by Charles Day and Michael Strudler

ax Years 1988 and 1989 marked the second and third years of taxation under the Tax Reform Act of 1986. Total income tax amounted to \$432.9 billion for 1989, an increase of 4.8 percent over the \$412.9 billion reported for 1988; in turn, the tax for 1988 reflected an increase of 11.8 percent over the \$369.2 billion reported for 1987. Average tax (for returns showing an individual income tax liability) was \$4,855 for 1989 and \$4,738 for 1988, compared to \$4,257 for 1987. The average tax rate (total income tax divided by adjusted gross income reported on returns showing a tax) was 13.71 percent for 1989 and 13.81 percent for 1988, compared to 13.67 percent for 1987.

Any direct comparison of the average tax rates for 1987 and subsequent years with those for earlier years would be misleading because the 1986 Act introduced many changes in the tax treatment of income, losses and deductions which resulted in a broader concept of adjusted gross income (AGI) for tax years after 1986 [1]. The broadened definition of AGI would, all other things being equal, reduce the average income tax rate even if economic income and tax rates were unchanged. In order to allow comparisons to be made between average income tax rates before and after the redefinition of AGI without being subject to this effect, AGI statistics were recomputed for 1985 and subsequent years to match the concept used for 1979, the year that marked the end of the decade before the major tax law changes of the 1980's. Average tax rates, when based on the 1979 AGI concept, were 13.56 percent for 1985; 13.59 percent for 1986; 13.49 percent for 1987; 13.71 percent for 1988; and 13.58 percent for 1989 [2].

Tax Rates for 1988 and 1989

The Tax Reform Act of 1986 provided a transitional, five-bracket tax rate structure for 1987 only, with a top marginal rate of 38.5 percent. For 1988 and subsequent years, there were two basic tax rates, 15 percent and 28 percent. In addition, the rate structure included a 5 percent surtax on taxable income within the ranges shown in Figure A. This surtax resulted in a 33 percent effective marginal tax rate for taxpayers with income within these ranges. The surtax effectively phased out the benefits of having part of the income taxed at a 15 percent rate rather than at a 28 percent rate. Besides the surtax on income within the ranges shown in Figure A, a 5 percent surtax was imposed on income above these ranges in order to

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With income defined the same, tax averaged 13.58 percent (1989) and 13.56 percent (1985) based on "taxable returns."

phase out the benefits of the personal exemptions for taxpayers and their dependents. At the point where the tax-saving from personal exemptions was completely phased out, the taxpayer's marginal tax rate returned to 28 percent (and the average tax rate on taxable income plus the phased-out exemption amounts

was equal to 28 percent) [3]. Note that alternative minimum tax is not included in the determination of marginal tax rates for purposes of this article. Approximately 113,600 returns reported \$1.0 billion of alternative minimum tax for 1988. About 117,500 returns reported alternative minimum tax, which totaled \$0.8 billion, for 1989.

Along with the change in tax rate structure starting with 1988, the tax treatment of certain income and deductions was gradually changed. The phase-in of limitations on "passive" losses continued for 1988 and 1989, along with the phase-out of the itemized deduction for personal interest [4]. For 1987, an amount equal to 65 percent of passive losses generated by activities in which the taxpayer had an interest prior to October 22, 1986, and which commenced prior to that date, was allowed as an offset against "active" and portfolio income. For 1988, the allowance was reduced to 40 percent, and for 1989, to 20 percent. This limitation did not, however, apply to certain real estate losses [5]. For 1987, the deduction for personal interest was limited to 65 percent of the total. For 1988, the phase-out continued, with the deduction limited to 40 percent. For 1989, it was limited to 20 percent.

Under the 1986 Act, all capital gains were to be treated as ordinary income, although for 1987, net long-term capital gains were taxed at a maximum rate of 28 percent. With the establishment of the 28 percent top marginal rate for all income for 1988, this provision no longer applied.

Also under the 1986 Act, investment income (such as interest or dividends) in excess of \$1,000, reported on returns filed for dependents under age 14, was taxed as if it were their parents' income (using Form 8615) when this resulted in a larger combined tax liability. However, for 1989, parents were allowed the option of reporting the income of dependents under age 14 on their own returns (using Form 8814), if the dependents' income consisted entirely of interest, dividends and Alaska Permanent Fund dividends totaling between \$500 and \$5,000; and if there were no "backup withholding," estimated tax payments or overpayment credits from 1988 returns to be applied to the tax on dependents' income [6, 7]. This accomplished

Figure A

Ranges of Taxable Income to Which the Portion of the 5 Percent Surtax Due to Phasing Out of the 15 Percent Bracket Applied, by Filing Status, Tax Years 1988 and 1989

[Money amounts are in whole dollars]

Tax	Taxable income range by filing status								
year .	Single	Head of household	Married filing jointly	Married filing separately					
	(1)	(2)	(3)	(4)					
1988	43,150 - 89,560	61,650 - 123,790	71,900 - 149,250	35,950 - 113,300					
1989	44,900 - 93,130	64,200 - 128,810	74,850 - 155,320	37,425 - 117,895					

the same purpose for 1989 with respect to the taxation of dependents' investment income and eliminated the need to have separate returns filed for the dependents.

This article, and Tables 1 through 4 which follow, refer to two 28-percent marginal tax rate categories. The one labeled "28 percent (below the 5 percent surtax)" includes returns with taxable income large enough so that some income was taxed at 28 percent, but small enough to be below the threshold for the 5 percent surtax. The other, labeled "28 percent (above the 5 percent surtax)," includes returns with taxable income above the range on which the 5 percent surtax applied. Figure B presents the percentages of "modified" taxable income and the basic individual income tax (before reduction by tax credits) on returns with these marginal rates. (Modified taxable income is the same as taxable income for most returns in the sample on which the statistics were based; however, a small proportion of returns in the sample used for the statistics were prior-year returns received by the Internal Revenue Service during the current-year filing period. These returns were included in the sample as proxies for current-year returns received in later filing periods. Tax on these prior-year returns was computed from taxable income using the tax law applicable to the [prior] year for which the return was filed. This could have led to inconsistencies, because it would be unusual for the same amount of taxable income to generate the same amount of tax when different laws applied to different years. For this

reason, taxable income for these prior-year returns was modified by substituting the taxable income necessary to generate the amount of tax for the return, using the current year's tax law.)

Figures C and D include statistics on average tax and tax rates from 1985 through 1989 based on "taxable returns," i.e., returns that showed an income tax liability. This period consisted of three distinct sub-periods: (1) Tax Years 1985 and 1986 (the last 2 years under the Economic Recovery Tax Act of 1981, or ERTA, which had gradually reduced average tax rates through indexing of tax bracket boundaries for inflation); (2) Tax Year 1987 (the first year under the Tax Reform Act of 1986, which provided a 1-year transitional five-bracket tax rate structure and began a phase-in of most of the new provisions that resulted in a broadened definition of AGI); and (3) Tax Years 1988 and 1989 (the first 2 years under the two-rate bracket structure coupled with the 5 percent surtax, during which time new provisions limiting certain types of losses and deductions were more fully implemented).

Care should be taken when comparing average tax rates for 1987 and subsequent years with those for prior years. The Tax Reform Act of 1986 broadened the definition of AGI by limiting or eliminating many special provisions [8]. All other things being equal, this redefinition of AGI, which increased AGI, would act to decrease the average tax rate. Figure C shows both unadjusted average tax rates

Figure B

Percentage of Modified Taxable Income and Income Tax Generated on Returns with the Indicated Marginal Tax Rate, Tax Years 1988-1989 1

Marginal tax	Percentage of modifie	d taxable income	Percentage of income tax generated			
rate	1988	1989	1988	1989		
	(1)	(2)	(3)	(4)		
All rates	100.0	100.0	100.0	100.0		
5 percent rate	31.2	. 31.1	23.3	23.2		
28 percent rate (below the 5 percent surtax)	39.0	40.0	36.8	38.0		
33 percent rate		13.4	15.8	17.1		
28 percent rate (above the 5 percent surtax)		15.5	24,1	21.6		

¹ Two special categories of returns, both having to do with the taxation of dependents' income, are shown in Tables 1-4 at the end of this article, but are not shown here because of their small effect on the totals.

NOTE: Detail may not add to totals because of rounding

Figure C

Adjusted Gross Income, Total Income Tax, Average Tax Rate and Average Total Income Tax, Tax Years 1985-1989 [Money amounts are in billions of dollars, except where indicated]

				[T	Average per return 1					
Tax	ax Total number	Number Adjusted		Total Average income tax rate (percent) 2	Curren	t dollars	Constant dollars 3				
year of returns	of returns	gross income			Adjusted gross income (whole dollars)	Total income tax (whole dollars)	Adjusted gross income (whole dollars)	Total income tax (whole dollars)			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)		
				Using each tax	year's adjusted gros	s income concept			`		
1985 1986 1987 1988	101,660,287 103,045,170 106,996,270 109,708,280 112,135,673	82,846,420 83,967,413 86,723,796 87,135,332 89,178,355	2,259 2,440 2,701 2,990 3,158	326 367 369 413 433	14.42 15.05 13.67 13.81 13.71	27,268 29,062 31,142 34,313 35,415	3,931 4,374 4,257 4,738 4,855	25,342 26,516 27,414 29,005 28,560	3,653 3,991 3,747 4,005 3,915		
			<u> </u>	Using commo	n adjusted gross in		L				
1985 1986 1987 1988 1989	101,660,287 103,045,170 106,996,270 109,708,280 112,135,673	82,846,420 83,967,413 86,723,796 87,135,332 89,178,355	2,403 2,703 2,736 3,011 3,188	326 367 369 413 433	13.56 13.59 13.49 13.71 13.58	29,003 32,194 31,551 34,556 35,752	3,931 4,374 4,257 4,738 4,855	26,954 29,374 27,774 29,210 28,832	3,653 3,991 3,747 4,005 3,915		

- 1 The average adjusted gross income, average total income tax and average tax rate were calculated from unrounded data.
- ² Average tax rate is "total income tax" (column 4) as a percentage of adjusted gross income (AGI) (column 3).
- ³ These statistics are adjusted using the Bureau of Labor Statistics' Consumer Price Index (1982-1984-100).

NOTE: Because data in columns 2-9 are based only on taxable returns, i.e., returns with an amount reported for total income tax liability, they are not comparable with data in Tables 5-6 at the end of this article (which are based on the larger number of returns with a positive amount reported for adjusted gross income) and in Tables 7-8 (which are based on all returns filed).

(which show the expected decrease between 1986 and 1987) and adjusted rates based on the 1979 concept of AGI [9]. The average tax rates before and after tax reform based on the common AGI concept differ little, revealing that the change in the unadjusted numbers between 1986 and 1987 resulted mostly from the differing definitions of AGI. Figure D presents the average total income tax for Tax Years 1980 (the year prior to the enactment of ERTA) through 1989 for taxable returns. (For further information on the number of returns, income tax and average tax, by size of AGI, for Tax Years 1987-1990, see Table 3 of the Selected Historical and Other Data section of this issue, and Statistics of Income—1987, Individual Income Tax Returns.)

Computation of Tax

Figure E shows the computation of taxable income for 1988 and 1989. Taxable income was the amount on which income tax before credits (not including additional, special taxes) was computed. For both years, taxable income equaled AGI less the personal exemption amount and less either the standard deduction (including the additional amounts for age and blindness) for taxpayers who did not itemize deductions, or total allowable itemized deductions for all other taxpayers.

Taxes were based on taxable income according to tax rate schedules that varied with taxpayer filing status. There were separate rates for single persons, married persons filing joint returns, married persons filing separate returns from their spouses, and heads of household [10, 11]. As already stated, the 1988 and 1989 rates for each filing status ranged from 15 to 28 percent; for 1987, they ranged from 11 to 38.5 percent (with a 28 percent maximum rate on net long-term capital gains).

For Tax Year 1988, taxpayers used one of three methods when figuring their initial tax liability (Figure F). If they were not dependents under 14 years of age with investment income in excess of \$1,000, they used either the (look-up) tax tables or the tax rate schedules to determine tax. Taxpayers with taxable income under \$50,000 were required to use the tax tables, which simplified the calculation of tax. Those with taxable income of \$50,000 or more were required to use the tax rate schedules. Although taxpayers did not have a choice between using the tax table or tax rate schedules, the two methods could produce slightly different results for the same taxable income amount. The amounts shown in the tax tables were based on the same computation as the tax rate schedules, but used the midpoints of "taxable income brackets" (generally \$50 wide) as the basis for deriving the tax. In addition, tax tables rounded the resulting tax to the nearest whole dollar. Since the highest marginal income tax rate used in the 1988 tax tables was 33 percent and, with the tax table brackets no wider than \$50 and the tax calculated on the midpoint of the bracket, the maximum deviation in tax between the tax tables and the tax

⁴These statistics are based on adjusted gross income (AGI) recomputed to reflect the Tax Year 1979 concept, thus enabling more valid comparisons to be made of the average tax rates among years. Changes in the definition of AGI among years render direct comparison of the unadjusted figures misleading. For additional information, see Statistics of Income
--Individual Income Tax Returns, for 1985 through 1989.

rate schedules was \$8.33. In most cases the deviation was substantially less. The tax liability from the tax tables could be either higher or lower than that computed from the tax rate schedules [12].

