The data and identities for the US model are discussed in this appendix. Tables A-1 through A-4 describe the construction of the variables, and Table A-5 contains the identities. The stochastic equations of the model, which are presented in Chapter 4, are repeated in Table A-5. (The tables are grouped together at the end of this appendix.) Some of the material in these tables was discussed in Section 4.1.2, and the discussion will not be repeated here.

The FFA data were taken from a Flow of Funds tape of data through 1982III. The NIA data prior to 1977I were taken from an NIA tape. The tape consisted of data through 1981I, but the data from 1977I on were preliminary and subject to revision. NIA data for the 1977I–1982I period were taken from the July 1982 issue of the *Survey of Current Business*. In addition, data for a few variables for 1973I–1976IV were taken from this issue (table 3, pp. 131-132) to replace the data taken from the tape. NIA data for 1982II and 1982III were taken from an advance copy of the *Survey of Current Business* tables dated December 1982.

Table A-1 lists the sectors of the model. The notation on the RHS of the table (H1, FA, and so on) is used in Table A-2 in the description of the FFA data. The notation on the LHS (h, f, and so on) is used in the model.

Table A-2 contains a description of all the raw-data variables. These variables are used in Table A-4 to construct the actual variables in the model. The units quoted in Table A-2 are the units used for the construction of the variables in Table A-4; they are not necessarily the units from the original sources. The raw-data variables are listed in alphabetic order at the end of Table A-2. This makes it easier to find particular raw-data variables, which one needs to do to see how the variables in Table A-4 are constructed.

The source for the interest rate data is the *Federal Reserve Bulletin*, denoted FRB in the table. Listed in the table for each interest rate variable is the table number in the November 1982 issue of the FRB where the variable can be found. Some of the past data were obtained directly from the Federal Reserve.

The main source for the employment and population data is *Employment* and Earnings, denoted EE in the table. Listed in the table for each variable is the table or page number in the February 1982 issue of EE where the variable can be found. Some of the past data were obtained directly from the Bureau of Labor Statistics (BLS). For two variables, *JF* and *HF*, the relevant data are not published in EE, and they were obtained directly from the BLS.

A few adjustments were made to the raw data, and these are also presented in Table A-2. The quarterly social insurance variables 171-176 were constructed from the annual variables 73-78 and the quarterly variables 33, 54, and 66. Only annual data are available on the breakdown of social insurance contributions between the federal and the state and local governments with respect to the categories "personal," "government and government enterprises employer," and "other employer." It is thus necessary to construct the quarterly variables using the annual data. It is implicitly assumed in this construction that as employers, state and local governments do not contribute to the federal government and vice versa.

The tax variables 177 and 178 concern the breakdown of corporate profit taxes of the financial sector between federal and state and local. Data on this breakdown do not exist. It is implicitly assumed in this construction that the breakdown is the same as it is for the total corporate sector.

Regarding the tax and transfer variables 51 and 56, the tax surcharge of 1968III-1970III and the tax rebate of 1975II were taken out of personal income taxes (TPG) and put into personal transfer payments (TRGH). The tax surcharge numbers were taken from Okun (1971, table 1, p. 171). The rebate was 7.8 billion dollars at a quarterly rate.

The multiplication factors in Table A-2 pertain to the population, labor force, and employment variables. Official adjustments to the data on *POP*, *POP1*, *POP2*, *CL*, *CL1*, *CL2*, and *CE* were made a few times, and these must be accounted for. This was done as follows. Consider as an example the adjustments to *POP*. In January 1972 the BLS added 787 thousand to *POP* (a .547 percent increase), and in March 1973 it added 13 thousand (a .009 percent increase). To account for the first change, the old data on *POP* for the 19521–1971IV period were multiplied by 1.00547. To account for the second change, the old data on *POP* ("old" now including the first change) for the 19521–1972IV period were multiplied by 1.00009 and the old data for 1973I were multiplied by 1.00006. Since the second change occurred in March 1973, the adjustment to the old data for 1973I was only two-thirds of the adjustment for the earlier quarters. The same procedure was followed for the other variables. For four of the variables (*CL*, *CL*1, *CL*2, and *CE*), there was also an official adjustment in January 1978. All the multiplication factors are presented in Table A-2. The official adjustments are discussed in *Employment and Earnings*, February 1972, April 1973 (note to Table A-1), and February 1978. Some of the official adjustment numbers were obtained directly from the BLS. In the February 1983 issue of *Employment and Earnings* the household data were revised back to 1970 to reflect the information from the 1980 Census. These revisions did not eliminate the need to make the above adjustments, but they did otherwise make the pre- and post-Census data comparable.

Table A-3 contains the checks on the consistency of the NIA and FFA data. The financial savings of the sectors are defined in Eqs. (1)-(6). The savings must sum to zero across sectors, which is Eq. (7). The savings variables are based on NIA data, and they must match the corresponding variables based on FFA data—Eqs. (8)-(13). Equations (14)-(16) are adding-up checks on the FFA data alone.

Table A-4 presents all the variables in the model. With a few exceptions, the variables are either defined in terms of the raw-data variables in Table A-2 or are determined by identities. The construction of each variable is given in brackets. If the variable is determined by an identity, the notation "Def., eq." appears, where the equation number is the identity in Table A-5 that defines the variable. In a few cases the identity that defines an endogenous variable is not the equation that determines it in the model. For example, Eq. 85 defines *LM*, whereas stochastic equation 8 determines *LM* in the model. Equation 85 instead determines *E*, *E* being constructed directly from raw-data variables. Also, some of the identities define exogenous variables. For example, the exogenous variable  $d_{2g}$  is defined by Eq. 49. In the model Eq. 49 determines  $T_{fg}$ ,  $T_{fg}$  being constructed directly from raw-data variables.

The financial stock variables in the model that are constructed from flow identities need a base quarter and a base quarter starting value. The base quarter values are indicated in the table. The base quarter was taken to be 1971IV, and the stock values for this quarter were taken from the Flow of Funds tape.

There are also a few internal checks on the data in Table A-4. The variables for which there are both raw data and an identity available are *GNP*, *GNPR*,  $M_b$ ,  $PU_g$ ,  $PU_s$ , and  $\pi_f$ . In addition, the savings variables in Table A-3 (*SAH*, *SAF*, and so on) must match the savings variables in Table A-4 ( $S_h$ ,  $S_f$ , and so on). The checks on the savings variables are strong because many variables affect savings. Finally, there is one redundant equation in the model, Eq. 80, which the variables must satisfy. There are a few variables in Table A-4 whose construction needs some explanation. They are discussed in the following sections.

# The Variable H<sub>f</sub>\*

 $H_f^*$  is  $H_f$  detrended. The trend factor was obtained from a regression of  $H_f$  on a constant and t for the 1952I-1982III period. The estimate of the coefficient of t was -.56464, and this is the coefficient that is used in the definition of  $H_f^*$  (Eq. 100).

# The Variable HO

Data are not available for HO for the first 16 quarters of the sample period (1952I-1955IV). The equation that explains HO in the model has log HO on the LHS and a constant and  $H_f^*$  on the RHS. This equation was estimated for the 1956I-1982III period, and the predicted values from this regression for the (outside sample) 1952I-1955IV period were taken to be the actual data. For this work the equation was estimated under the assumption of no serial correlation of the error term. The equation that is actually used in the model is estimated under the assumption of first-order serial correlation.

# The Variable JJ\*

 $JJ^*$  is JJ detrended. The trend factor was obtained from a regression of log JJ on a constant and t for the 1952I-1982III period. The estimate of the coefficient of t was -.00083312, which is the coefficient that is used in the definition of  $JJ^*$  (Eq. 96).

# The Parameter $\gamma_g$

 $\gamma_g$  is the progressivity tax parameter in the personal income tax equation for g. It was obtained as follows. The sample period was divided into 15 subperiods, each subperiod corresponding roughly to a period in which there were no major changes in the federal tax laws. The 15 subperiods are 1954I-1963IV, 1964I-1965I, 1965II-1968II, 1968III-1969IV, 1970I-1970IV, 1971I-1971IV, 1972I-1972IV, 1973I-1975I, 1975II, 1975III-1976IV, 1971I, 1977II, 1977III-1980IV, 1981I-1981IV, and 1982I-1982III. Two assumptions were then made about the relationship between  $T_{hg}$ , personal income taxes, and YT, taxable income. The first is that within a subperiod  $T_{hg}/POP$  is

equal to  $[d_1 + \gamma_g(YT/POP)](YT/POP)$  plus a random error term, where  $d_1$  and  $\gamma_g$  are constants. The second is that changes in the tax laws affect  $d_1$  but not  $\gamma_g$ . These two assumptions led to the estimation of the following equation:

$$(A.1) \quad \frac{T_{hg}}{POP} = - .0187 + \sum_{i=1}^{15} \hat{a}_i DUMG_i \frac{YT}{POP} + .015513 \left(\frac{YT}{POP}\right)^2 (8.84) \qquad (8.8) \qquad (8.8) \qquad (8.8) \qquad (8.8) \qquad (8.$$

 $DUMG_i$  is a dummy variable that takes on a value of one in subperiod *i* and zero otherwise.  $\hat{a}_i$  is an estimate of  $d_1$  for subperiod *i*. The estimate of the coefficient of  $(YT/POP)^2$ , .015513, is the estimate of  $\gamma_g$ . Since (A.1) is only a rough approximation, a constant term was included in the estimated equation even though the above two assumptions do not call for it. When YT is zero,  $T_{hg}$  ought to be zero, but the zero-zero point is so far removed from any observation in the sample period that it seemed unwise from the point of view of approximating the tax system to constrain the equation to pass through this point.

Given  $\gamma_g$ ,  $d_{1g}$  is defined to be  $T_{hg}/YT - (\gamma_g YT)/POP$  (see Table A-4).  $d_{1g}$  is taken to be exogenous, and  $T_{hg}$  is explained (Eq. 47) as  $[d_{1g} + (\gamma_g YT)/POP]YT$ . This treatment allows a marginal tax rate to be defined (Eq. 90):  $d_{1g}^{M} = d_{1g} + (2\gamma_g YT)/POP$ .

## The Parameter $\gamma_s$

 $y_s$  is the progressivity tax parameter in the personal income tax equation for s. The same procedure was used to estimate this parameter as was used to estimate  $\gamma_g$ . There were 19 subperiods: 1954I-1964IV, 1965I-1965IV, 1966I-1966IV, 1967I-1967IV, 1968I-1968IV, 1969I-1969IV, 1970I-1970IV, 1971I-1971IV, 1972I-1972IV, 1973I-1973IV, 1974I-1974IV, 1975I-1975IV, 1976I-1976IV, 1977I-1977IV, 1978I-1978IV, 1979I-

1979IV, 1980I-1980IV, 1981I-1981IV, and 1982I-1982III. The estimated equation was

(A.2) 
$$\frac{T_{hs}}{POP} = -.0157 + \sum_{i=1}^{19} \hat{b}_i DUMS_i \frac{YT}{POP} + .0022626 \left(\frac{YT}{POP}\right)^2$$
(2.38)  
 $\hat{b}_1 = .0352, \hat{b}_2 = .0344, \hat{b}_3 = .0344, \hat{b}_4 = .0351,$ 
(16.79) (17.35) (17.53) (17.91)  
 $\hat{b}_5 = .0362, \hat{b}_6 = .0371, \hat{b}_7 = .0383, \hat{b}_8 = .0398,$ 
(18.44) (18.75) (19.18) (19.78)  
 $\hat{b}_9 = .0431, \hat{b}_{10} = .0408, \hat{b}_{11} = .0398, \hat{b}_{12} = .0408,$ 
(20.93) (19.05) (18.01) (18.10)  
 $\hat{b}_{13} = .0415, \hat{b}_{14} = .0413, \hat{b}_{15} = .0401, \hat{b}_{16} = .0380,$ 
(17.60) (16.56) (14.90) (13.09)  
 $\hat{b}_{17} = .0379, \hat{b}_{18} = .0368, \hat{b}_{19} = .0375$ 
(12.32) (10.99) (10.82)  
SE = .000780, R<sup>2</sup> = .999, DW = 1.82, 1954I - 1982III

As can be seen, the estimate of  $\gamma_s$  is .0022626.  $d_{1s}$  is defined to be  $T_{hs}/YT - (\gamma_s YT)/POP$  (see Table A-4). The marginal tax rate is defined to be (Eq. 91):  $d_{1s}^{M} = d_{1s} + (2\gamma_s YT)/POP$ .

### The Variable V

The base quarter for the stock of inventories, V, was taken to be 1980IV. The base quarter value was 340.6, which was taken from the Survey of Current Business, July 1981, p. 17.

## The Variable KH

KH is an estimate of the stock of housing of the household sector. It is defined by Eq. 59:

59. 
$$KH = (1 - \delta_H)KH_{-1} + IH_h.$$

Given  $IH_h$ , which is constructed from the raw data, KH can be constructed once a base quarter value and a value for the depreciation rate  $\delta_H$  are chosen. Annual estimates of the stock of housing are available through 1975 from the *Survey of Current Business*, April 1976. The base quarter for *KH* was taken to be 1963IV, and the base quarter value was taken to be 657.1. This number is the sum of the last four numbers in the 1963 row in table 8, p. 52, of the April 1976 issue of the *Survey*. Given this starting point, alternative values of  $\delta_H$ were used to generate different *KH* series from Eq. 59. The aim was to find a value that led to fourth-quarter values of *KH* that were close to the published values. The value of  $\delta_H$  that was chosen was .00655, which is a depreciation rate of .655 percent per quarter. The generated value of *KH* for 1973IV was 905.4, which compares almost exactly to the published value of 905.9. (Again, the 905.9 number is the sum of the last four numbers in table 8, p. 52, of the *Survey*.) The generated value for 1974IV was 928.1, which compares to the published value of 923.3.

