							111.0		111.0
Department of Commerce		1.0		6.3					7. 1
Department of Labor	652	. 3	25. 2				12. 1	2. 3	39.
		4. 5	. 8	18.1		29. 4	3. 2	19.5	75.
Agency contributions to employee health benefit funds							210.6		210.
Total expenditures for health, 1968		1,443.6	731.8	481.0	158.8	2,684.1	7,697.6	681.6	13,878.

Table I-14. FEDERAL EXPENDITURES AND NET LENDING FOR MEDICAL AND HEALTH-RELATED ACTIVITIES BY AGENCY, 1969 (in millions of dollars)

	Func- tional code	Healt h research	Training and edu- cation	Construc- tion	Organiza- tion and delivery	Direct Federal hospital and medical services	Indirect Federal hospital and medical services	Preven- tion and control of health problems	Total
Department of Health, Education, and Welfare		1,088.0	566.0	261.2	211.4	116.7	8,242.7	372.3	10,858.
Public Health Service:					1				
NIH	651	822.0	166.4		44.1			1.9	1,034.
NIMH		72.0	102.3	<u></u> -	64.7	10.8		39.4	289.
Other	651	143.9	252.2	251.7	82.0	105.6	38.6	246.0	
Food and Drug Administration	651	11.2	1.0	5.1			:-:::-:-	51.4	68.
Social and Rehabilitation Service		38.9	29.1	4.4	20.6	.3	2,419.2	6.2	2,518.
Social Security Administration	651						5,784.9	<u>-</u>	5,784.
Other	701		15.0					27.4	42.
Department of Defense		92.7	92.6	104. 1		1, 335. 6	200. 1	21.2	1, 846.
eterans Administration	- 1 11:	53.2	81.1	63.5	2.0	1, 291. 1	38.9		1, 529.
Department of State		1.5	15.5	.2	11.0	8.4	.3	140.8	177.
Agency for International Development		(1.5)	(11.8)		(11.0)	(8.3)		(118.9)	(151.
tomic Energy Commission		104.2	`.7	•					104.
Department of Agriculture	355	43.9					-	141.8	185.
National Aeronautics and Space Administration	251	110.2							<u>.] 110</u> .
Department of Housing and Urban Development	553			176. 4	1.3				177.
National Science Foundation		13.5			[13.
Civil Service Commission	906]				40.8		40.
Office of Economic Opportunity							154.0		154.
Department of Commerce		1.1		7.1					. 8.
Department of Labor	652	.3	25.3				12.7	2.6	40.
		4.4	.9	29. 9		31.0	3.9	21.7	91.
agency contributions to employee health benefit funds							216. 2		216.
Total expenditures for health, 1969		1,513.0	782.1	642.4	225.7	2,782.8	8,909.6	700.4	15,556

SPECIAL ANALYSIS J

FEDERAL RESEARCH, DEVELOPMENT, AND RELATED PROGRAMS

This analysis identifies Federal funds for the conduct of research, development, and facilities related to both activities. It also provides information on several fields, such as the marine sciences, which are of broad national interest, involving the programs of many departments and agencies. The range of programs summarized in this analysis reflects the continuing importance of research and development both to advancing the objectives of the Federal Government and to furthering the economic and social welfare of the Nation as a whole.

Total Federal obligations for research and development, including facilities, will increase from \$16.9 billion in 1968 to \$17.8 billion in 1969. Major increases of \$0.6 billion for Defense, \$0.4 billion for the Atomic Energy Commission, and \$0.3 billion for all other agencies are offset by a decrease of \$0.4 billion for the National Aeronautics and Space Administration, reflecting a decline in requirements for the manned lunar landing program. Total expenditures will increase from \$16.5

billion to \$17.3 billion.1

Research and development programs of the Federal Government are planned and executed primarily to support the missions of individual agencies. The level and content of Federal research and development therefore depends, in large measure, on such criteria as the extent to which the Federal Government has assumed responsibility for problems of national concern and their urgency; the feasibility of a scientific and technological attack on these problems; and the availability of skilled manpower and other resources. The application of these criteria is clearly evident in the scope and size of research and development related to national defense, space exploration, atomic energy, and public health. But it is also reflected in newer areas of Federal concern such as education of the disadvantaged, poverty, transportation, urban development, and crime prevention where research and development programs are coming into existence or increasing significantly in scale.

Science and technology create opportunities and generate problems which do not fit neatly into the existing structure of government. Therefore, means must be found to provide an overview of interrelated research and development programs in order to foster coordination, minimize duplication, and to work toward fulfilling broader overall Federal responsibilities and national goals in science and technology. This is exemplified in such fields as marine science and atmos-

pheric research.

The Office of Science and Technology, in the Executive Office of the President and headed by the President's Science Adviser, is the major specific instrument of the President for the oversight and evaluation of research and development. Related to the work of this Office are the President's Science Advisory Committee and the Federal Coun-

¹ Obligations and expenditures in this analysis include trust funds.

cil for Science and Technology, both also headed by the President's Science Adviser.

Finally, the Bureau of the Budget reviews all research and development in the course of considering, on behalf of the President, agency program and financial requirements. While this review focuses on research and development largely in the context of agency mission needs, the Bureau, in cooperation with the Office of Science and Technology and other coordinating bodies, also examines those aspects of research and development which cross agency lines.

Research.—The Federal Government finances research not only to advance specific agency missions but also to support generally the progress of the Nation's social and economic welfare. Of particular importance to the latter objective is the support of basic research, especially that conducted in colleges and universities and related research organizations.

Total Federal obligations for the conduct of research—both basic and applied—will increase from an estimated \$5.5 billion in 1968 to \$6 billion in 1969. Expenditures will increase from \$5.2 billion in 1968 to \$5.7 billion in 1969.

Obligations for Research

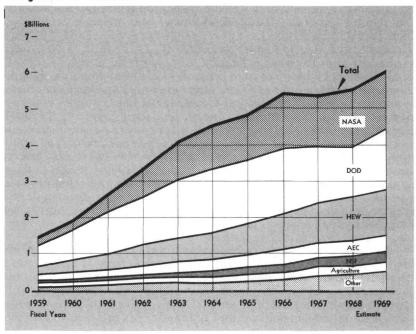


Table J-1.	OBLIGATIONS	AND	EXPENDITURES	FOR	THE	CONDUCT	OF
	I	RESEA	ARCH 1 (in millions of	dollars)		

Department or agency	C	bligation	8	Expenditures			
	1967	1968	1969	1967	1968	1969	
Department of Defense—Military	1, 584	1, 397	1, 633	1, 492	1, 470	1,560	
tration	1, 388	1,550	1.587	1,440	1, 414	1, 578	
Health, Education, and Welfare	1, 137	1, 204	1, 320	974	1,046	1, 153	
Atomic Energy Commission	397	414	439	397	414	439	
National Science Foundation	245	262	289	207	240	257	
Agriculture	248	252	273	245	259	266	
Interior	147	163	178	130	154	170	
Commerce	52	63	62	53	54	56	
Transportation	45	52	62	32	50	64	
Veterans Administration	44	46	49	43	44	47	
Smithsonian Institution	15	16	21	13	15	18	
Housing and Urban Development	8	18	21	4	8	13	
Office of Economic Opportunity	12	14	16	9	13	16	
Justice	1	3	6	1	2	4	
All other	35	38	46	45	50	54	
Total	5, 358	5, 492	6, 002	5, 086	5, 235	5, 695	

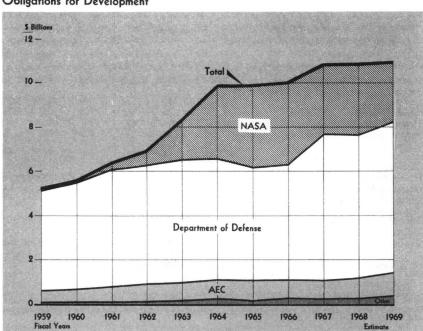
¹ In this table and tables J-2 and J-3 "obligations" and "expenditures" for AEC are both accrued costs which approximate obligations and expenditures for analysis purposes. "Obligations" for Defense are "budget plan" amounts which approximate obligations. Detail in all tables may not add to totals due to rounding.

The major dollar increases for research in 1969 are in the programs of the Departments of Defense and Health, Education, and Welfare, chiefly for health. Among other agencies, small but significant increases are to be noted for the National Science Foundation, the Departments of Interior, Transportation, Housing and Urban Development, and Justice and the Office of Economic Opportunity. These latter increases reflect in part the growing concern for applying research to national "civilian" problems.

Development.—The Federal Government finances development to design, fabricate, test, and evaluate prototypes of materials, devices, systems, or processes to accomplish specific agency missions. These include prototypes of complex devices such as military weapons, space vehicles, and nuclear reactors and of "systems" for such purposes as missile defense and communications.

Total obligations for the conduct of development are estimated to increase slightly, from \$10.8 billion in 1968 to \$11 billion in 1969. Expenditures will increase from \$10.6 billion to \$10.9 billion.

The major change in 1969 is a reduction in the development funds of NASA reflecting the progress of the Apollo manned lunar landing program beyond the most costly phases of development. Other programs of development will increase in 1969, chiefly those of the Department of Defense and of AEC for nuclear weapons development.



Obligations for Development

Table J-2. OBLIGATIONS AND EXPENDITURES FOR THE CONDUCT OF DEVELOPMENT (in millions of dollars)

Department or agency	Obligations			Expenditures		
	1967	1968	1969	1967	1968	1969
Department of Defense—MilitaryNational Aeronautics and Space Adminis-	6, 138	6, 419	6, 813	6, 107	6, 164	6, 624
tration	3, 503	3, 165	2,738	3, 690	3, 224	2, 917
Health, Education, and Welfare	54	72	142	47	65	86
Atomic Energy Commission	859	948	1,062	859	948	1,062
Agriculture	8	8	8	8	9	9
Interior	30	47	48	22	41	49
Commerce	21	25	23	14	21	23
Transportation	51	64	62	51	55	56
Veterans Administration	1	1	1	1	1	1
Housing and Urban Development	3	5	23	3	4	7
Office of Economic Opportunity	35	40	42	26	39	42
Justice	2	7	12	2	4	7
All other	22	25	36	22	24	29
Total	10, 727	10, 826	11,010	10, 852	10, 599	10, 910

Research and development facilities.—Total obligations for research and development facilities will increase from an estimated \$587 million in 1968 to \$754 million in 1969. Expenditures will decrease from \$681 million to \$665 million, chiefly reflecting completion of NASA manned lunar landing facilities.

The substantial increase in *obligations* in 1969 is largely attributable to the AEC for financing construction of three major research facilities, including further funding of the 200-Bev proton accelerator. Most of this increase reflects a deferral of obligations from 1968.

Table J-3. OBLIGATIONS AND EXPENDITURES FOR RESEARCH AND DEVELOPMENT FACILITIES (in millions of dollars)

Department or agency	Obligations			Expenditures		
	1967	1968	1969	1967	1968	1969
Department of Defense—Military National Aeronautics and Space Adminis-	87	98	71	74	84	97
tration	121	103	45	295	167	80
Health, Education, and Welfare	74	53	49	68	69	71
Atomic Energy Commission	223	169	459	210	206	244
National Science Foundation	69	71	52	70	71	64
Agriculture	13	23	20	18	30	3€
Interior	32	45	29	17	30	41
Commerce	6	8	4	14	8	4
Transportation	10	13	24	9	12	20
Veterans Administration	3	3		3	2	5
Smithsonian Institution	(1)	(1)	(1)	(1)	(1)	
All other	(1)	1	I I	(1)	1	i
Total	638	587	754	778	681	665

¹ Less than \$500 thousand.

Further description of the research and development programs of the individual departments and agencies is included at the end of this analysis.

SELECTED GOVERNMENT-WIDE SCIENTIFIC ACTIVITIES OF THE FEDERAL GOVERNMENT

The following section summarizes overall Federal funding of several selected scientific activities which are supported by a number of agencies. These activities are significant not only to the advancement of individual agency missions but also to the support of broad national needs in science and technology.

In these and other areas of science the Office of Science and Technology and the Bureau of the Budget seek to coordinate the efforts of the Federal agencies involved. Assistance is provided by the President's Science Advisory Committee and the Federal Council for Science and Technology and in the case of the marine sciences, by the National Council on Marine Resources and Engineering Development.

ACADEMIC RESEARCH

Continuing attention has been given in the preparation of the 1969 budget to the total support of research by the Federal Government in colleges and universities.

In 1969 total Federal obligations for research grants and contracts in academic institutions will approximate \$1.6 billion, an increase of 13% over the \$1.4 billion estimated for 1968. This contrasts with an increase of 2% from 1967 to 1968.

Academic science receives special attention in the budget process because of the predominant role which researchers in institutions of higher education play in the performance of basic research that provides the foundation for the general advancement of the Nation's science and technology. Moreover, academic research is essential to the training of scientists and engineers for the future manpower demands of the country.

The Federal Government provides about three-quarters of all sponsored research funds spent by colleges and universities. Their ability to carry forward effective educational programs in science is directly affected by the volume and distribution of Federal research grants and contracts. For most Federal agencies—except the National Science Foundation—the level of their academic research support is largely determined by the need for research to carry out their mission requirements. This can result in significant changes from year to year in the financing of academic research by "mission" agencies. Hence, the importance of the overview which is maintained of the flow of Federal funds to colleges and universities and of relating the level of academic research support from the NSF to that of the mission

The overall importance of academic institutions as a national asset in science was given further, specific recognition by the President in September 1965 when he directed that all agencies administer their research funds in such a manner as to strengthen institutions of higher education and to assist in increasing the number of such institu-

tions capable of performing research of high quality.

ATMOSPHERIC SCIENCES

The atmospheric sciences are concerned with the physical and chemical properties, composition, behavior and processes of the planetary atmospheres of the solar system. The atmospheric sciences encompass: meteorology—the physics and chemistry of the earth's atmosphere, including studies of such phenomena as general circulation, precipitation processes, turbulence, diffusion, and atmospheresurface interactions; aeronomy—the physics and chemistry of the earth's upper atmosphere, including studies of such phenomena as airglow, aurora, magnetic fields and radiation belts; and planetary atmospheres—studies of extraterrestrial atmospheres.

A major part (40%) of the funding for atmospheric sciences research continues to be for space flight programs of NASA: the Nimbus program (Nimbus D, E, and F launches scheduled for 1970, 1971, and 1973 respectively) and the Mariner Mars 1969 unmanned planetary program. Exclusive of space flight programs, funding for atmospheric sciences will increase in 1969 after periods of level funding in 1966 and

1967 and a slight decrease in 1968.

There are no major increases in any particular research area although a continued modest expansion is planned for weather modification research by the Environmental Science Services Administration in the areas of precipitation modification and hail suppression, and by the

Department of Agriculture in the area of lightning suppression. The Department of Health, Education, and Welfare will increase its research on air pollution, and will seek to improve air pollution forecast methodology directed toward making 24 to 36 hour forecasts for specific urban areas.

