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ESTATE AND GIFT TAXES AND INCENTIVES FOR INTER VIVOS GIVING IN THE UNITED STATES

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ABSTRACT

This paper describes the current estate and gift tax rules that apply to intergenerational transfers in the United States. It summarizes the incentives for inter vivos giving as a strategy for reducing estate tax liability. It shows that the current level of intergenerational transfers is much lower than the level that would be implied by simple models of dynastic utility maximization. Moreover, it demonstrates that even among elderly households with net worth in excess of \$2.5 million, roughly four times the net worth at which the estate tax takes effect, only about forty-five percent take advantage of the opportunity for tax-free inter vivos giving. Cross-sectional regressions using the 1995 Survey of Consumer Finances suggest that transfers rise with household net worth, possibly reflecting the impact of progressive estate taxes. In addition, households with a preponderance of their net worth in illiquid forms, such as a private business, are less likely to make transfers than their equally wealthy counterparts with more liquid wealth. Households with substantial unrealized capital gains, for whom the benefits of capital asset basis step-up at death are greatest, are less likely to make large inter vivos transfers than similarly wealthy households with higher basis assets. Nevertheless, the aggregate flow of intergenerational transfers is much smaller than the level that would result if all households that were likely to face the estate tax attempted to transfer resources through inter vivos gifts.

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Estate and gift taxes levied by state and federal governments in the United States collected an estimated \$23.1 billion in 1996 from just over thirty thousand "taxpayers." The top marginal federal estate tax rate is 60 percent. In spite of the high marginal estate tax rates, economists have devoted relatively little attention to quantifying the incentive effects of the estate tax, or to measuring the effect of this tax on household behavior.

Part of the difficulty in studying the estate tax arises from the difficulty of obtaining survey data on the high-income, high-net-worth households who are affected by the estate tax. Part reflects the lack of professional consensus on why individuals leave bequests. This is reflected in the multiplicity of models – altruistic, egoistic, exchange, and accidental – that are considered in recent surveys of bequest behavior, such as those by Laitner (1997) and Masson and Pestieau (1997). The efficiency cost of estate taxation depends on whether bequests are accidental, or whether they are the outcome of one of the voluntary models of bequest behavior. Although the lack of agreement on how to evaluate the efficiency impact of estate taxation is an important problem, it should not stand in the way of empirical research on the incentive effects of the estate tax.

The debate on estate tax reform in the United States, leading up to the passage of the Taxpayer Relief Act of 1997, has drawn recent attention to existing research on the estate tax and its effects. Joulfaian (1997) provides a summary of both the current estate tax rules and the potential economic effects of the U.S. estate and gift tax.

This paper summarizes the incentive effects of the estate and gift tax in the United States with particular reference to <u>inter vivos</u> giving. It provides descriptive information on the estate tax savings that would follow from the use of gift-giving strategies on the part of high net worth households. It also provides data on the importance of charitable bequests in reducing estate tax liability, and explores the way the interaction between the income tax and the estate tax affects household decisions about when to realize gains on appreciated assets.

The paper is divided into five sections. Section one describes the structure of the U.S. estate tax, including the changes that were enacted in the Taxpayer Relief Act of 1997. It summarizes the characteristics of recent estate tax return filings, particularly the concentration of estate tax payments among a small set of taxpayers.

Section two develops a framework for summarizing the various incentive effects

associated with the taxation of estates and gifts, particularly those concerning <u>inter vivos</u> giving. This section notes that although the estate and gift tax are "unified" in the United States, so that both are taxed according to the same tax rate schedule, in practice gifts are taxed less heavily than bequests.

The third section presents empirical evidence on the patterns of <u>inter vivos</u> giving among households that have net worth high enough to make it likely that their estate will face the estate tax. It shows that even among households with net worth of several million dollars, and household heads over the age of 75, the probability of making <u>inter vivos</u> gifts is less than fifty percent. This raises the question of why households do not take advantage of readily available estate tax avoidance strategies.