### The Variable KD

KD is an estimate of the stock of durable goods. It is determined by Eq. 58, which is similar to Eq. 59 for KH. Annual estimates of KD are available through 1979 from the *Survey*, April 1981. The base quarter was taken to be 1964IV, and the base quarter value was taken to be 249.6, which is the 1964 value in table 4, p. 65, of the April 1981 issue of the *Survey*. The value of the depreciation rate,  $\delta_D$ , that led to a good approximation to the published series was .0515. The generated value of KD for 1979IV was 599.7, which compares to the published value of 598.3.

### The Variable KK

KK is an estimate of the stock of capital of the firm sector. It is determined by Eq. 92, which is similar to Eqs. 58 and 59 for KD and KH. Annual estimates of KK are available through 1979 from the *Survey*, February 1981. In this case no one depreciation rate could be found that adequately approximated the published data, and in the end two rates were used. The first rate, .0247, was used from 1952I through 1963IV, and the second rate, .0263, was used from 1964I on. The first base quarter was 1952IV, with a value of 290.3, and the second base quarter was 1963IV, with a value of 413.0. The first value is the 1952 value in table 4, p. 60, of the February 1981 issue of the *Survey* under the column heading "Corporate Nonfinancial." The second value is the value of KK generated for 1963IV using the first depreciation rate. This value compares closely to the published value of 411.3. The value of KK generated for 1979IV (using the second rate) was 812.5, which compares to the published value of 806.0. TABLE A-1. The six sectors in the model

Sector in the model	Corresponding sector(s) in the Flow of Funds accounts				
1. Household (h)	<ul> <li>1a. Households, Personal Trusts, and Nonprofit Organizations (H1)</li> <li>1b. Farms, Corporate and Noncorporate (FA)</li> <li>1c. Nonfarm Noncorporate Business (NN)</li> </ul>				
2. Firm (f)	<ol> <li>Nonfinancial Corporate Business, Excluding Farms (F)</li> </ol>				
3. Financial (b)	<ul> <li>3a. Commercial Banking (B1):</li> <li>(1) U.S. Chartered Commercial Banks</li> <li>(2) Domestic Affiliates of Commercial Banks</li> <li>(3) Foreign Banking Offices in U.S.</li> <li>(4) Banks in U.S. Possessions</li> </ul>				
	<ul> <li>3b. Private Nonbank Financial Institutions (B2): <ol> <li>Savings and Loan Associations</li> <li>Mutual Savings Banks</li> <li>Credit Unions</li> <li>Life Insurance Companies</li> <li>Private Pension Funds</li> </ol> </li> <li>(6) State and Local Government Employee Retirement Funds <ol> <li>Other Insurance Companies</li> <li>Finance Companies</li> <li>Fance Companies</li> <li>Real Estate Investment Trusts</li> <li>Open-End Investment Companies (Mutual Funds)</li> <li>Money Market Mutual Funds</li> <li>Security Brokers and Dealers</li> </ol> </li> </ul>				
4. Foreign (r)	4. Foreign Sector (R)				
5. Federal Government (g)	<ul> <li>5a. U.S. Government (US)</li> <li>5b. Federally Sponsored Credit Agencies and Mortgage Pools (CA)</li> <li>5c. Monetary Authority (MA)</li> </ul>				
6. State and Local Government (s)	6. State and Local Governments (S)				

TABLE A-2. The raw-data variables

NIA	data fro	om the	Surv	ey of C	urrent Business
	riable			Units	Description
1	GNP	1,1	1	SAQR\$	Gross National Product
2	CDZ CNZ	11 FT	3 4	11 17	Personal Consumption Expenditures, Durable Goods Personal Consumption Expenditures, Nondurable
					Goods
	CSZ	71 11	5	11 11	Personal Consumption Expenditures, Services
-	IKZ		8		Nonresidential Fixed Investment Residential Fixed Investment
	IHZ IVZ	10	11 15	*1	Change in Business Inventories
	EXZ	11	19	11	Exports
	IMZ	ŧſ	20	11	Imports
10	GNPR	1.2	1	SAQR	Gross National Product
11	CD	17	3	11	Personal Consumption Expenditures, Durable Goods
12	CN	**	4	**	Personal Consumption Expenditures, Nondurable Goods
13		11	5	"	Personal Consumption Expenditures, Services
14		11	.8	11 (1	Nonresidential Fixed Investment
15			11		Residential Fixed Investment Change in Business Inventories
16 17			15 19		Exports
18			20	н	Imports
	PURG	"	22	"	Federal Government Purchases of Goods and Services
20	PURS	11	25	t)	State and Local Government Purchases of Goods and Services
21	FAZ	1.5	7	SAQR\$	Farm Gross Product
22	PROGZ	19	13	11	Federal Government Gross Product
23	PROSZ	11	14	14	State and Local Government Gross Product
24	FA	1.6	7	SAQR	Farm Gross Product
	PROG	**	13	81 81	Federal Government Gross Product
	PROS	, , , ,	14		State and Local Government Gross Product
	CCT STAT	1.7	2 8	SAQR\$	CC, Total Statistical Discrepancy
	WLDF	11	14	u	Wage Accruals less Disbursements
	DPER	11	17		Personal Dividend Income, Total
	TRFH	11	18	**	Business Transfer Payments
	COMPT	1.11	2	SAQR\$	Compensation of Employees, Total
33	SIT	14	7	н	Employer Contributions for Social Insurance, Total
34	DC	11	25	н	Dividends, Corporate
	INTF	11	29		Net Interest, Corporate
	CCCB	1.13	2	SAQR\$	CC, Corporate Business
	PIECB	**	10 11	11	Profits before Tax, Corporate Business
	TCB DCB		13	11	Profits Tax Liability, Corporate Business Dividends, Corporate Business
	IVA	11	15	"	Inventory Valuation Adjustment, Corporate
41	CCADCB	ц	16	18	Business Capital Consumption Adjustment, Corporate
40	CCCBN		20	n	Business CC, Nonfinancial Corporate Business
	CCCBN PIECBN	11	28	97 97	Profits Before Tax, Nonfinancial Corporate Business
44	TCBN	••	29	11	Business Profits Tax Liability, Nonfinancial Corporate Business
45	DCBN	11	31	=1	Dividends, Nonfinancial Corporate Business
	CCADCB	<b>, "</b>	34	11	Capital Consumption Adjustment, Nonfinancial Corporate Business
47	PRI	2.1	9	SAQR\$	Proprietors' Income with Inventory Valuation and Capital Consumption Adjustments
48	RNT	11	12	11	Rental Income of Persons with Capital Consumption Adjustment
	UB	*1	17	19	Government Unemployment Insurance Benefits
50	TRHR	n	29	*1	Personal Transfer Payments to Foreigners (net)
				<u> </u>	(continued

#### TABLE A-2 (continued)

۷	ariable	Table	Line	Units	Description
51	TPG	3.2	2	SAQR\$	Personal Tax and Nontax Receipts, Federal Government (See below for adjustments.)
52	TCG	11	б	11	Corporate Profits Tax Accruals, Federal Government
53	IBTG	11	7	19	Indirect Business Tax and Nontax Accruals, Federal Government
54	SIG	11	11	11	Contributions for Social Insurance, Federal Government
55	PURGZ	••	13	19	Purchases of Goods and Services, Federal Government
56	TRGH	**	17	"	Transfer Payments to Persons, Federal Government (See below for adjustments.)
57	TRGR	"	18	11	Transfer Payments to Foreigners, Federal Government
58	TRGS	*1	19	"	Grants in Aid to State and Local Governments, Federal Government
59	INTG	ы	20		Net Interest Paid, Federal Government
60	INTGR	14	23	н	Interest Paid to Foreigners, Federal Government
61	SUBG	17	25	11	Subsidies less Current Surplus of Government Enterprises, Federal Government
62	WLDG	17	28	Ð	Wage Accruals less Disbursements, Federal Government
63	TPS	3.3	2	SAQR\$	Personal Tax and Nontax Receipts, State and Local Government (S&L)
64	TCS	"	6	31	Corporate Profits Tax Accruals, 5&L (Note: TCS = TCB - TCG.)
65	IBTS	11	7	0	Indirect Business Tax and Nontax Accruals, S&L
66	SIS	11	11	0	Contributions for Social Insurance, S&L
67	PURSZ	11	14		Purchases of Goods and Services, S&L
68	TRRSH	11	17		Transfer Payments to Persons, S&L
69	INTS	11	18		Net Interest Paid, S&L
70	SUBS	ti.	22	"	Subsidies Less Current Surplus of Government Enterprises, S&L
71	WLDS.	11	25	11	Wage Accruals less Disbursements, S&L
72	COMPMIL	3,7	8	SAQR\$	Federal Government Compensation of Employees, Military
73	SIHGA	3.13	3	YEAR\$	Personal Contributions for Social Insurance to the Federal Government
74	SIQGA	'n	5	18	Government and Government Enterprises Employer Contributions for Social Insurance to the Federal Government
75	SIFGA	41	6	n	Other Employer Contributions for Social Insurance to the Federal Government
76	SIHSA	પ	14	· U	Personal Contributions for Social Insurance to the S&L Governments
77	SIQSA	•1	16	11	Government and Government Enterprises Employer Contributions for Social Insurance to the S&L
78	SIFSA	11	17	v	Governments Other Employer Contributions for Social Insurance to the S&L Governments

Data from the Flow of Funds tape.

(All flow data are SAQR\$. All stock data are end of quarter in billions of current dollars.)

Variable		Code	Description
79	CDDCF	103020001	Change in Demand Deposits and Currency, F
80	NFIF	105000005	Net Financial Investment, F
81	IHMF	105012205	Residential Construction, Multi-family Units, Nonfinancial Corporate Business
82	IH1F	105012405	Residential Construction, 1-4 Family Structures, Change in Work in Process on Corporate Nonfarm
83	MRS	105030003	Mineral Rights Sales
84	PIEF1	106060005	Profits before Tax, F
85	DISF	107005005	Discrepancy, F
86	CDDCNN	113020003	Change in Demand Deposits and Currency, NN
87	NFINN	115000005	Net Financial Investment, NN
88	IKNN	115013005	Nonresidential Fixed Investment, NN
89	I VNN	115020000	Inventory Investment, NN
90	CCNN	116300005	Capital Consumption, NN. Also, Current Surplus = Gross Saving, NN
91	CDDCFA	133020003	Change in Demand Deposits and Currency, FA
92	NFIFA	135000005	Net Financial Investment, FA