Table J-4. OBLIGATIONS OF FEDERAL AGENCIES FOR ATMOSPHERIC SCIENCES BY FUNCTIONAL AREA (in millions of dollars)

Functional area	1967	1968	1969
Meteorology:			
Departments of:			
Agriculture	1 1	1	2
Commerce	11	14	17
Defense	23	ži l	25
Health, Education, and Welfare	3	~;	6
Interior	4	6	ň
Transportation	i	ĭ	ĭ
Atomic Energy Commission.	5	6	6
National Aeronautics and Space Administration	41	57	51
National Science Foundation	16	16	17
Mational Science Confidation	10	10	
Total, meteorology	108	127	129
Aeronomy:			
Departments of:			
Commerce	3	4	5
Defense	35	30	31
National Aeronautics and Space Administration	4	- 5	4
National Science Foundation	10	9	10
Total	52		50
Total, aeronomy		48	JU
Planetary atmospheres:	I		
	47	61	30
National Aeronautics and Space Administration	7/	ᅄ	20
National Science Foundation	•]	•	,
Total, planetary atmospheres	48	62	31
Total, atmospheric sciences.	208	237	210

ENVIRONMENTAL QUALITY

Increased attention is being given to the review and evaluation of the total Federal effort related to control and abatement of pollution. The ongoing Federal effort in 10 agencies involves approximately \$250 million for research, development, and demonstration work relating to the control of pollution. In April 1967 a Committee on Environmental Quality was established by the Federal Council for Science and Technology. The Office of Science and Technology, with the assistance of this Committee, will give additional attention to balance and priorities in scientific and technical aspects of Federal programs. Also advice will be provided by a continuing Panel on the Environment which is being established by the President's Science Advisory Committee.

MARINE SCIENCE AND TECHNOLOGY

The Marine Resources and Engineering Development Act of 1966 established broad national objectives for marine science and technology. Advice and assistance in policy planning and coordination is provided by the National Council on Marine Resources and Engineering Development. The 1969 budget takes into account the Council's views and recommendations as to areas deserving special emphasis.

Eleven agencies are engaged in marine science and technology, pursuing such goals as national security, international cooperation, development and exploitation of food, mineral and energy resources, improved transportation, and greater understanding of the marine

environment.

The major increase in 1969 is in programs of the Navy for the Deep Submergence Systems Project, for deep ocean technology, and for ocean exploration, mapping, and charting for defense purposes. Other important increases are in the Coast Guard for a cutter equipped for subpolar oceanographic research and for development of buoy technology to collect oceanographic and environmental data; in the Coast Guard and Department of Interior for the control of pollution from oil and other wastes; and in the Department of Interior for extension of the technology for extracting fish protein concentrate. Additional funds are also planned for oceanographic research, principally by Navy and the National Science Foundation. Finally, funds are included in 1969 to initiate plans for launching, with other nations, exploration of the ocean depths.

The Commission on Marine Science, Engineering and Resources, also established by the 1966 Act, is reviewing all aspects of marine science in order to recommend an overall plan for a national oceanographic program and an appropriate Government organizational plan. The Commission's report to the President, via the Council, and to the Congress is scheduled for submission by January 1969.

Table J-5. PROGRAM PLAN OF FEDERAL AGENCIES FOR MARINE SCIENCE AND TECHNOLOGY (in millions of dollars)

Department or agency	1967	1968	1969
Departments of:			
Commerce	35	38	38
Defense	278	257	298
Health, Education, and Welfare	8	6	- 8
Interior		74	76
State		5	5
Transportation		11	33
Agency for International Development		3	3
Atomic Finergy Commission	11 1	13	12
Atomic Energy Commission National Aeronautics and Space Administration	(2)	2	7
National Science Foundation	25	38	41
Smithsonian Institution	2	ž	2
	-		
Total	438	448	516

¹ The figures in this table and table J-6 are not comparable to those shown for marine science and technology last year because of changes in definition.

² Less than \$500 thousand,

Table J-6. PROGRAM PLAN FOR MARINE SCIENCE AND TECHNOLOGY BY FUNCTIONAL AREA (in millions of dollars)

Functional area	1967	1968	1969	
Research and development:				
Research	98	123	140	
Development	111	127	142	
Subtotal	210	250	281	
Investment:				
Ships	69	22	17	
Major equipment	18	30	48	
Shore facilities	14	15	18	
Other	2	4	3	
Subtotal	104	72	86	
Operations:				
Surveys	104	102	121	
Services	20	23	26	
Other	i	2	2	
Subtotal	124	126	149	
Total	438	448	516	

MEDICAL RESEARCH

Federal expenditures for medical and health related research will be \$1,513 million in 1969 as compared to \$1,444 million in 1968. This is an expansion of about 5%.

is an expansion of about 5%.

The primary support of medical research in the Nation will continue to be from the Federal Government, accounting for about 65%.

of the national effort.

The main supporter of medical research in the Federal Government is the Department of Health, Education, and Welfare. The National Institutes of Health and the National Institute of Mental Health together account for over 50% of the Federal program. The emphasis of both agencies continues to be to support a broad spectrum of research in the life sciences through project grants. However, emphasis is increasingly on collaborative, contract research in pursuit of specific objectives including artificial organs, tissue transplantation, vaccine development, fertility control, and drug development.

Aside from these Institutes the 1969 budget provides significant increases for research and development in air pollution control technology, such as the removal of sulfur oxides; research and development on new methods for the delivery of health care; and the life sciences

aspects of the Nation's space and atomic energy programs.

Table J-7. EXPENDITURES OF FEDERAL AGENCIES FOR MEDICAL AND HEALTH-RELATED RESEARCH (in millions of dollars)

Department or agency	1967	1968	1969
	actual	estimate	estimate
Department of Health, Education, and Welfare: Public Health Service	959	1,010	1,032
	(773)	(811)	(822)
	(69)	(70)	(72)
	(117)	(129)	(138)
Other Total, Department of Health, Education, and Welfare Department of Defense Atomic Energy Commission Department of Agriculture. National Aeronautics and Space Administration National Science Foundation Veterans Administration	996 78 99 37 85 15	1,056 87 99 37 96 14 48	1,088 93 104 44 110 14 53
Other	1,364	1,444	1,513
	(1,293)	(1,377)	(1,445)
	(71)	(67)	(68)

Further discussion of medical and health related research may be found in Special Analysis I, Federal Health Programs.

SPACE PROGRAMS

New obligational authority for the total Federal space program is estimated at \$6.6 billion in 1969, an increase of \$45 million over 1968. Expenditures increase \$76 million in 1969. The major increase in new obligational authority and expenditures is in the Department of Defense programs, largely for development of the orbiting laboratory (MOL). The decrease in funds for the National Aeronautics and Space Administration reflects declining requirements for the manned lunar landing, offset in part by increases for the Apollo Applications program.

Except for the operational satellite programs of the Department of Commerce, amounts for all space programs are classified as research

and development for purposes of this special analysis.

All funds of the National Aeronautics and Space Administration are included in the amounts shown, with the exception of amounts specifically identified with aircraft technology. About 55% of 1969 expenditures will be devoted to the achievement of a manned lunar landing within this decade. The Apollo Applications program of extended manned flight will account for \$422 million of 1969 expenditures. The balance of the NASA funds provide for continuing unmanned space exploration with satellites and probes, development of space applications, and a continuing program of studies and supporting research.

The estimates for the Department of Defense include the projects in the Department's astronautics budget activity and certain amounts in other budget activities which contribute to the space effort, such as missile development, range operations, and various supporting research, development, and operating costs. The amounts shown include funds for the MOL, the communications, navigation, and nuclear detection satellite programs, the Titan III space booster, and for supporting research and development.

For the Atomic Energy Commission, the table includes amounts for nuclear rocket propulsion technology and nuclear power sources for space applications, including production of isotopic fuels, and amounts for aerospace safety. The amounts shown for Commerce are primarily those related to the establishment and operation of a satellite system to observe meteorological conditions. The Interior and Agriculture funds support research on remote sensing of earth resources. The amounts for the National Science Foundation are for research in astronomy using rockets and satellite-borne observation instruments.

Table J-8. NEW OBLIGATIONAL AUTHORITY AND EXPENDITURES FOR FEDERAL SPACE PROGRAMS (in millions of dollars)

Department or agency	Ne	w obligati authority		Expenditures		
	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
National Aeronautics and Space Adminis-						
tration 1	4, 862	4, 466	4, 239	5, 337	4, 692	4, 455
Department of Defense	1.664	1,950	2, 216	1,673	1,870	2, 180
Atomic Energy Commission	184	150	154	184	151	151
Department of Commerce: Environmental					,	
Science Services Administration	29	31	30	39	33	34
Department of the Interior: U.S. Geo-	_		1		}]
logical Survey	3	2	4	3	2	1 4
Department of Agriculture: Agricultural			l 1			1
Research Service		(2)	1 1		(2)	1
National Science Foundation	3	2	2	2	2	2
Total	6,745	6,601	6, 646	7, 237	6, 750	6, 826

¹ Excludes aircraft technology.
² Less than \$500 thousand.

WATER RESEARCH

The Ten-Year Program Report of the Committee on Water Resources Research of the Federal Council for Science and Technology continues to serve as the basic planning guide for all Federal agencies.

Research will increase by \$7 million in 1969. A continuing program in water pollution research is aimed at devising improved waste treatment processes. Desalting research will continue to emphasize studies of distillation and membrane processes leading to lower cost techniques. There will be an expansion of studies designed to provide relevant information for improved planning and management of water supplies.

Table J-9. OBLIGATIONS OF FEDERAL AGENCIES FOR WATER RESEARCH
(In millions of dollars)

Department or agency	1967 actual	1968 esti mate	1969 esti mate
Departments of: Agriculture	19	20	21
Defense	6 1 83	7 1 101	8 2 104
Atomic Energy Commission National Science Foundation	2	2 2	3
Other	114	136	143

PROGRAMS OF AGENCIES WITH MAJOR RESEARCH AND DEVELOPMENT ACTIVITIES

DEPARTMENT OF DEFENSE-MILITARY

The programs of the Department of Defense include research in subjects relevant to national security; exploratory, advanced, and engineering development of new systems and components; and development and improvement of weapon systems approved for introduction into the operational forces. The principal amounts for these purposes and for the operation of research and testing facilities of the Department are carried in the budget under appropriations entitled, "Research, development, test, and evaluation." Certain supporting amounts are provided in the military personnel, procurement, operations and maintenance, civil defense, military construction, and special foreign currency program appropriations, as indicated in table J-10. The budget plan presents a summary of amounts programed for research and development.

The total 1969 budget plan for research and development increases by \$602 million—or about 8%—over the 1968 level. Major items contributing to these increases are a higher level of support for research, heightened tempo of development of the Sentinel antiballistic missile system, larger requirements for the orbiting laboratory, design of the airborne warning and control system (AWACS) for air defense, and development of new weapon systems for tactical warfare applications such as the VSX antisubmarine aircraft and several new tactical missiles.

For research, budget plan estimates in 1969 are \$1,633 million, an increase of \$236 million over 1968 levels, more than offsetting a decrease of \$187 million from 1967 to 1968. This total covers both basic and applied research and includes appropriate projects from the Department of Defense research, exploratory development, and advanced development categories. Support of basic or phenomena-oriented research rises \$35 million over the 1967 level, the intervening 1968 amount being lower than both, due to reductions in longevity funding

of contracts. Support of established academic research centers and the encouragement of new university centers developing competence relevant to defense is included here, as well as efforts in Government laboratories and with industry. Applications-oriented research and the pursuit of new technology amount to \$1,313 million, an increase of \$62 million over 1968. The growth is spread over a wide variety of scientific disciplines and technologies directly supporting advances in weapon systems.

Development programs, including support of test and evaluation facilities, will reach a level of \$6,813 million in 1969, an increase of \$394 million over the 1968 amount. Growth in such major programs as the Sentinel antiballistic missile system, the orbiting laboratory, new tactical fighter aircraft, and improved tactical missile systems more than compensates for decreases in systems such as the C-5A transport aircraft and several versions of the F-111 aircraft. Strategic retaliatory systems such as Minuteman and Poseidon continue to receive a large portion of development resources, as do the many tactical weapons and supporting hardware under development for application in Vietnam. Construction of research and development facilities will decline \$27 million from 1968 to 1969 reflecting overall military construction priorities.

Table J-10. DEPARTMENT OF DEFENSE—MILITARY—RESEARCH AND DEVELOPMENT (in millions of dollars)

Purpose and budget title	1967 actual	1968 estimate	1969 estimate
Conduct of research and development:			
Research, development, test, and evaluation:			1
Military sciences	618	563	659
Aircraft and related equipment	1,199	1,230	1,024
Missiles and related equipment	2,456	2,492	2,544
Military astronautics and related equipment	961	1.064	1.299
Ships, small craft, and related equipment	288	317	418
Ordnance, combat vehicles, and related equipment	357	331	340
Other equipment	985	956	1,109
Programwide management and support	425	437	512
Emergency fund		24	125
Total, research, development, test, and evaluation; budget			
plan	7,289	7,415	8,031
Military personnel	308	306	301
Procurement	92	62	64
Operations and maintenance	22	26	32
Civil Defense	10	7	7
Special foreign currency program	1		11
Total, conduct of research and development, budget plan Research and development facilities:	7,722	7,816	8,445
Military construction, budget plan	87	98	71
Total, research and development, budget plan	7,809	7,914	8,516
Total expenditures	7,672	7,718	8,280

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

The total budget plan for NASA in 1969 is \$4.4 billion, a decrease of about \$280 million from the 1968 plan, primarily because of declin-

ing requirements for the manned lunar landing program.

Funds planned for research programs will increase from 1968 to 1969, while those for development will decrease. This continues the change in emphasis within the space program from the development of a basic flight capability toward use of that capability for research purposes.

Funds for facilities decreased in 1968 and will remain at about the 1968 level in 1969. These funds will provide modifications to launch pads and tracking facilities for forthcoming deep space and manned

lunar landing operations.

In table J-11, "Basic research" activities include unmanned space flight programs in physics, astronomy, biological sciences, and planetary and interplanetary exploration. Funds for technology programs which directly support these basic research activities and for the development and preparation of basic research experiments carried on manned space flights are also included in this category. The increases will provide for experiments to be flown in the Apollo applications program and for spacecraft to investigate Mars in 1971 and 1973.

Table J-11. NATIONAL AERONAUTICS AND SPACE ADMINISTRATION-RESEARCH AND DEVELOPMENT (in million of dollars)

Program and type of activity	1967 actual	1968 estimate	1969 estimate
Conduct of research:			
Basic scientific research in space:			
Spacecraft, instrumentation, conduct of experiments, and	427	404	575
supporting costs	436 40	494 45	575 45
Procurement of launch vehicles for basic research purposes	122	110	130
Other basic research in space science and technology	122	110	150
Subtotal, basic research	598	649	750
Other research	683	787	782
Procure ment of launch vehicles for other research purposes	53	50	55
Total, conduct of research, budget plan	1,334	1,486	1,587
Conduct of development:			
Manned space flight and supporting development	3,349	3,000	2,550
Development of launch vehicles for research purposes	78	60	121
Other development	57	65	67
Total, conduct of development. budget plan	3,483	3, 125	2,738
Research and development facilities:			
Facility grants to colleges and universities	4		
Manned space flight supporting facilities.	46	26	25
Other research and development facilities	40	- 11	20
Total, research and development, budget plan	4,908	4,649	4,370
Total, obligations	5,012	4,818	4,370
Total, expenditures	5,426	4,805	4,575

The "other research" category includes activities conducted to provide advanced technology for new space vehicles and aircraft. Funds required for the recently completed Surveyor and Lunar Orbiter programs, which provided data needed for the design and operation of manned lunar landing systems, are decreasing. This decrease is offset by increases in funding for applications of space technology to earth resources surveys and for aeronautical research to provide technology for new civil and military aircraft.

The "development" category includes the development and operation of manned space flight systems, except for the scientific experiments discussed above. Development of launch vehicles for all purposes

including research is also in this category.