If a taxpayer were a dependent under age 14 and had over \$1,000 of investment income, his or her tax was computed using Form 8615, Computation of Tax for Children Under Age 14 Who Have Investment Income in Excess of \$1,000. This assured that any investment income over \$1,000 reported by these taxpayers was taxed as if it were the income of their parents, if a larger combined tax resulted from this treatment. In this case, the actual tax liability of the child could have been calculated using either of the methods described previously, depending on the particular circumstances of the parents, the child and any other children for whom a Form 8615 had to be filed.

Another option existed for Tax Year 1989 (shown in

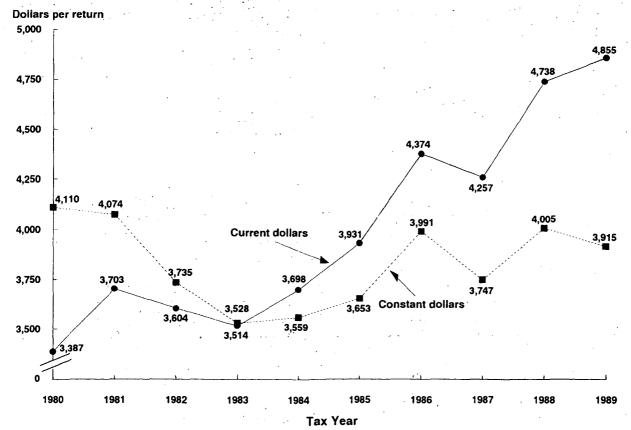
Figure F). Parents could report the income of dependents under age 14 on their own returns, if the dependents' income (1) consisted only of interest, dividends or Alaska Permanent Fund dividends, and (2) totaled between \$500 and \$5,000; and if the dependents (1) made no estimated tax payments, (2) had no "backup withholding" and (3) had not asked that a 1988 overpayment be credited towards their 1989 estimated tax. Using Form 8814, Parents' Election to Report Child's Interest and Dividends, the first \$1,000 of the dependent's income was taxed at 15 percent, while the rest was taxed as if it were the parent's income; all of this tax was reported on the parent's return.

Marginal Tax Rates

When tax is calculated, different portions of taxable income are often taxed at different rates. For example, the first \$17,850 of taxable income on a single taxpayer's return was taxed at 15 percent for 1988. After the ceiling

Figure D

Taxable Returns: Average Total Income Tax, Tax Years 1980-1989



NOTE: Constant dollars are based on Consumer Price Index (1982-1984-100) computed by U.S. Department of Labor, Bureau of Labor Statistics, and published in the *Economic Report of the President*, February 1992.

Figure E

Computation of Taxable Income from Adjusted Gross Income, Tax Years 1988 and 1989

Adjusted gross income

Less: Deduction amount (for those who itemized

deductions)

or

Standard deduction

Total exemptions times exemption amount ¹

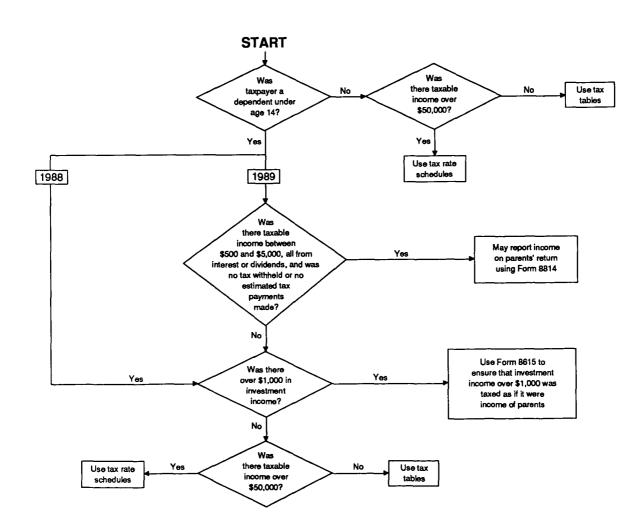
Equals: Taxable income

on the 15 percent bracket was indexed for inflation, the first \$18,550 was taxed at this rate for 1989. If the single taxpayer had more than \$17,850 in taxable income for 1988 (\$18,550 for 1989), then the next \$25,300 (\$26,350) was taxed at 28 percent. In general, the tax rate that applied to the last dollar of income (given certain assumptions about which source of income provided the last dollar of income subject to tax) is called the "marginal tax rate" for that return.

Prior to 1988, the marginal tax rate for a return was the highest rate applied to any amount of income on that return. Starting with Tax Year 1988 this was true only for returns which showed taxable income equal to or less than the maximum amount to which the 5 percent surtax applied. If the total amount of taxable income was within

Figure F

Determination of Method for Computing Income Tax, Tax Years 1988 and 1989



 $^{^{\}rm 1}$ The exemption amount for 1988 was \$1,950 and for 1989 it was \$2,000.

the range of income to which the 5 percent surtax applied, the taxpayer was considered to have a 33 percent marginal rate. If the taxpayer had some income subject to the 33 percent rate but had income in excess of the maximum amount subject to the surtax, he or she was considered to have a 28 percent marginal tax rate. (See the appendix for a more general discussion of the marginal tax rate concept.)

Tables 1 through 4 present 1988 and 1989 marginal tax rate data. These data are based on the items of income that were subject to tax, generally those included in AGI. (Some forms of economic income, such as interest on State and local Government obligations, were not subject to Federal income tax and, thus, were not included in AGI. Nontaxable forms of income were not included in income for purposes of determining marginal tax rates in the tables.) It was possible, however, for the receipt of some forms of tax-exempt income to influence the taxability of other incomes, such as social security benefits. When this occurred, the income which was made taxable by the receipt of other forms of nontaxable income was included in AGI and was used in the determination of marginal tax rates.

All returns included in Tables 1 through 4 showed some taxable income. Of the 109,708,280 individual tax returns filed for 1988, there were 90,186,916 that showed (modified) taxable income, while 19,521,364 did not. Of the 112,135,673 returns filed for 1989, there were 92,211,584 with (modified) taxable income and 19,924,089 without such income. Figure G presents data for Tax Years 1988 and 1989 on: (1) the proportion of returns with modified taxable income by marginal tax rate, (2) the proportion of modified taxable income reported on returns by marginal

rate and (3) the proportion of total tax reported on returns at each marginal rate. (Modified taxable income, as noted above, differs only slightly from taxable income on the tax return; it is also described in the Explanation of Selected Terms section below.)

Several of the marginal tax rate classifications deserve special mention. In the 1988 tables, two different 28 percent rate classifications appear. The first of these is described earlier in this article as "28 percent (below 5 percent surtax)," and the second is described as "28 percent (above 5 percent surtax)."

Returns were classified as "Form 8615" if they were filed for dependents under age 14 with more than \$1,000 in investment income. The 1989 tables show the same marginal tax rate classifications as the 1988 tables plus a Form 8814 classification for returns on which parents chose to include the investment income of their dependents, and on which no tax liability was reported other than that generated by the dependents' income.

Tables 1 and 3 classify tax returns by marginal tax rate and filing status. Tables 2 and 4 classify returns by size of AGI. Tables 1 and 2 are for 1988. Tables 3 and 4 are for 1989. Two classification schemes are used in Tables 1 and 3. In columns 1 through 9, 13 through 21, 25 through 33, 37 through 45 and 49 through 57, a return was classified according to its applicable marginal tax rate. For example, column 1 of Table 1 shows that there were 22,226,008 returns for which the marginal tax rate was 28 percent (and which showed taxable income below the threshold for imposition of the 5 percent surtax). Columns 5 and 6 show that, for these returns, the "tax generated" on returns with "tax generated" at both the 15 percent and 28 percent (below the 5 percent surtax) rates totaled

Figure G

Number of Taxable Returns, Modified Taxable Income and Tax Generated, by Marginal Tax Rate, Tax Years 1988 and 1989

[Money amounts are in millions of dollars]

Marginal tax	Number	of returns	Modified ta	xable income	Income tax generated 1			
rate, item	1988	1989	1988	1989	1988	1989		
	(1)	(2)	(3)	(5)	(6)	(8)		
All returns	90,186,916	92,211,584	2,073,890	2,177,433	417,502	436,431		
15 percent rate	-63,901,793	64,823,867	647,742	676,341	97,131	101,420		
28 percent rate (below the 5 percent surtax) 2	22,226,008	23,111,722	809,363	871,953	153,717	165,705		
33 percent rate	2,925,698	3,188,030	256,632	291,152	65.835	74.696		
28 percent rate (above the 5 percent surtax) 3	748,828	729,455	359.094	336,780	100,546	94.298		
Form 8615.4	384,588	351,582	1,058	1,203	272	311		
Form 8814.5	(6)	6,929	(6)	4,553	(6) .	685		

- 1 Represents the income tax generated at all rates on returns of taxpayers with the indicated marginal tax rate.
- Represents returns with a 28 percent marginal tax rate with taxable income below the level to which the 5 percent surtax applied.
- ³ Represents returns with a 28 percent marginal tax rate with taxable income above the level to which the 5 percent surtax applied.
- 4 Filed by dependents under age 14 with investment income over \$1,000 to ensure that their investment income was taxed as if it were their parents.
- 5 Represents returns filed by parents reporting investment income of their dependents over \$1,000, when the dependents' income generated all of the tax reported.
- 6 The provisions that allowed reporting of dependents' income on returns filed by the parents did not take effect until Tax Year 1989.
- NOTE: Detail may not add to totals because of rounding.

\$153.7 billion, of which \$69.6 billion of tax was "generated" solely at the 28 percent marginal rate.

In columns 10 through 12, 22 through 24, 34 through 36, 46 through 48 and 58 through 60, a return was classified by each rate that generated a tax. For example, columns 10, 11, and 12 show that 25,152,706 returns had some income taxed at the 28 percent rate (below the 5 percent surtax); the (modified) taxable income subject to this rate was \$355.2 billion, and the resultant tax generated at this rate was \$99.5 billion.

The "tax generated" at each specific tax rate, from the 15 percent rate to the 28 percent rate (above the 5 percent surtax), as well as the corresponding number of returns and the taxable income classified by size of AGI, are presented in Tables 2 and 4. For example, column 1 of Table 2 shows that, for Tax Year 1988, there were 9,191,617 returns with (modified) taxable income that showed an AGI between \$20,000 and \$25,000; column 3 shows that these returns had (modified) taxable income of \$123.5 billion; column 4 shows that these returns generated \$18.7 billion of tax. Column 8 shows that 1,206,904 of these returns had a portion of income taxed at the 28 percent rate. Column 9 shows that these returns had \$1.4 billion of (modified) taxable income subject to the 28 percent rate, and column 10 shows that \$391.8 million of tax was generated at this rate by these returns.

Derivation of Tax

Regular Tax

Tables 1 and 3 include two amounts of income tax: "tax generated" and "income tax after credits." Both were used to determine the total income tax amount. Tax generated was the initial tax computed when tax rates were applied to taxable income. Column 5 in Table 1 shows that, for 1988, approximately \$417.5 billion of tax was generated by applying the tax rates to taxable income. For most taxpayers, tax generated was equal to income tax before credits. For others, income tax before credits was derived by adding the special taxes on accumulation distributions of trusts and lump-sum distributions from qualified retirement plans (when the special 10-year averaging method was used) to the tax generated from the tax rate schedules. Income tax after credits was derived by subtracting tax credits, in the following order: the credit for child and dependent care, the credit for the elderly or permanently and totally disabled, the foreign tax credit, the general business credit, the credit for prior-year minimum tax and the earned income credit. (The earned income credit, in this instance, is included to the extent that its application did not reduce tax below zero; this amount therefore excludes the refundable portion of the

Figure H

Derivation of 1988 and 1989 Total Income Tax as Shown in Statistics of Income

[Money amounts are in billions of dollars]

	Tax	year
Item	1988	1989
Tax generated from tax rate schedules or		
tax table	417.5	436.4
PLUS: Taxes from special computations, total	1.3	1.8
Tax on accumulation distributions of trusts Tax on lump-sum distributions from	n.a.	n.a.
qualified retirement plans	n.a.	n.a.
EQUALS:		
Income tax before credits	418.9	438.2
LESS: Tax credits, total	7.0	6.1
Child-care credit	3.8	2.4
Foreign tax credit	1.1	1.3
General business credit	0.7	0.6
Elderly or disabled credit	0.1	0.1
Earned income credit (limited to the amount	1	
needed to reduce total income tax to zero).	1.1	1.4
Credit for prior-year minimum tax	0.2	0.3
Other credits	(1)	(')
EQUALS:		
Income tax after credits	411.8	432.1
PLUS: Alternative minimum tax	1.0	8.0
EQUALS:		
Total income tax	412.9	432.9

n.a. - Not available.

credit.) Income tax after credits on returns with (modified) taxable income, shown in column 7 of Table 1, amounted to more than \$411.7 billion.

Figure H shows the derivation of aggregate income tax for 1988 and 1989 for returns with (modified) taxable income. Total income tax, used in Figures C and D but not shown in Tables 1 through 4, is the sum of income tax after credits and the alternative minimum tax [13]. Tax attributable to the alternative minimum tax, which was computed on a different base from that used for the statistics in these two tables, is excluded from Tables 1 through 4.