Section four focuses on <u>inter vivos</u> giving by households with substantial holdings of appreciated assets, for whom it is most attractive to defer capital gain realizations, and households with smaller unrealized gains. It presents evidence suggesting that some high-networth households are "locked in" and reduce their <u>inter vivos</u> giving to take advantage of favorable income tax treatment of capital gains at death. A brief conclusion suggests several directions for additional research.

1. The Estate Tax in the United States: Current Rules and Summary Statistics

The federal estate tax has been integrated with the federal gift tax since 1977. The tax base for the federal estate and gift tax is the value of assets transferred at the taxpayer's death, plus the value of taxable gifts that were made during the decedent's lifetime. These gifts are cumulated in nominal terms. The estate of an individual who made substantial taxable gifts while alive, and died with an estate valued at \$1 million, will pay more tax than the estate of someone else who died with a net worth of \$1 million but who never made taxable gifts.

There are two significant exemptions to the general estate and gift tax rules. First, interspousal gifts and bequests are exempt from estate taxation. Transfers that occur when the first spouse in a married couple dies are often untaxed, while estate taxes are due when the surviving spouse dies. This leads to a large group of nontaxable estate tax returns, i.e. returns with net estates that are large enough to be taxable, but which avoid taxation because the heir is the decedent's spouse.

Second, each individual may make an unlimited number of tax-free gifts of \$10,000 per year per recipient. A married couple can therefore transfer \$20,000 per year to each child, grandchild, or other beneficiary. The \$10,000 annual exemption will be indexed for inflation beginning in 1999. For family patriarchs with substantial numbers of children and grandchildren, inter vivos gifts can provide an opportunity to transfer substantial amounts of wealth each year. For example, consider a married couple, aged 45 (husband) and 42 (wife), with two children aged 14 and 11. Assume that the children marry at 25, that each has one child at 28 and another at age 30, and that the parents live to the age of 82 (husband) and 87 (wife). In this case a program in which each spouse makes a gift of \$10,000 each to all children, grandchildren, and children's spouses can reduce the present discounted value of estate tax liability by between \$1 and \$2 million, depending on the rate of return that assets are assumed to earn. This example assumes that the marginal estate tax rate will be 55 percent.

A key feature of the U.S. estate and gift tax is the "unified credit." This is a credit, received by the estate of each decedent, against lifetime estate and gift taxes. Under the estate and gift tax law in effect between 1987 and 1997, each taxpayer received a tax credit of \$192,800. This was precisely the amount of estate tax liability on a taxable estate of \$600,000. The unified credit therefore eliminated estate tax liability on estates valued at less than \$600,000.

The Taxpayer Relief Act of 1997 (TRA97) raised the threshold on the size of estates to which estate tax liability applies. The unified credit rises to increase the value of estate assets that are effectively tax exempt to \$625,000 in 1998, to \$700,000 in 2000, and finally to \$1,000,000 in 2006. TRA97 also includes a special provision for estates that include family-owned businesses and farms. Family-owned businesses valued at up to \$1.3 million became exempt from estate taxation effective January 1, 1998.

Table 1 reports the tax rates that applied to taxable estates and gifts for tax year 1997. The schedule shows tax rates for estates valued at less than \$600,000, even though for most estate taxpayers, the estate tax effectively begins at 37% on the first dollar of taxable estate above \$600,000. The highest statutory marginal estate tax rate is 55 percent. As a result of a surcharge that phases out infra-marginal estate tax rates of less than 55 percent, however, the highest effective marginal estate tax rate is 60 percent. This rate applies on estates valued at between \$10 million and \$21.04 million. As a result of legislative changes in the Taxpayer Relief Act of

1997, which eliminated the recapture tax on the Unified Estate and Gift Tax Credit, the upper limit on the 60 percent tax bracket declined to \$17.184 million effective January 1, 1998.