ATOMIC ENERGY COMMISSION

Operating funds of the AEC for the conduct of research and development will total \$1.5 billion in 1969. Obligations for research and development-related construction and purchases of equipment are estimated

at \$459 million and expenditures at \$244 million.

The \$1.5 billion budgeted for conduct of research and development in 1969 represents an increase of nearly \$140 million, or 10%, over 1968. Two-thirds of this increase will occur in the weapons program, largely for development of warheads for the Sentinel antiballistic missile system and other advanced weapons systems. All other Commission research and development efforts will increase by an average of about 5% in 1969.

The Atomic Energy Commission's research programs will increase from an estimated \$414 million in 1968 to about \$439 million in 1969. Nearly 75% of this increase is for research in the physical and biomedical sciences, with the remainder attributable to an increased

applied research effort in the weapons program.

A 6% increase is planned in 1969 in the physical research program, which includes research in high, medium and low energy physics; in controlled thermonuclear reactions; and in those aspects of chemistry, metallurgy, and mathematics of particular importance to nuclear

science and technology.

The development funds of the Commission are used primarily to design and test improved nuclear weapons, to develop improved nuclear reactors, and to develop peaceful uses of radioisotopes and nuclear explosives. Increased weapons development work will account for slightly more than three-fourths of the increase from \$948 million in 1968 to \$1,062 million in 1969 in these development programs.

The reactor development program includes efforts to develop improved types of nuclear power reactors, compact nuclear electric power sources for space and terrestrial applications, and reactors for space and naval propulsion. Continued emphasis will be placed on development of a fast breeder reactor, which is expected to produce more fissionable fuel than it consumes in the process of producing power.

Obligations for research and development facilities are estimated to increase by \$290 million in 1969, due to the deferral from 1968 to 1969 of more than \$180 million in obligations. Expenditures will increase by

about \$38 million, largely for the same reason.

The Atomic Energy Commission plans to begin construction in 1969 of the 200-Bev proton accelerator. This project, for which definitive design was authorized in the 1968 budget, will have a total design and construction cost of about \$250 million excluding supporting research equipment. The 1969 budget provides \$25 million for initiation of construction.

The 1969 budget also provides an additional \$26 million for continuation of construction of the Los Alamos Meson Physics Facility, a medium energy physics facility which is expected to produce a proton

beam of extremely high intensity.

The 1969 budget further includes \$35 million to continue construction of the Fast Flux Text Facility, a test reactor capable of producing a large quantity of high energy neutrons in a controlled environment for testing fuel and other reactor materials and components for the high priority fast breeder reactor program. The total estimated capital cost of this facility is \$88 million.

Table J-12. ATOMIC ENERGY COMMISSION—RESEARCH AND DEVELOPMENT (in millions of dollars)

Program	Conduct of research and development			Research and develop- ment facilities		
	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Production technology for fissionable materials. Development of weapons. Reactor development. Physical research. Biology and medicine. Other research and development	23 419 455 253 86 20	23 478 482 265 88 26	26 570 510 280 92 22	3 54 58 84 9 2	2 55 68 73 7	63
Total, expenditures	1, 256	1, 362	1,500	210	206	24

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE

Obligations by the Department of Health, Education, and Welfare for research and development, including facilities, will increase by \$181 million to a level of \$1,511 million in 1969. This increase is

primarily in the programs of the Public Health Service.

Obligations for research and development of the Public Health Service will be \$1,272 million in 1969 as compared to \$1,169 million in 1968. About 85% of the PHS obligations are made through the National Institutes of Health and the National Institute of Mental Health. As in the past the primary mechanism of support will be the project grant. Increasingly, however, NIH and NIMH are supplementing research project support at academic institutions—particularly medical schools—with broader grants for general research support or core research resources and facilities. The trend of recent years to devote more research funds for more organized and targeted research will be continued. Programs in artificial organ transplant, vaccine and drug development, and fertility control will be stressed.

Relatively the largest program increase in the Public Health Service will be for air pollution. Under the newly enacted Air Quality Act of

1967, research and development on the removal of sulfur, nitrogen, and other impurities from fossil fuels, control of auto exhausts, and other air pollution control technology will be expanded. Generally industry, rather than universities, will conduct this work. Finally an increasing amount of research effort will be devoted to improving

the methods of delivering health care. Obligations of the Office of Education for research and development will increase from \$87 million in 1968 to \$145 million in 1969. The Office supports a broad range of efforts to improve education through experiments, development, and demonstrations. Included is support for (1) educational laboratories which bring together the resources of institutions of higher education, States, private enterprise, and the talents of scholars, experts, artists, and other specialists to design and demonstrate improved curricula and methods of instruction; (2) research and development centers which concentrate on such specific questions as education of the disadvantaged, individualized instruction, early childhood learning, and teacher education; and (3) project grants which are awarded to institutions for improvement of school curricula and studies of education and its effects. In 1969, stress will be placed on prototype programs for improved instruction especially for children from low income, migrant, or non-English-speaking families. A variety of research projects will involve joint efforts with the National Science Foundation, the National Institutes of Health, the Department of Housing and Urban Development, the Department of Labor, and the Office of Economic Opportunity.

Other, smaller research programs are supported by the Social and Rehabilitation Service, the Food and Drug Administration, and the

Social Security Administration.

NATIONAL SCIENCE FOUNDATION

The National Science Foundation supports basic research in all fields of science, primarily through grants to colleges and universities. In addition, support is provided for applied research and development activities authorized by the National Sea Grant College and Program Act of 1966.

Total obligations of the Foundation for the conduct of research are estimated at \$289 million in 1969 compared with \$262 million in 1968.

In 1969, approximately 4,000 research project grants will be awarded to an estimated 450 academic institutions. Through these grants and the national research centers, national research programs, and the sea grant program, the Foundation will continue to give emphasis to programs in oceanography, atmospheric sciences, chemistry and the social sciences—fields of growing national interest. Additional fundamental knowledge is required in these fields if significant progress is to be made on some of the critical problems facing society in such areas as air and water pollution abatement, weather modification, urban redevelopment, and exploitation of marine resources.

A significant increase is provided for the support of basic research in physics. A major portion of the increase will permit the Foundation to assume support of critically important basic research activities, principally in nuclear and elementary particle physics, previously supported by the Department of Defense. Funds are also included for the

continued development of the 150-inch stellar telescope for the Cerro Tololo Inter-American Observatory in Chile.

The above increases are partially offset by a decrease in new com-

mitments for research facilities.

DEPARTMENT OF AGRICULTURE

Obligations of the Department of Agriculture for research and development, including facilities, will increase from an estimated \$284 million in 1968 to \$301 million in 1969. Expenditures will increase from \$298 million to \$312 million.

There are no marked changes in the nature of the research and development programs of the Department in 1969. The 1969 Budget provides for strengthening agricultural research in a number of areas including the staffing of several new and expanded laboratories and watershed research centers, research on short staple cotton and mechanical classing methods for cotton. Also provided for in 1969 is an expansion in the use of foreign currencies for market development research and agricultural and forestry research.

Research will also be expanded under the economic research program in the areas of farm financial management and soil and water conservation. Commitments by State experiment stations under the Hatch Act and for cooperative forestry research will also rise.

DEPARTMENT OF THE INTERIOR

Obligations for the research and development programs of the Department of the Interior to improve conservation and the practical use of the Nation's natural resources will remain about level: \$255 million in 1968 and \$254 million in 1969. For the conduct of research and development, obligations will increase from \$210 million to \$226 million; but for facilities there will be a decrease from \$45 million to \$29 million. Research and development programs of the Department are conducted by the Geological Survey, the Bureau of Mines, the Offices of Coal Research, Saline Water, Water Resources Research, the Fish and Wildlife Service, the Federal Water Pollution Control Administration, the Bureau of Reclamation, and the Bonneville Power Administration.

Emphasis is given in 1969 to identification of new resources of minerals, particularly heavy metals in short supply, studies relating to discovery and recovery of deep-lying mineral deposits, and the appraisal and evaluation of the Nation's water resources. Further efforts are planned to develop the technology for producing low-cost fish protein concentrate.

Research will increase on water pollution and its effect on water uses and wildlife. Other research is continued on the energy potentials and marketing of coal, weather modification and water supply augmentation, and particularly on the development of low-cost methods for economically producing water from sea or brackish waters for industrial and municipal purposes.

A new program will be started in fiscal year 1969 to develop a more

efficient technology for underground mining and tunneling.

DEPARTMENT OF TRANSPORTATION

Obligations of the Department of Transportation for research and development, including facilities, will total \$148 million in 1969, an increase of \$19 million over 1968. Expenditures will total \$140 million in 1969, \$22 million more than 1968.

Within the Department the largest increase is in the programs of the Coast Guard. The obligations of the Coast Guard for the conduct of research and development will increase from \$9 million in 1968 to \$17 million in 1969. Major elements of this increase are research on the control of pollution by oil or other wastes and the development of buoy technology to collect oceanographic and environmental data.

The obligations of the Coast Guard for research and development facilities show a major increase, from \$1 million in 1968 to \$14 million

in 1969 largely for a new oceanographic cutter.

Under the Office of the Secretary studies will be pursued on improved traffic flows and rail passenger and freight demands in the Northeast Corridor and on coordination among various modes of

transportation.

Research and development in the Federal Aviation Administration will continue at about the same program level, with obligations of \$47 million in 1969. The research and development activities of the FAA include air traffic control; navigation; aviation weather; aircraft safety; and aviation medicine. The supersonic aircraft program is not included in this analysis.

The Federal Railroad Administration will obligate \$19 million in 1969 for research and development, a decrease of \$4 million below 1968. Expenditures will, however, increase from \$17 million in 1968 to \$23 million in 1969. The obligations drop in 1969 is a result largely of completion of initial funding of the New York to Boston phase of the Northeast Corridor demonstration program.

The Federal Railroad Administration will also expand in 1969 its support of research on a linear induction propulsion system and the

development of tracked air cushion vehicles.

The Federal Highway Administration research and development program will increase from \$42 million in 1968 to \$45 million in 1969. The increase in 1969 largely reflects further emphasis on making automotive travel safer.

DEPARTMENT OF COMMERCE

The Department of Commerce will obligate \$90 million for research and development in 1969, a decrease of \$6 million from 1968, principally reflecting a reduction in facilities. Expenditures in 1969 will

total \$82 million, slightly below 1968.

The Environmental Science Services Administration will increase its research on severe storms, weather modification, air-sea interaction, and electromagnetic spectrum utilization. Increased research on environmental forecasting and data gathering systems will support the World Weather program. Expanded efforts will be made to develop satellite sensors for use with horizontal sounding balloons in order to obtain improved weather observations.

The National Bureau of Standards will strengthen its research on the properties of matter and materials, physical measurements, automatic data processing, and building technology. Intensified research on the flammability of fabrics will support future development of

flammability standards.

The Economic Development Administration will conduct research aimed at determining the causes of unemployment and economic distress and formulating solutions. Studies will be undertaken to develop a general body of knowledge concerning regional economic development.

OTHER AGENCIES

Among other agencies, a number of programs also show significant increases.

The Veterans Administration will continue to expand research in medical and prosthetic fields of particular interest to the agency's

medical care mission.

Increases for the Smithsonian Institution mainly reflect expansion of archeological and biological research financed under its foreign currency program. Greater emphasis will also be given to astrophysics, ecology, and marine and tropical biology utilizing the Smithsonian's unique research resources.

The Department of Housing and Urban Development will increase its research on metropolitan and urban development stressing such areas as land use, community development, urban administration,

and reducing housing costs.

The Department of Justice will expand its support of research on the causes of crime and the effectiveness of various techniques for rehabilitating offenders. This increase is attributable to the proposed expansion of programs under the Law Enforcement Assistance Act and the enactment of the Safe Streets and Crime Control Act.

HISTORICAL SUMMARY

Table J-13 below gives historical data on total research and development expenditures by major agency.

Table J-13. EXPENDITURES FOR RESEARCH AND DEVELOPMENT, 1 1954-69 (in millions of dollars)

Fiscal year	Depart- ment of Defense 2	NASA 3	AEC	D/HEW	NSF	Other	Total
954	2.487	90	383	63	4	121	3,148
955		74	385	70	9	140	3,308
956		71	474	86	15	161	3,446
957		76	657	144	31	183	4,462
958		89	804	180	33	220	4.990
959		145	877	253	51	293	5,803
960	5 654	401	986	324	58	315	7.738
961	6.618	744	1.111	374	77	356	9,278
962		1,257	1.284	512	105	403	10.373
963	6,849	2,552	1,335	632	142	478	11.988
964		4, 171	1,505	793	190	519	14.694
965		5.093	1,520	738	192	604	14,875
966		5,933	1,462	879	225	768	16.002
967		5,426	1,466	1.090	278	775	16.715
968		4.805	1,568	1,180	311	924	16.515
969		4.575	1.744	1,310	321	1.028	17,270

Including research and development facilities.
 Includes civil functions.
 National Advisory Committee for Aeronautics prior to 1958.

SPECIAL ANALYSIS K

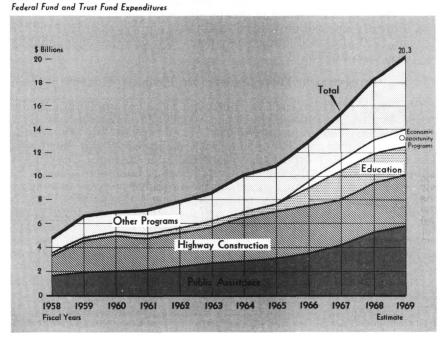
FEDERAL AID TO STATE AND LOCAL GOVERNMENTS

In recent years, the Nation has witnessed a significant growth in the scope of cooperative governmental efforts to solve national problems. In 1969, the scale of Federal grant programs is estimated to exceed \$20 billion. By sharing these sizable resources, the Federal Government is encouraging vital national goals to be pursued jointly by Federal, State, and local units. Special emphasis is being given to areas which have an important influence on the life of every individual such as education, health, welfare, and urban development.

These jointly administered programs:

- Make it possible to pursue broad national objectives in a way which recognizes the diversity of local conditions and needs;
- Spread creative innovation in public services from one jurisdiction to another; and
- Preserve a more equitable and responsive total tax system—by relieving some of the pressure on overburdened State and local tax sources.

Federal Aid to State and Local Governments



HIGHLIGHTS FOR FISCAL YEAR 1969

The emphasis of Federal-aid programs has shifted from time to time in response to changing conditions. For 1969:

• Total Federal grants to State and local governments are estimated to increase by \$1.9 billion over 1968, to \$20.3 billion. This represents more than a threefold increase in the short span of only a decade, and is nearly 52% greater than the rise in total Federal expenditures for domestic purposes over the same period.

• Public assistance and highways continue to be the largest grant programs. Together, they constitute about half of total Federal

aid payments.

- The fastest growing grants are those to advance the war on poverty, to provide decent medical care for the needy, to improve the facilities and services in our urban centers, and to upgrade the elementary and secondary educational opportunities available to children of low-income families. Between 1965 and 1969, grants administered by the Office of Economic Opportunity will show an increase of \$1.3 billion, and those for the new elementary and secondary education program will rise by \$1.4 billion. During the 1967–69 period alone expenditures for Medicaid will grow some \$949 million, and those for housing and community development will rise \$1 billion.
- Total aids for metropolitan or urban areas have risen from \$4 billion in 1961 to an estimated \$12 billion in 1969. Thus, Federal aids benefiting urban areas have grown by about \$8 billion, or nearly 205% in less than a decade. (Included in these amounts are grants to States which subsequently benefit urban areas. This topic is discussed in greater detail on pp. 165-167.)