Alternative Minimum Tax

The Revenue Act of 1978 instituted the "alternative minimum tax," or AMT. Revised several times since its inception, this tax required the recomputation of income by including certain items which were otherwise deductible; restricting use of certain accounting methods; and disallowing certain benefits received in the form of deductions and exclusions, all of which served to reduce an individual's average tax rate. The use of a recomputed income amount in this calculation was part of a continuing effort to insure that individuals did not use provisions of the tax code meant to stimulate economic activity and

Less than \$0.05 billion.

NOTE: Detail may not add to totals because of rounding.

generate substantial "economic income" without incurring at least some tax on this income.

TO DESCRIPTION OF STREET

Figure I shows the derivation of "alternative minimum taxable income" (AMTI) for 1988 and 1989. For 1988 and 1989 the alternative minimum tax was little changed from 1987. Beginning with Tax Year 1988, an adjustment was made for refunds of taxes that were not allowed as deductions for alternative minimum tax (AMT) purposes for 1987. Another new adjustment disallowed (for AMT purposes) the favorable tax treatment of incentive stock options exercised after 1987. This replaced the tax prefer-

ence item for the excess of a share's market value over the option price when a stock option was exercised. For 1989, one preference used in the calculation of AMTI was eliminated. This was the excess of reserves for losses on bad debts of financial institutions over the allowable deduction if the institution maintained a reserve that accurately reflected the incidence of bad debts.

The top 5 percent of all tax returns for 1989 reported 28.9 percent of total adjusted gross income and 43.6 percent of total income tax.

The alternative minimum tax was computed from AMTI using the following steps. First, AMTI was reduced by an exemption amount. For both 1988 and 1989, the AMTI exemption for single filers. was \$30,000; for joint filers, \$40,000; and, for married persons filing separately, \$20,000. The exemption was reduced or eliminated above certain levels of AMTI. The exemption was reduced (but not below zero) by 25 percent of the amount by which AMTI exceeded threshold levels. For filers who were single, joint or married but filing separately, the phase-out began at \$112,500, \$150,000 or \$75,000 of AMTI, respectively; and ended at \$232,500, \$310,000 or \$155,000, respectively. (For 1989, dependents filing their own returns were further limited to an exemption of \$1,000 plus their "earned income.") After reduction by the exemption amount, AMTI was subject to tax at a 21 percent rate. The result was reduced by the alternative minimum tax foreign tax credit, yielding a tentative minimum tax. The taxpayer's regular tax before credits (including additional taxes from accumulation distributions of trusts or lump-sum distributions from qualified retirement plans for 1989), less the foreign tax credit, was then subtracted from the tentative minimum tax, yielding the alternative minimum tax, or AMT. For 1989, if Form 6251, Alternative Minimum Tax for Individuals, was prepared for a dependent under age 14, then the dependent's alternative minimum tax could be reduced if the parent had regular tax greater than his or her own tentative minimum tax, or if any other dependent under age 14 of the same parents had regular tax greater than his or her own tentative minimum tax.

Figure J provides a summary of data from the alternative minimum tax computation reported on Form 6251.

Income and Tax Shares

Tables 5 through 8 present statistics on AGI and tax by AGI percentile. Tables 5 and 6 use AGI, as defined for each year, as a variable for stratifying by percentile and also as a data item. These two tables are useful for many purposes, particularly for comparisons across AGIpercentile classes within a year, and for comparisons between years within the ERTA period, or within the post-1986 tax reform period. Tables 5 and 6 are not useful for comparisons of data between the years before 1987 and those for 1987 and beyond because of the redefinition of AGI included in the 1986 law change. Tables 7 and 8 use AGI as recomputed for each year, using the definition applicable to Tax Year 1979. These tables are, therefore, useful for comparisons between the pre- and post-tax reform periods. (Tables 5 and 6 present statistics that focus on returns with positive amounts reported for AGI; Tables 7 and 8 are based on all returns filed. Data in the two pairs of tables are, therefore, not altogether compa-

Tables 5 and 7 present data cumulated from the highest 1 percentile based on AGI to the 50th percentile. Tables 6 and 8 present data cumulated from the lowest (99th) percentile to the 50th percentile. For example, to use Table 5 to find the number of tax returns comprising the highest 5 percent of AGI for Tax Year 1987, one needs to first find the section for "Number of returns," then read across the row for Tax Year 1987 until column 3 is reached. This shows that there were 5,307,738 returns that accounted for the top 5 percent of AGI. The amount of AGI needed to be included in this group is found in the section called "Adjusted gross income floor on percentiles." (To help interpret the data from year to year, statistics on the AGI floor are also presented in constant dollars.) Reading across for Tax Year 1987 one discovers that a return needed at least \$68,414 in AGI to be included in the top 5 percent of returns based on AGI. The average tax rate for these taxpayers may be found in the block titled "Average tax rate." Reading across for Tax Year 1987, one finds that the average tax rate (or effective tax rate) for these returns was 22.10 percent.

Explanation of Selected Terms

Brief explanations of the major tax concepts discussed in this article follow. For more extensive definitions, see

Figure I

Calculation of Alternative Minimum Taxable Income (AMTI), Tax Years 1988 and 1989

Taxable Income

PLUS: Net operating loss deduction

PLUS: Adjustments

- Standard deduction
- Personal exemptions
- The lesser of deductible medical and dental expenses or 2.5 percent of adjusted gross income
- Miscellaneous itemized deductions subject to the 2-percent-of-adjusted gross income limitation
- Deductions for State and local income, real estate and foreign taxes
- Refunds of State and local income, real estate and foreign taxes previously deducted (negative)
- Deductions for personal interest
- Other interest adjustments *
- Excess of depreciation on property placed in service after 1986 over less liberal methods allowed for alternative minimum tax purposes (straight-line or 150-percent declining balance method, depending on the type of property)
- Excess of mining exploration and development costs paid or incurred after 1986 over allowable amortization had costs been capitalized (the result could be negative)
- Excess of circulation and research and experimental expenditures paid or incurred after 1986 over allowable amortization had expenditures been capitalized (the
 result could be negative)
- Deferred income from long-term contracts entered into after February 28, 1986, with certain exceptions and limitations (the result could be negative)
- Excess of rapid amortization of pollution control facilities placed in service after 1986 over otherwise allowable depreciation (the result could be negative)
- Adjustment from disallowing the installment sales method of accounting for sales of inventory and stock in trade after March 1, 1986, with certain exceptions (the result could be negative)
- Adjustment of gain or loss on of property disposed of after 1987, the basis of which was affected by accelerated depreciation or rapid amortization and which was reduced for alternative minimum tax purposes; and on incentive stock options which were exercised after 1987, the price paid by the taxpayer on which exceeded the value of the option when exercised (the result could be negative)
- Adjustment for refigured loss from activities in which allowable losses from partnerships or S Corporations were limited by "at-risk" and other rules, taking into account alternative minimum tax adjustments and preference items (the result could be negative)
- Adjustment for refigured tax shelter farm losses, taking into account alternative minimum tax adjustments and preference items
- Passive activity loss allowed for regular tax purposes for activities acquired before October 23, 1986, taking into account alternative minimum tax adjustments and preference items
- Difference between income distributions to beneficiaries of estates and trusts for regular tax purposes and the amounts refigured for alternative minimum tax purposes

PLUS: Tax Preference Items

- Excess of accelerated depreciation on real property placed in service before 1987 over straight-line depreciation as refigured for alternative minimum tax purposes
- Excess of accelerated depreciation on leased property placed in service before 1987 over straight-line depreciation as refigured for alternative minimum tax purposes
- Excess of rapid amortization on pollution control facilities placed in service before 1987 over allowable depreciation
- Excess of deduction for charitable contributions of appreciated property over the basis of the property
- Amount by which the excess of intangible drilling costs deducted currently over allowable amortization (if these costs had been capitalized) was more than 65 percent of the taxpayer's "net income" from oil, mineral and geothermal properties, but with exceptions
- Tax-exempt interest from private activity bonds issued after August 7, 1986
- Excess of percentage depletion deduction for mineral reserves over their adjusted basis
- For Tax Year 1988, excess of reserves for losses on bad debts of financial institutions deducted, over the allowable deduction if the institution had maintained a
 reserve that reflected actual bad debt losses

MINUS: Alternative tax net operating loss deduction

EQUALS: Alternative minimum taxable income

¹ Includes interest attributable to the amount in excess of the remaining balance of a mortgage loan, when that loan had been refinanced for an amount greater than the remaining balance, and when that excess amount was not used for home improvements. Also includes the difference between ithe deduction for "investment interest expense" for regular tax purposes and the amount refigured for alternative minimum tax purposes.

Figure J

Selected Data from Alternative Minimum Tax Computation, by Size of Adjusted Gross Income, Tax 1988 and 1989

[Money amounts are in thousands of dollars]

Year and size of	Total adju	stments	Total tax pre	ferences	Alternative mir	nimum tax			
adjusted gross income	Number of returns	Amount	Number of returns	Amount	Number of returns	Amount			
	(1)	(2)	(3)	(4)	(5)	(6)			
•	:		1988	3					
All returns	4,124,163	77,101,827	997,388	4,553,946	113,562	1,027,884			
lo adjusted gross income	54,746	3,062,334	16,588	168,538	5,940	108,122			
1 under \$10,000	150,011	871,614	32,719	31,368	28	714			
\$10,000 under \$20,000	152,823	1,264,917	43,709	30,680	2,703	16,969			
\$20,000 under \$30,000	194,281	2,038,322	46,676	86,665	4,419	23,540			
30,000 under \$40,000	272,428	2,749,979	80,053	96,151	7,956	28,482			
40,000 under \$50,000	457,601	4,739,918	79,593	85,725	5,572	25,183			
50,000 under \$75,000	1,034,590	12,384,741	215,248	312,931	14,120	37,664			
75,000 under \$100,000	588,353	8,205,843	128,712	203,108	14,883	54,421			
\$100,000 under \$200,000	, 733,235	. 14,464,516	180,414	707,602	33,887	189,433			
200,000 or more	486,092	27,319,640	174,217	2,831,176	24,052	543,357			
	1989								
All returns	4,182,985	77,150,223	805,755	4,527,451	117,483	830,994			
lo adjusted gross income	46,234	1,552,897	.12,623	145,976	4,820	66,722			
31 under \$10,000	65,094	351,837	25,714	53,564	10,145	6,082			
\$10,000 under \$20,000	58,507	444,697	31,830	49,003	2,386	12,307			
20,000 under \$30,000	107,595	965,462	39,220	143,308	2,688	12,685			
30,000 under \$40,000		2,128,507	51,797	49,825	4,284	9,070			
40,000 under \$50,000	487,387	5,036,634	63,307	88,714	4,216	20,275			
50,000 under \$75,000	1,127,399	13,435,905	160,560	244,817	19,138	54,460			
75,000 under \$100,000	674,457	9,390,261	94,903	260,104	15,461	39,056			
100,000 under \$200,000	825,895	15,641,363	163,066	509,701	30,316	149,962			
200,000 or more	537,401	28,202,663	162,736	2,982,437	24,029	460,375			

NOTE: Detail may not add to totals because of rounding.

Statistics of Income—Individual Income Tax Returns for 1988 and 1989.

Adjusted Gross Income.—Adjusted gross income (AGI) is computed by subtracting statutory adjustments (primarily business, investment or employee-related deductions, such as payments to a Keogh self-employed retirement plan and contributions to an Individual Retirement Arrangement, or IRA) from total income recognized under the tax code. Total income includes, for example, salaries and wages, taxable interest, dividends and the net amounts from sources such as business income, rents and royalties, and sales of capital or other assets.

Marginal Tax Rate.—For purposes of this article, marginal tax rate is defined as follows: (1) if a return showed an amount of taxable income below or equal to the maximum amount to which the 5 percent surtax was applied, then the marginal tax rate of the return is the highest rate at which any amount of taxable income reported on the return was taxed; or (2) if a return had an amount of taxable income in excess of the amount to which the 5 percent surtax applied, then the return was defined to have a 28 percent marginal tax rate. For tabulation purposes, returns of dependents with a Form 8615 attached are shown separately when the use of this form resulted in the taxation of the dependent's income as if it were that of his or her parents. For 1989, returns of parents choosing to report the interest and dividend

income of their dependents under age 14 on their own (i.e., the parent's) return using Form 8814, are shown separately when the child's income generated the only tax liability on the parent's return. The alternative minimum tax is not included when marginal tax rates are determined (for purposes of this article). Credits, such as the earned income credit, are also excluded from consideration. For a more general discussion of marginal tax rates, see the appendix, below.

Modified Taxable Income.—Each year, a small number of returns for prior tax years are filed during the calendar year in which the Statistics of Income sample for the current tax year is being selected. A few of these returns are selected for the sample and act as proxies for returns for the current tax year that will be filed during a later year. The tax on these returns is based on a previous year's tax law (which may reflect different tax rates and income concepts). For purposes of the statistics, taxable income is adjusted to equal an amount necessary to generate, using current-year rates ("modified taxable income" in the statistics), the tax actually shown on the return. This estimated amount is used to represent the taxable income for these returns.