In addition to federal estate taxes, many states levy taxes on estates or inheritances. These taxes raise roughly one third as much revenue as federal taxes. There are two types of state estate taxes. The more common form, known as a "gap tax," is a state tax that is fully creditable against federal estate tax liability. These taxes do not raise the marginal tax burden on taxable estates. The second type of state estate tax is an "add on tax." These state taxes often differentiate estates on the basis of the kinship relationship between the decedent and the recipient of the estate. State death tax credits against federal estate tax liability are roughly half of the value of state estate tax revenues; this is a crude measure of the relative importance of "gap taxes" and "add on" taxes.

The 1997 legislative changes are the latest in a long history of changes, described in Pechman (1987), in the real value of the threshold below which estates are not subject to federal tax. These movements have been associated with time series fluctuations in the fraction of estates that are subject to estate taxation. In 1995, roughly 1.4 percent of deaths in the United States generated taxable estate tax returns. This percentage is forecast to rise, under the post-1997 law, to 1.6 percent in 2005. There has been some fluctuation in the postwar period in the fraction of deaths resulting in estate tax liability. This fraction was 1.3 percent in 1950, 5.2 percent in 1970, and 7.7 percent in 1977, prior to an estate and gift tax reform that raised the threshold for tax liability.

The distribution of estates by value reflects the familiar skewed pattern that characterizes most wealth distributions. Many taxable decedents leave taxable estates that are valued at slightly more than the estate tax threshold. The estates of decedents with gross estates well above the threshold, however, pay most of the estate tax. Table 2 illustrates this with data drawn from estate tax returns filed in 1995. Of the 31,564 taxable estate tax returns filed, 43.8 percent (13,830) had gross estates valued at between \$600,000 and \$1 million. If TRA97 had been fully phased-in in 1995, these decedents would not have been liable for estate tax. Some decedents have very high net worth, and this leads to substantial concentration in estate tax payments. The 231 estate tax returns filed for estates valued at more than \$20 million, which represented only 0.7 percent of the estate tax returns (and roughly one ten-thousandth of all deaths) accounted for

17 percent of all estate tax payments. By comparison, the 44 percent of estate tax returns with gross estates valued at between \$600,000 and \$1 million accounted for only 5.5 percent of total estate tax revenue.

The distribution of estate tax liabilities is highly skewed because the underlying distribution of net worth is skewed, and because the estate tax is levied according to a progressive tax schedule. The marginal estate and gift tax rate rises by eighteen percentage points between the lowest value taxable estate and the highest value estates.

The estate tax exemption for inter-spousal transfers implies that estate tax is often deferred until the death of the longest-surviving partner in a married couple. In the case of 1992 decedents, Eller (1996) reports that 62% of the taxable estate tax returns were for decedents who were over 80 years of age. These tax returns accounted for 66 percent of the estate taxes paid. In contrast, decedents who were less than 70 years of age accounted for only 13 percent of estate tax liability.

The inter-spousal exemption, as well as current longevity patterns, implies that for many households of retirement age, the expected date of estate tax liability is more than two decades in the future. Data on age-specific mortality rates in 1995 are compiled by the Social Security Administration, these data are described in further detail in Mitchell, Poterba, Warshawsky, and Brown (1998). Using these data and assuming that the mortality experience of husbands and wives is independent, one can calculate the joint life expectancy of married couples with members of different ages. Joint life expectancy is the expected number of years in which at least one member of the couple will be alive. Given current mortality patterns, this depends more on the age of the wife than the age of the husband.

For a couple in which the husband is 65 and the wife is 62, joint life expectancy is 24.3 years. Even for couples in which the husband is 75 and the wife is 72, it is 16.1 years. For women, single life expectancy does not fall below five years until age 89 – thus most potential decedents have substantial periods of time over which to plan for wealth transmission and thereby to reduce their estate tax burden. The remainder of this paper explores the extent to which households take advantage of estate planning opportunities, particularly the opportunity to make <u>inter vivos</u> transfers.