TABLE	A-2	(continued)
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<ul> <li>95 IKFA 135013003 Nonresidential Fixed Investment, FA</li> <li>94 IVFA 135020003 Inventory Investment, FA</li> <li>95 PIEFA 136060003 Corporate Profits, FA</li> <li>96 DFA 136120005 Dividends, FA</li> <li>97 TFA 136231003 Tax Accruals, FA</li> <li>98 CCFA 136300103 Capital Consumption, FA</li> <li>99 CCADFA 136310103 Capital Consumption Adjustment, FA</li> <li>100 CDDCH1 153020005 Change in Checkable Deposits and Currency, H1</li> <li>101 MVCE,CCE 153064005 Net Funancial Investment, H1</li> <li>103 IKH1 155013003 Norresidential Fixed Investment, Nonprofit Institutions</li> <li>104 DISH1 157005005 Discrepancy, S</li> <li>105 NFIS 20500005 Net Financial Investment, S</li> <li>106 DISS 207005005 Change in Demand Deposits and Currency, S</li> <li>108 RET 224090005 Retirement Credits to Households, S</li> <li>109 CCLDR 26301005 Change in Demand Deposits, R</li> <li>110 CDDC 263520001 Change in U.S. Demand Deposits, R</li> <li>111 CFXUS 263111005 Change in Gold and SDR's, R</li> <li>112 NFIR 26500005 Net Financial Investment, A</li> <li>Net Financial Investment, R</li> <li>Net Corporate Earnings Retained Abroad</li> <li>114 DIS 31354005 Insurance Credits to Households, US</li> <li>115 CCLDFXUS 31351405 Insurance Credits to Households, US</li> <li>116 CDDCUS 313020001 Change in Demand Deposits and Currency, US</li> <li>118 NFILS 3155005 Discrepancy, R</li> <li>115 CCLDFXUS 31351405 Insurance Credits to Households, US</li> <li>114 DIS 31354005 Insurance Credits to Households, US</li> <li>115 CLDCUS 31351405 Insurance Credits to Households, US</li> <li>114 DIS A40409005 Net Financial Investment, R</li> <li>115 DISCOS Discrepancy, US</li> <li>115 CDDCUS 31351405 Insurance Credits to Households, US</li> <li>114 DIS A40409005 Net Increase in Liabilities, CA</li> <li>112 NIACA 40490005 Net Increase in Liabilities, CA</li> <li>112 NIACA 40409005 Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>112 DISCA 40502000 Change in Demand Deposits and Currency, B2</li> <li>112 SUDLB2 49312705 Net Increa</li></ul>	
<ul> <li>94 IVFA 135020003 Inventory Investment, FA</li> <li>95 PIEFA 136060003 Corporate Profits, FA</li> <li>96 DFA 136120003 Dividends, FA</li> <li>97 TFA 136231003 Capital Consumption Adjustment, FA</li> <li>98 CCFA 136510103 Capital Consumption Adjustment, FA</li> <li>100 CDDCH1 153020005 Change in Checkable Deposits and Currency, H1</li> <li>101 MVCE, CCE 153064005 Net Purchases of Corporate Equilies of Households MVCE is the market value of the stock. CCE is the change in the stock excluding capital gains and losses.</li> <li>102 NFIH1 15500005 Net Financial Investment, H1</li> <li>103 IKH1 155013003 Discrepancy, H1</li> <li>105 NFIS 20500005 Discrepancy, S</li> <li>107 CDDCS 213020005 Change in Bomand Deposits and Currency, S</li> <li>108 RET 22400005 Retirement Credits to Households, S</li> <li>109 CGLR 263011005 Change in U.S. Omand Deposits, R</li> <li>111 CFXUS 263111005 Change in U.S. Omand Deposits, R</li> <li>112 NFIR 26500005 Net Financial Investment, R</li> <li>113 FIEF 26606001 Net Conge in U.S. Official Foreign Exchange and Net Position</li> <li>112 NFIR 267005005 Discrepancy, R</li> <li>113 FIEF 26600005 Net Financial Investment, R</li> <li>115 FIEF 26600001 Net Corporate Earning Retained Abroad</li> <li>114 DISR 267005005 Discrepancy, US</li> <li>115 NFIS 313020001 Change in Demand Deposits and Currency, US</li> <li>117 INS 313154005 Insurance Credits to Households, US</li> <li>118 NFIUS 313020001 Change in Demand Deposits and Currency, CA</li> <li>112 NFIR 313154005 Insurance Credits to Households, US</li> <li>113 NFIUS 313020001 Change in Demand Deposits and Currency, CA</li> <li>114 DISK 313020001 Change in Demand Deposits and Currency, CA</li> <li>115 NFIS 313020001 Change in Demand Deposits and Currency, CA</li> <li>114 NFIUS 313020001 Change in Demand Deposits and Currency, CA</li> <li>115 NFIG 26005005 Discrepancy, US</li> <li>116 CDDCK 40700505 Discrepancy, US</li> <li>117 INS 313154005 Insurance Credits to Households, US</li> <li>118 NFIUS 317005005 Discrepancy, US</li> <li>120 CDC</li></ul>	
96 DFA       136120003       Dividends, FA         97 TFA       136330013       Tax Accruals, FA         98 CCFA       136300103       Capital Consumption, Adjustment, FA         100 CDDCH1       153020005       Change in Checkable Deposits and Currency, H1         101 MVCE,CCE       153064005       Net Furchases of Corporate Equities of Households MVCE is the market value of the stock.         102 NFIH1       15501003       Net Financial Investment, H1         103 IKH1       155013003       Norresidential Fixed Investment, Nonprofit         104 DISH1       157005005       Discrepancy, H1         105 NFIS       20500005       Net Financial Investment, S         106 DISS       207005005       Discrepancy, S         107 CDDCS       213020005       Change in Demand Deposits and Currency, S         108 RET       22400005       Retirement Credits to Households, S         109 CCLDR       26301005       Change in Gold and SDR's, R         111 CFXUS       26311005       Change in Osh and Deposits, R         112 NFIR       26500005       Net Financial Investment, R         113 FIEF2       26606001       Net Corporate Earnings Retained Abroad         114 DISR       267005055       Discrepancy, R         115 CGLDFXUS       313010055       I	
<ul> <li>97 TFA 136231003</li> <li>98 CCAFA 13631013</li> <li>99 CCAFA 13631013</li> <li>90 CCADFA 13631013</li> <li>90 CCADFA 13631013</li> <li>90 CCADFA 13631013</li> <li>90 CCADFA 13631013</li> <li>91 CCADFA 13631013</li> <li>92 CCADFA 13631013</li> <li>92 CCADFA 13631013</li> <li>92 CCADFA 13631013</li> <li>93 CCADFA 13631013</li> <li>94 CCADFA 14534005</li> <li>94 CCADFA 14534005</li> <li>94 CCADFA 14534005</li> <li>95 CCADFA 14534005</li> <li>96 CCADFA 14534005</li> <li>96 CCADFA 14534005</li> <li>97 CPUChases of Corporate Equities of Households MUCE is the market value of the stock. CCE is the change in the stock excluding capital gains and losses.</li> <li>96 CCADFA 155010005</li> <li>96 CFIH1 155013003</li> <li>96 CFIH1 155013003</li> <li>96 CFIH1 155013005</li> <li>96 SCH200005</li> <li>90 Ket Financial Investment, H1</li> <li>90 STFIS 205000055</li> <li>90 SCLDS 215020005</li> <li>90 Ket Financial Investment, S</li> <li>90 CCLDS 215020005</li> <li>90 Ket Financial Investment, S</li> <li>90 CCLDS 215020005</li> <li>90 Ket Financial Investment, S</li> <li>90 CCLDS 263020005</li> <li>91 Retirement Credits to Households, S</li> <li>100 CDDCR 263020001</li> <li>91 Change in U.S. Official Foreign Exchange and Net Position</li> <li>9112 NFIR 265000005</li> <li>90 Ket Financial Investment, R</li> <li>9113 CFLF2 26606001</li> <li>914 DISR 26700505</li> <li>915 CCHPKUS 31301005</li> <li>913 Change in Gold, SDR's, and Foreign Exchange, US</li> <li>916 CDDCUS 313020001</li> <li>916 Change in Demand Deposits and Currency, US</li> <li>917 INS 313154005</li> <li>916 CDDCUS 313020005</li> <li>917 Net Increase in Financial Assets, CA</li> <li>918 NFIUS 31500005</li> <li>918 NFIUS 31500005</li> <li>918 NET HIUS 3150000</li></ul>	
<ul> <li>98 CCFA 136300103</li> <li>Capital Consumption, FA</li> <li>99 CCADFA 136310103</li> <li>Capital Consumption Adjustment, FA</li> <li>100 CDDCH 15302005</li> <li>Change in Checkable Deposits and Currency, H1</li> <li>101 MVCE,CCE 153064005</li> <li>Net Purchases of Corporate Equities of Households MVCE is the market value of the stock. CCE is the change in the stock excluding capital gains and losses.</li> <li>102 NFIH1 155000005</li> <li>Net Financial Investment, H1</li> <li>103 IKH1 155013003</li> <li>Norresidential Fixed Investment, Nonprofit Institutions</li> <li>104 DISH1 157005005</li> <li>Discrepancy, H1</li> <li>105 NFIS 20500005</li> <li>Net Financial Investment, S</li> <li>106 DISS 20700505</li> <li>Discrepancy, S</li> <li>107 CDDCS 213020005</li> <li>Change in Demand Deposits and Currency, S</li> <li>108 RET 224090005</li> <li>Retirement Credits to Households, S</li> <li>109 CGLDR 263011005</li> <li>Change in U.S. Demand Deposits, R</li> <li>111 CFXUS 263111005</li> <li>Change in Gold and SDR's, R</li> <li>CCLDCR 263020001</li> <li>Net Financial Investment, R</li> <li>Net Corporate Earning Retained Abroad</li> <li>Discrepancy, R</li> <li>CGLDFXUS 313011005</li> <li>Change in Gold, SDR's, and Foreign Exchange, US</li> <li>CDDCUS 313020000</li> <li>Net Financial Investment, US</li> <li>DISCUS 313020001</li> <li>Change in Gold, SDR's, and Currency, CA</li> <li>NIX A 404090005</li> <li>Net Financial Investment, US</li> <li>DISCUS 317005005</li> <li>Discrepancy, R</li> <li>CLDCCA 403202000</li> <li>Change in Demand Deposits and Currency, CA</li> <li>NIACA 404090005</li> <li>Net Increase in Financial Assets, CA</li> <li>NIACA 404090005</li> <li>Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>NIADLE2 493127005</li> <li>Net Increase in Liabilities in the form of Checka Deposits, B2</li></ul>	
<ul> <li>99 CCADFA 136310103</li> <li>Capital Consumption Adjustment, FA</li> <li>100 CDDCH1 153020005</li> <li>Change in Checkable Deposits and Currency, H1</li> <li>101 MVCE,CCE 153064005</li> <li>Net Purchases of Corporate Equities of Households MVCE is the market value of the stock. CCE is the change in the stock excluding capital gains and losses.</li> <li>102 NFIH1 155010005</li> <li>Net Financial Investment, H1</li> <li>103 IKH1 157005005</li> <li>Discrepancy, H1</li> <li>105 NFIS 20500005</li> <li>Net Financial Investment, S</li> <li>106 DISS 207005005</li> <li>Discrepancy, S</li> <li>107 CDDCS 213020005</li> <li>Retirement Credits to Households, S</li> <li>108 GCLR 263020001</li> <li>Change in Demand Deposits, R</li> <li>110 CDDCR 263020001</li> <li>Change in U.S. Official Foreign Exchange and Net Position</li> <li>112 NFIR 265000055</li> <li>Net Financial Investment, R</li> <li>113 PIEF2 266060001</li> <li>Net Financial Investment, R</li> <li>115 CGLDFXUS 313011005</li> <li>Change in Gold, SDR's, and Foreign Exchange, US</li> <li>116 CDDCUS 313020005</li> <li>Net Financial Investment, US</li> <li>118 NFIUS 315000005</li> <li>Net Financial Investment, US</li> <li>119 DISUS 317005005</li> <li>Discrepancy, NS</li> <li>112 NIACA 40490005</li> <li>Net Increase in Financial Assets, CA</li> <li>112 NIACA 40490005</li> <li>Net Increase in Liabilities, CA</li> <li>112 SULCA 40409005</li> <li>Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>126 GLDCL2 653020005</li> <li>Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>126 HBZ 645012205</li> <li>Net Increase in Financial Assets, CA</li> <li>127 CCD 656120000</li> <li>Cange in Demand Deposits and Currency, B2</li> <li>128 NIB2 69409005</li> <li>Net Increase in Financial Assets, B2</li> <li>130 DISE 697005050</li> <li>Discrepancy,</li></ul>	
<ul> <li>99 CCADFA 136310103</li> <li>Capital Consumption Adjustment, FA</li> <li>100 CDDCH1 153020005</li> <li>Change in Checkable Deposits and Currency, H1</li> <li>101 MVCE,CCE 153064005</li> <li>Net Purchases of Corporate Equities of Households MVCE is the market value of the stock. CCE is the change in the stock excluding capital gains and losses.</li> <li>102 NFIH1 155010005</li> <li>Net Financial Investment, H1</li> <li>103 IKH1 157005005</li> <li>Discrepancy, H1</li> <li>105 NFIS 20500005</li> <li>Net Financial Investment, S</li> <li>106 DISS 207005005</li> <li>Discrepancy, S</li> <li>107 CDDCS 213020005</li> <li>Retirement Credits to Households, S</li> <li>108 GCLR 263020001</li> <li>Change in Demand Deposits, R</li> <li>110 CDDCR 263020001</li> <li>Change in U.S. Official Foreign Exchange and Net Position</li> <li>112 NFIR 265000055</li> <li>Net Financial Investment, R</li> <li>113 PIEF2 266060001</li> <li>Net Financial Investment, R</li> <li>115 CGLDFXUS 313011005</li> <li>Change in Gold, SDR's, and Foreign Exchange, US</li> <li>116 CDDCUS 313020005</li> <li>Net Financial Investment, US</li> <li>118 NFIUS 315000005</li> <li>Net Financial Investment, US</li> <li>119 DISUS 317005005</li> <li>Discrepancy, NS</li> <li>112 NIACA 40490005</li> <li>Net Increase in Financial Assets, CA</li> <li>112 NIACA 40490005</li> <li>Net Increase in Liabilities, CA</li> <li>112 SULCA 40409005</li> <li>Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>126 GLDCL2 653020005</li> <li>Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>126 HBZ 645012205</li> <li>Net Increase in Financial Assets, CA</li> <li>127 CCD 656120000</li> <li>Cange in Demand Deposits and Currency, B2</li> <li>128 NIB2 69409005</li> <li>Net Increase in Financial Assets, B2</li> <li>130 DISE 697005050</li> <li>Discrepancy,</li></ul>	
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<ul> <li>MVCE is the market value of the stock. CCE is the change in the stock excluding capital gains and losses.</li> <li>NFH1 155013003</li> <li>Net Financial Investment, H1</li> <li>Nonresidential Fixed Investment, Nonprofit Institutions</li> <li>Discrepancy, H1</li> <li>NFIS 20500005</li> <li>Net Financial Investment, S</li> <li>Discrepancy, S</li> <li>Change in Demand Deposits and Currency, S</li> <li>RET 224090005</li> <li>Retirement Credits to Households, S</li> <li>COLDR 26302000</li> <li>Change in U.S. Demand Deposits, R</li> <li>Change in U.S. Official Foreign Exchange and Net Position</li> <li>PSTR 26500005</li> <li>Net Financial Investment, R</li> <li>STRI 26500005</li> <li>Net Financial Investment, R</li> <li>STRI 26500005</li> <li>Net Financial Investment, R</li> <li>CFXUS 26311005</li> <li>Change in U.S. Demand Deposits, R</li> <li>Corporate Earnings Retained Abroad</li> <li>Discrepancy, R</li> <li>CEDEXUS 313011005</li> <li>Change in Gold, SDR's, and Foreign Exchange, US</li> <li>Change in Demand Deposits and Currency, US</li> <li>TINS 313154005</li> <li>Insurance Credits to Households, US</li> <li>NET Sistemency, US</li> <li>CDDCCA 403020000</li> <li>Change in Demand Deposits and Currency, CA</li> <li>NIACA 404090005</li> <li>Net Increase in Financial Assets, CA</li> <li>NIACA 40409005</li> <li>Net Increase in Liabilities, CA</li> <li>SURCA 40600603</li> <li>Current Surplus of CA</li> <li>Discrepancy, CA</li> <li>NIACA 493127005</li> <li>Discrepancy, CA</li> <li>NIACA 40400005</li> <li>Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>HBZ 645012205</li> <li>Residential Construction, Multi-family Units, Rei 127 CGD 656120000</li> <li>Capital Gains Dividend</li> <li>Capital Gains Dividend</li> <li>Capital Gains Dividend</li> <li>Caposits, B2</li> <li>NIAB2 69409005</li></ul>	
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<ul> <li>116 CDDCUS 313020001 Change in Demand Deposits and Currency, US</li> <li>117 INS 313020001 Insurance Credits to Households, US</li> <li>118 NFIUS 31500005 Net Financial Investment, US</li> <li>119 DISUS 317005005 Discrepancy, US</li> <li>120 CDDCCA 403020000 Change in Demand Deposits and Currency, CA</li> <li>121 NIACA 404090005 Net Increase in Liabilities, CA</li> <li>122 NILCA 404190005 Net Increase in Liabilities, CA</li> <li>123 SURCA 406006003 Current Surplus of CA</li> <li>124 DISCA 407005005 Discrepancy, CA</li> <li>125 NIDDLB2 493127005 Net Increase in Liabilities in the form of Checks Deposits, B2</li> <li>126 IHBZ 645012205 Residential Construction, Multi-family Units, Rei</li> <li>127 CGD 656120000 Change in Demand Deposits and Currency, B2</li> <li>129 NIAB2 69409005 Net Increase in Financial Assets, B2</li> <li>130 DISE2 697005005 Discrepancy, 2A</li> <li>131 DISE3 697005005 Discrepancy, B2</li> <li>132 CGLDFXMA 713011005 Change in Gold and Foreign Exchange, MA</li> </ul>	
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<ul> <li>119 DISUS 317005005 Discrepancy, US</li> <li>120 CDDCCA 403020000 Change in Demand Deposits and Currency, CA</li> <li>121 NIACA 404090005 Net Increase in Financial Assets, CA</li> <li>122 NILCA 404190005 Net Increase in Liabilities, CA</li> <li>123 SURCA 406006003 Current Surplus of CA</li> <li>124 DISCA 407005005 Discrepancy, CA</li> <li>125 NIDDLB2 493127005 Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>126 DHBZ 645012205 Residential Construction, Multi-family Units, Rei</li> <li>127 CGD 656120000 Capital Gains Dividend</li> <li>128 CDCB2 693020005 Net Increase in Financial Assets, B2</li> <li>130 NILB2 694190005 Net Increase in Liabilities, B2</li> <li>131 DISSE 697005005 Discrepancy, B2</li> <li>132 CGLDFXMA 713011005 Change in Gold and Foreign Exchange, MA</li> </ul>	
<ul> <li>120 CDDCCA 403020000 Change in Demand Deposits and Currency, CA</li> <li>121 NIACA 404090005 Net Increase in Financial Assets, CA</li> <li>122 NILCA 404190005 Net Increase in Liabilities, CA</li> <li>123 SURCA 406006003 Current Surplus of CA</li> <li>124 DISCA 407005005 Discrepancy, CA</li> <li>125 NIDDLB2 493127005 Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>126 HBZ 645012205 Residential Construction, Multi-family Units, Rei</li> <li>127 CGD 656120000 Capital Gains Dividend</li> <li>128 CDCB2 693020005 Net Increase in Financial Assets, B2</li> <li>130 NILB2 69409005 Net Increase in Liabilities, B2</li> <li>131 DISSE 697005005 Discrepancy, B2</li> <li>132 CGLDFXMA 713011005 Change in Gold and Foreign Exchange, MA</li> </ul>	
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<ul> <li>123 SURCA 406006003 Current Surplus of CA</li> <li>124 DISCA 407005005 Discrepancy, CA</li> <li>125 NIDDLB2 493127005 Net Increase in Liabilities in the form of Checka Deposits, B2</li> <li>126 IHBZ 645012205 Residential Construction, Multi-family Units, Rei Capital Gains Dividend</li> <li>128 CDCB2 693020005 Net Increase in Financial Assets, B2</li> <li>130 NILB2 694190005 Net Increase in Liabilities, B2</li> <li>131 DISS2 697005005 Discrepancy, B2</li> <li>132 CGLDFXMA 713011005 Change in Gold and Foreign Exchange, MA</li> </ul>	
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129 NIAB2       694090005       Net Increase in Financial Assets, B2         130 NILB2       694190005       Net Increase in Liabilities, B2         131 DISB2       697005005       Discrepancy, B2         132 CGLDFXMA       713011005       Change in Gold and Foreign Exchange, MA	
130 NILB2694190005Net Increase in Liabilities, B2131 DISB2697005005Discrepancy, B2132 CGLDFXMA713011005Change in Gold and Foreign Exchange, MA	
131 DISB2697005005Discrepancy, B2132 CGLDFXMA713011005Change in Gold and Foreign Exchange, MA	
132 CGLDFXMA 713011005 Change in Gold and Foreign Exchange, MA	
133 CFRLMA 713068000 Change in Federal Reserve Loans to Domestic Banks	Ξ,
MA	
134 NILBRMA 713113001 Change in Member Bank Reserves, MA	
135 NIDDLRMA 713122605 Change in Liabilities in the form of Demand Depos	its
and Currency due to Foreign of the MA	
136 NIDDLGMA 713123101 Change in Liabilities in the form of Demand Depos	its
and Currency due to U.S. Government of the MA	
137 NILCMA 713125001 Change in Liabilities in the form of Currency	
Outside Banks of the MA	
138 NIAMA 714090005 Net Increase in Financial Assets, MA	
140 SURMA 716006003 Current Surplus of MA 141 CVCBRB1 723020005 Change in Vault Cash and Member Bank Reserves, B.	1
	nf
142 NILVOMA 723025000 Change in Liabilities in the form of Vault Lash	r .m.
Commercial Banks of the MA	
143 DISB1 727005005 Discrepancy, B1	
144 NIDDAB1 743020003 Net Increase in Financial Assets in the form of	
Demand Deposits and Currency of Banks in U.S.	
Possessions	nh1-
145 NIDDLB1 763120005 Net Increase in Liabilities in the form of Check	1016
Deposits, B1	
146 NIAB1 764090005 Net Increase in Financial Assets, B1	
147 NILB1 764190005 Net Increase in Liabilities, B1	
148 IKBZ 795013003 Nonresidential Fixed Investment, Financial	
Corporations	
149 MAILFLT1 903023105 Mail Float, U.S. Government	
150 MAILFLT2 903029205 Mail Float, Private Domestic Nonfinancial	