 Federal loans will provide net assistance of more than \$525 million in 1969 after deducting repayments and other receipts, slightly

less than in 1968.

GROWTH AND DEVELOPMENT OF FEDERAL GRANTS

The birth of Federal aid to State and local governments actually predates the Constitution. Under the Articles of Confederation in 1785, Congress provided grants of Federal land to support education in the Northwest Territory. This policy was reaffirmed in the Northwest Ordinance of 1787—the same year that the historic Convention adopted the Constitution of the United States. Land continued to be the predominant form of Federal aid for a number of years thereafter.

There was a brief, but interesting, interlude in this pattern in 1837. In that year the Federal Government distributed surplus funds totaling more than \$28 million among the States on the basis of congressional representation. The funds were technically "deposits," but no repayment was ever demanded. Moreover, no restriction was placed on the use of the money.

Minimum requirements were first introduced in the Federal-aid structure in the Morrill Act of 1862 (which provided land for the

¹ Included in this amount are grants-in-aid and shared revenues from both Federal funds and trust funds. Shared revenues are a relatively small portion of the total, accounting for less than 2% in each of the years covered. Loans are discussed separately. Unless statements are made to the contrary, no aid figures in this analysis will include lending.

support of higher education). These requirements included a definition of objectives, State matching, and a-report on the use of funds. The federal system evolved gradually over the ensuing half century.

The early years of the 20th century saw aid extended for agriculture, highways, and limited social welfare programs. However, it was not until the crisis of the thirties that Federal aid reached any significant scale. At that time a broad array of welfare, housing, and economic security programs was inaugurated. The post-World War II period witnessed a further expansion of health and housing programs and a significantly augmented highway construction effort.

Not until the 1960's did the Nation experience a comparable expansion of new joint governmental initiatives. Recently, significant steps have been taken to help finance health services and medical care for the indigent, to launch a concerted attack on poverty, to rejuvenate blighted neighborhoods in our cities, to broaden educational opportunities, and to develop economically depressed regions of the

Nafion.

Factors underlying growth in Federal aids.—Increasing population along with rapid urbanization have led to greater demands for the services traditionally provided by State and local governments—such as education, health, community facilities, and transportation. Rapid economic change and rising affluence have given rise to the demand for new and better services, and stimulated programs to safeguard individual economic security. While the major burden for providing such public services rests directly upon the more than 80,000 State and local governmental jurisdictions, the Federal Government also plays a vital role. It provides assistance both by giving direct financial aid to State and local governments and by fostering a sound and growing economy, which concomitantly enlarges State and local tax bases.

Federal-aid programs by function.—The foregoing factors, coupled with the changing nature of State and local program needs, have altered substantially the focus of Federal aids at several junctures in the past two decades. These changes can be traced in the accompanying table.

Table K-1. PERCENTAGE DISTRIBUTION OF FEDERAL AIDS TO STATE AND LOCAL GOVERNMENTS BY FUNCTION

Function	1950 actual	1955 actual	1960 actual	1965 actual	1969 estimate
Agriculture and agricultural resources Natural resources Commerce and transportation Housing and community development Health, labor, and welfare Education Other	5 2 21 1 69 2	7 3 19 4 57 8 2	3 43 44 41 5	5 3 40 5 40 6	3 3 24 9 48 12
Total	100	100	100	100	100

The Federal-Aid Highway Act of 1956 significantly modified the pattern of aid to State and local governments which had prevailed in the preceding decade. By 1960, with the infusion of more than \$2½ billion in additional funds for highway grants, commerce and transportation programs moved to a dominant position in Federal assistance activities.

In more recent years, both the nature and number of aid programs have changed appreciably. In the last 5 years, the Congress enacted several programs which are aimed primarily at broadening the scope of individual opportunity and development. The cumulative effect of these programs has been to place the principal emphasis of Federal aid once again on health, labor, and welfare activities—as well as to give added impetus to education and housing and community development efforts. In 1969, these programs will account for 69% of total estimated aid payments.

Types of Federal Aid

In this analysis, Federal aid is defined as the flow of resources in support of State and local governmental functions which serve a national purpose. For the most part, this aid is then synonymous with grants of money to governmental bodies. However, in a few cases, it also covers resources channeled to quasi-governmental and private, nonprofit institutions where the use is primarily to provide new, or to augment existing, governmental services. (Examples include a number of community action programs to combat poverty, and aid for the construction of private, nonprofit hospitals and colleges.) In a similar vein, there are a few "nonmoney" aids, basically the provision of excess food for welfare recipients. The rationale is a simple one: The Federal Government can provide \$1 million worth of food or \$1 million to buy food. In either case, it constitutes \$1 million of welfare assistance. Finally, this analysis excludes certain research and development contracts as being payment for services rendered the Federal Government, rather than aid to the State college or university doing the research under carefully defined research objectives.

Direct assistance.—The principal forms of direct assistance to States and localities are grants, shared revenues, and loans.

In 1969, Federal grants are estimated to reach \$20.0 billion, and shared revenues will account for an additional \$249 million. Thus, grants will account for 98.8% of the total Federal aid in 1969.

There are basically two kinds of grants—formula and project grants. Formula grants are those in which, by law or administrative regulation, sums of money are allocated among States or their subdivisions according to specific measures of program need—such as population, per capita income, or the like. Project grants, on the other hand, are allotted in response to specific applications, presenting particular proposals for which assistance is requested. (Project grants, and their rapid growth, are discussed in greater detail on p. 164.)

Shared revenues are mainly receipts from the sale or lease of Government assets. The revenues generally come from the sale of natural resources and are shared with the jurisdiction in which the income-producing asset is located. Frequently, the funds are restricted in use

to programs such as education or highways.

Federal loans to State and local governments have to be repaid, and are therefore of a fundamentally different nature than other forms of direct aid. In 1969, net outlays for loans to State and local governments is estimated to exceed \$525 million. (For more detailed information on lending programs, see table K-11 on p. 174.)

The functional distribution of the several kinds of aid is shown in

the accompanying table K-2.

Table K-2. TYPES OF FEDERAL AID BY FUNCTION, 1969 (in millions of dollars)

		Net outlays		
Function	Grants	Shared revenues	Total	for loans
National defense	32.5		32.5	
International affairs and finance			5.3	
Agriculture and agricultural resources	644.0		644.0	70.0
Natural resources	476.2	140.8	617.0	6.7
Commerce and transportation	4,806.0		4,806.0	29.5
Housing and community development	1,812.5		1,812.5	105.8
Health, labor, and welfare	9,744.3		9,744.3	
Education	2,398.2	}	2,398.2	309.1
Veterans benefits and services	14.8		14.8	
General government	114.2	108.6	222.8	4.5
Total	20,048.0	249.4	20,297.3	525.6

Indirect assistance.—Apart from direct Federal aid, many other Federal activities which are not included in this analysis affect the finances of State and local governments. For example, there are a number of assistance programs for which expenditure information cannot be obtained readily, such as State and local participation in Federal employee training programs, technical assistance and advice provided by a host of Federal agencies, and a number of related services. Similarly, States and localities have first call on obtaining (at relatively nominal costs) land and equipment of the Federal Government which is declared surplus to Federal needs.

State and local governments also receive special beneficial treatment through the tax system. For example, the interest cost savings to these units of government which result from exempting interest on State and local bonds from Federal income taxes have been estimated at between \$1 billion and \$2 billion. Similarly, since taxpayers may deduct certain State and local taxes from Federal taxable income, a portion of State and local taxes is offset by a reduction in the taxpayers' Federal liability. In 1967 the value of this deduction in terms of tax savings to individuals was approximately \$4.7 billion. It should also be noted that the Federal credit for payment of State inheritance and estate taxes has definitely encouraged States to make more effective use of this resource at a revenue cost to the Federal Treasury currently estimated at some \$300 million.

SIGNIFICANT FEATURES OF THE 1969 AID PROGRAM

This section focuses only on the 1969 aid program and some of its more significant features.

Major program changes for 1969.—In 1969, total expenditures under existing and proposed programs for financial assistance to State

and local governments are estimated to be \$1.9 billion more than for 1968 and \$5 billion more than the actual total for 1967.

The major increases in Federal expenditures for grants cover a

number of important programs.

Health, labor, and welfare grants will rise an estimated \$970 million as the Medicaid program continues to build up momentum.

• Grants for housing and community development are up by an estimated \$628 million, or 53%, over 1968 as the Model Cities program reaches the action stage for the first time and as other programs to assist in solving urban problems are intensified.

Decreases in expenditures in 1969 are expected to occur in grants for equipment, books, and guidance counseling (\$81 million), and higher education activities (\$73 million)—as older grants are replaced by programs better suited to current educational needs, and as less essential construction of facilities is postponed.

Federal-aid programs by agency.—In 1969 the Department of Health, Education, and Welfare will spend approximately \$9.4 billion through its grant programs—about 46% of total Federal aid. Another 22% or \$4.4 billion will be accounted for by the Department of Transportation. The Office of Economic Opportunity and the Departments of Agriculture and Housing and Urban Development will finance an additional 22% of Federal-aid programs. The detailed table at the end of this analysis lists the various programs of Federal aid to State and local governments by function, type of aid, agency, and major program group.

Table K-3. FEDERAL GRANTS BY AGENCY (in millions of dollars)

Agency	1967 actual	1968 estimate	1969 estimate	
Executive Office of the President	0.4	0.3	*	
Funds appropriated to the President:				
Economic opportunity programs	1, 050. 4	1, 272. 0	1, 426. 0	
Other (primarily public works acceleration and disaster relief)	74.6	195.9	267.6	
Department of Agriculture	989. 6	1, 227. 5	1, 346. 8	
Department of Commerce	79.8	115.3	156.2	
Department of Defense:				
Military	26. 4	27. 1	32.5	
Civil	14.5	28. 2	71.6	
Department of Health, Education, and Welfare	7. 182. 0	8, 776. 2	9, 395. 4	
Department of Housing and Urban Development	707.7	1, 103.0	1,713.5	
Department of the Interior	274.7	374.4	471.7	
Department of Justice	2.6	16. 1	50.6	
Department of Labor		629.0	669.3	
Department of State		6.1	5.5	
Department of Transportation.		4, 371. 0	4, 417, 0	
Treasury Department.		93.7	96.1	
Civil Service Commission		1	12.0	
Veterans Administration		13.4	14.8	
Other independent agencies		30.8	51.7	
National Capital region 1		82.0	99.0	
Total expenditures for Federal aid	15, 239. 5	18, 362. 3	20, 297. 3	

^{*}Less than \$500 thousand.

1 Includes Federal payments to the District of Columbia of the following amounts: 1967, \$58.0 million; 1968, \$70.0 million; 1969, \$80.2 million.

IMPACT OF FEDERAL GRANTS

The term "fiscal federalism" has taken on new currency in the past few years. Increasing attention has been focused on the financial problems of State and local governments and the response of the Federal Government to help meet their burgeoning needs.

Federal aid in relation to Federal and State-local outlays.—
The rapid increase in Federal aid to State and local governments has become an increasingly important factor in the finances of all levels of government. Federal aid as a proportion of Federal expenditures has nearly doubled in the past decade—rising from 6.1% of the total in 1958 to an estimated 10.8% in 1968. In terms of domestic programs, 21.8% of Federal expenditures will take the form of aids to State and local governments in 1968. Because of strenuous efforts on their own behalf, the relative increase in the impact of Federal aid has not been quite as marked for the recipient State and local governments as it has been for the Federal Government. Nevertheless, Federal aid has risen as a proportion of State and local revenues, moving from 12% in 1958 to an estimated 17% in 1967.

Table K-4. FEDERAL-AID EXPENDITURES IN RELATION TO TOTAL FEDERAL EXPENDITURES AND TO STATE-LOCAL REVENUE

	Federal aid					
		As a percent of-				
	Amount (millions)	Total Federal expenditures	Domestic Federal expenditures 1	State-local revenue 2		
958	\$4,935	6.1	14.6	12.0		
1959	6,669	7.4	16.6	14.6		
1960	7,040	7.8	17.2	13.8		
1961	7,112	7.4	15.7	13.2		
1962	7,893	7.5	16.4	13.5		
1963	8,634	7.7	16.4	13.7		
1964	10,141	8.6	18.2	14.8		
1965	10.904	9.3	18.8	14.8		
1966	12.960	9.9	20.3	15.6		
1967	15,240	9.9	20.7	16.9		
968 estimate	18,362	10.8	21.8	(3)		
969 estimate	20,296	11.1	21.6	(3)		

¹ Excluding expenditures for national defense, space, and international affairs and finance.
² Based on compilations published by Governments Division, Bureau of the Census. Excludes State-local revenue from publicly operated utilities, liquor stores, and insurance trust systems.
³ Not available.

² Space does not permit a full treatment of this subject. The forthcoming report by the Advisory Commission on Intergovernmental Relations, entitled "Fiscal Balance in the American Federal System," discusses many of the more significant issues.

Matching requirements.—The pattern of State and local spending is influenced to some extent by Federal grants. This influence is exercised mainly through requiring the recipient to match Federal-aid funds with their own resources. The matching, or cost-sharing requirements are of two kinds: variable matching, which takes account of the differing abilities of States to support aided functions, and fixed ratio matching under which each is required to share in the same proportion of program cost.

In 1966, State and local governments had to provide a minimum of between \$5 billion to \$5½ billion of their own funds to receive the \$13 billion of Federal grants. This means that, on the average, the recipients must raise \$1 for every \$2 forthcoming from the Federal Government. This ratio varies by major function, ranging from one-fourth of total program costs in a number of areas to one-half in natural resources. However, State and local government matching funds account for only about 7% to 8% of general expenditure out of their own revenue sources. The largest grant programs, public assistance and highways, similarly account for the largest share of total required matching funds.

In 1969, required matching funds will rise to an estimated range of \$8% billion to \$9% billion, nearly \$3 to \$5 billion more than in 1966.

Division of responsibility among governments.—For the past decade or so, a remarkable stability exists in the proportionate share of public services provided by Federal, State, and local units of government. Federal grants, and grants from States to local governments, have contributed to this stability by matching resources with program need. From the turn of the century until the end of World War II local government expenditures declined relative to those of the States. However, the resurgence of such State and local functions as education and highways, significantly aided by intergovernmental grants, helped to restore States and localities to a position of predominance. Now, about two-thirds of total civilian expenditures by all governmental units are made by State and local governments, with the latter alone accounting for about 44%.

Table K-5. DIRECT SPENDING FOR GENERAL DOMESTIC 1 PROGRAMS— PERCENTAGE DISTRIBUTION

Fiscal year	Federal	State	Local	Total
1966	33	24	44	100
1965		23	43	100
1960	36	22	42	100
1955	38	21	41	100
1950	46	19	35	100
1944	60	12	28	100
1936		15	36	100
190 2		9	62	100

Note.—Expenditures in the form of intergovernmental transfers are shown by the level of government that spends the funds, rather than by the level that provides grants for public services. This is done in order to indicate direct spending by the three levels of government and to avoid "double counting."

Source: Tabulations of the Governments Division, Bureau of the Census.

¹ Direct general expenditures, excluding those for defense, space, and international programs. Excludes trust funds and Government-operated enterprises.