Taxable Income.—Taxable income was AGI less the sum of personal exemption amounts and either the standard deductions for non-itemizers or total itemized deductions for all others.

Taxable Returns.—For 1988 and 1989, a return was considered "taxable" if it showed an amount of income tax after tax credits or if it had "total income tax" (which included the alternative minimum tax). The following additional taxes were not recognized in determining taxable returns: self-employment tax; tax on recapture of prior-years' investment or low-income housing credits; social security tax on certain tip income; and the penalty tax on premature distributions from, and excess contributions to, Individual Retirement Arrangements (IRA's).

Tax Generated.—This was the tax calculated from the tax rate schedules (or look-up tax tables) on taxable income. It did not take into account the alternative minimum tax or the effect of tax credits. For most returns (those without a tax on lump-sum distributions from qualified retirement plans or a tax on accumulation distributions of trusts), tax generated equaled income tax before credits.

Total Income Tax.—Total income tax was the sum of income tax after credits and the alternative minimum tax.

Data Sources and Limitations

The statistics for 1988 and 1989 are based on samples of individual income tax returns (Forms 1040, 1040A and 1040EZ) filed with the Internal Revenue Service in 1989 (for Tax Year 1988) and in 1990 (for Tax Year 1989). Returns in the samples were stratified based on the larger of "total income" (or "total loss"); size of business plus farm receipts; the presence or absence of Schedule C, Profit (or Loss) from Business or Profession; Schedule F, Farm Income and Expenses; Form 4835, Farm Rental Income and Expenses; Form 1116, Computation of Foreign Tax Credit—Individual, Fiduciary, or Nonresident Alien Individual; and Form 2555, Foreign Earned Income. Returns were selected at rates ranging from 0.02 percent (for the more numerous, smaller-sized, homogeneous returns) to 100 percent (for the relatively few

Figure K

Coefficients of Variation for Frequency
Estimates, 1988 and 1989

Estimated coefficient of	Estimated number of returns					
variation	1988	1989				
0.01	28,566,000	17,228,500				
0.02	7,141,500	4,307,100				
0.05	1,142,600	689,100				
0.10	285,700	172,300				
0.20	71,400	43,100				
0.30	31,700	19,100				
0.35	23,300	14,100				
0.50	11,400	6,900				

returns with large income amounts), resulting in 110,634 returns selected to represent the 109,708,280 returns filed for Tax Year 1988, and 110,840 returns to represent the 112,135,673 filed for Tax Year 1989. Since the data presented in this article are estimates based on a sample, they are subject to sampling, as well as nonsampling, error. To make proper use of the statistical data provided, the magnitude of the potential sampling error needs to be known. (For information about the samples used for the other tax years referred to in the statistics, for example, in Tables 5 through 8, see the *Statistics of Income* reports for these years.)

Figure K presents approximate upper level coefficients of variation (CV's) for frequency estimates. The approximate CV's shown here are intended only as a general indication of the reliability of the data. Since upper level coefficients of variation represent the "worst case," they are strongly influenced by the choice of sampling fractions in the stratum with the lowest fraction sampled. The apparent large improvement in reliability of the data for 1989 reflects decisions about the size of this fraction relative to the sampling fractions for other strata, and is, therefore, not significant. For a number of returns other than those shown, the corresponding CV's can be estimated by interpolation. The reliability of estimates based on samples, the use of coefficients of variation for evaluating the precision of sample estimates and nonsampling error considerations are discussed in the methodological appendix at the back of this issue of the Bulletin.

Note that the estimates in Tables 5 through 8 were not derived by an actual ranking of the returns in the *Statistics* of *Income* sample, but were estimated instead, using a mathematical technique called "osculatory interpolation," applied to tabulations of aggregated data [14]. The technique attempts to estimate the distribution of returns within each AGI size class in a table, thus allowing estimation of values by percentile.

Notes and References

- [1] For further information on the Tax Reform Act of 1986, see U.S. Congress, Joint Committee on Taxation, General Explanation of the Tax Reform Act of 1986 (H.R. 3838, 99th Congress, Public Law 99-514), May 4, 1987.
- [2] For details on the computation of the adjusted gross income under the 1979 concept for each year, see Statistics of Income—Individual Income Tax Returns for the year concerned.
- [3] The surtax was eliminated by the Revenue Reconciliation Act of 1990, beginning with Tax Year 1991, in favor of a new 31 percent tax bracket, a phase-out of

- the personal exemption amounts for taxpayers and dependents with income above certain thresholds and a reduction in the total itemized deductions allowed taxpayers with adjusted gross income above certain thresholds.
- [4] A source of income is defined as "passive" if it is from a trade or business in which the taxpayer does not "materially participate," or if it is from a rental real estate activity. A taxpayer "materially participates" in an activity if he or she is involved on a regular, continuous and substantial basis in the operations of the activity.
- [5] The 1986 Act made an exception to the passive loss general rule for rental real estate activities. For taxpayers with a (modified) adjusted gross income of \$100,000 or less, up to \$25,000 in rental real estate losses was allowed to offset "active," i.e., nonpassive, income. (For married taxpayers filing separately and living separately for the entire year, the adjusted gross income limit was reduced to \$50,000 and the losses allowed reduced to \$12,500. Married taxpayers filing separately and living together for any part of the year were not eligible for the exception.) For taxpayers with adjusted gross income in excess of \$100,000, this \$25,000 exception was reduced by 50 percent of the income in excess of \$100,000; this effectively eliminated the \$25,000 exception for taxpayers with (modified) adjusted gross income of \$150,000 or more. All rental real estate losses in excess of the exception amount were subject to the same limitations on their deductibility as other passive losses.

For more information on limitations on the deductibility of passive losses, see Hostetter, Susan and Bates, Jeffrey, "Individual Income Tax Returns, Preliminary Data, 1987" Statistics of Income Bulletin, Spring 1989, Volume 8, Number 4; Middough, Joseph H., "Partnership Returns, 1987," Statistics of Income Bulletin, Volume 9, Number 3; Nelson, Susan and Petska, Tom, "Partnerships, Passive Losses, and Tax Reform," Statistics of Income Bulletin, Winter 1989-1990, Volume 9, Number 3, and Petska, Tom and Nelson, Susan, "Partnerships and Tax Shelters: An Analysis of the Impact of the 1986 Tax Reform," 1990 Proceedings of the American Statistical Association, Section on Survey Research Methods, 1991; and Petska, Tom, "Further Examination of Tax Shelters in the Post-Reform World," 1991 Proceedings of the American Statistical Association, Section

- on Survey Research Methods, 1992, and "Partnerships, Partners, and Tax Shelters After Tax Reform, 1987-1989," Statistics of Income Bulletin, Summer 1992, Volume 12, Number 1.
- [6] The Alaska Permanent Fund was created to return some of the royalties generated by the Alaska pipeline to the people of the State. Alaska Permanent Fund dividends are distributions from this fund to Alaskan residents.
- [7] "Backup withholding" is the system of withholding tax at a rate of 20 percent on interest, dividend or bond redemption income, or income from the sale of securities by the payer if the payee has not provided him or her with a correct taxpayer identification number, or certified to him or her that the payee is not subject to such withholding. Backup withholding may also occur if the payer is requested by the Internal Revenue Service to begin such withholding because the payee has persistently failed to properly report and pay taxes on interest or dividends.
- [8] For more information, see Hostetter, Susan and Bates, Jeffrey, "Individual Income Tax Returns, Preliminary Data, 1987," op. cit.
- [9] Details on how adjusted gross income was recalculated to match the 1979 concept for each year may be found in *Statistics of Income—Individual Income*Tax Returns for the year concerned.
- [10] The 1988 and 1989 tax rate schedules were published in the *Instructions for Preparing Form 1040*; they are reproduced in *Statistics of Income—Individual Income Tax Returns* for 1988 and 1989.
- [11] A taxpayer who did not remarry after the death of a spouse and who had a dependent living with him or her was allowed to use "qualifying widow(er) with dependent child" as his or her filing status if his or her spouse had died within 2 years prior to the tax year for which he or she was filing. Those who qualified for "qualifying widow(er) with dependent child" status could use the married filing jointly tax rates when calculating their tax.
- [12] Figure L, below, demonstrates the slightly different amounts of tax derived from tax rate schedules and tax tables for a single taxpayer with an AGI of \$25,000, one exemption and taking the standard deduction.

- [13] Total income tax did not include certain other taxes reported on the individual income tax return, such as self-employment tax (social security tax for self-employed persons), the social security tax on certain tip income, tax from recapture of prior-year investment or low-income housing credits, and tax on an Individual Retirement Arrangement (IRA) or a qualified retirement plan. These taxes were included in "total tax liability," which is also shown in Statistics of Income—Individual Income Tax Returns, for 1988 and 1989. For Tax Year 1988, total tax liability equaled \$430.7 billion and was reported on 89,001,467 returns. For Tax Year 1989, total tax liability equaled \$451.9 billion and was reported on 91,065,351 returns.
- [14] For an explanation of the osculatory interpolation technique, see Oh, H. Lock, "Osculatory Interpolation with a Monotonicity Constraint," 1977

 Proceedings of the American Statistical Association, Section on Statistical Computing, 1978.

Figure L

Example of the Income Tax Calculation for a Single Taxpayer Who Used the Standard Deduction, Tax Years 1988 and 1989

[Money amounts are in whole dollars]

Item	Amount
1988	
Adjusted gross income	25,000.00
Less: Exemption amount	1,950.00
Standard deduction amount	3,000.00
Equals: Taxable income	20,050.00
ax based on 1988 tax rates for single taxpayers:	
First \$17,850 of taxable income taxed at 15 percent	. 2,677.50
Next \$2,200 of taxable income taxed at 28 percent	616.00
Tax on \$20,075 of taxable income based on tax	
rate schedule for single taxpayers	3,293.50
fax based on 1988 tax table:	
Tax on \$20,055 of taxable income from the 1988	
tax table	3,301.00
Difference	7.50
1989	
Adjusted gross income	25,000.00
Less: Exemption amount	2,000.00
Standard deduction amount	3,100.00
Equals: Taxable income	19,900.00
Tax based on 1989 tax rates for single taxpayers:	
First \$18,550 of taxable income taxed at 15 percent	2,782.50
Next \$1,350 of taxable income taxed at 28 percent	378.00
Tax on \$19,900 of taxable income based on tax	
rate schedule for single taxpayers	3,160.50
Tax based on 1989 tax table:	
Tax on \$20,560 of taxable income from the	
1989 tax table	3,168.00
Difference	7.50

Appendix: General Definition of Marginal Tax Rate

When tax is calculated, different portions of taxable income may be taxed at different rates. To repeat the example presented earlier in this article, the first \$17,850 of taxable income on a single person's return was taxed at 15 percent for 1988; the first \$18,550 was taxed at that rate for 1989. If the taxpayer had more than \$17,850 in 1988 taxable income (\$18,550 for 1989), then the next \$25,300 (\$26,350 for 1989) was taxed at 28 percent. In general, the tax rate that applied to the last dollar of income earned (given certain assumptions about the order in which income-earning opportunities were undertaken) is called the "marginal tax rate" for that return.

The definition of marginal tax rate used in this article is not the only one possible. In general, the calculation of a marginal tax rate for a given return depends upon: (1) the type(s) of income (e.g., salaries and wages, or investment income on a dependent's return) reported on the return, which affects the type of tax computation used (e.g., use of the tax tables or tax rate schedules; or of Form 8615, used for dependents under age 14 with over \$1,000 in investment income; or of Form 6251, used to compute the alternative minimum tax); and (2) the order in which income was assumed to be "stacked." In cases where one considers how to rank or "stack" different types of income, some of which may be only partially subject to tax or which may be taxed at different rates, it is necessary to make some assumptions about which dollar was earned "last" in order to calculate the tax rate on the income earned from having taken advantage of the marginal or "last" economic opportunity. This calculation of the marginal rate may be complicated further by the alternative minimum tax. The addition of alternative minimum tax liability generated by taking advantage of the marginal income-earning opportunity over the "regular" tax generated by income from this opportunity may increase the effective marginal rate. Furthermore, the use of a credit generated by taking advantage of an opportunity may reduce the marginal tax rate.

Rather than adopt a particular set of beliefs about the order in which taxpayers undertake income-earning activities, income was ranked or stacked for *Statistics of Income* in a behavior-neutral fashion, by considering the amount taxed at the highest rate to contain the last dollar earned, with the exception of amounts over the ceiling for the 5 percent surtax. Returns which have taxable incomes within the ranges subject to the 5 percent surtax are considered to have a 33 percent marginal tax rate (28 percent plus the 5 percent surtax). Returns which have taxable incomes in excess of the largest amount on which

the 5 percent surtax was applied were considered to have a 28 percent marginal rate. This treatment is consistent with the analytical uses of marginal rates in testing hypotheses about the behavior of economic agents when faced with particular marginal rates. To the extent that the taxpayer can correctly predict that his or her income will be suffi-

ciently large to place him or her above the top of the 33 percent bracket, the decision to undertake an opportunity where the taxpayer expects to earn income beyond the point where income will be subject to the 5 percent surtax is affected by the 28 percent rate, not the 33 percent rate.