TABLE A-2 (continued)

Variable	Description
151 RS	Three-Month Treasury Bill Rate (Auction Average), percentage points
152 RM	[FRB, A28. Quarterly average of monthly data.] Mortgage Rate, percentage points. [FRB, A40. FHA mortgages (HUD series), secondary markets. Quarterly average of monthly data. Linear interpolation for
153 RB	Missing monthly observations.] Aaa Corporate Bond Rate, percentage points.
154 RD	[FRB, A28. Quarterly average of monthly data.] Discount Rate, percentage points. [FRB, A7. Rate at F.R. Bank of N.Y. Quarterly average, inclusiv of any surcharge.]
Employment	and population data
Variable	Description
155 CE	Civilian Employment, SA in millions. [EE, A-33. Quarterly average of monthly data. See below for adjustments.]
156 CL	Civilian Labor Force, SA in millions. [EE, A-33. Quarterly average of monthly data. See below for adjustments.]
157 CL1	Civilian Labor Force of Males 25-54, SA in millions. [EE, p. 132. Quarterly average of monthly data. See below for adjustments.]
158 CL2	Civilian Labor Force of Females 25-54, SA in millions. [EE, p. 133. Quarterly average of monthly data. See below for adjustments.]
159 AF	Armed Forces, millions. [EE, A-33, Quarterly average of monthly data.]
160 AF1	Armed Forces of Males 25-54, millions. [EE, A-3. Total labor force - Civilian labor force. Quarterly
161 AF2	average of monthly data.] Armed Forces of Females, 25-54, millions. [EE, A-3. Total labor force - Civilian labor force. Quarterly
162 POP	average of monthly data.] Total noninstitutional population 16 and over, millions. [EE, A-3. Quarterly average of monthly data. See below for
163 POP1	adjustments.] Noninstitutional population of males 25-54, millions. [EE, A-3. Total labor force + Not in labor force. Quarterly average of method data. See below for a timeter to be
164 POP2	average of monthly data. See below for adjustments.] Noninstitutional population of females 25-54, millions. [EE, A-3. Total labor force + Not in labor force. Quarterly
165 JF	average of monthly data. See below for adjustments.] Employment, Total Private Sector, All Persons, SA in millions. [BLS, unpublished, "Basic Industry Bata for the Total Private
166 HF	Sector, All Persons." November 29, 1982.] Average Weekly Hours, Total Private Sector, All Persons, SA. [BLS, unpublished, "Basic Industry Data for the Total Private
167 но	Sector, All Persons." Novembor 29, 1982.] Average Weekly Overtime Hours in Manufacturing, SA. [FF. C6. Oustrature of monthly data ]
168 JQ	[EE, C-6. Quarterly average of monthly data,] Total Government Employment, SA in millions. [EE, B-4. Quarterly average of monthly data.]
	Federal Government Employment, SA in millions.
169 JG	[EE, B-4. Quarterly average of monthly data.]

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TABLE A-2 (continued)

171 SIHG = (SIHGA/(SIHGA + SIHSA))(SIG + SIS - SIT)
[Contributions for Social Insurance, h to g.]
172  sins = sig + sis - sin - sing
[Contributions for Social Insurance, h to s.]
173 SIFG = (SIFGA/(SIFGA + SIQGA))(SIG - SIHG)
[Contributions for Social Insurance, f to g.]
$174 \text{ SIGG} = \overline{\text{SIG}} - \overline{\text{SIHG}} - \overline{\text{SIFG}}$
[Contributions for Social Insurance, g to g.]
175 SIFS = (SIFSA/(SIFSA + SIQSA))(SIS - SIHS)
[Contributions for Social Insurance, f to s.]
176  SISS = SIS - SIHS - SIFS
[Contributions for Social Insurance, s to s.]
177 TBG = $(TCG/(TCG + TCS))(TCB - TCBN)$
[Corporate Profit Tax Accruals, b to g.]
178 TBS = TCB - TCBN - TBG
[Corporate Profit Tax Accruals, b to s.]
51 TPG = TPG from raw data - TAXADJ
56 TRGH = TRGH from raw data + TAXADJ
[TAXADJ: 1968 III = 1.525, 1968 IV = 1.775, 1969 I = 2.675, $1069 I$ = 2.675, $1069 I$ = 1.825
1969 II = 2,725, 1969 III = 1.775, 1969 IV = 1.825, 1970 I = 1.25, 1970 II = 1.25, 1970 III = .1,
1970 I = 1.25, 1970 II = 1.25, 1970 III = .1, 1975 II = -7.8.]
T210 TT

Multiplication factors (See the discussion in Appendix A.)

	1952 I - 1971 IV	1952 I - 1972 IV	1973 1	1952 I - 1977 IV
POP	1,00547	1.00009	1.00006	
POP1	,99880	1.00084	1,00056	—
POP2	1.00251	1.00042	1,00028	
CL	1.00391	1.00069	1,00046	1,00239
CL1	,99878	1.00078	1.00052	1,00014
CL2	1.00297	1.00107	1.00071	1.00123
CE	1,00375	1,00069	1,00046	1.00268

Abbreviations

 BLS
 Bureau of Labor Statistics

 CC
 Capital Consumption Allowances with Capital Consumption Adjustment

 EE
 Employment and Earnings, February 1982

 PRB
 Federal Reserve Bulletin, November 1982

 SA
 Seasonally Adjusted

 SAQR
 Seasonally Adjusted at Quarterly Rates in Billions of 1972 Dollars

 SAQR\$
 Seasonally Adjusted at Quarterly Rates in Billions of Current Dollars

 YEAR\$
 Annual Data, Billions of Current Dollars.

 For the construction of variables 171 - 176, the same yearly observation was used for each quarter of the year.

See Table A-1 for abbreviations: B1, B2, CA, F, FA, H1, MA, NN, R, S, US.