2. A Framework for Analyzing the Estate and Gift Tax

This section considers incentives for taxable gifts and charitable gifts that are created by the current estate and gift tax rules in the United States. It also explores the interaction between the estate tax and the capital gains tax. Subsequent sections present evidence on the extent to which these incentives affect the behavior of high net worth taxpayers.

2.1 Incentives for Taxable Gifts

To fix notation regarding the incentive effects of the estate and gift tax, consider a setting in which consumers live for two periods. They work in the first period and retire in the second. Consumption in the two periods is denoted by c_1 and c_2 . Let l_1 denote labor supply in the first period. Each consumer may leave a bequest (b) in the second period, and he may also make an inter vivos gifts (g) in the first period. The consumer's utility function is given by:

(1)
$$U = U(c_1, c_2, l_1, g, b).$$

The consumer's budget constraint is:

$$(2) \qquad (1-\tau_y)wl_1 = c_1 + g/[1-\tau_g] + c_2/[1+r(1-\tau_k)] + b/\{[1+r(1-\tau_k)](1-\tau_e)\}.$$

In this expression τ_y denotes the income tax rate on labor earnings, τ_g the gift tax rate, τ_k the tax rate on capital income, and τ_e the estate tax rate. This budget constraint ignores the possibility of transfers, such as Social Security, in the second period of life.

The donor's utility of gift-giving is assumed to depend on the net-of-tax gift received by the recipient, rather than the gross-of-tax gift that that donor makes. In order to provide g to a recipient, the donor must expend resources of $g/(1-\tau_g)$, where τ_g denotes the gift tax rate. A similar calculation applies with respect to bequests, but the tax rate on bequests (τ_e) may differ from that on gifts.

When the donor cares only about the total value of resources transferred to the next generation, but not about the division of these transfers between <u>inter vivos</u> gifts and bequests, (1) becomes

(3)
$$U = U(c_1, c_2, l_1, g + b/(1+r(1-\tau_k))).$$

A potential donor with these preferences and with non-negativity constraints on both b and g would be driven to a corner solution with respect to the choice of bequests and gifts whenever the tax rates on estates and gifts are different. If the estate and gift tax rates satisfy $(1-\tau_e)/(1-\tau_g) > 1$,

the donor would choose only bequests, and vice versa.

The empirical work presented below is effectively a joint test of the prediction that high net worth households optimally exploit <u>inter vivos</u> giving as a strategy for estate and gift tax avoidance, <u>and</u> the assumption that such consumers care only about the present discounted value of net-of-tax transfers to recipients. If consumers have the more general utility function given by (1), as they might when there are strategic motives for using bequests rather than <u>inter vivos</u> transfers (see Bernheim, Shleifer, and Summers (1985)), then it is not possible to derive strong predictions about the relative use of gifts versus bequests. Similarly, consumers may derive utility from the gross value of transfers that they make, rather than from the after-tax value of transfers that others receive. In this case, or if the timing of transfers matters because holding wealth conveys status or power that does not persist after transfers have been made, then the stark predictions above will not obtain. In spite of this situation, virtually all "practitioner advice" with respect to estate tax planning makes the maintained assumption that the donor's objective is to maximize the resources that their heirs will receive, net of taxes.

In the United States, under the federal estate and gift tax, the tax treatment of gifts depends on their size. Gifts of less than \$10,000 per year, to anyone, are tax-free. In the foregoing framework, $\tau_g = 0$ for these gifts. Gifts in excess of \$10,000 to any recipient in a year are included in the <u>donor's</u> gift tax base. In light of the cumulative lifetime estate and gift tax credit (pre-1997) of \$192,800, the first \$600,000 of taxable gifts that an individual makes over the course of his lifetime is exempt from gift tax. Gifts that total more than \$600,000, on a cumulative nominal basis, are taxed according to the estate and gift tax schedule in Table 1.