Table 1.—Returns With Modified Taxable Income: Tax Classified by Both the Marginal Rate and Each Rate at Which Tax Was Computed, Tax Year 1988

(All figures are estimates based on samples—money amounts are in thousands of dollars)

(All figures are estimates based on sample	s-money amo	unts are in thousa	inds of dollars)								7		
						All return	ıs			1			
			Class	ified by the highest m	narginal rate at whi	ch tax was computed				Classified by e	ach rate at which tax	was computed	
Tax rate classes			Modified taxa	able income	Tax ge	enerated	In	come tax after credi	ts				
rax rate classes	Number of	Adjusted						As a per	cent of	Number of	Income taxed	Income tax generated	
	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted gross income	Modified taxable income	returns	at rate	at rate	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
All marginal rates	90,186,916	3,031,603,960	2,073,889,949	1,331,100,678	417,502,019	292,246,037	411,769,989	13.6	19.9	90,186,916	2,073,889,949	417,531,969	
15 percent	63,901,793	1,209,022,798	647,741,725	647,741,725	97,130,916	97,161,259	93,256,178	7.7	14.4	89,434,924	1,283,857,598	192,578,640	
28 percent	22,226,008	1,095,564,463	809,363,401	248,560,485	153,717,377	69,596,936	152,676,114	13.9	18.9	25,151,706	355,233,883	99,465,487	
33 percent 1	2,925,698	321,744,304	256,632,026	74,850,886	65,835,164	24,700,793	65,587,855	20.4	25.6	2,925,698	74,850,886	24,700,793	
28 percent ¹	748,828 384,588	404,019,505 1,252,890	359,094,166 1,058,631	359,094,166 853,416	100,546,365 272,197	100,546,367 240,683	99,979,508 270,332	24.7 21.6	27.8 25.5	748,828 384,588	359,094,166 853,416	100,546,366 240,683	
	301,000	1,202,000	1,000,001	000,110	<u> </u>					30.1000			
		Joint returns and returns of surviving spouses											
		Classified by the highest marginal rate at which tax was computed								Classified by each rate at which tax was computed			
Tax rate classes			Modified taxa	ble income	Tax ge	enerated	In	ncome tax after credits		}			
	Number of	Adjusted						As a per	cent of	Number of	Income taxed	Income tax generated	
	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted gross	Modified taxable	returns	at rate	at rate	
						(40)	(10)	income	income				
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	
All marginal rates	42,444,543	2,110,432,061	1,455,060,353	917,330,358	300,095,144	208,974,391	296,593,545	14.1	20.4	42,444,543	1,455,060,353	300,107,587	
15 percent	26,549,433	738,575,331	390,946,238	390,946,238	58,629,218	58,641,936	56,670,497	7.7	14.5	41,916,260	848,109,333	127,216,400	
28 percent	13,455,394 1,911,433	799,311,614 248,561,033	579,516,783 196,330,070	179,218,819 58,898,040	110,226,418 50,524,675	50,181,269 19,436,353	109,334,042 50,258,208	13.7 20.2	18.9 25.6	15,366,827 1,911,433	259,785,719 58,898,040	72,740,001 19,436,353	
28 percent 1	528,283	323,984,083	288,267,262	288,267,262	80,714,833	80,714,833	80.330.798	24.8	27.9	528,283	288,267,262	80,714,833	
Form 8615	- 525.255	-	- 200,200	-		-	-	_	-	-		-	
		<u> </u>			Se	parate returns of hus	bands and wives						
			Class	ified by the highest n	narginal rate at whi	ch tax was computed	ı	-		Classified by e	ach rate at which tax	was computed	
			Modified taxe	able income	Tax g	enerated	In	come tax after credi	ts				
Tax rate classes	Number of	Adjusted				·		As a per	cent of	Number of	Income taxed	Income tax	
	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted	Modified	returns	at rate	generated at rate	
								gross income	taxable income		Į.		
7.00	(25)	(26)	(27)	(28)	(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	
All marginal rates	1,450,838	39,108,739	28,380,274	18,037,595	6,077,314	4,293,241	5,990,288	15.3	21.1	1,450,838	28,380,274	6,078,097	
15 percent	865,263	11,671,365	6,448,152	6,448,152	966,794	967,223	936,291	8.0	14.5	1,439,843	14,995,032	2,249,255	
28 percent	489,370	14,503,621	10,745,789	3,466,407	2,062,180	970,594	2,045,166	14.1	19.0	574,580	5,262,206	1,473,418	
33 percent 1	85,210 10,995	5,785,818 7,147,936	4,682,777 6,503,557	1,619,480 6,503,557	1,227,345 1,820,996	534,428 1,820,996	1,231,671 1,777,160	21.3 24.9	26.3 27.3	85,210 10,995	1,619,480 6,503,557	534,428 1,820,996	

Footnote(s) at end of table

Table 1.--Returns With Modified Taxable Income: Tax Classified by Both the Marginal Rate and Each Rate at Which Tax Was Computed, Tax Year 1988--Continued

(All figures are estimates based on samples—money amounts are in thousands of dollars)

	***					Returns of heads o	f households					
		· .	Class	fied by the highest n	narginal rate at whi	ch tax was computer	d ,			Classified by e	ach rate at which tax	was computed
Tax rate classes	f		Modified taxa	able income	Tax g	enerated	ir	ncome tax after cred	its			
• •	Number of	Adjusted				,		As a percent of		Number of .	Income taxed	Income tax
· .	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted gross income	Modified taxable income	returns	at rate	generated at rate
	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)
All marginal rates	7,872,362	181,089,806	102,097,472	76,754,891.	17,777,246	13,662,005	15,828,527	· 8.7	15.5	7,872,362	102,097,472	17,780,941
15 percent 28 percent 33 percent 28 percent Form 8615	6.896.636 893.448 64.707 17.572	127,120,133 39,281,255 6,756,681 7,931,738	60,807,475 28,757,656 5,501,319 7,031,022	60,807,475 7,404,244 1,512,150 7,031,022	9,117,836 5,275,800 1,414,924 1,968,686	9,121,121 2,073,188 499,010 1,968,686	7,287,940 5,178,816 1,413,849 1,947,922	5.7 13.2 20.9 24.6	12.0 18.0 25.7 27.7	7,854,791 958,155 64,707 17,572	83,707,377 9,846,922 1,512,150 7,031,022	12,556,107 2,757,138 499,010 1,968,686
•												
					**	Returns of single	e persons			•		
			Classi	fied by the highest m	narginal rate at whi	Returns of single			•	Classified by e	ach rate at which tax	was computed
Tax rate classes			Classi Modified taxa		· · · · · ·		1 ,	ncome tax after credi	its	Classified by ea	ach rate at which tax	was computed
Tax rate classes	Number of	Adjusted	T		· · · · · ·	ch tax was computed	1 ,	ncome tax after credi		Classified by ea	ach rate at which tax	încome tax
Tax rate classes	Number of returns	Adjusted gross income	T		· · · · · ·	ch tax was computed	1 ,	r		1		
Tax rate classes			Modified taxa	ble income	Tax ge	ch tax was computed	tr Total	As a per Adjusted gross	Modified taxable	Number of	Income taxed	income tax generated
Tax rate classes All marginal rates 15 percent	returns	gross income	Modified taxa	At marginal rate	Tax ge	ch tax was computed enerated At marginal rate	t , in	As a per Adjusted gross income	Modified taxable income	Number of returns	Income taxed at rate	income lax generated at rate

For 1988, the tax rate schedules contained only two basic rates. 15 percent and 28 percent. However, taxable income over certain levels were subject to an additional 5 percent tax, making for a temporary 33 percent marginal rate. The purpose of this was to phase out the benefit of the 15 percent rate and the benefit of the deduction of personal exemptions for tax payers and dependents. After these benefits were phased out, the marginal tax rate reverted to 28 percent—at that point, the average fax rate was also 28 percent.

Table 2.-Returns With Modified Taxable Income: Tax Generated by Rate and by Size of Adjusted Gross Income, Tax Year 1988

(All figures are estimates based on samples—money amounts are in thousands of dollars)

							Tax generated	d at specified rate			
Size of adjusted gross income	Number of returns	Taxable income	Modified taxable income	Tax generated at all rates		15 Percent			28 Percent		
	returns		income	at all rates	Number of returns	Modified taxable income	Tax generated at rate	Number of returns	Modified taxable income	Tax generated at rate	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	
Total	90,186,916	2,069,842,771	2,073,889,949	417,502,019	89,434,924	1,283,857,598	192,578,640	25,151,706	355,233,883	99,465,487	
Under \$2,000	1,984,169	689,164	694,537	115,060	1,984,169	592,123	88,818	_	_	_	
\$2,000 under \$4,000	2,220,239	1,485,218	1,469,505	236,661	2,217,382	1,296,363	194,454	_	_	_	
\$4,000 under \$6,000	2,957,422	3,983,428	3,889,283	596,983	2,957,422	3,789,561		-	-	_	
\$6,000 under \$8,000	4,017,592	9,014,049	8,879,083	1,343,329	4,017,592	8,792,643		-	_		
\$8,000 under \$10,000	4,341,482	15,305,677	15,064,322	2,257,601	4,341,482	15,064,322		_	-	_	
\$10,000 under \$12,000	4,803,554	21,169,307	21,023,229	3,151,196	4,803,554	21,023,229		_	_		
\$12,000 under \$14,000	5,137,676	29,979,141	29,813,230	4,475,743	5,137,676	29,778,875	4,466,831	-	-	_	
\$14,000 under \$16,000	5,004,077	37.510.185	37.296.678	5.597.446	5.004.077	37.255.694	5.588.354	*2,858	•529	*148	
\$16,000 under \$18,000	4,683,976	42,095,127	41,942,815	6,289,178	4,683,976	41,942,815	6,291,422	_	_	_	
\$18,000 under \$20,000	4,271,295	45,602,105	45,467,472	6.828.909	4,271,295	45,391,904	6.808.786	36,416	22,909	6,414	
\$20,000 under \$25,000	9,191,617	123,752,465	123,529,176	18,717,951	9,191,617	122,063,835	18,309,575	1,206,904	1,399,253	391,791	
\$25,000 under \$30,000	7,485,237	130,581,872	130,422,850	20,767,799	7,485,237	121,139,285	18,170,893	2,360,587	9,283,565	2,599,398	
\$30,000 under \$40,000	11,920,216	274,610,363	274,516,460	44,922,812	11,920,216	245,677,633	36,851,645	3,497,940	28,829,119	8,072,153	
\$40,000 under \$50,000	8,253,967	255,121,323	255,167,430	43,351,067	8,253,967	216,158,106	32,423,716	5,335,597	38,887,290	10,888,441	
\$50,000 under \$75,000	8.897.248	383.088.855	383,206,995	74.858.442	8.897.248	251,380,069	37,707,010	8.468.028	127.026.446	35,567,405	
\$75.000 under \$100.000	2,518,150	159.574.120	159,700,887	35,827,287	2,515,993	71,662,195		2.496.937	79.187.740	22 172 567	
\$100.000 under \$200.000	1.775.165	183,252,229	183,890,978	47.882.840	1,645,361	47,706,307	7,155,946	1,640,564	66,184,441	18,531,643	
\$200,000 under \$500,000	547.349	134.674.808	137,444,027	38,550,404	106,144	3,129,088		105,387	4,395,532	1,230,749	
\$500,000 under \$1,000,000	114.575	67.559.945	68,453,870	19.166.602	451	11,763		427	14,977	4.193	
\$1,000,000 or more	61,910	150,793,390	152,017,124	42,564,709	65	1.787		61	2,083	583	

		Tax generated at specified rate—Continued										
Size of adjusted gross income		33 Percent 1			28 Percent 1			Form 8615				
	Number of returns	Modified taxable income	Tax generated at rate	Number of returns	Modified taxable income	Tax generated at rate	Number of returns	Modified taxable income	Tax generated at rate			
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)			
Total	2,925,698	74,850,886	24,700,793	748,828	359,094,166	100,546,366	384,588	853,416	240,683			
Under \$2,000	_	_	-	-		_	231,466	102,414	26,490			
\$2,000 under \$4,000	_	-		_	_	_	97,158	173,142	42,970			
\$4,000 under \$6,000	_	-		_	_	-	28,576	99,722	29,879			
\$6,000 under \$8,000		-	_	-	_	- 1	14,288	*86,440	*26,344			
\$8,000 under \$10,000	_	-	_	_	_	_		_	_			
\$10,000 under \$12,000	_	-	_	_	_	_	-	-	-			
\$12,000 under \$14,000	_	_	_	_	_	_	2.858	*34,354	*11,336			
\$14,000 under \$16,000	_	_	_	_	_	_	2,858	*40,455	*11,328			
\$16,000 under \$18,000	web.	_	_	_	_	_	_	_	_			
\$18,000 under \$20,000	_	-	_	_	-	_	*2,858	*52,660	*15,748			
\$20,000 under \$25,000	_	_	_	-		_	*2,858	*66,088	*20,512			
\$25,000 under \$30,000	_	-			_	_	_	_	-			
\$30,000 under \$40,000	1,381	*9,708	*3.204	_	-	-	_	_	-			
\$40,000 under \$50,000	57,113	122,034	40,271	_	-	_	_	_	_			
\$50,000 under \$75,000	602,996	4,800,479	1,584,158	_	_	_	_		_			
\$75,000 under \$100,000	667,305	8,543,379	2,819,315	*2,157	*210,274	*58,877	*1,198	*97,298	*27,237			
\$100,000 under \$200,000 '	1,492,315	51,897,954	17,126,325	129,509	18,056,313	5,055,768	*295	*45,963	*13,281			
\$200,000 under \$500,000	104,202	9,453,730	3,119,731	441,205	120,430,826	33,720,631	*166	*34,851	9,935			
\$500,000 under \$1,000,000	343	20,941	6,911	114,124	68,406,190	19,153,733	~~	_	_			
\$1,000,000 or more	42	2,660	878	61,833	151,990,563	42,557,358	*11	120,031	*5,622			

^{*} Estimate should be used with caution because of the small number of sample returns on which it is based.