Variable	Number	Variable	Number	Variable	Number	Variable	Number
AF	159	DISCA	124	MAILFLT1	149	RB	153
AF1	160	DISF	85	MAILFLT2	150	RD	154
AF2	161	DISH1	104	MRS	83	RET	108
CCADCB	41	DISR	114	MVCE	101	RM	152
CCADCBN	46	DISS	106	NFIF	80	RNT	48
CCADFA	99	DISUS	119	NFIFA	92	RS	151
CCCB	36	DPER	30	NFIH1	102	SIFG	173
CCCBN	42	EX	17	NFINN	87	SIFGA	75
CCE	101	EXZ	8	NFIR	112	SIFS	175
CCFA	98	FA	24	NFIS	105	SIFSA	78
CCNN	90	FAZ	21	NFIUS	118	SIG	54
CCT	27	GNP	1	NIAB1	146	SIGG	174
CD	11	GNPR	10	NIAB2	129	SING	171
CDDCB2	128	HF	166	NIACA	121	SIHGA	73
CDDCCA	120	но	167	NIAMA	138	SIHS	172
CDDCF	79	IBTG	53	NIDDAB1	144	SIHSA	76
CDDCFA	91	IBTS	65	NIDDLB1	145	SIQGA	74
CDDCH1	100	IH	15	NIDDLB2	125	SIQSA	77
CDDCNN	86	IHBZ	126	NIÐDLGMA	136	SIS	66
CDDCR	110	IHMF	81	NIDDLRMA	135	SISS	176
CDDCS	107	IHZ	6	NILBRMA	134	SIT	33
CDDCUS	116	IH1F	82	NILB1	147	STAT	28
CDZ	2	IK	14	NILB2	130	SUBG	61
CE	155	IKB2	148	NILCA	122	SUBS	70
CFRLMA	133	IKFA	93	NILCMA	137	SURCA	123
CFXUS	111	IKH1	103	NILMA	139	SURMA	123
CGD	127	IKNN	88	NILVCMA	142	TBG	
CGLDFXMA	132	IKZ	5	PIECB	37	TBS	$177 \\ 178$
CGLDFXUS	115	IM	18	PIECBN	43	TCB	
CGLDR	109	IMZ	9	PIEFA	43 95	TCBN	38
CL	156	INS	117	PIEF1	93 84	TCG	44
CL1	157	INTF	35	PIEF2	113	TCS	52
CL2	158	INTG	59	POP	162	TFA	64
CN	12	INTGR	60	POP1	163	TPG	97
CNZ	3	INTS	-69	POP2	164		51
COMPMIL	72	IV	16	PRI	47	TPS TRFH	63
CS	13	ÎVA	40	PROG	25	TREN	31
CSZ	4	IVFA	94	PROGZ	23		56
CVCBRB1	141	IVNN	89	PROS		TRGR	57
DC	34	IVZ	7		26	TRGS	58
DCB	39	JF	, 165	PROSZ PURG	23	TRHR	50
DCBN	45	JG	165		19	TRRSH	68
DFA	43 96	JHQ	169	PURGZ	55	UB	49
DISB1	143			PURS	20	WLDF	29
DISB2	131	JQ	168	PURSZ	67	WLDG	62
	1.51					WLDS	71

TABLE A-2 (continued)

1.1 HH None COMPT - PROGZ - PROSZ - (SIT - SIGG - SISS) - WLDF - SUBG - SUBS 1.2 FH + PRI + RNT + INTF + TRFH + DCBN + DC - DFA - DCB + PIEFA + CCT - CCCB + CCFA DCB - DCBN + CGD 1.3 BH 1.4 RH None PROGZ - SIGG - WLDG + TRGH + INS + INTG - INTGR + SUBG 1.5 GH PROSZ - SISS - WLDS + TRRSH + RET + INTS + DP - DC + SUBS 1.6 SH CSZ + CNZ + CDZ - IBTG - IBTS - IMZ - PIECB + PIECBN - CCCB 2.1 HF + CCCBN - CCADCB + CCADCBN + IHZ - IH1F - IHMF - IHBZ + IKH1 + IKFA + IKNN + IVFA + IVNN 2.2 FF IH1F + IHNF + IKZ - IKH1 - IKFA - IKNN - IKBZ + IVZ - IVFA - IVNN 2.3 BF IHBZ + IKBZ 2.4 RF EXZ PURGZ - PROGZ 2.5 GF 2.6 SF PURSZ - PROSZ 3.1 HB PIECB - PIECBN + CCCB - CCCBN + CCADCB - CCADCBN 3.2 FB None None 3.3 RR 3.4 RB None 3.5 GB None 3.6 SB None IMZ + TRHR 4.1 HR 4.2 FR None 4.3 BR None 4.4 RR None TRGR + INTGR 4.5 GR 4.6 SR None TPG + TFA + IBTG + SIHG 5.1 HC TCG - TFA - TBG + MRS + SIFG 5,2 FG 5,3 BG TBG + SURCA + SURMA 5.4 RG None GG SIGG 5.5 5.6 SG None 6.1 HS TPS + IBTS + SIHS 6.2 FS TCB - TCG - TBS + SIFS 6.3 BS TBS 6.4 RS None 6.5 GS TRGS 6.6 SS SISS Savings of the sectors: (1) SAH = FH + BH + GH + SH - (HF + HB + HR + HG + HS)SAF = HF + FF + BF + RF + GF + SF - (FH + FF + FG + FS)(2)SAB = HB - (BH + BF + BS + BG)(3) (4) SAR = HR + GR - RFSAG = HG + FG + BG + GG - (GH + GF + GR + GS + GG)(5)SAS = HS + FS + BS + GS + SS - (SH + SF + SS)(6) Checks: (7) 0 = SAH + SAF + SAB + SAR + SAG + SAS SAH = NIFIH1 + NFIFA + NFINN + DISH1 [8] (9) SAF = NFIF + DISF + WLDF + STAT (10)SAB = NIAB1 - NILB1 + NIAB2 - NILB2 + DISB1 + DISB2 SAR = NFIR + DISR (11)(12)SAG = NFIUS + NIACA - NILCA + NIAMA - NILMA + DISUS + DISCA (13) SAS = NFIS + DISS (14)0 = -NIDDLB1 + NIDDAB1 + CDDCB2 - NIDDLB2 + CDDCF + MAILFLT1 + MAILFLT2 + CDDCUS + CDDCCA - NIDDLRMA - NIDDLGMA + CDDCH1 + CDDCFA + CDDCNN + CDDCR + CDDCS - NILCMA (15) 0 = CVCBRB1 - NILBRMA - NILVCMA (16)0 = CGLDR - CFXUS + CGLDFXUS + CGLDFXMA

Notes: • IJ = receipts from I to J; I, J = H, F, B, R, G, S. • See Table A-2 for the definitions of the variables.

#### TABLE A-4. The variables of the model in alphabetical order

Name	Equation number	Description
АЪ	73	Net financial assets, b, B\$.
A <sub>f</sub>	70	[Def., eq. 73, Base Period = 1971 IV, Value = 250.697.] Net financial assets, f, B\$. [Def., eq. 70, Base Period = 1971 IV, Value = -240.261.]
Ag	77	Net financial assets, g. B\$.
A <sub>h</sub>	66	[Def., eq. 77. Base Period = 1971 IV, Value = -214.404.] Net financial assets, h, B\$.
Ar	75	[Def., eq. 66. Base Period = 1971 IV, Value = 1321.270.] Net financial assets, r, B\$.
A <sub>s</sub>	79	[Def., eq. 75. Base Period = 1971 IV, Value = -31.570.] Net financial assets, s, B\$.
AA	89	[Def., eq. 79. Base Period = 1971 IV, Value = -105.872.] Total net wealth, h, B72\$.
BO	22	[Def., eq. 89.] Bank borrowing from the Fed, B\$.
BR	57	[Sum of CFRLMA. Base Period = 1971 IV, Value = .039.] Total bank reserves, B\$.
Cg	0	[Sum of CVCBRB1. Base Period = 1971 IV, Value = 35.329.] Purchases of goods, g, B72\$.
c <sub>s</sub>	0	[PURG - PROG] Purchases of goods, s, B72\$.
сс <sub>ъ</sub>	0	[PURS - PROS] Capital consumption, b, B72\$.
CC <sub>f</sub>	21	[(CCCB + CCADCB - CCCBN - CCADCBN)/PX. See below for PX.] Capital consumption, f, B\$.
cc <sub>h</sub>	0	[CCCBN + CCADCBN - CCFA - CCADFA] Capital consumption, h, B\$.
CD	3	[CCT - CCCB + CCFA] Consumer expenditures for durable goods, \$72\$.
CF	68	[CD] Cash flow, f, B\$.
CG	25	<pre>[Def., eq, 68.] Capital gains (+) or losses (-) on corporate stocks held by the household sector, B\$.</pre>
CN	2	[NVCE - MVCE_1 - CCE] Consumer expenditures for nondurable goods, B72\$.
CS	1	[CN] Consumer expenditures for services, B72\$.
CUR	26	[CS] Currency held outside banks, B\$.
d <sub>lg</sub>	0	[Sum of NILCMA. Base Period = 1971 IV, Value = 53.438.] Personal income tax parameter, g.
d <sup>M</sup> 1g	90	[Def., eq. 47.] Marginal personal income tax rate, g.
d Is	0	[Def., eq. 90.] Personal income tax parameter, 5.
	91	[Def., eq. 48.] Marginal personal income tax rate, s.
	0	[Def., eq. 91.] Profit tax rate, g.
d2g	0	[Def., eq. 49.] Profit tax rate, s.
d <sub>2s</sub>	0	[Def., eq. 50.] Indirect business tax rate, g.
d 3g	0	[Def., eq. 51.] Indirect business tax rate, s.
d <sub>3s</sub>	0	[Def., eq. 52.] Employee social security tax rate, g.
d4g	0	[Def., eq. 53.] Employee social security tax rate, s.
d4s		[Def, eq. 54.]
d <sub>Sg</sub>	0	Employer social security tax rate, g. [Def., eq. 55.] Employer register country tax rate s
d <sub>5s</sub>	0	Employer social security tax rate, s. [Def., eq. 56.]
D593 D594	0 0	1 in 1959 III; 0 otherwise. 1 in 1959 IV; 0 otherwise.
D601	0	1 in 1960 I; 0 otherwise.
D651	0	1 in 1965 1; 0 otherwise.
D652 D691	0 0	l in 1965 II; O otherwise. l in 1969 I; O otherwise.
	U	

Name	Equation number	Description
D714	0	1 in 1971 IV; 0 otherwise.
D721	0	1 in 1972 I; 0 otherwise.
DD793 DD811	0	1 from 1979 III on; 0 otherwise. 1 from 1981 I on; 0 otherwise.
Dborr	õ	Dividends paid, b, B\$.
D <sub>f</sub>	18	[DCB - DCBN + CGD] Dividends paid, f, B\$.
DIS	0	[DC - DFA - (DCB - DCBN)] Discrepancy for b, B\$.
DIS <sub>f</sub>	0	[DISB1 + DISB2] Discrepancy for f, B\$.
_	D	[DISF] Discrepancy for g, B\$.
		[DISUS + DISCA]
DIS <sub>h</sub>	0	Discrepancy for h, B\$. [DISH1]
DIST	0	Discrepancy for r, B\$. [DISR]
DISs	0	Discrepancy for s, B\$. [DISS]
DR <sub>s</sub>	0	Dividends received by s, B\$. [DC - DPER]
E	85	Total employment, civilian and military, millions. [CE + AF]
EX	0	Exports, B72\$.
EXPg	106	Total expenditures, g, B\$.
EXPs	113	[Def., eq. 106.] Total expenditures, s, B\$.
FA	0	[Def., eq. 113.] Farm gross product, B72\$.
<sup>g</sup> 1	0	[FA] Reserve requirement ratio.
GNP	82	[Def., eq. 57.] Gross National Product, B\$.
GNPD	84	[Def., eq. 82, or GNP.] GNP deflator.
GNPR	83	[Def., eq. 84.] Gross National Product, B72\$.
GNPR*	°O	[Def., eq. 83, or GNPR.] High activity level of GNPR, B72\$.
		[Peak to peak interpolation of GNPR. Peak quarters are 1952 I - 1953 II, 1955 III, 1960 I, 1962 II, 1966 I,
н <sub>ғ</sub>	14	1968 II - 1969 II, 1973 I, and 1978 IV.] Average number of hours paid per job, f, hours per quarter.
н* н*	100	[13+HF] H <sub>f</sub> detrended.
r		I [Def., eq. 100.]
н <sub>g</sub>	0	Average number of hours paid per civilian job, g, hours per quarter.
H	D	[JHQ/JQ] Average number of hours paid per military job, g, hours per
13		quarter. [520.]
н <sub>s</sub>	0	Average number of hours paid per job, s, hours per quarter.
HN	62	[JHQ/JQ] Average number of non overtime hours paid per job, f, hours
110		per quarter. [Def., eq. 62.]
HO	15	Average number of overtime hours paid per job, f, hours per quarter.
		[13-H0, Constructed values for 1952 I - 1955 IV. See the discussion in Appendix A.]
IBT g	51	Indirect business taxes, g, B\$. [IBTG]
<sup>IBT</sup> s	52	Indirect business taxes, s, B\$.
ін <sub>ь</sub>	0	[IBTS] Housing investment, b, B72\$.
IH <b>f</b>	0	[IHBZ/(IHZ/IH)] Housing investment, f, B72\$.
IH <sub>h</sub>	4	[(IH1F + IHMF)/(IH2/IH)] Housing investment, h, B72\$.
		[(IHZ - IH1F - IHMF - IHBZ]/(IH2/IH)]