A crucial feature of the estate and gift tax in the United States, from the standpoint of incentives for gift-giving, is that the gift tax is levied on the net of tax gift, while the estate tax is levied on the gross of tax estate. Thus, as Sims (1984), Rivers and Crombley (1979), and others have noted, even though the estate and gift taxes are "integrated" and taxed according to the same tax schedule, gifts face a lower effective tax burden than bequests. If the statutory marginal estate and gift tax rate is θ , and g is the amount of the gift received by the recipient, the gift tax liability is θ *g. The total cost of such a gift, from the standpoint of the donor, is therefore $(1+\theta)$ *g. In the notation above, the gift tax rate is $\tau_g = \theta/(1+\theta)$. This expression follows from equating the total cost of the gift in the budget constraint (2), $g/(1-\tau_g)$, with $(1+\theta)$ *g.

An example can illustrate the way the gift tax operates. Consider an individual who makes a gift of \$20,000 to one recipient. Because this exceeds the tax-exempt gift threshold by \$10,000, the donor is deemed to have made a \$10,000 taxable gift. The donor's gift tax liability in this case depends upon his previous history of taxable gifts. If the sum of previous taxable gifts by this donor is less than the amount required to exhaust the lifetime credit against the estate and gift tax, then the donor does not pay gift tax. In 1998, this implies that any donor who has not made cumulative lifetime gifts of at least \$625,000 would pay no tax on an incremental taxable gift.

In this example, however, if the donor's previous taxable gifts exceed the estate and gift tax threshold, then the donor owes gift tax. To fix an example, if the donor had previously made taxable gifts of \$800,000, he would pay gift tax of \$3900 on the incremental taxable gift of \$10,000, since his marginal estate and gift tax rate (see Table 1) is 39 percent. Thus the total cost of the \$10,000 taxable gift is \$13,900, and the marginal gift tax rate is .39/1.39 or 28.1 percent.

This gift tax example can be contrasted with the situation if the same donor were to die. In this case he would bequeath the \$13,900 that paid for the taxable gift (and the associated gift tax) to the same individual who received the foregoing taxable gift. The tax liability on an estate of \$13,900 would be .39*(13,900) or \$5,421, so the recipient would net \$8,479 after estate taxes. This is more than 15 percent less than the \$10000 the recipient would receive after gift taxes. In the framework sketched above, the estate tax rate τ_e as defined in the budget constraint is $\tau_e = \theta$, where θ is the statutory marginal estate and gift tax rate. Since $\theta > \theta/(1+\theta)$, the effective estate tax rate exceeds the effective gift tax rate. For an estate and gift taxpayer facing the highest statutory marginal tax rate, 60 percent, the effective gift tax rate is .60/1.60, or 37.5 percent. This 22.5 percent differential in effective tax rates represents an important incentive for making gifts rather than leaving bequests. The differential is 60 percent if the gifts are small, and fall below the \$10,000 floor on taxable gifts.

The fact that gifts are less heavily taxed than bequests suggests that anyone who cares only about the present discounted value of the resources left to his heirs, and who expects to face positive marginal estate tax rates, should pursue a straightforward tax-minimization strategy. First, he should embark on a systematic program of tax-exempt gift-giving in amounts of less than \$10,000 (\$20,000 if he has a spouse who can also make gifts). Second, he should make

taxable gifts, gifts larger than \$10,000, because they will reduce the amount of his estate, and because such gifts face a lower effective marginal tax rate than bequests.

There are two additional factors, beyond the difference in effective tax rates, which motivate the use of taxable gifts. The first is the opportunity to use the estate and gift tax credit, which is specified in nominal terms, at an earlier point in time, and thereby to claim a credit with a larger real value. To illustrate this point, consider an individual with a net worth of \$1 million who is certain to die in twenty years. If he makes taxable gifts worth \$600,000 today, he will receive a unified estate and gift tax credit worth \$192,800 in current dollars. If he waits to transfer assets until he dies, however, the real value of the estate and gift tax credit, assuming that this credit is not indexed, is much lower. At a three percent inflation rate, \$192,800 in 20 years is worth \$105,811 today. Maximizing the value of estate and gift taxes avoided therefore requires making transfers earlier rather than later.