The 1988, the tax rate schedules contained only two basic rates. 15 percent and 28 percent. However, taxable income over certain levels were subject to an additional 5 percent tax, making for a temporary 33 percent marginal rate. The purpose of this was to phase out the benefit of the 15 percent rate and the benefit of the deduction for personal exemptions for taxpayers and dependents. After these benefits were phased out, the marginal lax rate reverted to 28 percent.—If that point, the average tax rate was also 28 percent.

NOTE: Detail may not add to total because of rounding.

Table 3.—Returns with Modified Taxable Income: Tax Classified by Both the Marginal Rate and Each Rate at Which Tax Was Computed, Tax Year 1989

(All figures are estimates based on sample	s-money amo	unts are in thousa	inds of dollars)		-							•
						All returns						
			Classi	lied by the highest ma	rginal rate at which I	tax was computed	:			Classified by	each rate at which tax	was computed
Tax rate classes		-	Modified tax	able income	Tax ge	nerated	Incor	me tax after credi	ts			
	Number of	Adjusted						As a perc	entage of	Number of	Income taxed	Income tax generated
	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted gross income	Modified taxable income	returns	at rate	at rate
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11) ,	(12)
All tax rates	92,211,584	3,199,434,253	2,177,433,197	1,367,570,697	436,431,173	299,240,398	432,028,341	13.5	19.8	92,211,584	.2,177,433,197	436,461,520
15 percent (Form 8814)	6,929	- 121,153	4,553	4,553	685	685	436	(')	9.6	118,127	68,653	10,30
5 percent	64,823,867	1,263,193,018	676,341,280	676,319,020	101,420,116	101,447,853	98,407,588	7.8	14.5	91,472,466	1,365,027,058	204,754,059
28 percent		1,181,277,573	871,952,773	268,550,771	165,704,644	75,194,216	165,537,375	14.0	19.0	26,299,751	389,641,132	109,099,51
33 percent ¹	3,188,030	366,926,905	291,151,511	. 84,898,453	74,696,124	28,016,490	74,357,785	20.3	25.5	3,188,030	84,898,453	28,016,490
28 percent ¹		386,753,400	336,779,614	336,776,419	94,297,877	94,297,397	93,395,351	24.1	. 27.7	729,455	336,776,419	94,297,397
Form 8615	351,582	1,404,509	1,203,466	1,021,481	311,726	283,757	329,807	23.5	27.4	351,582	1,021,481	283,75
					- Joint re	turns and returns of	surviving spouses	٠.	;		4	
			Classi	lied by the highest ma	rginal rate at which	tax was computed				Classified by	each rate at which tax	was computed
Tax rate classes			Modified tax	able income	Tax ge	nerated	Inco	me tax after credi	ts			
-	Number of	Adjusted						As a perc	entage of	Number of	Income taxed	Income tax
	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted gross	Modified taxable	returns	at rate	generated at rate
			'			1		income	income		•	
	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)
All tax rates	42,507,029	2,197,805,595	1,505,244,154	924,059,396	309,051,391	209,968,653	306,210,477	13.9	20.3	42,507,029	1,505,244,154	309,063,71
15 percent (Form 8814)	4,057	- 118,663	3,678	3,678	554	554	[.] 418	(')	11.4	100,042	60,886	9,137
15 percent	26,174,985	757,311,370	400,378,045	400,360,719	60,044,151	60,054,108	58,686,174	7.7	14.7	41,989.384	889,816,364	133,472,45
28 percent	13,726,201	851,346,479	615,740,799	190,886,939	117 176 645	53,448,343	116,565,660	13.7	18.9	15,814,399	282,558,844	79,116,47
33 percent ¹	2,088,198	282,381,788	221,898,298	65,587,821	57,007,911	21,643,981	56,778,254	20.1	25.6	2,088,198	65,587,821	21,643,98
28 percent ¹	513,587	306,884,621	267,223,335	267,220,239	74,822,131	74,821,667	74,179,971	24.2	27.8	513,587	267,220,239	74,821,66
Form 8615		. –	_			-		_	_		_	-
					Sepa	rate returns of husb	ands and wives					
			Classi	fied by the highest ma	ginal rate at which t	lax was computed				· Classified by	each rate at which tax	was computed
Tax rate classes			Modified tax	able income	Tax ge	nerated	Incor	me tax after credi	ts ·].	j
	Number of	Adjusted					,	As a perc	entage of	Number of	. Income taxed	Income tax
•	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted	Modified	returns	at rate	generated at rate
			•				, i	gross income	taxable income			
	(25)	(26)	(27)	(28)	(29)	(30)	(31)	·(32)	(33)	(34)	(35) .	(36)
III tax rates	1,786,665	48,094,237	34,019,136	22,291,877	7,238,969	5,207,507	7,152,710	14.9	21.0	1,786,665	34,019,136	7,239,961
5 percent (Form 8814)	••		••	••	****		••	••	•••	1 732	•64	•9
15 percent	**1,154,104	16,035,832	**8,794,966	**8,794,965	1,318,710	1 319,244	**1,325,152	8.3	**15.1	1,776,035	18,419,354	2,762,903
28 percent	526,132	16,640,675	12,264,614	4,122,667	2,375,251	1,154,347	2,363,406	14.2	19.3	621,932	6.225,472	1,743,132
33 percent ¹	95,800	7,139,867	5,767,851	2,182,544	1,531,331	720,240	1,518,474	21.3	26.3	95,800	2,182,544	720,240
28 percent ¹	10,629	8,277,863	7,191,705	7,191,701	2,013,677	2,013,676	1,945,678	23.5	27.1	10,629	7,191,701	2,013,676
Form 8615	_	' –	• –	_ '		-	. <u>-</u>			i –	_	

Footnote(s) at end of table.

Table 3.-Returns with Modified Taxable Income: Tax Classified by Both the Marginal Rate and Each Rate at Which Tax Was Computed, Tax Year 1989--Continued

(All figures are estimates based on samples—money amounts are in thousands of dollars)

						Returns of heads of	of households					
			Clas	sified by the highest i	marginal rate at whic	h tax was computed				Classified by	each rate at which tax	was computed
Tax rate classes			Modified tax	able income	Tax ger	nerated	Incor	ne tax after credit	ts			
var vale diagon	Number of	Adjusted						As a perc	entage of	Number of	Income taxed	Income tax
	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted gross income	Modified taxable income	returns	at rate	generated at rate
	(37)	(38)	(39)	(40)	(41)	(42)	(43)	(44)	(45)	(46)	(47)	(48)
All tax rates	8,214,230	193,863,734	108,717,603	80,551,103	18,855,144	14,295,404	17,103,047	8.8	15.7	8,214,230	108,717,603	18,858,560
15 percent (Form 8814) 15 percent 28 percent 33 percent ¹ 28 percent ¹ Form 8615	*1,511 7,166,637 962,393 66,109 17,580	717 135,218,649 43,559,660 7,326,560 7,758,148	*756 64,112,105 32,079,300 5,747,083 6,778,359	756 64,107,171 8,162,393 1,502,517 6,778,265	*113 9,613,367 5,873,039 1,470,696 1,897,929	113 9,616,076 2,285,470 495,831 1,897,914	*(2) 7,952,404 5,824,096 1,461,454 1,865,092	*(3) 5.9 13.4 19.9 24.0	*(3) 12.4 18.2 25.4 27.5	14,992 8,195,139 1,028,502 66,109 17,580	7,584 89,665,443 10,763,793 1,502,517 6,778,265	1,137 13,449,816 3,013,862 495,831 1,897,914
						Returns of sings	le persons					
(Clas	sified by the highest i	marginal rate at which	h tax was computed				Classified by	each rate at which tax	was computed

						Returns of sing	de persons					
			Class	sified by the highest r	marginal rate at whic	h tax was computed	I			Classified by	each rate at which ta	k was computed
Tax rate classes			Modified tax	able income	Tax gen	nerated	inco	me tax after credi	ts			
	Number of	Adjusted			-			As a perc	entage of	Number of	Income taxed	Income tax
	returns	gross income	At all rates	At marginal rate	At all rates	At marginal rate	Total	Adjusted gross income	Modified taxable income	returns	at rate	generated at rate
	(49)	(50)	(51)	(52)	(53)	(54)	(55)	(56)	(57)	(58)	(59)	(60)
All tax rates	39,703,659	759,670,687	529,452,303	340,668,319	101,285,669	69,768,834	101,562,108	13.4	19.2	39,703,659	529,452,303	101,299,284
15 percent (Form 8814)	**	•••	••	••	**	••	••	••	••	*1,360	*118	18
15 percent	**30,329,500		**203,056,283	**203,056,283	**30,458,443	**30,458,443	30,443,877	**8.6	**15.0	39,511,908	367,125,897	55,068,885
28 percent	7,896,997	269,730,759	211,868,060	65,378,772	40,279,709	18,306,056	40,784,213	15.1	19.2	8,834,919	90,093,023	25,226,046
33 percent ¹	937,922	70,078,690	57,738,279	15,625,571	14,686,187	5,156,438	14,599,603	20.8	25.3	937,922	15,625,571	5,156,438
28 percent ¹		63,832,768	55,586,215	55,586,214	15,564,140	15,564,140	15,404,609	24.1	27.7	187,658	55,586,214	15,564,140
Form 8615	351,582	1,404,509	1,203,466	1,021,481	311,726	283,757	329,807	23.5	27.4	351,582	1,021,481	283,757

Estimate should be used with caution because of the small number of sample returns on which it is based.
 (1) Percentage not computed.
 (2) Less than \$500.

⁽³⁾ Less than \$500.
(3) Less than 0.05 percent.

** Data combined to avoid disclosure of information for specific taxpayers.

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** For 1989, the tax rate schedules contained only two basic rates: 15 percent and 26 percent. However, taxable income over certain levels was subject to an additional 5 percent tax, creating a temporary 33 percent marginal rate. The purpose behind this was to phase out the benefit of the 15 percent rate and the benefit of the deduction for personal exemptions for taxpayers and dependents. After these benefits were phased out, the marginal tax rate returned to 28 percent; the average tax rate was also 28 percent.

NOTE: Detail may not add to totals because of rounding.

Table 4.--Returns with Modified Taxable Income: Tax Generated by Rate and by Size of Adjusted Gross Income,

(All figures are estimates based on samples—money amounts are in thousands of dollars)

	¥			April Style 1			Tax genera	ated at specified ra	te	
	Number of returns	, m.A	Modified taxable	Tax generated	15 Pe	rcent (from Form	8814)	r _{2.}	15 Percent	
Size of adjusted gross income	with modified taxable income	Taxable income	income	, at all rates	Number of returns	Income taxed at rate	Tax generated at rate	Number of returns	Income taxed at rate	Tax generated at rate
2	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
Total	92,211,584	2,173,345,607	2,177,433,197	436,431,173	118,127	68,653	10,301	91,472,466	1,365,027,058	204,754,059
Under \$2,000 \$2,000 under \$4,000 \$4,000 under \$6,000 \$6,000 under \$6,000 \$8,000 under \$10,000 \$10,000 under \$12,000 \$12,000 under \$14,000 \$14,000 under \$16,000 \$16,000 under \$18,000 \$18,000 under \$20,000 \$20,000 under \$25,000 \$25,000 under \$30,000 \$30,000 under \$30,000	5,255,305 4,833,886 4,673,038 4,379,375 9,215,631 7,560,712 12,062,779	657,726 1,398,650 3,477,958 8,319,790 13,660,363 21,653,514 30,064,596 35,498,553 41,875,045 46,542,828 122,363,183 131,904,440 278,320,160	658,799 1,403,211 3,473,458 8;300,702 13,636,822 21,632,159 30,045,504 35,478,845 41,842,930 46,520,586 122,347,800 131,912,855 278,350,440	106,413 226,075 531,678* 1,259,760 2,057,196 3,246,164 4,507,842 5,319,472 6,274,210 6,980,469 18,436,508 20,914,418 45,652,790	1,605 1,515 1,507 - 913 - 1,358 - 3,014 6,964 2,866 13,106	254 758 1.914 — 457 — 1.152 — 1.878 3.227 1.201 7,732	38 1114 288 	1,900,181 2,147,351 2,788,115 4,000,530 3,988,253 5,001,859 5,255,305 4,832,527 4,673,038 4,379,375 9,215,631 7,559,204 12,062,779	590,036 1,242,386 3,376,808 8,163,861 13,542,126 21,587,189 30,015,547 35,477,693 41,842,930 46,484,570 121,669,950 123,271,452 248,309,841	88,505 186,358 506,521 1,224,579 2,031,319 3,238,078 4,502,332 5,321,654 6,276,440 6,972,685 18,250,493 18,490,718 37,246,476
\$40,000 under \$50,000 \$50,000 under \$75,000 \$75,000 under \$100,000 \$100,000 under \$200,000 \$200,000 under \$500,000 \$500,000 under \$1,000,000 \$1,000,000 or more	8,566,122 9,906,175 3,055,245 2,086,857 611,757 115,396 57,476	263,107,712 424,581,970 193,047,596 212,184,703 146,390,252 66,881,786 131,414,782	263,170,933 424,699,354 193,148,326 212,528,061 148,944,159 67,568,223 131,770,029	44,319,430 81,575,413 42,800,332 54,629,213 41,780,219 18,918,235 36,895,335	15,611 31,668 12,060 16,972 7,330 1,102 535	8,836 17,433 9,006 8,177 5,606 686 338	1,325 2,616 1,350 1,227 841 103 51	9,906,175 3,054,116 1,975,757 165,358 670 118	225,897,799 289,014,823 90,269,179 59,181,617 5,067,640 18,132 3,479	33.884,670 43.352,223 13,540,377 8,877,243 - 760,146 - 2,720 522