TABLE A-4 (continued)

Name	Equation number	Definition
IК	0	Plant and equipment investment, b, B72\$. [IKBZ/(IKZ/IK)]
IK <sub>f</sub>	12	Plant and equipment investment, f, B72\$. [(IKZ - IKH1 - IKFA - IKNN - IKBZ)/(IKZ/IK)]
IKh	0	Plant and equipment investment, h, B72\$.
IM	27	[(IKH1 + IKNN + IKFA)/(IKZ/IK)] Imports, B72\$.
INS	0	<pre>[IM] Insurance credits to households from g, B\$.</pre>
INT <sub>f</sub>	19	[INS] Interest payments, f, B\$.
INTg	29	[INTF] Interest payments, g, B\$.
INTgr	0	[INTG] Interest payments to r from g, B\$.
INTs	0	[INTGR] Interest payments, s, B\$. Firmel
IV <sub>f</sub>	117	[INTS] Inventory investment, f, B72\$.
IV <sub>h</sub>	۵	[(IVZ - IVFA - IVNN)/PIV] Inventory investment, h, B72\$.
IVA	20	[(IVFA + IVNN)/PIV] Inventory valuation adjustment, B\$.
$J_{f}$	13	[IVA] Number of jobs, f, millions.
Jg	0	[JF] Number of civilian jobs, g, millions.
J <sub>ու</sub>	0	[JG] Number of military jobs, g, millions.
Js	0	[AF] Number of jobs, s, millions.
JHMIN	94	[JQ - JG] Number of worker hours required to product Y, millions.
JJ	95	[Def., eq. 94.] Ratio of the total number of worker hours paid for to the
JJ*	96	total population 16 and over. [Def., eq. 95.] JJ detrended.
KD	58	[Def., eq. 96.] Stock of durable goods, B72\$.
1/1	50	[Def., eq. 58. Base Period = 1964 IV, Value = 249.6, Dep. Rate = .0515.]
КН	59	Stock of housing, h, B72\$. [Def., eq. 59. Base Period = 1963 IV, Value = 657.1, Dep.
KK	92	Rate = .00655.] Stock of capital, f, B72\$. [Def., eq. 92. Base Period 1 = 1952 IV, Value = 290.3, Dep.
		Rate = .0247; Base Period 2 = 1963 IV, Value = 413.0, Dep. Rate = .0263.]
KKMIN	93	Amount of capital required to produce Y, B72\$. [Def., eq. 93.]
L1	5	Labor force of males 25-54, millions. [CLl + AF1]
L2	6	Labor force of females, 25-54, millions. [CL2 + AF2]
L3	7	Labor force of all others, millions. [CL + AF - CL1 - AF1 - CL2 - AF2]
LM	8	Number of "moonlighters": difference between the total number of jobs (establishment data) and the total number
м	71	of people employed (household survey data), millions. [Def., eq. 85.]
мь	71	Net demand deposits and currency, b, B\$. [Def., eq. 71. Also sum of -NIDDLB1 + NIDDAB1 + CDDCB2
Mf	17	- NIDDLB2. Base Period = 1971 IV, Value = -189.409.] Demand deposits and currency, f, B\$. [Sum of CDDCF + MAILFLT1 + MAILFLT2. Base Period = 1971 IV,
Mg	0	Value = 64.905.] Demand deposits and currency, g, B\$. [Sum of CDDCUS + CDDCCA - NIDDLRMA - NIDDLGMA. Base Period
M	9	= 1971 IV, Value = 10,530.] Demand deposits and currency, h, B\$. [Sum of CDDCH1 + CDDCFA + CDDCNN. Base Period = 1971 IV,
Mr	0	Value = 149.448.] Demand deposits and currency, r, B\$. [Sum of CDDCR. Base Period = 1971 IV, Value = 6.503.]

TABLE A-4	(continued)
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Name	Equation number	Description
Ms	0	Demand deposits and currency, s, B\$. [Sum of CDDCS. Base Period = 1971 IV, Value = 11.966.]
MDIF	0	Net increase in demand deposits and currency of banks in U.S. possessions plus change in demand deposits and currency of private nonbank financial institutions plus change in demand deposits and currency of federally sponsored credit agencies and mortgage pools minus mail float, U.S. government, B\$.
MRS	0	[NIDDAB1 + CDDCB2 + CDDCCA - MAILFLT1] Mineral rights sales, B\$.
M1	81	[MRS] Money supply, B\$.
₽ <sub>£</sub>	10	[Def., eq. 81. Base Period = 1971 IV, Value = 247.136.] Price deflator for X - FA.
P g	40	[Def., eq. 31.] Price deflator for C <sub>g</sub> .
<sup>p</sup> h	34	<pre>[(PURGZ - PROGZ)/(PURG - PROG)] Price deflator for domestic sales exclusive of indirect business taxes.</pre>
P <sub>s</sub>	41	[Def., eq. 34] Price deflator for C <sub>s</sub> .
PCGNPD	122	[(PURSZ - PROSZ)/(PURS - PROS)] Percentage change in GNPD, annual rate, percentage points.
PCGNPR	123	[Def., eq. 122.] Percentage change in GNPR, annual rate, percentage points. [Def., eq. 123.]
PCM1	124	Percentage change in M1, annual rate, percentage points. [Def., eq. 124.]
PCD	37	Price deflator for CD. [CDZ/CD]
PCN	36	Price deflator for CN. [CNZ/CN]
PCS	35	Price deflator for CS. [CSZ/CS]
PD	33	Price deflator for X - EX + IM (domestic sales) [Def., eq. 33.]
PEX	32	Price deflator for EX. [EXZ/EX]
PFA	0	Price deflator for FA. [FAZ/FA]
PIH	38	Price deflator for housing investment. [IH2/IH]
PIK	.39	Price deflator for plant and equipment investment. [IKZ/IK]
PIM	0	Price deflator for IM. [IMZ/IM]
PIV	42	Price deflator for inventory investment, adjusted. [IVZ/IV. The following adjustments were made: 1953 III = .7637, 1958 III = .7981, 1959 III = .7956, 1975 III = 1.4110, 1975 IV = 1.4110, 1979 IV = 1.5000,
POP	120	1980 I = 1.5000, 1980 II = 1.5000, 1981 I = 3.0000.] Noninstitutional population 16 and over, millions. [POP. POP is the sum of three exogenous variables and so it is in fact exogenous.]
POP1	0	Noninstitutional population of males 25-54, millions. [POP1]
POP2	0	Noninstitutional population of females 25-54, millions. [POP2]
POP3	0	Noninstitutional population of all others, millions. [POP - POP1 - POP2]
PROD	118	Output per paid for worker hour ("productivity"). [Def., eq. 118.]
PU g	104	Purchases of goods and services, g, B\$. [Def., eq. 104, or PURGZ.]
PUs	110	Purchases of goods and services, s, B\$. [Def., eq. 110, or PURSZ.]
РХ	31	Price deflator for X, [(CDZ + CNZ + CSZ + IHZ + IKZ + PURGZ - PROGZ + PURSZ - PROSZ + EXZ - IMZ - IBTG - IBTS - IVFA + IVNN)/(CD + + CN + CS + IH + IK + PURG - PROG + PURS - PROS + EX - IM
Q	0	+ (IVFA + IVNN)/PIV)] Gold and foreign exchange, g, B\$. [Sum of CGLDFXUS + CGLDFXMA. Base Period = 1971 IV, Value = 12.167.]

TABLE A-4 (continued)

Name	Equation number	Definition
RB	23	Bond rate, percentage points. [RB]
RD	0	Discount rate, percentage points. [RD]
RECg	105	Total receipts, g, B\$.
REC	112	[Def., eq. 105.] Total receipts, 5, B\$.
RET	0	[Def., eq. 112.] Retirement credits to households from s, B\$.
RM	24	[RET] Mortgage rate, percentage points.
RMA	128	[RM] After tax mortgage rate, percentage points.
RNT	0	[Def., eq. 128.] Rental income, h, B\$.
RS	30	[RNT] Three month bill rate, percentage points.
RSA	130	[RS] After tax bill rate, percentage points.
S <sub>h</sub>	72	[Def., eq. 130.] Savings, b, B\$.
s <sub>f</sub>	69	[Def., eq. 72.] Savings, f, B\$.
-	76	[Def., eq. 69.] Savings, g. B\$.
S g	107	[Def., eq. 76.] NIA surplus (+) or deficit (-), g, B\$.
s'g	65	[Def., eq. 107.] Savings, h, B\$.
sh e	74	[Def., eq. 65.] Savings, r, B\$.
s <sub>r</sub>		[Def., eq. 74.]
s s	78	Savings, s, B\$. [Def., eq. 78.]
s;	114	NIA surplus (+) or deficit (-), s, B\$. [Def., eq. 114.]
SHRπf	121	Ratio of after tax profits to the wage bill net of employer social security taxes.
S1g	103	[Def., eq. 121.] Total social insurance contributions to g, B\$.
SI s	109	[SIG] Total social insurance contributions to s, B\$.
SI fg	55	<pre>[SIS] Social insurance contributions, f to g, B\$.</pre>
rg SI <sub>fs</sub>	56	[SIFG] Social insurance contributions, f to s, B\$.
SI gg	0	[SIFS] Social insurance contributions, g to g, B\$.
	53	[SIGG] Social insurance contributions, h to g, B\$.
SI SI	54	[SIHG] Social insurance contributions, h to s, B\$.
SI hs		[SIH5] Social insurance contributions, s to 5, 8\$.
SI <sub>SS</sub>	0	[SISS]
SP	-	Stock price, B\$. [Sum of CG. Base Period = 1971 IV, Value = 832.806. This variable is only used for the USRE2 model in Section 11.7.
đħ	116	See equation (11.21).]
SR	116	Savings rate, h. [Def., eq. 116.]
STAT	0	Statistical discrepancy, B\$. [STAT]
SUBg	0	Subsidies less current surplus of government enterprises, g, B\$.
SUB	0	[SÜBG] Subsidies less current surplus of government enterprises,
5		s, B\$. [SUBS]
SUR	0	Current surplus of federally sponsored credit agencies and mortgage pools and of the monetary authority, B\$.

TABLE	A-4.	(continued)
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Name	Equation number	Definition
T <sub>bg</sub>	0	Corporate profit taxes, b to g, B\$. [TBG]
T <sub>bs</sub>	0	Corporate profit taxes, b to s, B\$. [TBS]
<sup>T</sup> fg	49	Corporate profit taxes, f to g, B\$. [Def., eq. 102.]
<sup>T</sup> fs	50	Corporate profit taxes, f to s, B\$. [Def., eq. 108.]
T <sub>hg</sub>	47	Personal income taxes, h to g, B\$. [Def., eq. 101.]
T <sub>hs</sub>	48	Personal income taxes, h to s, B\$. [TPS]
TC g	102	Corporate profit tax receipts, g, B\$.
тс <sub>s</sub>	108	[TCG] Corporate profit tax receipts, s, B\$.
ГFA	0	[TCS] Farm taxes, B\$.
TPg	101	[TFA] Personal income táx receipts, g, B\$.
TR <sub>fh</sub>	0	[TPG] Transfer payments, f to h, B\$,
f <sup>R</sup> gh	0	[TRFH] Transfer payments, g to h, B\$.
TR <sub>gr</sub>	0	[TRGH] Transfer payments, g to r, B\$.
TRgs	0	[TRGR] Transfer payments, g to s, B\$.
rr <sub>hr</sub>	D	[TRGS] Transfer payments, h to r, B\$.
<sup>ſR</sup> sh	0	<pre>[TRHR] Transfer payments, s to h, excluding unemployment insurance benefits, B\$.</pre>
rrr sh	111	[Def., eq. 111.] Total transfer payments, s to h, B\$. [TRRSH]
J	86	[Number of people unemployed, willions. [Def., eq. 86.]
JB	28	Unemployment insurance benefits, B\$.
JBR	125	[UB] Unborrowed reserves, B\$.
JR	87	[Def., eq. 125.] Civilian unemployment rate.
,	63	[Def., eq. 87.] Stock of inventories, f, B72\$.
Ĭf	16	[Def., eq. 117. Base Period = 1980 IV, Value = 340.6.] Average hourly earnings excluding overtime of workers in f. [(COMPT - PROSZ - PROSZ - (SIT - SIGG - SISS) - WLDF
g	44	+ PRI)/(JF(HF + .5H0))] Average hourly earnings of civilian workers in g.
v <sub>h</sub>	43	<pre>[(PROGZ - COMPMIL - SIGG - WLDG)/(JG(JHQ/JQ))] Average hourly earnings excluding overtime of all workers.</pre>
'n	45	[Def., eq. 43.] Average hourly earnings of military workers.
s	46	[COMPMIL/(520 • AF)] Average hourly earnings of workers in s.
vA	126	[(PROSZ - SISS - WLDS)/((JQ - JG)(JHQ/JQ))] After tax wage rate.
(LD f	0	[Def., eq. 126.] Wage accruals less disbursements, f, B\$.
r NLD g	0	[WLDF] Wage accruals less disbursements, g, B\$.
ILD s	D	WiDG] Wage accruals less disbursements, s, B\$.
s VR	119	[WLDS] Real wage rate of workers in f.
(	60	[Def., eq. 119.] Total sales, f, B72\$.