Administration of Federal-Aid Programs

The effective administration of Federal-aid programs, while always important, has received increasing attention recently. Special emphasis has been placed on the means of coordinating the growing number of aid programs and on measures to enhance intergovernmental cooperation.

Administrative costs of Federal aids.—The major focus of this analysis is to show the resources transferred from the Federal Government to State and local governments to help them meet their public responsibilities. For this reason, the Federal cost of administering grant programs has been excluded from the amounts shown.

Nevertheless, it is helpful to know how much these programs cost to administer. On the basis of a recent survey done in the Bureau of the Budget, Federal administrative costs were found to constitute 2% of aids provided to State and local governments—about the same proportion as prevailed 10 years ago. The costs ranged from 0.2% for public assistance to 4% for public housing programs. The variation in cost among programs is principally attributable to the nature of the grant. Many project grants, such as urban renewal and public housing, require more time and attention than formula grants (like public assistance) where most of the administrative costs are incurred locally.

Table K-6 arrays the administrative costs as a percentage of Federal aid provided for 3 years (1956, 1966, and 1969). The sharp declines in these costs for urban renewal and public housing reflect the rapid growth of the grant outlays, with a relatively stable cost of administration.

Table K-6. ADMINISTRATIVE EXPENSES AS A PERCENTAGE OF SELECTED FEDERAL-AID EXPENDITURES 1

Program	1956 actual	1966 actual	1969 estimate	
Highways Public assistance (including medical aid) Employment security programs Low-rent public housing Urban renewal Vocational rehabilitation Office of Education grants Hospital construction Economic opportunity programs	11.3 23.3 3.0	1.2 .2 3.4 4.0 3.2 1.9 1.7 1.5	1.5 .2 3.4 3.8 2.0 1.2 1.9 1.4	
Average of above (including prorated indirect expenses) Average of above (excluding indirect expenses)	1.7 1.2	1.8	1.7	

¹ This tabulation follows the general approach outlined in an earlier study done by I. M. Labovitz of the Library of Congress, entitled "Federal Expenditures Associated with the Administration of Program of Grants-in-Aid to State and Local Governments," Legislative Reference Service, Apr. 17, 1957. The administrative costs are taken from a sample of grants representing 80% to 85% of total Federal aid for the years covered. Administrative costs generally cover salaries, expenses, travel, and related expenses of the organizational unit directly administering the grant. Certain indirect overhead costs were also added to the direct costs incurred, including the costs of collecting, accounting for, and auditing the use of the aid moneys. The amounts shown for 1956 are those listed in the study by the Library of Congress.

² Not available.

Growth in number of aid programs.—The number as well as the magnitude of Federal-aid programs has grown in response to the increasing array of problems faced by State and local governments

which are also of significant national concern.

While not strictly comparable to the concept of aid used in this analysis, the Legislative Reference Service of the Library of Congress has tabulated the number of aid programs in effect during a recent 3-year period. In early 1964, the number of major assistance programs was 116. Two years later the number of programs had grown to 162. In many cases, a given program has within it several different grant authorizations. The total number of such authorizations rose from 239 in 1964 to 399 in 1966.

Table K-7. NUMBER OF AID AUTHORIZATIONS IN EFFECT AT SPECIFIED DATES

Functional category	Apr. 1,	Jan. 4.	Jan. 10,
	1964	1965	1966
National defense Agriculture and agricultural resources Natural resources Commerce and transportation Housing and community development Health, labor, and welfare Education Veterans benefits and services General government	11 12 33 23 17 94 37 1	11 12 41 25 23 114 42 3 12	11 15 54 37 32 153 82 3
Total number of authorizations Total number of major programs	239	283	399
	(116)	(135)	(162)

Source: Labovitz, I. M., "Number of Authorizations for Federal Assistance to State and Local Governments Under Laws in Force at Selected Dates During 1964-66" (Library of Congress), July 5, 1966.

On an agency basis, the largest number of programs—more than 45% of total authorizations—is administered by the Department of Health, Education, and Welfare.

The Departments of Agriculture, Interior, and Housing and Urban

Development combined account for an additional 25%.

Three-fifths or 226 of the 399 grants-in-aid authorizations in effect at the end of 1966 were of the project variety. This compared with 126 or 53% of such programs in 1964. Thus, project grants represent a sizable share of the total, and the proportion is gradually increasing.

The growth in project grants can be attributed to the increasing complexity of the problems which confront the Nation. Localities are encouraged to experiment and demonstrate ideas and methods that allow for the development of workable solutions based on the uniqueness of each community's needs and resources. At the same time Congress, in legislating new grant programs, specifies that an executive agency examine proposals made by an applicant for efficacy and soundness before committing Federal funds.

The need for project grants also reflects the fact that certain types of grants, such as urban renewal, place great stress on local initiative and local sensing of needs—factors that do not lend themselves to

simple accommodation in a formula.

Measures to coordinate Federal-aid programs.—While easing State and local financial problems, the sharp growth of aid programs has focused attention on the need for coordination and improvement in their administration.

Several steps are being taken in a continuing program to improve the administration of grant programs and to facilitate harmonious and

effective intergovernmental relations:

• High-level liaison with State and local governments is being provided through the Vice President of the United States and the Executive Office of the President. In 1967, trips to 40 State capitals were made by teams of officials from the Federal grant agencies for the express purpose of resolving problems associated with grant administration.

 Processing time required for the review of grant applications is being reduced by 50% as directed by the President for a number of grant programs (including water and sewer grants). The President also has directed that reduction techniques developed for these programs be applied to the grant programs of other

agencies.

• The Bureau of the Budget is forming an Operational Coordination Staff to focus on problems of grant-in-aid administration and

intergovernmental relations.

 Under new procedures, State and local chief executives will have the opportunity to comment on draft Federal regulations affecting

their programs.

 The coordination of Federal aids in metropolitan areas of the United States has been improved by giving metropolitan or regional planning agencies the opportunity to review and comment on applications for federally aided development projects which

vitally affect metropolitan growth and development.

Efforts to refine the grant as an instrument of cooperative intergovernmental action are clearly worthwile. Grants have served national, State, and local purposes well in the past and offer even more promise for the future. These joint Government programs have proven effective by—combining available resources, specifying certain minimum standards of performance, and decentralizing their actual administration.

AIDS TO URBAN AREAS AND REGIONS

Increasing attention has been focused recently on three cross-cutting issues concerning Federal aids:

(1) The amount of these aids which assist metropolitan or urban

areas in meeting their pressing needs;

(2) The geographical distribution of Federal aids; and(3) The extent to which aids compensate for low income.

Aids to urban areas.—In 1969, approximately \$12 billion of the \$20 billion of total Federal aids will be spent in standard metropolitan statistical areas (SMSA's) to help fill the growing gap between their needs and resources. This represents an increase of about \$8 billion or nearly 205% over the amount of aid provided to these urban areas in 1961. The amount will have increased almost \$3 billion in the short span of only 3 years.

Standard metropolitan statistical areas (SMSA's) were chosen as the definition of "urban" for the figures in this section, since SMSA's are generally combinations of entire counties; and counties, in turn, are the smallest geographical unit for which information on Federal aids is generally available. These areas cover the bulk of the urban population and display the urban phenomena which place heavy pressure on public service requirements: high population density and rapid population growth. Nevertheless, the amounts shown still only represent approximations based on the best information readily available.

The table below shows the major sources of urban aid, by function and program, for selected years.

Table K-8. FEDERAL-AID EXPENDITURES IN URBAN AREAS (In millions of dollars) 1

Function and program	1961 actual	1967 actual	1969 estimate
National defense (civil defense and National Guard centers)	10	21	26
Agriculture and agricultural resources	155	242	342
Natural resources	54	115	211
Commerce and transportation:			
Highways.	1, 398	2, 154	2, 336
Economic development		17	84
Airports	36	35	40
Other	1	12	3
Housing and community development:			
Public housing	105	184	253
Public housing		3	72
Urban renewal	106	279	525
Model cities			218
Urban transportation.		38	135
National Capital region	25	58	98
Other	2	42	135
Health, labor, and welfare:	- 1		1
Office of Economic Opportunity		788	945
School lunch, special milk, food stamp	131	225	313
Hospital construction	48	74	76
Community health	33	120	326
Public assistance (including medical care)	1, 170	2, 296	3, 119
Vocational rehabilitation	37	74	137
Employment security and manpower training	303	527	624
Other.	21	100	248
Education:		100	240
Elementary and secondary	222	1, 179	1, 180
Higher education	222	1, 173	105
Vocational education	28	163	175
	3	44	91
Other	,	8	44
Other functions			
Total aids to urban areas	3,893	8,908	11,912

[!] Excludes loans and repayable advances.

The major increases in Federal grants for urban areas occur in housing and community development, education, and programs to improve the welfare of our disadvantaged citizens.

The emphasis in this analysis is on those programs which provide financial assistance to urban communities to help them meet their

public service needs. It includes grants made to States which subse-

quently benefit metropolitan areas.

There are a number of other Federal programs which have an important bearing on urban development including direct Federal construction and various loan (and loan insurance) activities. No attempt has been made to add up all the various forms of funds to reach an overall total. However, the Department of Housing and Urban Development estimates that the total Federal financial commitment for urban social and community development aids could be considered to exceed \$37 billion in 1969—more than twice the level in 1961. The Department's figures indicate the magnitude of Federal financial involvement in communities of 2,500 population or over, as measured by obligations or commitments—including loans insured or guaranteed.

While the tabulations are not fully comparable, the estimates of the Department of Housing and Urban Development do serve to put in perspective the possible dimensions of urban-area expenditures not

covered by this analysis.

Regional distribution of Federal aids.—The distribution of Federal aids on a regional basis ranges from a high of more than \$3.1 billion in the Southeast to a low of \$504 million in the Rocky Mountain area. However, when account is taken of population differences, the Rocky Mountain area ranks highest with grant payments per capita reaching nearly \$108 while the Great Lakes and Mideast regions are lowest with \$47 and \$52 per capita, respectively. Population density and per capita income are the two major factors which account for this wide variation.

Table K-9. REGIONAL DISTRIBUTION OF FEDERAL AID, FISCAL YEAR 1966

Region	Total (in millions of dollars)	Per capita	Percent of State and local govern- ment general revenue
New England	684. 2	60, 85	14.4
Mideast	2, 147, 8	51.59	11.5
Great Lakes	1, 832, 7	47. 31	11.9
Plains	1, 112, 2	69. 81	16.3
Southeast	3, 125, 2	73, 29	21.3
Southwest	1, 160, 5	73. 31	19.2
Rocky Mountain	504.0	107. 69	21.5
Far West	2, 006. 8	79. 52	14.6
United States	1 12, 960. 1	66. 14	15.6

¹ Includes \$386.8 million for Puerto Rico, the Virgin Islands, and other adjustments.

Population density is inversely related to the level of per capita aids. The population density of the Rocky Mountain area is the lowest of the regions, while per capita aids are highest. At the other end of the scale, per capita aids are lowest in the Great Lakes and Mideast where population density is the greatest. This inverse relationship stems primarily from aids for highway construction and other

Sources: "Annual Report of the Secretary of the Treasury," and "Governmental Finances in 1965-66," Bureau of the Census. This report provides additional information concerning State distribution of Federal grants.

grants where program needs are not a direct function of population

density.

Per capita aid is also inversely related to per capita income. There are two reasons for this relationship. First, some grant programs, such as grants for hospital construction, require lower matching by the relatively poorer States. Second, certain grant programs, such as those for public assistance and elementary and secondary education, are designed as aids to the disadvantaged and, hence, tend to flow to States having individuals with lower incomes.

Equalization of Federal grants.—It is the latter tendency which reflects the growing impact of fiscal equalization provisions common to several recent grant programs. These provisions are designed to help States with relatively meager resources to participate more effectively in many jointly financed programs.

In a recent study by the Bureau of the Budget, the overall impact of Federal grants was found to demonstrate definite equalizing effects.³

Many programs contain explicit equalization provisions in which the Federal share varies inversely with income. However, equalization is also attributable to several new grant programs in which caseload rather than an explicit fiscal capacity equalization factor (per capita income) is used as the method of allocating funds. Title I of the Elementary and Secondary Education Act is designed to aid children of low-income families to obtain a decent education. This program has a built-in equalization effect of significant dimensions because it distributes funds to school districts on the basis of the number of school-age children from families with incomes below \$2,000 and the number of children from families receiving welfare aid to families with dependent children. Highway grants reduce somewhat the overall tendency toward equalization because they are large in absolute amount and are not necessarily related to income or fiscal capacity.

Outlook

Federal grants have been a vital and growing force through which the various units of the federal system have cooperated to meet ever-changing and ever more pressing national problems. The need to refine this system and continue its vitality—the need to keep it responsive to the people and to maintain the relative balance of power among the governmental units—demands constant attention. There are a number of changes now pending before the Congress or being introduced this year directed at this objective.

Improved timing of funds for education.—There has been a growing consensus that Federal grants for education are being made too late in the year to be used most effectively. At the State and local level, budget planning for education usually begins early in the spring. Yet, the amount of Federal aid—an increasingly important source of funds—is often not known until September or October; or even as late as January or February—when the school year has already begun.

^{3 &}quot;Equalization Effect of Federal Grants: Fiscal Year 1966," Fiscal Analysis Staff, Bureau of the Budget, June 1967. Excluding Alaska and Hawaii, which are special cases, the correlation coefficient for the relationship between State per capita grants and per capita income was -0.301 in 1966, indicating the presence of equalization.

The problem has been particularly acute for elementary and secondary

education and for assistance to students in higher education.

To facilitate State and local planning, and to encourage more effective use of Federal-aid funds, a new funding schedule is being proposed for these two important education categories mentioned above. Under legislation already enacted, funds are being sought this spring for the school year beginning next September. At the same time, the budget for 1969 proposes an advance appropriation for the school year beginning September, 1969. This approach will permit more effective local planning and utilization of Federal grant funds. Legislation will be proposed to permit similar advance financing of grant and loan assistance to college students.

Pooling funds for related grants.—The proposed Joint Funding Simplification Act of 1967 (H.R. 12631) would facilitate the pooling of related grant funds in support of a single, comprehensive project. Moreover, this approach would simplify the administration of grants considerably without compromising any of the substantive requirements in the law such as basic eligibility criteria, matching requirements, and related substantive matters.

The following kinds of administrative improvements could be accomplished under the proposed legislation: (1) combined project applications, approvals, accounting and audits; (2) a single project manager or lead agency to supervise the administration of aids on behalf of all participating Federal agencies, and (3) more uniform

technical and administrative requirements.

Under such an approach, for example, a jointly funded Neighborhood Center might draw on the combined resources of nearly a dozen grant programs now administered by four Federal agencies. The experience gained under this approach could point the way for a number of possible consolidations of related grants.

Consolidation and increased flexibility of student aids for higher education.—Legislation is being proposed this year to combine two categorical programs for student aid in the higher education field. Funds for National Defense Student Loans and the College Work-Study program would be consolidated in a single package and institutions would be given authority to move some portion of the funds among these two programs and Equal Opportunity Grants—mirroring the practice of many college campuses in considering these assistance programs as an integral unit of student aid.

Manpower for public service.—Legislation to aid State and local governments in the attraction and training of competent manpower is now pending before the Congress. The ability to provide essential services in the 1970's hinges in significant measure on the ability of these governments to attract the competent personnel required to meet the needs of both today and the future.

As intergovernmental fiscal and program relationships grow in volume and complexity, continuing emphasis will be given to enhancing the competence of all the partners in the federal system, and to improving the operation of the system itself.