\$1,000,000 or more	37,470	131,414,	762 131,7	70,025	30,033,333	333	000	1 3'			0,110	
					Tax gen	erated at specific	ed rate—Contin	ued		-		
Sine of adjusted areas income	. 91	28 Percent		v.	33 Percent 1			28 Percent 1			Form 8615	
Size of adjusted gross income	Number of returns	Income taxed at rate	Tax generated at rate	Number of returns	Income taxed at rate	Tax generated at rate	Number of returns	income taxed at rate	Tax generated at rate	Number of returns	Income taxed at rate	Tax generated at rate
	(11)	(12)	(13)	(14)	(15)	(16)	(17)	· (18)	(19)	(20)	(21)	:(22)
Total	26,299,751	389,641,132	109,099,517	3,188,030	84,898,453	28,016,490	729,455	336,776,419	94,297,397	351,582	1,021,481	283,757
Under \$2,000 \$2,000 under \$4,000 \$4,000 under \$6,000 \$6,000 under \$8,000 \$8,000 under \$10,000			- 				- - - -			177,016 97,226 24,421 23,791 *12,056	68,510 160,068 94,736 136,841 *94,695	18,349 40,411 26,109 37,004 27,826
\$10,000 under \$12,000 \$12,000 under \$14,000	- Z		· <u>-</u>	<u>-</u>			. =.	·	. –	*4,521 *2,443	*44,514 *29,957	*10,387 *8,003
\$14,000 under \$16,000 \$16,000 under \$18,000 \$18,000 under \$20,000 \$20,000 under \$25,000 \$25,000 under \$30,000 \$30,000 under \$40,000 \$40,000 under \$50,000	7,387 797,290 2,510,248 3,683,792 4,934,874	*6,521 612,086 8,600,978 29,981,192 37,241,512	1,826 171,384 2,408,274 8,394,734 10,427,623		22,786	- - - - - 7,519	111111		TIFFTER	*1.507 *3,014 *1,507 *1,724	27,618 62,537 39,224 51,674	77,734 *18,247 *17,681 *14,491
\$50,000 under \$75,000 \$75,000 under \$100,000 \$100,000 under \$200,000 \$200,000 under \$500,000 \$500,000 under \$1,000,000 \$1,000,000 or more	9,208,855 3,024,109 1,968,566 163,889 636 107	130,986,955 93,572,571 81,526,620 7,085,047 23,329 4,322	36,676,347 26,200,320 22,827,453 1,983,813 6,532 1,210	1,734,887 160,099 644	9,118,340 56,327,497 14,707,565	1,544,447 3,009,052 18,588,074 4,853,496 13,900	111,028 446,371 114,701 57,355	15,470,698 ;122,078,301 67,473,877 131,753,543	4,331,795 34,181,924 18,892,686 36,890,992	*2,258 *72 - *25	179,231 13,453 	49,235 3,426

^{*} Estimate should be used with caution because of the small number of sample returns on which it is based.

¹ For 1989, the tax rate schedules contained only two basic rates: 15 percent and 28 percent. However, taxable income over certain levels was subject to an additional 5 percent tax, creating a temporary 33 percent marginal rate. The purpose behind this was to phase out the benefit of the 15 percent rate and the benefit of the deduction for personal exemptions for tax payers and dependents. After these benefits were phased out, the marginal tax rate reverted to 28 percent, the average tax rate was also 28 percent.

Table 5.--Returns with Positive Adjusted Gross Income (AGI): Number of Returns, Shares of AGI and Total Income Tax, AGI Floor on Percentiles in Current and Constant Dollars, and Average Tax Rates, by Selected Descending Income Percentiles Based on the Definition of AGI for Each Year, Tax Years 1980-1989 [All figures are estimates based on samples]

			Adjusted gro	ss income percentile	s (cumulative)	
item, tax year	Total	Тор	Тор	Тор	Тор	Тор
		1 percent	5 percent	10 percent	25 percent	50 percen
	(1)	(2)	(3)	(4)	(5)	(6)
umber of returns: 1						
1980	93,238,823	932,388	4,661,941	9,323,882	23,309,706	46 619,41
1981	94,586,878	945,869	4,729,344	9,458,688	23,646,719	47,293,43
1982	94,426,498	944,265	4,721,325	9,442,650	23,606,624	47,213,24
1983		953,307	4,766,536	9,533,071	23,832,678	47,665,35
1984		984,350	4,921,750	9,843,500	24,608,750	49,217,50
1985		1,006,255	5,031,274	10,062,548	25,156,371	50,312,74
1986		1,020,876	5,104,381	10,208,762	25,521,906	51,043,81
1987		1,020,876	5,307,738	10,615,476	26,538,690	
		· ·				53,077,38
1988		1,088,729 1,113,127	5,443,643 5,565,636	10,887,286 11,131,272	27,218,214 27,828,181	54,436,42 55,656,36
djusted gross income floor on percentiles		1,110,127	0,000,000	11,101,272	27,020,101	00,000,00
(current dollars):						
1980	N/A	80,580	43,792	35,070	23,606	12,93
1981		85,428	47.845	38,283	25.655	14.00
1982		89,388	49,284	39,676	27.027	14,53
1983		93,512	51,553	41,222	27,827	15,04
1984		100,889	55,423	43,956	29,360	15,99
1985		108,134	58,883	46,322	30,928	16,68
1986		118,818	62,377	48,656	32,242	17,30
1987		139,289	68,414	52,921	33,983	17,76
1988	N/A	157,136	72,735	55,437	35,398	18,36
1989	N/A	163,869	76,933	58,263	36,839	18,993
djusted gross income floor on percentiles			}	ļ		
(1982-84 constant dollars): 2						
1980		97,792	53,146	42,561	28,648	15,699
1981		93,979	52,634	42,115	28,223	15,40
1982		92,633	51,073	41,116	28,008	15,067
1983	N/A	93,886	51,759	40,387	27,938	15,10
1984	N/A	97,106	53,345	42,308	28,259	15,39
1985	N/A	100,500	54,726	43,052	28,744	15,510
1986	N/A	108,410	56,913	44,394	29,418	15,780
1987		122,616	60,225	46,586	29,915	15,64
1988		132,827	61,483	46,861	29,922	15.52
1989		131,613	61,866	46,846	29,567	15,166
djusted gross income (millions of dollars): ²	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	101,010	31,000	,.	20,007	10,700
1980	1,626,555	137,668	341,790	522,685	922,300	1,338,978
1981	1,791,116	148,722	372,171	572,719	1,015,006	1,473,267
1982		167,109	398,189	605,159	1,065,241	1,543,634
1983		182,895	428,162	645,661	1,127,019	1,625,287
1984		209,899	482,266	722,552	1,250,911	1,794,303
1985		235,095	531,372	791,481	1,358,860	1,939,351
1986		285,197	608,467	886,510	1,490,173	2,103,569
	2,813,728	346,635	722,221	1,038,221	1,709,389	2,373,869
1987	7					
1988	3,124,156	473,527 468,079	890,702 918,421	1,232,536 1,286,539	1,950,860	2,657,865

Table 5.—Returns with Positive Adjusted Gross Income (AGI): Number of Returns, Shares of AGI and Total Income Tax, AGI Floor on Percentiles in Current and Constant Dollars, and Average Tax Rates, by Selected Descending Income Percentiles Based on the Definition of AGI for Each Year, Tax Years 1980-1989—Continued

[All figures are estimates based on samples]

			Adjusted gro	ss income percentile	s (cumulative)	oumulative)		
item, tax year	Total	Тор	. Top	Top 10 percent	Top 25 percent	Top 50 percent		
		1 percent	5 percent	<u>-</u>		· · · · · · · · · · · · · · · · · · ·		
	(1)	(2)	(3)	(4)	(5)	(6)		
otal income tax (millions of dollars): 4			l	100 700	100.000	000 000		
1980		48,270	92,773	123,799	182,966	232,662		
1981		50,820	100,423	136,928	205,665	262,913		
1982	277,470	53,528	100,958	135,394	201,466	257,160		
1983	274,056	56,806	103,350	137,256	200,897	254,561		
1984		65,707	116,512	154,142	222,515	279,574		
1985	325,525	72,581	127,880	168,907	241,887	302,401		
1986	366,979	94,491	156,240	200,703	278,976	343,289		
1987	369,046	91,559	159,642	205,230	283,857	346,655		
1988		113,841	188,303	236,411	321,297	389,145		
1989		109,259	190,188	241,458	334,258	407,599		
verage tax rate (percentage): 5						: .		
1980	15.38	35.06	27.14	23.69	19.84	17:38		
1981		34.17	26,98	23.91	20.26	17.85		
1982		32.03	25.35	22.37	18.91	16.66		
1983		31.06	24.14	21.26	17.83	15.66		
1984		31.30	24.16	21.33	17.79	15.58		
		30.87	24.07	21.34	17.80	15.59		
1985		33.13	25.68	22.64	18.72	16.32		
1986			22.10	19.77	16.61	14.60		
1987		26.41	, ——·,	19.77	16.47	14.64		
1988		24.04	21:14		16.27	14.53		
1989	13.12	23.34	20.71	18.77	10.27	14.55		
djusted gross income share (percentage):			l'					
1980	100.00	8.46	21.01	32.13	56.70	82.32		
1981	100.00	8.30	20.78	31.98	56.67	82.25		
1982	100.00	8.91	-21.23	32.26	56.79	82.29		
1983	100.00	9.29	21.74	32.78	57.22	82.52		
1984	100.00	9.66	22.19	33.25	57.56	82.56		
1985		10.03	22.67	33.77	57.97	82.74		
1986		11.30	24.11	35.12	59.04	83.34		
1987		12.32	25.67	36.90	60.75	84.37		
1988		15.16	28.51	39.45	62.44	85.07		
1989		14.19	27.84	39.00	62.28	85.04		
otal income tax share (percentage):						,		
1980	100.00	19.29	37.07	49.47	73.12	92.98		
1981		17.89	35.36	48.22	72.42	92.58		
1982		19.29	36.39	48.80	72.61	92.68		
1983		20.73	37.71	50.08	73.31	92.89		
		21.79	38.64	51.12	73.80	92.73		
1984				51.89	74.31	92.90		
1985		22.30	39.28		76.02	92.50		
1986		25.75	42.57	54.69				
1987		24.81	43.26	55.61	76.92	93.93		
	1 400.00	1 07.50	45.62	57.28	77.84	94.28		
1988	100.00	27.58 25.24	43.94	55.78	77.22	94.17		

Table 6.—Returns with Positive Adjusted Gross Income (AGI): Number of Returns, Shares of AGI and Total Income Tax, AGI Floor on Percentiles, and Average Tax Rates, by Selected Ascending Income Percentiles Based on the Definition of AGI for Each Year, Tax Years 1980-1989
[All ligures are estimates based on samples]