Name	Equation number	Definition
xx	61	Total sales, f, B\$.
Y	11	[Def., eq. 61.] Production, f, B72\$.
YD	115	[Def., eq. 63.] Disposable income, h, B\$.
YN	88	[Def., eq. 115.] After tax nonlabor income, h, B\$.
ΥT	64	[Def., eq. 88.] Taxable income, h, B\$.
YTR	99	[Def., eq. 64.] Transfer payments, g and s to h, B\$.
Z	97	[Def., eq. 99.] Labor constraint variable.
ZZ	98	[Def., eq. 97.] Demand pressure variable.
۳ <sub>b</sub>	0	[Def., eq. 98.] Before tax profits, b, B\$.
π <sub>f</sub>	67	[(PIECB - PIECBN)/PX. See above for PX.] Before tax profits, f, B\$.
л т <sub>h</sub>	0	[Def., eq. 67, or PIEF1 + PIEF2.] Before tax profits, h, B\$.
δ <sub>η</sub>	a	[PIEFA] Physical depreciation rate of the stock of durable goods,
D		rate per quarter. [.0515]
б <sub>н</sub>	0	Physical depreciation rate of the stock of housing, rate per quarter.
δ <sub>K</sub>	0	[.00655] Physical depreciation rate of the stock of capital, rate per
ĸ	-	quarter. [.0247 through 1963 III, .0263 thereafter.]
λ	0	Amount of output capable of being produced per worker hour.
-	_	1952 I, 1953 II, 1955 I, 1966 I, 1973 I, and 1977 I.]
μĦ	0.	Amount of output capable of being produced per unit of capital.
		[Peak to peak interpolation of Y/KK. Peak quarters are 1953 II, 1966 I, 1973 I, and 1978 IV.]
<sup>ψ</sup> 1	0	Ratio of PEX to PX. [Def., eq. 32.]
Ψ2	0	Ratio of PCS to $(1 + d_{3g} + d_{3s})$ PD. [Def., eq. 35.]
Ψ <sub>3</sub>	0	Ratio of PCN to $(1 + d_{3g} + d_{3s})$ PD. [Def., eq. 36.]
<sup>ψ</sup> 4	0	Ratio of PCD to $(1 + d_{3g} + d_{3s})$ PD. [Def., eq. 37.]
<sup>ψ</sup> 5	0	Ratio of PIH to PD. [Def., eq. 38.]
Ψ <sub>6</sub>	0	Ratio of PIK to PD. [Def., eq. 39.]
<sup>ψ</sup> 7	0	Ratio of Pg to PD. [Def., eq. 40.]
$\psi_8$	0	Ratio of P <sub>s</sub> to PD. [Def., eq. 41.]
Ψ9	0	Ratio of PIV to PD. [Def., eq. 42.]
<sup>ψ</sup> 10	0	Ratio of Wg to Wf. [Def., eq. 44.]
Ψ́11	0	Eastio of $W_m$ to $W_f$ . [Def., eq. 45.]
Ψ <sub>12</sub>	0	[Def., eq. 46.]
Ψ́13	0	Ratio of gross product of g and s to total employee hours of
v	D	g and s. [(PROG + PROS)/(JHQ + 520 • AF)] Programsivity tax parameter in percent income tax equation
Υg	U	Progressivity tax parameter in personal income tax equation for g.
~	0	[Determined from a regression. See the discussion in Appendix A,]
۲ <sub>s</sub>	U	Progressivity tax parameter in personal income tax equation for s.
		[Determined from a regression. See the discussion in Appendix A.]

#### TABLE A-4 (continued)

Stochastic equations (25LS estimates in Chapter 4. Estimation period =	1954 I - 1982 III.)
Household sector:	
1. CS: $\frac{CS}{POP} = .000188 + .986 \left(\frac{CS}{POP}\right)_{-1} + .000554 \left(\frac{AA}{POP}\right)_{-1} + .0198 WA$ (0.06) (61.48) (2.40) (2.40)	
+ $.00714 \frac{YN}{POP \cdot P}$ - $.00126 RSA$ + $.0231 Z$ (0.36) h (5.87) (1.92)	[consumer expenditures
2. CN: $\frac{CN}{POP} = .109 + .666 \left(\frac{CN}{POP}\right)_{-1} + .00227 \left(\frac{AA}{POP}\right)_{-1} + .185 WA$ (3.96) (10.03) (10.05) (2.48)	for services]
0469 PCN + .0637 $\frac{YN}{POP \cdot P}$ 000610 RSA + .0829 Z (2.16) (2.14) h (1.05) (3.54)	[consumer expenditures
3. CD: $\frac{\text{CD}}{\text{POP}} = .0735 + .458 \left(\frac{\text{CD}}{\text{POP}}\right)_{-1} + .00235 \left(\frac{\text{AA}}{\text{POP}}\right)_{-1} + .405 \text{ WA}$ (3.57) (5.95) (6.18)	for nondurable goods]
104 PCD + .0668 $\frac{\text{YTR}}{\text{POP} \cdot \text{P}}$ 00617 RMA + .123 Z (3.12) (1.19) h (7.96) (3.38)	[consumer expenditures
4. IH <sub>h</sub> : $\frac{\text{IH}_{h}}{\text{POP}} = .0650 + .738 \left(\frac{\text{IH}_{h}}{\text{POP}}\right)_{-1}0157 \left(\frac{\text{KH}}{\text{POP}}\right)_{-1} + .00182 \left(\frac{\text{AA}}{\text{POP}}\right)_{-1}$	for durable goods]
+ .159 WA <sub>-1</sub> 0178 PIH <sub>-1</sub> + .0356 $\left(\frac{YN}{POP \cdot P_{h}}\right)$ (2.61) -1 (1.88) -1 (0.99)	
00367 RMA <sub>-1</sub> , $\hat{\rho}$ = .551 (5.19) (4.65)	
5. L1: $\frac{L1}{POP1} = .230 + .769 \left(\frac{L1}{POP1}\right)_{-1}0278 \left(\frac{YN}{POP \cdot P_h}\right)_{-1}$	[housing investment, h]
6. L2: $\frac{L2}{POP2} = .0605 + .832 \left(\frac{L2}{POP2}\right) + .160 \text{ WA}0200 \text{ P}_{h} + .0364 \text{ Z}$ (3.75) (17.98) (2.86)	[labor force of males 25-54]
(3.75)(17.98)(0.07-1)(3.77)(2.95)(2.86)	[labor force of females
7. L3: $\frac{L3}{POP3} = .133 + .782 \left(\frac{L3}{POP3}\right)_{-1}00121 \left(\frac{AA}{POP}\right)_{-1} + .0930 \text{ WA}$ (5.02) (17.53) (17.53) (4.14)	25-54]
$\begin{array}{ccc}0318 & P_{h} + .0738 & Z \\ (4.25) & (4.81) \end{array}$	[labor force of all
8. LM: $\frac{LM}{POP} = .0150 + .634 \left(\frac{LM}{POP}\right)_{-1} + .00676 \text{ WA}_{-1}00374 P_{h-1} + .0580 Z_{-1} + .00676 W_{-1}00374 P_{h-1} + .0580 Z_{-1} $	others 16 and over]
9. $M_{h}$ : $\log \frac{M_{h}}{POP \cdot P_{h}} = .0297000698 t + .835 \log \left(\frac{M_{h}}{POP \cdot P_{h}}\right)$ (3.63) (2.64) (19.22)	[number of moon- lighters]
+ .123 log $\frac{YT}{POP \cdot P}$ 00416 RSA (3.13) (3.81)	
(3.13) A (3.81)	[demand deposits and currency, h]
	(continued)

Firm sector: 10.  $P_{f}$ ; log  $P_{f} = .187 + .922 \log P_{f-1} + .0339 \log W_{f}(1 + d_{5g} + d_{5s})$ (7.32) (82.62) + .0339 log PIM - .0810 ZZ (8.56) (4.22) [price deflator for X-FA] 11. Y: Y = 11.4 + .162 Y \_1 + 1.011 X - .193 V \_1 - 2.06 D593 (4.36) (3.67) (19.59) (4.44) (1.86) + .793 D594 + 2.10 D601 , p = .605 (1.89) (0.64)(6.73)[production, f] 12.  $IK_{f}$ :  $\Delta IK_{f} = -.0146 - .0130 (KK - KKMIN)_{-1} + .0967 \Delta Y + .0004 \Delta Y_{-1} (0.11) (2.83) (5.70) (0.02)$ + .0140  $\Delta Y_{-2}$  + .0196  $\Delta Y_{-3}$  - .107 IK f-1 + .167  $\delta K K K_{-1}$ (0.88) -2 + .107 (2.48) [plant and equipment 13.  $J_{f}$ :  $\Delta \log J_{f} = -.885 - .141 \log \frac{J_{f-1}}{JHMIN_{-1}} + .000176 t + .281 \Delta \log Y$ (3.76) (3.75) (4.28) (8.33) investment, f] + .119  $\triangle$  log Y<sub>-1</sub> + .033  $\triangle$  log Y<sub>-2</sub> - .00967 D593 (3.03) (1.02) (2.70) + .00174 D594 ,  $\hat{\beta}$  = .447 (0.50) (4.44)J<sub>f-1</sub> [number of jobs, f] 14.  $H_{f}$ :  $\Delta \log H_{f} = 1.37 - .284 \log H_{f-1} - .0659 \log \frac{t-1}{JHMIN_{-1}}$ (4.95) (5.16) (3.55) - .000250 t + .120 ∆ log Y (4.94) (4.40) [average number of hours paid per job, f] 15. H0:  $\log H0 = -8.34 + .0223 \text{ H}_{f}^{\star}$ ,  $\hat{o} = .909$ (5.15) (7.38) (21.38) [average number of overtime hours paid per job, f] 16.  $W_{f}$ : log  $W_{f}$  = -.423 + .929 log  $W_{f-1}$  + .427 log PX - .382 log PX<sub>-1</sub> (3, 52)(45, 75)(3.50)+ .000671 t - .0760 UR (4,31) (1,53) [average hourly earnings excluding overtime of workers 17.  $M_{f}$ :  $\log \frac{M_{f}}{PX} = .106 + .920 \log \left(\frac{M_{f}}{PX}\right)_{-1} + .0477 \log X$ (1.04) (26.10) in f] - .00700 RS(1 - d<sub>2g</sub> - d<sub>2s</sub>) (3.26) [demand deposits and currency, f] 18.  $D_{f}$ :  $D_{f} = -.0227 + .978 D_{f-1} + .0201 (\Pi_{f} - T_{fg} - T_{fs})$ (1.05) (108.28) (5.64) [dividends paid, f] 19. INT f: INT f = -3.59 + .746 INT f -1 + .0200 (-A f) + .467 RB , (1.96) (8.59) (1.91) (4.25)  $\hat{o} = .954$ (25.41)[interest payments, f] 20. IVA: IVA = 1.52 - 95.2 PX + 92.2 PX \_1 ,  $\hat{\rho}$  = .801 (0.98) (3.51) (3.34) (12.45 (12.45) [inventory valuation adjustment] 21.  $CC_{f}$ :  $CC_{f} = -.0930 + .966 CC_{f-1} + .0447 PIK IK_{f} + .562 DD811 (3.69) (67.13) (4.69) (6.29)$ [capital consumption, fl

Financial sector: 22. BO:  $\frac{BO}{BR} = .0148 + .00455 (RS-RD)$ ,  $\hat{\rho} = .606 (3.79) (1.34) (7.93)$ (7.93) [bank borrowing from the Fedl 23. RB; RB = .114 + .889 RB  $_{-1}$  + .277 RS - .218 RS  $_{-1}$  + .074 RS  $_{-2}$  (2.54) (53.00)  $_{-1}$  (10.82) (6.48) (3.48) (3.48) [bond rate] 24. RM: RM = .343 + .846 RM  $_{-1} + .178$  RS + .041 RS  $_{-1} - .043$  RS  $_{-2}$  (3.36) (29.00)  $^{-1}$  (4.64) (0.80)  $^{-1}$  (1.23) [mortgage rate] 25. CG: CG = 10.9 - 24.4  $\Delta RB$  + 3.75  $\Delta (CF - T_{fg} - T_{fs})$ (2.23) (1.26) (1.49) + 4.07  $\Delta$  (CF - T<sub>fg</sub> - T<sub>fs</sub>)\_1 (2.08) [capital gains or losses on cornorate stocks held by h] 26. CUR:  $\log \frac{CUR}{POP \cdot PX} = -.106 - .000133 t + .897 \log \left(\frac{CUR}{POP \cdot PX}\right)_{-1}$ (3.87) (0.79) (32.88) + .0801 log  $\frac{X}{POP}$  - .00313 RSA (2.36) (4.00) fcurrency held outside banksl Foreign sector: 27. IM:  $\frac{IM}{POP} = -.0277 + .752 \frac{IM}{POP} + .0256 \frac{X}{POP} - .0114 PIM_{-1} + .0393 PX_{-1} (4.44) (15.31) - .1 (4.10) (3.90) (4.64)$ - .00126 RMA<sub>-1</sub> - .00654 D651 + .00356 D652 - .0109 D691 (2.59) (2.18), (1.17) (3.65) + .0166 D692 - .00798 D714 + .0123 D721 (2.64) (4, 10)(5.42)[imports] S&L government sector: 28. UB: log UB = .369 + 1.58 log U + .465 log W<sub>f</sub> ,  $\hat{\rho}$  = .761 (12.59) (0,69) (18,00) (6,06) [unemployment insurance benefits Federal government sector 29. INT g:  $\log INT$  g = -.870 + .873 log INT g-1 + .148 log(-A g) + .0572 log RS (4.77) (29.65) (5.54) + ,0818 log RB (2.18)[interest payments, g] 30. RS: RS = -9.46 + .858 RS  $_1 + .0687$  PD + .0296 JJ $^* + .0597$  GNPR (2.99) (25.55) (2.11) (2.99) (2.92) + .032  $\dot{\text{M1}}_{-1}$  + .131 DD793  $\cdot \dot{\text{M1}}_{-1}$ (1.71) (4.20) [three month bill rate] (continued)