Table K-10. FEDERAL AID TO STATE AND LOCAL GOVERNMENTS 1 (Expenditures in millions of dollars)

(mpendicules in minons o	i donar	• <i>)</i> 		
Agency and program		1967 actual	1968 estimate	1969 estimate
National defense:				
Executive Office of the President: Office of Emergency Planning—Federal contributions to State and local	050		2.2	
planning Department of Defense—Military:	059	0.4	0.3	*
Civil defense shelters and financial assistance Construction of Army National Guard centers		25. 7 . 7	25. 1 2. 0	29. 5 3. 0
Total, national defense	\	26.8	27.4	32.5
International affairs and finance:				
Department of State: East-West Cultural and Technical Interchange Center	153	6.6	5.8	5.3
Agriculture and agricultural resources: Department of Agriculture:				
Commodity Credit Corporation and Consumer and				
Marketing Service: Removal of surplus agricultural	251	270 4	420.0	444.3
commodities and value of commodities donated	351 352	278. 4 11. 1	420. 8 27. 0	33.8
Rural housing for domestic farm labor		8.6	3.8	5.0
Resource conservation and development	354	i.i	1.5	.9
Agricultural Research Service: Grants for basic				
scientific research	. 355	2.3	2. 1	1.9
Agricultural experiment stations		54. 9 89. 4	56. 1 86. 2	62. 4 93. 9
Cooperative agricultural extension service	355	07.4	00. 2	33.7
sumer and Marketing Service	355	1.8	1.8	1.8
Commodity Credit Corporation: Grants for research.		.3	. 2	.1
Total, agriculture and agricultural resources	-	448.0	599.4	644.0
Natural resources:				
Department of Agriculture:	1			
Watershed protection and flood prevention	_ 401	71.8	77.2	68.5
Grants for forest protection, utilization, and basic	402	10.0	10 4	18.3
scientific research		18.8	18.4	10. 7
National forest and grassland funds; payments to States and counties (shared revenue)		42.9	44.6	47.7
Department of Defense—Civil: Corps of Engineers:	-			
Payment to California, flood control	401	12.1	25.7	69.1
Payments to States, Food Control Act of 1954 (shared		2.4	2.5	2.5
revenue) Department of the Interior:	- 401	2. 4	2.)	2. 7
Water pollution control	401	99.0	139.8	190.9
Payments to States and counties from grazing receipts.				
grasslands, and sales of public lands (shared	l [١ .	١.,
revenue)	_ 401	1.0	1.0	
Bureau of Indian Affairs: Resources management	_ 401	.9	1.0	1.1
Bureau of Reclamation:	401	.1	.1	
Grants Payments to Arizona, Nevada, and Klamath res		1	1	
toration area (shared revenue)	401	.7	.7	.8
Office of Water Resources Research.	401	5.8	7.9	9.3
Office of Saline Water	₋ 401		1.8	3.3
Payments from grant lands: Oregon, California, and	402	21. 2	22. 4	22.5
Coos and Douglas Counties (shared revenue) Mineral Leasing Act payments (shared revenue)				
	105	, 10.1	,	
See footnotes at end of table.				

Table K-10. FEDERAL AID TO STATE AND LOCAL GOVERNMENTS 1—Con. (Expenditures in millions of dollars)

Agency and program	Func- tional code	1967 actual	1968 estimate	1969 estimate
Natural resources—Continued				
Department of the Interior—Continued	1			
Bureau of Mines:	403	0.2	Λ 1	0.2
Mine drainage and solid waste disposal	404	0. 2 2. 7	0. 1 5. 6	0. 2 5. 9
Aid for commercial fisheriesPayment to Alaska from Pribilof Island fund (shared	404	2.7	5.0). 9
revenue)	404	.3	.3	.1
Fish and wildlife restoration and management	404	22.5	25. 4	31.6
Wildlife refuge fund and grasslands payments (shared	ן דטר ן	22. 7	23.7	ا0
revenue)	404	1.2	1.0	1.1
Land and water conservation grants	405	22. 2	56.3	74.5
Preservation of historic properties	405	*	.3	77
Department of State: Pacific Halibut Commission	404	1	. 2	.2
Federal Power Commission: Payments to States (shared			• •	· -
revenue)	401	.1	.1	.1
Tennessee Valley Authority: Payments in lieu of taxes			• •	
(shared revenue)	401	11.9	13.1	14.8
Water Resources Council	401	1.6	2.4	2.7
water resources countries.				
Total, natural resources		387.7	497.9	617.0
Commerce and transportation:				
Funds appropriated to the President: Public works		i		
acceleration	507	19.4	12.0	
Department of Commerce:	J 307	17.4	12.0	
State marine schools	502	.4	.4	.4
Office of State Technical Services.	506	1.2	5.1	5. 2
Economic development assistance		19.8	109.8	150.6
		58.8	139.5	232.8
Appalachian development	1 707	30.0	127.2	2,72.0
Department of Transportation:	503		1.0	5.4
Chamizal Memorial Highway		37.3	1.0	(2)
Forest and public lands highways		24.3	79.7	81.2
Highway beautification Highway safety		.8	26.2	70.0
Fighway safety	503	3, 965. 9	4, 206, 1	² 4.187. 4
Federal-aid highways (trust fund)	. 203	J, 9 0J. 9	4, 200. 1	7,107.7
Federal Aviation Administration: Federal-aid airport	501	64.1	58.0	73.0
program				
Total, commerce and transportation	-	4,192.2	4,637.8	4,806.0
Housing and community development:				1
Funds appropriated to the President: Alaska mortgage				
indemnity grants	. 551	2.6		
Department of Housing and Urban Development:				
Alaska housing	551			. 1.0
Low-income housing	. 552	2.3	1.8	3.8
Low-rent public housing program	_ 552	245. 6	283.5	337.9
I labor planning grants	553	21.8	31.0	46.0
Open space land and urban beautification.	_ 553	19. 1	60.0	60.0
Grants for basic water and sewer facilities	_ 553	5.7	90.0	130.0
Grants for neighborhood facilities	_ 553	. 8	15.0	32.0
Open space land and urban beautification	553		22. 4	241.
Urban renewal	_ 553	370.4	500.0	700.0
Urban transportation assistance	_ 777	42. i	98.3	150.0
		1		_ 3.0
Metropolitan development incentive grants Other aids for urban renewal and community facilities			1.0	1 1 1

See footnotes at end of table.

Table K-10. FEDERAL AID TO STATE AND LOCAL GOVERNMENTS !--- Con.
(Expenditures in millions of dollars)

Agency and program	Func- tional code	1967 actual	1968 estimate	1969 estimate
Housing and community development—Continued National Capital region:				
Federal payments to District of Columbia	555	58.0	70.0	80.2
Washington Metropolitan Area Transit Authority	555	30.0	1.0	18.0
Dulles sewer project	555		11.2	.8
Total, housing and community development		768. 3	1, 185. 2	1, 812. 5
Health, labor, and welfare:				
Funds appropriated to the President: Disaster relief	659	52. 6	44. 5	34.8
Office of Economic Opportunity:	057	72.0	11.5	5,
Community action programs:				l
Head Start	655	287.3	293.5	294.0
Local initiative		220.6	301.4	314.0
Other		154.2	179.6	196.4
Work and training programs:				1
School year and summer	655	129. 6	172. 9	156.6
Comprehensive employment	655	141.1	207.3	406.8
Special impact	. 655		15.4	21.9
Work experience program	655	117.6	101.9	36.2
Department of Agriculture:			212.0	244.0
Special milk and school lunch		302.1	319.0	344.8
Food stamp	659	106.0	168. 8	223.5
Department of Health, Education, and Welfare:	451	204.0	217 0	212.0
Hospital construction	651	204.9	217.8 (104.2)	
(Portion to private, nonprofit institutions)		(91. 3) 31. 6	130.3	172.4
Health manpowerComprehensive health planning and services		J1. U	72.0	110.0
Desired and services.	651	3.0	13.7	34.6
Regional medical programs		1.6	1.6	1.6
Mental health		11.0	49.6	57.4
Health services		19.0	65.9	17.1
Disease prevention and environmental health	651	89. 2	76.6	19.4
Maternal and child welfare	651	178.7	214.1	248.7
Public assistance:	55	****		
Medical assistance	651	1,173.0	1,761.0	2,121.6
Work incentives (training and child care)			13.9	113.8
Income maintenance payments		2,610.1	2,976.0	2,960.9
Social services for welfare recipients	653	392.0	460.2	589.3
Juvenile delinquency				20.0
Vocational rehabilitation		185. 5	280. 1	341.0
Mental retardation			<u>-</u>	8.7
Administration on Aging	. 659	3.5	7.1	16.1
Department of Labor:	1,50	22 1	(0.3	50.3
Manpower development and training activities	652	22. 1	60.2	58. 2
Grants to States for administration of employment	452	E25 0	567. 0	609.3
security programs (trust fund)		535.8	1.8	1.8
Development of labor mobility		1.8 .1	.8	1.0
Equal Opportunity Commission	- 052		.0	.,
Total, health, labor, and welfare	.	6, 973. 8	8, 774. 1	9, 744. 3
	1 l			,

See footnotes at end of table.

Table K-10. FEDERAL AID TO STATE AND LOCAL GOVERNMENTS 1-Con. (Expenditures in millions of dollars)

Agency and program	Func- tional code	1967 actual	1968 estimate	1969 estimate
Education:				
Department of Health, Education, and Welfare:		1		
Assistance to schools in federally affected areas	701	417.4	341.2	381.9
Elementary and secondary educational activities	701	1, 364. 4	1, 473.0	1, 404. 4
Higher education activities (including land-grant				
colleges)	702	187.4	247.0	174. 2
Vocational education	704	232.8	255. 1	249.8
Arts and humanities educational activities	704	.4	.5	.3
Grants for library services and construction	704	57.4	84.8	94.8
Training teachers of the handicapped	704	*	12.0	21.5
Community services and National Teacher Corps	704	7.0	10.0	11.5
Civil rights educational activities	704	3.3	4.7	7.0
Teaching of the blind and deaf	704	1.0	1. 2	1.3
Educational television facilities	704	7.9	6.7	8. 2
Education professions development	704			7.5
Department of the Interior: Bureau of Indian Affairs:				
Education and welfare services	704	10.8	11.4	14.8
National Foundation on the Arts and Humanities	704	8.9	14.3	21.0
	'			
Total, education		2,298.7	2,461.9	2,398.2
Veterans benefits and services:				
Veterans Administration:				
	804		9.3	10.0
Aid to State homes Grants for construction of State nursing homes	804	8.8		
Grants for construction of State nursing nomes	004		2.4	3.0
Administrative expenses	805	1.1	1.7	1.8
Total, veterans benefits and services		9.9	13.4	14.8
General government:				
Civil Service Commission: Intergovernmental personnel	1			
assistance	906			12.0
Funds appropriated to the President: Transitional grants		i		
to Alaska	910	*		
Department of the Interior:				ļ
Grants to territories	910	25.9	37.0	51.4
Internal revenue collections, Virgin Islands (shared	[]			ļ
revenue)	910	11.1	12.4	12.5
Department of Justice:				
Law enforcement assistance:				
Education and training	908	1.6	2.7	5.6
Other	908	i.ĭ	4.0	8.1
Crime prevention and control	908	•••	9.4	36.9
Treasury Department:	700		, , , , , , , , , , , , , , , , , , ,	, ,,,,
Tax collections for Puerto Rico (shared revenue)	910	59.3	65.0	67.0
	710	37.3	05.0	0,.0
Bureau of Customs: Refunds, transfers and expenses				1
of operation, Puerto Rico and the Virgin Islands	904	27.5	28.7	29.1
(trust fund shared revenue)	704	21.5	20.7	27.1
General Services Administration: Hospital facilities in	005		*	
the District of Columbia			*	
President's Crime Commissions		.8		
American Revolution Bicentennial Commission	910		.1	.2
Total, general government		127.3	159.4	222.8
, D D				
Total, grants-in-aid and shared revenue	1	15, 23 9.5	18,362.3	

^{*} Less than \$500 thousand.

Grants-in-aid unless otherwise specified. Excludes loans which are shown separately in table K-11 on p. 174.

Reflects proposed transfer of forest and public lands highways to the Highway trust fund.

Table K-11. FEDERAL LOANS TO STATE AND LOCAL GOVERNMENTS

	Di	sburseme	nts	Net outlays		
Agency and program	1967 actual	1968 estimate	1969 estimate	1967 actual	1968 estimate	1969 estimate
Agriculture and agricultural resources: Soil and water loans	84. 0	80. 0	75. 0	83. 0	77. 0	70. 0
Natural resources: Reclamation loans	16.8	14.1	7.5	16.7	13.3	6.7
Commerce and transportation: Economic development.	38.0	24.9	7.8	6.8	23.8	29.5
Housing and community development: Department of Housing and Urban Development:						
Community disposal loans	4.1	3.0	6.4	3.5	2.4	8
Low-rent public housing program	154.1	220.0	220.0	10.5	19.9	-15.1
Public facility loans	58.7	45.0	54.0	55.9	41.4	49.7
Public works planning advances	14.2	7.1	3.6	7.9	-1.4	4.9
Urban renewal fund	601.3	453.2	455.2	58.3	.9	11.9
Urban transit fund				2	2	—.2
District of Columbia: Capital outlays						
and operations	52.2	55.2	108.3	19.0	16.2	65.2
Total, housing and community development	884.6	783.5	847.5	154.9	79.2	105.8
Education:					-	1
Department of Health, Education, and Welfare:						
Higher education activities	38. 2	148.5	150. 9	37.8	148. 1	149.9
Other	58.5	15.0	18.8	58. 4	14.9	17.8
Department of Housing and Urban De-						
velopment: College housing	215.0	192.5	162.2	191.1	173.9	141.4
Total, education	311. 7	356. 0	331. 9	295. 3	336. 9	309. 1
Canaval consuments						
General government: Department of Defense—Civil: Corps	1					
of Engineers: Construction of power	1	1				
systems, Ryukyu Islands	.2	.4		.2	.4	
Department of the Interior: Adminis-	.2			· -		
tration of territories	5.0	5.4	4.5	5.0	5.4	4.5
antion of territories						
Total, general government	5.2	5.8	4.5	5.2	5.8	4.5
Total	1, 310, 1	1 264 2	1, 297. 2	561. 9	536, 0	525. €

SPECIAL ANALYSIS L

PRINCIPAL FEDERAL STATISTICAL PROGRAMS

Principal statistical programs of the Federal Government in the 1969 budget are summarized in this analysis. The general year-to-year level of statistical activities of the various agencies is reflected in the amounts shown for current statistical programs. Recommendations in 1969 for current statistics total \$133.7 million. Periodic statistics, as distinguished from current, are characteristically derived from census-type surveys taken once or twice a decade, and amounts fluctuate widely from year to year depending upon the nature and periodicity of the activities. Recommendations for the periodic pro-

grams for 1969 aggregate \$24.7 million.

Objectives of these programs are to provide accurate, comprehensive, and timely information on the functioning of the economy and welfare of the people, both for Government decisions and for private and general public use. The functions of collecting, processing, and analyzing current general-purpose statistical information are often closely related to other agency objectives. To indicate the interrelationships of the statistical programs carried out by different agencies and to aid in evaluating the Government's overall statistical system, the significant components of current Federal statistical activity are brought together and classified by broad subject areas in this special analysis. These areas and the amounts involved for the current program are summarized in table L-1. Information by agencies for both current and periodic programs is shown in table L-2.