			Adjusted gross income percentiles (cumulative)						
item, tax year	Total	Bottom	Bottom	Bottom	Bottom	Bottom			
		99 percent	95 percent	90 percent	75 percent	50 percent			
	(1)	(2)	(3)	(4)	(5)	(6)			
umber of returns: 1				l					
1980	93,238,823	932,388	4,661,941	9,323,882	23,309,706	46,619,41			
1981	94,586,878	945,869	4,729,344	9,458,688	23,646,719	47,293,43			
1982	94,426,498	944,265	4,721,325	9,442,650	23,606,624	47,213,24			
1983	95,330,713	953,307	4,766,536	9,533,071	23,832,678	47,665,35			
1984	98,435,000	984,350	4,921,750	9,843,500	24,608,750	49,217,50			
1985	100,625,484	1,006,255	5,031,274	10,062,548	25,156,371	50,312,74			
1986	102,087,623	1,020,876	5,104,381	10,208,762	25,521,906	51,043,81			
1987	106,154,761	1,061,548	5,307,738	10,615,476	26,538,690	53,077,38			
1988	108,872,859	1,088,729	5,443,643	10,887,286	27,218,214	54,436,42			
1989	111,312,721	1,113,127	5,565,636	11,131,272	27,828,181	55,656,36			
djusted gross income (millions of dollars): 1	Í								
1980	1,626,555	1,488,886	1,284,765	1,103,869	704,255	287,57			
1981	1,791,116	1,642,393	1,418,945	1,218,397	776,110	317,84			
1982	1,875,872	1,708,762	1,477,682	1,270,713	810,630	332,23			
1983	1,969,600	1,786,705	1,541,438	1,323,939	842,581	344,31			
1984	2,173,228	1,963,329	1,690,962	1,450,676	922,317	378,92			
1985	2,343,989	2,108,894	1,812,617	1,552,508	985,129	404,63			
1986	2,524,124	2,238,927	1,915,657	1,637,614	1,033,951	420,55			
	2,813,728	2,467,093	2,091,507	1,775,506	1,104,338	439,85			
1987	3,124,156		2,091,507	1,891,620	1,173,296	466.29			
1988	3,124,156	2,650,629 2,830,779	2,233,454 2,380,437	2,012,319	1,244,380	493,62			
1989	3,290,000	2,030,779	2,360,437	2,012,319	1,244,300	493,02			
otal income tax (millions of dollars): 4'	050.040	201 071	157.407	100 441	67,274	17 57			
1980	250,240	201,971	157,467	126,441		17,57			
1981	283,993	233,173	183,570	147,065	78,329	21,08			
1982	277,470	223,942	176,512	142,076	76,005	20,31			
1983	274,056	217,250	170,706	136,799	73,159	19,49			
1984	301,504	235,797	184,992	147,362	78,990	21,93			
1985	325,525	252,944	197,645	156,618	83,638	23,12			
1986	366,979	272,488	210,739	166,276	88,002	23,69			
1987	369,046	277,488	209,404	163,816	85,189	22,39			
1988	412,761	298,920	224,459	176,350	91,464	23,61			
1989	432,838	323,579	242,650	191,380	98,580	25,23			
verage tax rate (percentage): 5									
1980	15.38	13.57	12.26	11.45	9.55	6.1			
1981	15.86	14.20	12.94	12.07	10.09	6.6			
1982	14.79	13.11	11.95	11.18	9.38	6.1			
1983	13.91	12.16	11.07	10.33	8.68	5.6			
1984	13.87	12.01	10.94	10.16	8.56	5.79			
1985	13.89	11.99	10.90	10.09	8.49	5.7			
1986	14.54	12.17	11.00	10.15	8.51	5.6			
1987	13.12	11.25	10.01	9.23	7.71	5.0			
1988	13.21	11.28	10.05	9.32	7.80	5.0			
1989	13.12	11,43	10.19	9.51	7.92	5.1			
	13.12	''.~	10.15	3.5,	7.52	5.1			
djusted gross income share (percentage):	100.00	01.54	70.00	67.07	42.20	17.6			
1980	100.00	91.54	78.99	67.87	43.30	17.6			
1981	100.00	91.70	79.22	68.02	43.33	17.7			
1982	100.00	91.09	78.77	67.74	43.21	17.7			
1983	100.00	90.71	78.26	67.22	42.78	17.4			
1984	100.00	90.34	77.81	66.75	42.44	17.4			
1985	100.00	89.97	77.33	66.23	42.03	17.2			
1986	100.00	88.70	75.89	64.88	40.96	16.6			
1987	100.00	87.68	74.33	63.10	39.25	15.6			
1988	100.00	84.84	71.49	60.55	37.56	14.9			
1989	100.00	85.81	72.16	61.00	37.72	14.9			
otal income tax share (percentage):									
1980	100.00	80.71	62.93	50.53	26.88	7.0			
1981	100.00	82.11	64.64	51.78	27.58	7.4			
1982	100.00	80.71	63.61	51.20	27.39	7.3			
1983	100.00	79.27	62.29	49.92	26.69	7.1			
1984						7.1			
	100.00	78.21	61.36	48.88	26.20				
1985	100.00	77.70	60.72	48.11	25.69	7.1			
1986	100.00	74.25	57.43	45.31	23.98	6.4			
1987	100.00	75.19	56.74	44.39	23.08	6.0			
1988	100.00	72.42	54.38	42.72	22.16	5.72			
1989	100.00	74.76	56.06	44.22	22.78	5.8			

N/A--Not applicable.

NOTE: Detail may not add to totals because of rounding.

¹ The number of returns with negative adjusted gross income, i.e., returns with an adjusted gross deficit, and the corresponding amounts for adjusted gross deficit, were excluded from Tables 5 and 6. By excluding deficit returns, alternative minimum tax reported on some of these returns was also excluded. For Tax Year 1990, there were 5,329 returns with no adjusted gross income that reported alternative minimum tax totaling \$41.0 million.

² Constant dollar estimates were based on the Consumer Price Index (all items) 1982-1984=100, computed by the Bureau of Labor Statistics, U.S. Department of Labor, and published in the Economic Report of the President, February 1992.

³ See footnote 1.

⁴ Total income tax is the sum of income tax after credits and alternative minimum tax reported on returns that a showed a positive amount for adjusted gross income. Therefore, total income tax excludes alternative minimum tax reported on some returns with a negative amount for adjusted gross income. See also footnote 1.

⁵ Average tax rate was computed by dividing total income tax (see footnote 4) by (positive) adjusted gross income.

Table 7.—All Returns: Number of Returns, Shares of Adjusted Gross Income (AGI) and Total Income Tax, AGI Floor on Percentiles in Current and Constant Dollars, and Average Tax Rates, by Selected Descending Income Percentiles Based on the 1979 Definition of AGI, Tax Years 1985-1989

[All figures are estimates based on samples]

•				Adjusted gross income percentiles (cumulative)								
	Item, tax year		Total	Тор	-Тор	Тор	Тор	Тор				
				1 percent	5 percent	10 percent	25 percent	50 percent				
* * *	:		(1)	(2)	(3)	(4)	(5)	(6)				
lumber of returns: 1												
1985			101,661,000	1,016,610	5,083,050	10,166,100	25,415,250	50,830,500				
1986			103,045,000	1,030,450	5,152,250	10,304,500	25,761,250	51,522,500				
1987			106,994,000	1,069,940	5,349,700	10,699,400	26,748,500	53,497,000				
1988			109,709,000	1,097,090	5,485,450	10,970,900	27,427,250	54,854,500				
1989			112,133,000	1,121,330	5,606,650	11,213,300	28,033,250	56,066,500				
djusted gross incor	me floor on percenti	les .										
(current whole dol					**							
1985			N/A	124,962	63,126	48,664	31,753	16,951				
1986			N/A	147,970	68,058	51,848	33,304	17,651				
1987			N/A	144,820	68,990	52,926	33,994	17,760				
			N/A	160,947	73,105	55,425	35,237	18,362				
			N/A	169,460	77,318	58,211	36,652	18,959				
djusted gross incor							[· · · · ·	11 142 15				
(1982-84 constant	whole dollars): 2				50.000	45.000		45.754				
1985			N/A	116,140	58,669	45,228	29,511	15,754				
			N/A	135,008	62,096	47,306	30,387	16,105				
			, N/A	127,485	60,732	46,591	29,925	15,634				
	·····		N/A	136,048	61,796	46,851	29,786	.15,521				
1989			N/A	136,669	62,357	46,947	29,560	15,290				
djusted gross incor												
1985			2,487,384	309,327	638,986	917,620	1,512,627	2,113,168				
1986			2,753,688	429,393	800,547	1,103,026	1,741,211	2,377,981				
10° 41.00			2,813,525	364,909	752,112	1,071,761	1,748,543	2,418,826				
1988			3,106,549	485,818	914,122	1,259,567	1,980,128	2,691;199				
1989			3,286,358	488,655	950,515	1,322,394	2,092,555	2,846,169				
otal income tax (mil			•		,		* .					
1985			325,710	71,841	128,546	168,452	242,082	301,937				
1986:			367,287	93,581	156,695	200,026	278,686	342,511				
1987			369,203	90,452	159,684	205,420	283,813	346,406				
1988			412,870	113,095	187,454	236,702	321,338	388,843				
1989			432,940	108,372	188,883	242,297	333,678	407,418				
verage tax rate (per	centage): 4											
1985			13.09	23.22	20.12	18.36	16.00	14.29				
1986			13.34	21.79	19.57	18.13	16.01	14.40				
1987			13.12	24.79	21,23	19.17	16.23	14.32				
			13.29	23.28	20.51	18.79	16.23	14.45				
			13.17	22.18	19.87	18.32	15.95	14.31				
djusted gross incom		·	10.11	22	10.0.		10.00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
	ne snare (percentag		100.00	12.44	25.69	36.89	60.81	84.96				
			100.00	15.59	29.07	40.06 38.09	63.23	86.36				
			100.00	12.97	26.73	38.09 40.55	62.15	85.97				
			100.00 100.00	15.64 14.87	29.43 28.92	40.55 40.24	63.74 63.67	86.63 86.61				
		•	100.00	14.07	20.52	40.24		60.01				
otal income tax sha - 1005	re (percentage):		100.00	22.06	39.47	51.72	74.32	92.70				
			100.00	25.48	42.66	54.46	75.88 76.97	93.25				
	<u></u>		100.00	24.50	43.25	55.64	76.87	93.83				
			100.00	27.39	45.40	57.33	77.83	94.18				
1989			100.00	25.03	43.63	55.97	77.07	94.11				

Footnotes at the end of Table 8.

Table 8.--All Returns: Number of Returns, Shares of Adjusted Gross Income (AGI) and Total Income Tax, AGI Floor on Percentiles, and Average Tax Rates, by Selected Ascending Income Percentiles Based on the 1979 Definition of AGI, Tax Years 1985-1989

IAtt tigures are estimates based on samplest

			Adjusted gros	ss income percentile	s (cumulative)	
Item, tax year	Total	Bottom	Bottom	Bottom	Bottom	Bottom
• •		99 percent	95 percent	90 percent	75 percent	50 percent
	(1)	(2)	(3)	(4)	(5)	(6)
Number of returns: 1	······································					
1985	101,661,000	100.644.390	96,577,950	91,494,900	76,245,750	50,830,500
1986		102,014,550	97.892.750	92,740,500	77,283,750	51,522,500
1987		105,924,060	101,644,300	96,294,600	80.245.500	53,497,000
1988		108,611,910	104,223,550	98,738,100	82,281,750	54,854,50
1989		111,011,670	106,526,350	100,919,700	84,099,750	56,066,50
Adjusted gross income (less deficit)						
(millions of dollars):						
1985	2,487,384	2,178,056	1,848,397	1,569,763	974,756	374,21
1986	2,753,688	2,324,294	1,953,140	1,650,661	1,012,476	375,70
1987	2,813,525	2,448,616	2,061,413	1,741,764	1,064,982	394,69
1988	3,106,549	2,620,734	2,192,430	1,846,985	1,126,424	415,35
1989		2,797,670	2,335,810	1,963,931	1,193,770	440,15
otal income tax (millions of dollars): 2						
1985		253,870	197,165	157,259	83,629	23,77
1986	367,287	273,706	210,592	167,261	88,601	24,77
1987	369,203	278,751	209,519	163,783	85,390	22,79
1988	412,870	299,775	225,416	176,168	91,532	24,02
1989	432,940	324,566	244,055	190,641	99,260	25,52
Average tax rate (percentage): 4	1		10.07	. 40.00	8.58	6.3
1985		11.66	10.67	10.02	1	6.5
1986		11.78	10.78	10.13	8.75	
1987	8	11.38	10.16	9.40	8.02	5.7
1988		11.44	10.28	9.54	8.13	5.7
1989	13.17	11.60	10.45	9.71	8.31	5.8
Adjusted gross income (less deficit) share						
(percentage):	100.00	87.56	74.31	63.11	39.19	15.0
1985		84.41	70.93	59.94	36.77	13.6
1986				61.91	37.85	14.0
1987		87.03	73.27		36.26	13.3
1988	1	84.36	70.57	59.45		
1989	100.00	85.13	71.08	59.76	36.33	13.3
otal income tax share (percentage):	100.00	77.94	60.53	48.28	25.68	7.3
1985				45.54	24.12	6.7
1986		74.52	57.34	1	1 1	6.1
1987		75.50	56.75	44.36	23.13	
1988		72.61	54.60	42.67	22.17	5.8
1989	100.00	74.97	56.37	44.03	22.93	5.8

N/A--Not applicable.

¹ The number of returns in Tables 7 and 8 were processed in thousands and, therefore, reflect differences due to rounding. For this reason, they do not agree with totals in other Statistics of Income tables.

² See footnote 2 at the end of Table 6.

³ Total income tax is the sum of income tax after credits and alternative minimum tax.

⁴ Average tax rate was computed by dividing total income tax (see footnote 3) by adjusted gross income (less deficit).

NOTE: Detail may not add to totals because of rounding.