Identities
31. $PX = \frac{P_{f}(X-FA) + PFA+FA}{X}$
32. PEX = $\psi_1 PX$
33. PD = $\frac{PX \cdot X - PEX \cdot EX + PIM \cdot IM}{X - EX + IM}$
34. $P_{h} = PD + \frac{IBT_{g} + IBT_{s}}{X - EX + IM}$
35. PCS = $\psi_2(1 + d_{3g} + d_{3s})$ PD
36. PCN = $\psi_3 (1 + d_{3g} + d_{3s})$ PD
37. PCD = $\psi_4 (1 + d_{3g} + d_{3s})$ PD
38. PIH = $\psi_5$ PD
39. PIK = $\psi_6$ PD
40. $P_g = \psi_7 PD$
41. $P_s = \psi_8 PD$
42. PIV = $\psi_9 PD$
43. $W_{h} = 100 \frac{W_{f}J_{f}(HN + 1.5HO) + W_{g}J_{g}H + W_{m}H_{m} + W_{s}J_{s}H_{s}}{J_{f}(HN + 1.5HO) + J_{H}H + J_{m}H_{m} + J_{s}H_{s}}$
44. $W_g = \Psi_{10} W_f$
45. $W_{m} = \psi_{11} W_{f}$
46. $W_s = \psi_{12} W_f$
47. $T_{hg} = \left[ d_{1g} + \frac{\gamma_g YT}{POP} \right] YT$
48. $T_{hs} = \left[ d_{1s} + \frac{\gamma_s YT}{POP} \right] YT$
49. $T_{fg} = d_{2g} \pi_{f}$
50. $T_{fs} = d_{2s} \pi_{f}$
51. IBT <sub>g</sub> = $\frac{d_{3g}}{1 + d_{3g}}$ (PCS+CS + PCN+CN + PCD+CD - IBT <sub>S</sub> )
52. $IBT_s = \frac{d_{3s}}{1 + d_{3s}} (PCS \cdot CS + PCN \cdot CN + PCD \cdot CD - IBT_g)$
53. $SI_{hg} \approx d_{4g} W_{f} J_{f}$ (HN +1.5HO)

[price deflator for X] [price deflator for EX] [price deflator for domestic sales] [price deflator for domestic sales exclusive of indirect business taxes] [price deflator for CS] [price deflator for CN] [price deflator for CD] [price deflator for housing investment] [price deflator for plant and equipment investment] [price deflator for C<sub>p</sub>] [price deflator for C\_] [price deflator for inventory investment] [average hourly earnings excluding overtime of all workers] [average hourly earnings of civilian workers in g] [average hourly earnings of military workers] [average hourly earnings of workers in s] [personal income taxes, h to g] [personal income taxes, h to s] [corporate profits taxes, f to g] [corporate profits taxes, f to s] [indirect business taxes, g] [indirect business taxes, s] [social insurance contributions, h to g]

54.  $SI_{hs} = d_{4s} \tilde{w}_{f} f^{(HN + 1.5H0)}$ [social insurance contributions, h to s] 55.  $SI_{fg} = d_{5g} w_f J_f (HN + 1.5H0)$ [social insurance contributions, f to g] 56.  $SI_{fs} = d_{5s} \#_{f} J_{f}(HN + 1.5HO)$ [social insurance contributions, f to s] 57, BR =  $-g_1 M_b$ [total bank reserves] 58. KD =  $(1 - \delta_0) KD_{-1} + CD$ [stock of durable goods] 59. KH =  $(1 - \delta_{H}) \text{KH}_{-1} + \text{IH}_{H}$ [stock of housing, h] 60.  $X = CS + CN + CD + IH_h + IK_f + EX - IM + C_g + C_s + IK_h + IK_b + IH_f$ +  $IH_b$  +  $IV_h$  -  $\pi_b$  -  $CC_b$ [total sales, f] 61, XX = PCS·CS + PCN·CN + PCD·CD + PIH·IH<sub>h</sub> + PIK·IK<sub>f</sub> + PEX·EX - PIM·IM +  $P_{g}C_{g}$  +  $P_{s}C_{s}$  +  $PIK(IK_{h} + IK_{b})$  +  $PIH(IH_{f} + IH_{b})$  +  $PIV \cdot IV_{h}$ -  $PX(\pi_b + CC_b)$  -  $IBT_g$  -  $IBT_s$ [total nominal sales, f] 62,  $HN = H_{f} - HO$ [average number of non overtime hours paid per job, f] 63.  $V = V_{-1} + Y - X$ [stock of inventories, £] 64.  $YT = W_f J_f (HN + 1.5HO) + W_g J_g H_g + W_n J_m H_h + W_s J_s H_s + D_f + D_b - DR_s$ +  $INT_{f}$  +  $INT_{g}$  -  $INT_{gr}$  +  $INT_{s}$  + RNT +  $TR_{fh}$  +  $\pi_{h}$  +  $SI_{hg}$  +  $SI_{hs}$ [taxable income, h] 65.  $S_h = YT - SI_{hg} - SI_{hs} + CC_h - PCS+CS - PCN+CN - PCD+CD - PIH+IH_h$ -  $PIK \cdot IK_h$  -  $PIV \cdot IV_h$  -  $TR_{hr}$  -  $T_{hg}$  -  $SI_{hg}$  +  $TR_{gh}$  -  $T_{hs}$  -  $SI_{hs}$ + TR<sub>sh</sub> + UR + INS + RET [savings, h]  $66. 0 = S_h - \Delta A_h - \Delta M_h + CG - DIS_h$ [budget constraint, h: determines A<sub>h</sub>] 67.  $\pi_{f} = XX + PIV(V - V_{-1}) - W_{f}(1 + d_{5g} + d_{5s})J_{f}(HN + 1.5HO) - RNT - TR_{fh}$  $-\pi_h - CC_h + SUB_g + SUB_s - INT_f - CC_f - IVA - WLD_f - STAT$ [before tax profits, f] 68. CF = XX -  $W_f(1 + d_{5g} + d_{5s})J_f(HN + 1.5HO)$  - RNT -  $TR_{fh} - \pi_h - CC_h$ +  $SUB_g$  +  $SUB_s$  -  $INT_f$  -  $PIK \cdot IK_f$  -  $PIH \cdot IH_f$  - MRS [cash flow, f] 69.  $S_f = CF - T_{fg} - T_{fs} - D_f$ [savings, f] 70. 0 =  $S_f - \Delta A_f - \Delta M_f - DIS_f - WLD_f - STAT$ [budget constraint, f: determines  $A_{f}$ ] 71.  $0 = \Delta M_{b} + \Delta M_{h} + \Delta M_{f} + \Delta M_{r} + \Delta M_{g} + \Delta M_{s} - \Delta CUR$ [demand deposit identity: determines ъJ 72.  $S_b = PX(\pi_b + CC_b) - PIK \cdot IK_b - PIH \cdot IH_b - D_b - T_{bg} - T_{bs} - SUR$ [savings, b] 73.  $0 = S_b - \Delta A_b - \Delta M_b - \Delta (BR-BO) - DIS_b$ [budget constraint, b: determines A<sub>b</sub>] 74.  $S_r = PIM \cdot IM + TR_{hr} + TR_{gr} + INT_{gr} - PEX \cdot EX$ [savings, r]

$$\begin{aligned} 55. & O = S_{g} - 4A_{g} - 4M_{g} + 4Q - DIS_{g} \\ for S_{g} = T_{hg} + 1BT_{g} + T_{fg} + T_{hg} + SUR + SI_{hg} + SIF_{g} + MRS - P_{K}^{*}S_{g} \\ - W_{g}^{*}B_{g}^{*} + W_{g}^{*}B_{g}^{*} + W_{g}^{*}B_{g}^{*} + T_{hg}^{*} + T_{hg}^{*} - T_{Rg}^{*} - T_{Rg}^{*} - SUB_{g}^{*} - DIS \\ for S_{g} = T_{hg}^{*} + 1BT_{g}^{*} + T_{fg}^{*} + T_{hg}^{*} + SIF_{hg}^{*} + MRS - P_{g}^{*}S_{g}^{*} \\ for S_{g}^{*} = T_{hg}^{*} + 1BT_{g}^{*} + T_{fg}^{*} + T_{hg}^{*} + SI_{hg}^{*} + SIF_{g}^{*} + T_{Rg}^{*} + DR_{g}^{*} - P_{g}^{*}S_{g}^{*} \\ for S_{g}^{*} = T_{hg}^{*} + 1BT_{g}^{*} + T_{fg}^{*} + T_{hg}^{*} + SI_{hg}^{*} + SIF_{g}^{*} + T_{Rg}^{*} + DR_{g}^{*} - P_{g}^{*}S_{g}^{*} \\ for S_{g}^{*} = T_{hg}^{*} + 2A_{g}^{*} + A_{hg}^{*} + A_{hg}^{*} + SIF_{g}^{*} + T_{Rg}^{*} + DR_{g}^{*} - P_{g}^{*}S_{g}^{*} \\ for S_{g}^{*} = AA_{g}^{*} - AM_{g}^{*} - DIS_{g}^{*} \\ for S_{g}^{*} = INS_{g}^{*} - DIS_{g}^{*} - DIS_{g}^{*} \\ for A_{h}^{*} + AA_{g}^{*} + AA_{g}^{*} + AA_{g}^{*} - CG^{*} + DIS_{h}^{*} + DIS_{g}^{*} + DIS_{g}^{*} \\ for A_{h}^{*} + AA_{g}^{*} + AA_{g}^{*} + AA_{g}^{*} + CG^{*} + DIS_{h}^{*} + DIS_{g}^{*} + DIS_{g}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{g}^{*} + AM_{g}^{*} + AM_{g}^{*} + SIF_{g}^{*} + W_{g}^{*}J_{g}^{*} + W_{g}^{*}J_{g}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{g}^{*} + AM_{g}^{*} + AM_{g}^{*} + SIF_{g}^{*} + SIS_{g}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{g}^{*} + AM_{g}^{*} + AM_{g}^{*} + SIF_{g}^{*} + SIS_{g}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{g}^{*} + AM_{g}^{*} + AM_{g}^{*} + SIF_{g}^{*} + SIS_{g}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{g}^{*} + AM_{g}^{*} + AM_{g}^{*} + SIF_{g}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + SIF_{h}^{*} + SIF_{h}^{*} + SIF_{h}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{g}^{*} + AM_{g}^{*} + M_{h}^{*} + M_{h}^{*} + M_{h}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{h}^{*} + AM_{g}^{*} + M_{h}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AM_{h}^{*} + AM_{h}^{*} + AM_{h}^{*} + AM_{h}^{*} \\ for A_{h}^{*} + AL_{h}^{*} + AL_{h}^{*} + AL_{h}^{*} + AL_{h}^{*} + AL_{h}^{*} \\ for A_{h}^{*} + AL_{h$$

117. $IV_f = V - V_{-1}$	[inventory investment, f]
118. PROD = $\frac{Y}{J_{f}H_{f}}$ 119. WR = $\frac{W_{f}}{PX}$	[output per paid for worker hour: "productivity"]
PX 120. POP = POP1 + POP2 + POP3	[real wage rate of workers in f]
121, SHR $\pi = \frac{(1 - d_{2g} - d_{2s})\pi_f}{M_e J_e (HN + 1.5HO)}$	[noninstitutional population 16 and over]
122. PCGNPR = $100 \left[ \left( \frac{\text{GNPR}}{\text{GNPR}_{-1}} \right)^4 - 1 \right]$	[ratio of after tax profits to the wage bill net of employer social security taxes]
123. PCGNPD = $100 \left[ \left( \frac{\text{GNPD}}{\text{GNPD}_{-1}} \right)^4 - 1 \right]$	[percentage change in GNPR]
124. PCM1 = $100\left[\left(\frac{M1}{M1}\right)^4 - 1\right]$	[percentage change in GNPD]
L' -1' J 125. UBR = BR - BO	[percentage change in M1]
125. $WA = W_{h}(1 - d_{1g}^{M} - d_{1s}^{N} - d_{4g} - d_{4s}^{A})$	[unborrowed reserves]
127. RSA = RS(1 - $d_{1g}^{M} - d_{1s}^{M}$ )	[after tax wage rate]
128. RMA = RM(1 - $d_{1g}^{M} - d_{1s}^{M}$ )	[after tax bill rate]
1 1 15	[after tax mortgage rate]