Current statistical programs covered by this analysis represent the entire programs of some agencies but only that portion of the programs of other agencies constituting general-purpose statistical

activity.

When adjustments are made because of reorganization of statistical units or activities they are carried back to both the current and previous years so that all 3 years covered by the special analysis are

on a comparable basis.

A brief description of the major program changes is shown below by broad subject areas. The agencies which contribute to each subject area are shown in table L-1. Adjustments made for additional amounts required for increased pay costs and for savings resulting from increased productivity are not itemized in descriptive statements but are reflected in the totals.

Table L-1. OBLIGATIONS FOR PRINCIPAL CURRENT STATISTICAL PROGRAMS, BY BROAD SUBJECT AREAS (in millions of dollars)

Program	1967 actual	1968 estimate	1969 estimate	
Labor statistics (Departments of Agriculture, Interior, and Labor; National Science Foundation) Demographic and social statistics (Departments of Agriculture,	26. 9	26. 9	29. 3	
Commerce, and Health, Education, and Welfare; National Science Foundation; Office of Economic Opportunity)	32. 9	40.5	46.6	
Prices and price indexes (Departments of Agriculture, Commerce, and Labor) Production and distribution statistics (Departments of Agricul-	6.3	6.9	7.7	
ture, Commerce, Defense, Interior, and Transportation; Civil Aeronautics Board; Interstate Commerce Commission) Construction and housing statistics (Departments of Commerce	31.0	31.5	33.5	
and Housing and Urban Development; Federal Home Loan Bank Board) National income and business financial accounts (Departments of	2.9	3.5	5.1	
Agriculture, Commerce, and Treasury; Federal Trade Commission; Securities and Exchange Commission)	10.3	11.0	11.5	
Total, principal current programs	110.2	120. 2	133.7	

LABOR STATISTICS

Manpower and employment data.—Funds are requested to strengthen the research program conducted and sponsored by the Office of Manpower Research in the Manpower Administration, Department of Labor (\$900,000). First priority in the development of research projects under title I of the Manpower Development and Training Act is being given to those which can assist in attacking unemployment in urban slums.

A requested increase of \$120,000 is included in the 1969 budget for the Economic Research Service, Department of Agriculture, to measure and study labor-mechanization adjustments in agriculture. This study would cover the problems of reduction of farm labor required per unit of output with technological advances that increase productive capacity of farms, the larger capital resources needed to support the smaller labor component, and improvement of training and skills so that earnings of workers in agriculture can be made more comparable with those in off-farm employment.

Wages and industrial relations.—Funds are recommended to inaugurate a semiannual survey of general changes in wage rates and benefits in nonmanufacturing industries, comparable to the existing series for manufacturing (\$200,000). This information will round out the data needed to relate the magnitude of wage and fringe benefit changes to changes in productivity and prices. It will also be used in studying problems of labor demand and supply among industries.

Table L-2. OBLIGATIONS FOR PRINCIPAL STATISTICAL PROGRAMS, BY AGENCY (in millions of dollars)

Agency	1967 actual	1968 estimate	1969 estimate	
CURRENT PROGRAMS				
Department of Agriculture:				
Economic Research Service: Statistical activities	3.8	3.9	4.7	
Statistical Reporting Service Department of Commerce:	13.7	14.2	14.7	
Bureau of the Census	16.4	17.1	18.2	
Office of Business Economics	2.8	2.9	3.3	
Department of Defense: Corps of Engineers: Domestic shipping				
statistics	1.1	1.1	1.1	
National Center for Educational Statistics	2.1	2.4	2.9	
National Center for Health Statistics	8.2	8.3	9.5	
Social Security Administration: Statistical and research				
activities	10.0	14.8	16.8	
Social and Rehabilitation Service: Statistical and research	1.8	2.0	2.2	
activities	1.0	2.0	2.2	
activities	.4	.5	1.3	
Department of the Interior: Bureau of Mines: Mineral statistics_	2.6	2.6	2.5	
Department of Labor:				
Bureau of Employment Security: Statistical activities	3.2	3.3	3.5 22.7	
Bureau of Labor Statistics Manpower Administration, Office of Manpower Research:	20.6	21.0	22.7	
Statistical activities.	4.0	4.0	4.9	
Department of Transportation: National transportation sta-				
tistics	.4	.7	1.8	
Treasury Department: Internal Revenue Service: Statistical				
reporting	5.8	6.2	6.2	
Civil Aeronautics Board: Statistical and research activities Federal Home Loan Bank Board: Statistical activities	.6 .6	.7 .7	8.	
Federal Trade Commission: Financial statistics	.4	.4	.4	
Interstate Commerce Commission: Reports and statistics	1.1	1.1	1.1	
National Science Foundation: Statistics and special analyses	4.4	4.5	4.9	
Office of Economic Opportunity: Statistical and research activi-	5.0	7.4	9.0	
ties	5.9	7.4	9.0	
statistics	.3	.3	.4	
Total, current programs	110.2	120.2	133.7	
PERIODIC PROGRAMS				
Department of Commerce: Bureau of Census:				
1964 Census of Agriculture.	1.9	.4		
1967 economic censuses	3.0	7.5	6.9	
1967 Census of Governments.	1.3	1.0	17.3	
Preparation for 19th decennial censuses	2.8 1.9	7.6 4.0	17.5	
Modernization of computing equipment	1.9	7.0		
puter purchase and related costs	.5		<u> </u>	
Department of Health, Education, and Welfare: National Center				
for Health Statistics: Computer purchase and related costs	1.1		-	
Total, periodic programs	12.5	20.5	24.7	
Table in the land in land	122.7	140.7	158.4	
Total, principal statistical programs	122.7	140.7	100.4	

DEMOGRAPHIC AND SOCIAL STATISTICS

Population statistics.—No increase is requested for this area since principal emphasis on population statistics during 1969 will be in connection with the 19th decennial census covered below under Periodic Programs. Work will continue on development of intercensal estimates of population and income for small areas based on use of administrative records. Consultation with and provision of technical assistance to States in making local population estimates will be ex-

panded out of existing funds.

Health and vital statistics.—An increase of \$1.2 million is requested for the National Center for Health Statistics. This increase would be used primarily for initiating a study of family planning and the problems related to population growth and change, for consultative services to State vital statistics agencies and the training of their personnel, and for studies of methodology to obtain data on birth and death rates in geographic areas as small as census tracts. In addition, the increased funds would be used to extend the study of patients discharged from hospitals, with emphasis on collecting data which could be of value in promoting the effectiveness of hospital care (\$85,000) and to obtain more comprehensive data on health manpower in order to design programs or provide assistance in expanding the supply of this category of workers (\$100,000).

The family planning and population growth study (\$450,000) is designed as part of a continuing survey to be conducted on a 2-year cycle to examine family planning and the economic problems of population growth and change. Services to State vital statistics agencies (\$380,000) include the establishment of an Applied Statistics Training Institute to increase the quantity and quality of health statisticians and thereby improving and increasing the quality and coverage of State and local health data. Funds (\$225,000) are also proposed for methodological studies required to produce birth and death rates for census tracts.

Educational statistics.—The 1969 budget recommends an increase of \$440,000 for the National Center for Educational Statistics. These funds are for the purpose of conducting methodological studies to improve the accuracy, timeliness, and coverage of widely needed educational data. Special surveys will also be conducted in areas that have been neglected: the scope and effectiveness of informal education; adequacy of school library facilities in secondary schools; facilities for, dimensions and effectiveness of, adult education; and tracing careers in higher education in terms of majors taken and grades achieved.

Social security statistics.—An increase of \$2 million is recommended for the statistical and research activities of the Social Security Administration. The major part of this increase would cover staff costs for additional work on the basic new program of health insurance, expanded retirement benefits, and new applications of computer technology.

In the health insurance area, the current Medicare survey provides data on use of services and accruing liabilities. This continuing survey would be supplemented by special studies to provide information on gaps in covered services and to gather information not otherwise available through the regular reporting system. The proposed increase

would also cover the costs of processing and analyzing the data collected in the "before" and "after" Medicare study designed to evaluate the health insurance program and a study of hospital accounting in connection with Medicare.

The survey of disabled adults would be continued as scheduled. This is a three-part survey which collected information from households in 1967 and will cover persons in institutions in 1968. Funds proposed for 1969 would provide for the third part of the survey which would provide data on individuals in nursing homes and extended care facilities. Each part of the survey would be supplemented by mail followup of families and representative payees.

Funds are included in the 1969 budget for fieldwork on the retirement history survey. This is a longitudinal survey which would follow persons in the 58-62 age group for a period of 10 to 12 years to evaluate the changing needs of those who are retired or about to retire.

The proposed increase would also permit work to continue on a number of analytical and research studies on special subjects such as income-maintenance programs, lifetime earnings, alternative measures

of program adequacy, and social security in other countries.

Welfare statistics.—A net increase of \$163,000 is recommended for this area. Although the level is not substantially changed a number of new studies will be undertaken, replacing those that have been completed. Major studies in 1969 will focus on determining the costs, benefits, and effectiveness of major public welfare and related programs. Interest will be centered on the evaluation of ongoing programs as well as the collection of essential information for future program development. Among the programs and areas of concern to be covered are: alternative forms of day care, particularly family-type care with built-in child development provisions; increasing the potential employability of AFDC mothers; use of subprofessionals and volunteer staff; and an evaluation of family planning services.

Other studies will focus on evaluation of employment and training, histories of a national sample of Department of Labor referrals (AFDC), determining the effectiveness of employment incentives—as used by various welfare departments—and the provision of social services to encourage employment. There will be an increased emphasis on studies to determine the relative cost and merits of alternative approaches to providing necessary services for the aged, and on an assessment of public welfare agency programs for the prevention and reduction of births out of wedlock in the AFDC caseload. Considerable emphasis will also be given to studies of various approaches—particularly neighborhood service centers—for delivery of social services.

Plans also call for the development of increasingly analytical reports on the utilization of medical care for adult welfare recipients and the medically indigent. Studies relating to children and youth will include a national sample survey to secure demographic and social data, an evaluation of federally aided State and local programs providing family planning services, a study of county trends in infant mortality, and the development of procedures for classifying small areas in regard to level of living. Reporting statistics covering juvenile courts are to be extended and amplified.

Economic opportunity.—This area includes basic research and statistics on poverty and evaluation of antipoverty programs. An increase of \$1.6 million is requested for 1969 for the Office of Economic

Opportunity. These funds will be devoted primarily to expanded evaluation activity, particularly of the effectiveness of the manpower and community action programs. Work will continue in 1969 at about the same level as in 1968 on basic research concerning the nature,

causes, prevention, and alleviation of poverty.

The 1969 budget recommends an increase of \$592,000 for the Economic Research Service, Department of Agriculture, to assemble, coordinate, and analyze data from primary and secondary sources that will serve as indicators of changes in the rural economy. Major kinds of information needed for this purpose on a current basis include changes in population, migration, employment, incomes, and public facilities. The information would be used to guide programs for development in rural areas and to appraise the need for new programs or policies.

PRICES AND PRICE INDEXES

The 1969 budget requests funds for a stepped-up program in three aspects of price data compiled by the Bureau of Labor Statistics. First, \$300,000 is included to extend to additional industries the series of wholesale price indexes presented on an industry sector basis consistent with input-output. Second, \$100,000 is requested to place the wholesale price index on a more realistic basis by collecting actual transaction prices for major commodities whose transaction prices deviated from those quoted or listed in wholesale markets. Finally, there is an additional \$120,000 to initiate work on obtaining price data for commodities in U.S. import and export trade.

The 1969 budget includes a proposal for additional research by the Statistical Reporting Service, Department of Agriculture, on the effect of shifts in the relation between producers and processors on prices received by farmers, and further development of the data transmission

and processing system of the Service.

PRODUCTION AND DISTRIBUTION

An increase of \$325,000 is requested for the Bureau of the Census to undertake new activities in this area. The present monthly reporting of manufacturers' inventories would be expanded to include inventories held by manufacturers at their nonmanufacturing locations, such as central offices, warehouses, and sales branches, and would also contain a more complete defense-nondefense break in the sales, orders, and inventories data (\$150,000).

Additional funds requested would also expand the collection of statistics on service trades receipts to several important services not now covered. These include certain services (law firms, architectural and engineering service firms, and travel agencies) covered for the first time in the 1967 Census of Business, and, to the extent they are now under the social security system, other types such as medical, private educational, and accounting services (\$175,000).

There are persistent demands for still further improvements in the content, accuracy, and timeliness of statistics pertaining to the production, inventory, and marketing of agricultural commodities. In order to assure that the responsibility of the Federal Government for this information is met in the most efficient, economical way, the Department of Agriculture, through its Statistical Reporting Service, will conduct a comprehensive review and appraisal of the crop and livestock estimates program of the Service, the contribution of other Federal data-gathering activities to that program, and the role of related State activities. The review, for which \$150,000 is requested, will be carried out with the close collaboration of the Bureau of the Budget.

An increase of \$1.1 million is proposed in 1969 for the statistical work of the Department of Transportation. These funds would be used to determine transportation information needs, exploration of problems of data collection, processing, and analysis, and for pilot projects

in the use of data for program planning purposes.

CONSTRUCTION AND HOUSING STATISTICS

A total of \$525,000 is recommended for improvement of the construction value-in-place series produced by the Bureau of the Census. These improvements are in three segments of construction. The first involves placing residential construction upon an actual monthly progress reporting basis instead of the present reliance upon estimating from generalized construction patterns (\$250,000). In this way actual progress would be recorded rather than using an insensitive pattern which does not reflect unusual weather conditions or shortages in labor or materials.

Secondly, the present nonresidential sampling frame would be studied and assessed. Expansion in sample size would be instituted where necessary to reduce overall sampling error and to provide signif-

icant data for additional construction types (\$200,000).

Thirdly, State and local construction, representing a primary component of the public sector, would be placed on a monthly progress reporting basis (\$75,000). This would replace the present unsatisfactory system of quarterly surveys which delays monthly reports and depends upon interpolation for individual months during the quarter.

The budget also includes an increase for the statistical work of the Department of Housing and Urban Development. New surveys would be undertaken to determine the rates at which new rental units are absorbed by the market (\$150,000), to study the effect of new housing on the existing supply by collecting information on the successive units that change hands when a new unit is occupied (\$100,000), and to determine the size preferences among prospective occupants of new housing developments (\$50,000).

Funds are requested for a quarterly survey of residential mortgage lending by savings and loan associations, commercial and mutual savings banks, and insurance and mortgage companies (\$200,000). This would permit, for the first time, a comprehensive collection of data on the gross and net flows of mortgage funds and the volume of

loan commitments.

A series of three studies dealing with the effects of taxes and tax policies would be instituted (\$350,000): the impact of property taxes on slum properties, the effect of tax incentives on urban renewal in those States that have granted tax concessions for this purpose, and the extent to which tax considerations influence builders' decisions to build multifamily residential structures.

NATIONAL INCOME AND BUSINESS FINANCIAL ACCOUNTS

Economic accounts.—With the additional \$370,000 requested for the Office of Business Economics for 1969, estimates of gross national product produced in each industry would be developed on a quarterly basis; the existing plant and equipment survey would be expanded to (1) include industries not now covered, and (2) to provide separate information on expenditures for plant and expenditures for equipment; and the OBE quarterly econometric model would be further developed to improve its ability to forecast economic activity as well as to test the economic impact of alternative policies. Also included are funds for rental of a larger computer.