The second factor encouraging immediate, taxable transfers is the progressive structure of the estate and gift tax. If the assets in an individual's portfolio are expected to appreciate in nominal terms over time, then the value of the estate will be larger than the value of the assets that could be transferred as a gift today. Since marginal estate tax rates are increasing over the range from \$625,000 to \$10,000,000 of taxable estate, there is an incentive to make transfers early and thereby avoid facing higher marginal tax rates simply as a result of nominal asset inflation.

To provide some indication of the importance of these various effects, Table 3 presents illustrative calculations on the amount of wealth that an heir will have after twenty-five years if his aging benefactor makes an immediate gift, or holds his wealth until he dies. The calculations in the table assume that the benefactor will live for twenty-five years. To explain the calculations, first, consider what happens if the benefactor uses his \$2 million to make a taxable gift today. This requires finding the gift amount (g) such that

(3)
$$2,000,000 = g + f(g - 10000)$$

where f() denotes the estate and gift tax schedule in Table 1. (The debit of \$10,000 within f() is the result of subtracting the tax-exempt gift limit, \$10,000, from the total gift.) In this example the taxable gift that can be financed with a sum of \$2 million is \$1,464,621. Assuming that this amount is invested at a real (after-tax) return of .04 per year, its' value after 25 years will be

\$3,981,252.

The alternative scenario is one in which the benefactor does not make taxable (or tax-exempt) gifts but instead retains the assets until he dies. Once again assume that the assets grow at a rate of four percent per year after tax. The value of the taxable estate in 25 years will therefore be \$5,436,564, and the associated estate tax liability, computed from Table 1, will be \$2,630,910. This results in an after-estate-tax value of \$2,805,654 for the beneficiaries, substantially less than they would have received if the assets had been transferred as a gift.

Table 3 presents several additional cases illustrating the increase in the value of resources received by heirs that can be generated with the use of taxable gifts rather than bequests. The gain to the recipients is larger when the nominal rate of return on the underlying assets is greater because the progressivity effects, and the foregone time-value-of-money associated with the estate and gift tax credit, are greater in this case.

Although substantial tax saving can be realized through taxable gift-giving, actual patterns of bequests and gifts suggest very limited use of taxable gifts. Table 4 presents summary information from estate tax returns on the pattern of taxable gift giving. Only 18.9% of the decedents on whose behalf taxable estate tax returns were filed in 1995 had made taxable gifts during their lifetimes. This probability rose as the size of the estate increased, reaching 73 percent for those with estates of more than \$20 million, even though for this group, the benefits of avoiding the progressive estate tax rate structure through taxable gifts were smaller than for those at lower wealth levels.

Table 4 also shows that taxable gifts comprise a small fraction of the total wealth transferred through estates and gifts. Even for the highest valued estates, those worth \$20 million and above, taxable gifts were only 7.2 percent of the value of taxable estates. For all taxable estates, gifts represented 3.8 percent of the value of estates. These results on the relatively infrequent use of taxable gifts will be reinforced below by evidence on the lack of tax-exempt gifts.

2.2 Incentives for Charitable Bequests

One incentive effect of the estate tax that was not reflected in the earlier modeling concerns charitable gifts. Just as donations to charity generate deductions against taxable income for income tax filers, charitable deductions from an estate can be deducted from its taxable value.