Financial statistics.—An addition of \$110,000 is provided for the Securities and Exchange Commission to increase the scope and detail of information on capital markets, including liquid assets held by nonfinancial institutions and private placements and retirements of corporate securities, and on operations of financial institutions in

credit markets.

Periodic Programs

Preparation for 19th decennial censuses.—An increase of \$10 million is requested for preparatory work in connection with the 19th decennial censuses. Of this amount, \$7 million is for the Census of Population, Unemployment, and Housing, and \$3 million for the Census of

Agriculture.

During 1969, work on the Census of Population, Unemployment, and Housing involves completion of the dress rehearsal program; updating the national residential mailing list; development of tabulation and processing specifications; further research in field methodology for hard-to-enumerate areas; completion of a major portion of the geographic preparatory work; preparation of primary computer programs; preparation of data collection materials; and development of selected address coding guides for the place-of-work inquiry.

The Census of Agriculture involves a complete count of the number of farms, the characteristics of farms and farm operations, uses of agricultural land, production and sales of farm products, farm credit and debt, and principal cash expenditures. During 1969, preparatory work includes developing specifications and basic operating plans, reviewing the content of report forms with concerned individuals and organizations in the light of problems encountered in the past, preparing mailing lists, and writing and testing electronic computer programs.

Economic censuses and Census of Governments.—The bulk of the data collected in these censuses, covering the year 1967, will be tabulated in 1969. The publication program will also be started. Expenditures during 1969 will be at a reduced level from 1968.

SPECIAL ANALYSIS M

FOREIGN CURRENCY AVAILABILITIES AND USES

Many agencies of the Government are engaged in activities throughout the world which involve payments in foreign currencies. From some of its activities, particularly the sale of surplus agricultural commodities on concessional terms, the Government acquires foreign currencies without spending dollars. This analysis presents summary data on

these foreign currency availabilities and uses.

Most currencies accrue to the credit of the United States because of past or current international agreements that deal primarily with (1) sales of commodities (usually surplus agricultural commodities) to foreign purchasers for local currencies, or (2) loans of dollars or foreign currencies which may be repaid in the currency of the borrower. Currencies also become available in much smaller amounts under other kinds of international agreements and from the normal operations of the U.S. Government abroad. With respect to these sources, sales of commodities for foreign currency will be phased out over the next few years.

The use of a large part of the foreign currencies owned by the United States is committed by the terms of the international agreements under which they are received. Some must be used on a loan or grant basis for mutually beneficial purposes in the country; these are called "country-use" currencies. Currencies available for the purposes

of U.S. agencies are called "U.S. use" currencies.

Management of U.S. use currencies.—The Federal Government has established procedures to ensure the maximum use of the foreign currencies which are available for U.S. purposes. Efficient use of these currencies is important not only as a matter of sound financial management but because of the need to improve the balance-of-payments position of the United States.

It is useful for both administrative and analytical purposes to divide

U.S. use foreign currencies into two categories:

Excess currencies are the currencies of countries for which the Treasury Department determines (after reviewing the availabilities and prospective uses) that the supply is great enough to more than cover our requirements for the next 2 years. For 1968, the excess currency countries are: Burma, Ceylon, Congo (Kinshasa), Guinea, India, Israel, Pakistan, Poland, Tunisia, United Arab Republic (Egypt), and Yugoslavia. All but Congo (Kinshasa) are expected to remain excess currency countries in 1969.

To make effective use of excess foreign currencies, separate appropriations for "special foreign currency programs" have been provided for several years. These appropriations finance programs which may include projects of lower priority than those financed through regular appropriations. The use of these appropriations results in an expenditure being reported for the using agency and a receipt for the Commodity Credit Corporation or other fund which acquired the currency.

In addition, payments from regular appropriations may also be made in excess foreign currencies, and agencies are encouraged to substitute the use of such currencies for dollars.

Nonexcess currencies are those of all countries not designated as "excess." In many of these countries, our supply of currencies is far below our needs, and it is necessary to purchase currencies commercially to meet our requirements. In some of these countries, however, the supply of currencies available for U.S. programs is above our immediate needs, but not by a great enough amount for the country to be declared an excess currency country. Special efforts are made to use these "near-excess" currencies, rather than U.S. dollars, wherever possible. It is not appropriate, however, to seek additional uses for such currencies, and they are not available for use under the special appropriations. The "near-excess" countries currently are: Bolivia, Ghana, Indonesia, Morocco, and Sudan.

Total availabilities of foreign currencies owned by or in the custody

of the United States are as follows:

Table M-1. CASH AVAILABILITY OF FOREIGN CURRENCIES (In millions of dollar equivalents)

	1967	1968	1969
	actual	estimate	estimate
Currencies owned by the United States: For U.S. uses:			
Excess currencies	1, 534	1, 638	1, 779
	377	529	430
Subtotal, for U.S. uses	1, 911	2, 167	2, 209
For country uses	1, 664	1, 329	1,074
Amounts unfunded in Treasury accounts	—52	-78	-88
Total	3, 523	3, 418	3, 195
Currencies held in trust	140	161	161

Need for foreign currencies.—As indicated in table M-2, the need for foreign currencies in U.S. operations often does not correspond to their availability on a country-by-country basis. Although the United States will have over \$2 billion available for U.S. programs, less than \$500 million will be in nonexcess currencies. We must, therefore, purchase over \$2.2 billion of currencies to meet our total requirements. (These figures are based on projections of future collections and requirements; foreign currency transactions are subject to more fluctuation and are, generally, less predictable than U.S. dollar transactions.) In nonexcess currency countries a strong effort is made in the negotiation of commodity sales agreements to obtain the maximum amount possible for U.S. uses. Despite this, in the normal course of its worldwide operations, the Government must purchase large amounts of many currencies while at the same time it is accumulating large inconvertible balances for others.

Table M-2. FOREIGN CURRENCIES AVAILABLE TO MEET U.S. REQUIREMENTS, 1969 (in millions of dollar equivalents)

	Esti mated	1969 estimated require- ments (expenditures)		Amounts	Require- ments for
Country	supply for 1969	Other than special programs	Special programs	available for use after 1969	commer- cial purchase in 1969
Excess currencies:					
Burma	15.0	1.2	0.6	13.2	
Ceylon	10.3	.7	1.9	7.7	
Guinea	4.1	3.0		.8	
India	803.0	11.9	28.4	762.7	
Israel	46.4	8.5	16.1	21.8	
Pakistan	168.4	8.4	8.9	151.1	
Poland	464.8	3.9	6.6	454.3	
Tunisia	18.6	1.1	1.8	15.7	
United Arab Republic (Egypt)	166.7	1.4	4.8	160.5	
Yugoslavia	81.9	2.6	11.8	67.5	
I ugosiavia	01.9	2.0	11.0	07.5	
Total, excess currencies	1,779.2	42.7	81.2	1,655.3	
Nonexcess currencies:					
Bolivia 1	8.7	17.9			9.2
Canada	6.4	94.6			88.2
France	3.1	130.2	.1		127.2
Germany, Federal Republic of	8.6	894.6	.2	(2)	886.2
Ghana 1	1.4	1.4		(2)	
Indonesia 1	5.0	.3	.1	4.6	
Italy	1.9	74.6	: <u>:</u>	1.0	72.9
Japan	44.6	258.0	i :i	22.0	235.5
Korea	12.4	64.7	(2)	22.0	52.3
Morocco 1	16.8	10.3		6.5	ر.عر
	6.3	84.9		0.5	78.6
Philippines	14.7	41.5	.2		27.0
Spain		1	.2	2	27.0
Sudan 1	1.3	126.7			
Thailand	8.5	126.7 80.1	(2)		118.2
United Kingdom	4.0		.6		76.7
Vietnam	90.4	368.0	(2)	-	277.6
Other countries	195.6	374.9	.7	4.9	184.9
Total, nonexcess currencies	429.7	2,623.8	2.2	38.2	2,234.5
Total	2,208,9	2,666.5	83.4	1,693.5	2,234.5

¹ Currently designated as "near-excess" currency countries, but this designation may not be effective in 1969.

² Less than \$50 thousand.

U.S. uses of foreign currencies.—Table M-3 summarizes transactions of U.S. use foreign currencies. Disbursing officers are required to use foreign currencies owned by the Government, if they are available, before purchasing such currencies commercially with U.S. dollars.

Table M-3. SUMMARY OF FOREIGN CURRENCY TRANSACTIONS, U.S. USES (In millions of dollar equivalents)

	1967 actual	1968 estimate	1969 esti mate
Cash balances brought forward:			
Excess currencies	1.221	1.387	1.528
Nonexcess currencies	61	43	34
Subtotal, cash balances brought forward	1,282	1,430	1,562
Collections:			
Public Law 480 sales	138	230	137
Foreign assistance programs (including special letters of credit).	110	122	110
Interest on public deposits	25	23	23
Other nonloan collections	52	60	52
Loan repayments (principal and interest):			
Loan repayments (principal and interest): Public Law 480 loans	117	143	162
Foreign assistance loans (including Development Loan			
Fund)	178	159	163
Subtotal, collections	620	737	647
Net transfer to country use	9		
Total availabilities	1,911	2,167	2,209
Expenditures (deduct):			
Foreign currency expenditure authorizations	10	10	12
Foreign assistance programs (special letters of credit)	108	119	105
Miscellaneous receipts of the general fund	170	152	114
Commodity Credit Corporation, Agriculture	156	300	241
Other	16	24	44
Deposits for replacement currencies			
Subtotal, expenditures 1	460	605	516
Adjustments due to changes in exchange rates	-21		
Cash balances carried forward	1,430	1,562	1,693

^{*}Less than \$500 thousand.

1 Excludes sales of country-use currencies, subject to later replacement, as follows: 1967, \$27 million; 1968, \$10 million; and 1969, \$2 million.

Recommendations for special foreign currency program appropriations 1969.—Most U.S. uses of foreign currencies are covered by unrestricted dollar appropriations. Table M-4 shows the separate appropriations for special foreign currency programs, which are limited to the use of excess foreign currencies.

Table M-4. SPECIAL FOREIGN CURRENCY PROGRAM APPROPRIATIONS— NEW OBLIGATIONAL AUTHORITY (in thousands of dollar equivalents)

	1967 enacted	1968 estimate	1969 estimate
Library of Congress: Collection and distribution of library materials	2,076	2,003	2,440
Department of Agriculture: Agricultural Research Service: Salaries and expenses	4,500	8,500	12,700
Department of Commerce:			
International activities: Salaries and expenses	200	200	200
Environmental Science Services Administration: Research and			
development	500	750	500
National Bureau of Standards: Research and technical services	500	500 500	500
Department of Defense: Special foreign currency program	7,348	, ,	12,800
Department of Health, Education, and Welfare:	2,510		12,000
Office of Education: Educational research and training	1.000		4,000
Public Health Service: Scientific activities overseas	10.000	15,000	30.000
Social and Rehabilitation Service: Research and training	4,500	5,000	7.500
Department of the Interior: Bureau of Commercial Fisheries:	.,500	3,000	1,500
Management and investigations of resources.	500	100	100
Department of Labor: Bureau of International Labor Affairs:	300	100	100
Special foreign currency program	75	75	360
Department of State:	15	,,,	500
Administration of Foreign Affairs:			
Administration of Poreign Altairs: Acquisition, operation, and maintenance of buildings abroad	6.250	5,025	3.050
Overseas schools program	0,230	3,023	700
Educational Exchange: English language teaching program in			700
Poland			2,300
•	2,316	2.316	6,000
Smithsonian Institution: Museum programs and related research.	2,310	2,510	0,000
United States Information Agency:	10.041	0.604	0.240
Salaries and expenses	10,941	8,604	9,340
Special international exhibitions	350	387	428
Total	51,056	48,460	92,918

Foreign currency expenditure authorizations.—The 1968 Foreign Assistance and Related Agencies Appropriation Act authorized the expenditure of \$6 million in excess currencies for assistance to American schools and hospitals abroad. The 1969 budget recommends \$3.1 million for American schools and hospitals in Poland and the United Arab Republic (Egypt). In addition, excess currencies are made available under permanent authorizations for emergency relief assistance and for the purchase of goods and services in Afghanistan (using Pakistan rupees) and Nepal (using Indian rupees). Some unexpended balances of prior foreign currency expenditure authorizations remain for Defense family housing. Table M-5 summarizes all transactions under foreign currency authorizations for U.S. uses which do not require charges to dollar appropriations.

Table M-5. SUMMARY OF FOREIGN CURRENCY AUTHORIZATIONS FOR U.S. USES (in thousands of dollar equivalents)

	1967 actual	1968 esti mate	1969 estimate
New authorizations to spend foreign currency receipts:			
Funds appropriated to the President:	2 407	1 000	1 000
Emergency relief	3,407	1,000	1,000
Assistance to third countries	3,997	8,000	8,000
American schools and hospitals abroad	1,000	5,986	3,100
Department of State.	731		
Total authorizations	9,135	14,986	12,100
Expenditures:			
Funds appropriated to the President:			ĺ
Emergency relief	2,629	1.374	1,241
Assistance to third countries	6,355	7.208	7,685
American schools and hospitals abroad	0,555	500	3,000
	407		
Department of Defense	407	490	500
Department of State	745		
Total expenditures	10,136	9,572	12,426

Country uses.—A far larger amount of foreign currency is used outside of the appropriations process, as summarized in table M-6. These consist of loans and grants in the host country for common defense and economic development.

Table M-6. SUMMARY OF FOREIGN CURRENCY TRANSACTIONS—COUNTRY USES (in millions of dollar equivalents)

	1967 actual	1968 esti mate	1969 esti mate
Balances brought forward	1,008	780	675
Collections: Public Law 480 sales Foreign assistance program	657 8	545 4	395 4
Subtotal, collections	665 9	549	399
Total availabilities	1,664	1,329	1,074
Outlays (deduct): Public Law 480 country loans and grants Public Law 480 loans to private enterprise Other foreign assistance programs	852 35 8	624 24 6	444 23 5
Subtotal, outlaysAdjustments due to changes in exchange rates	895 11	654 *	472
Balances carried forward	780	675	602

^{*}Less than \$500 thousand.

Trust funds.—As a result of international agreements, the United States receives and spends foreign currencies for the benefit of the other country. These currencies are held in trust funds by the Treasury. Table M-7 summarizes foreign currency trust fund activity.

Table M-7. SUMMARY OF FOREIGN CURRENCY TRUST FUNDS
(In millions of dollar equivalents)

	1967 actual	1968 estimate	1969 esti mate
Balances brought forward	33	47	56
New authorizations to spend foreign currency—permanent: Advances from foreign governments	107	114	105
Total availabilities	140	161	161
Expenditures (deduct): Advances from foreign governments Adjustments due to changes in exchange rates	92 —1	105	109
Balances carried forward	47	56	52

Loans.—As a result of various loan programs, the United States has outstanding loans of over \$5 billion equivalent repayable in foreign currency. Over \$3 billion of this is in excess currencies. The loan repayments and interest are available for U.S. uses.

Table M-8. BALANCES OF OUTSTANDING LOANS REPAYABLE IN FOREIGN CURRENCIES AS OF JUNE 30, 1967 (in millions of dollar equivalents)

Excess currency countries: 37 Burma 37 Ceylon 14 India 1, 838 Israel 276 Pakistan 562 Tunisia 67 United Arab Republic (Egypt) 360	Nonexcess currency countries: Brazil
Yugoslavia 291 Total, excess currencies 3, 445	Other 751 Total, nonexcess currencies 2,050 Total 5,495

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