Charitable bequests totaled \$8.7 billion in 1995, thereby reducing estate tax revenues by approximately \$4 billion. Table 5 shows the importance of charitable bequests for estates of different sizes. The share of gross estate value donated to charitable organizations rises with the value of the estate, and therefore with the marginal estate tax rate, although it is not clear whether this reflects a wealth elasticity of demand for donations or a price effect of the estate and gift tax. Less than one fifth of the gross estate value is donated to charity from estates worth less than \$1 million, while more than one third of the value of estates of \$10 million and more is allocated to charitable bequests.

Numerous empirical studies have explored the sensitivity of charitable donations to the income tax rates of potential donors. Relatively less research has considered the impact of the estate tax on charitable bequests. In the framework of the charitable giving studies, the "tax price" of charitable giving at the time of death is $(1-\tau_e)$, since the estate beneficiaries give up $(1-\tau_e)$ dollars for each dollar received by a charity. Joulfaian (1991), using estate tax returns, estimates a substantial price elasticity of charitable giving with respect to estate tax rates. Not all studies find such an effect: Barthold and Plotnick (1984) study a smaller sample of estates, and they find virtually no evidence that the after-tax price of charitable giving affects donations. As in many studies of income tax incentives for charitable giving, it is difficult to identify tax price effects separately from effects of income (or in the estate tax case, net worth). The same problem arises in trying to identify the impact of prospective estate taxation on the probability of inter vivos giving by current wealthy households.

For some assets held by some decedents, the tax price of charitable bequests can be even lower than the foregoing calculations suggest. This is especially true for assets that are held in retirement saving accounts such as Individual Retirement Accounts or 401(k) plans at the time of death. Because the contributions to and accruals within these accounts have not been subject to income tax, a beneficiary receiving these assets as a bequest must pay income tax on this bequest. Shoven and Wise (1996) note that such taxes are due after the estate tax liability has been paid, and that the combined estate and income tax burden can be substantial. For an heir whose marginal income tax rate is τ , the after-tax proceeds of a one dollar pre-tax bequest equal (1- τ_e)(1- τ). For a bequest recipient in the 39.6 marginal tax bracket for the federal income tax, and for an estate facing the 55 marginal estate tax rate, the tax price of charitable giving, (1- τ_e)(1- τ),

is .272.

Given the apparent sensitivity of charitable giving to the after-tax price of such giving, one would expect that the combined income and estate tax rates would have an important effect on the flow of charitable bequests. Unfortunately, there is no public use data set that provides information on both the asset holdings in retirement accounts and other accounts, and the value of charitable bequests. The importance of charitable bequests from these accounts is likely to rise over time, as the share of household wealth accumulated in these accounts becomes larger (see Poterba, Venti, and Wise (1998)).

2.3 Capital Gains Taxes, Estate Taxes, and Incentives to Hold Appreciated Assets Until Death

The incentives to make <u>inter vivos</u> gifts, if necessary in taxable form, are partly muted by
an important interaction between the estate and gift tax and the individual income tax in the

United States. This arises from the income tax treatment of capital gains on assets that have been
transferred as part of an estate.

The federal income tax taxes capital gains upon realization. The statutory tax rate on realized gains has varied significantly over time, and it frequently depends on the length of time that an asset has been held. In 1998, a tax rate of up to 39.6 percent applies to realized gains on assets held for less than twelve months. A lower statutory rate, no more than 20 percent, applies to gains on assets held for at least eighteen months. Under current law, a lower marginal tax rate (18 percent) will apply starting in 2006 to gains on assets held for at least 60 months. Between 1988 and 1997, the top statutory marginal tax rate on realized long-term gains was 28 percent, so the incentive for households to avoid capital gains tax liability was greater than at present.

When an asset is transferred as part of an estate, the asset's basis, it's purchase price for the calculation of the taxable capital gain, is "stepped up" to its market value at the time of the decedent's death. This extinguishes the income tax liability on capital gains that accrued during the lifetime of the decedent. In contrast, if the asset is given away during the decedent's lifetime, the decedent's purchase price is "carried over" as the asset basis. When the recipient of such an inter vivos gift of an appreciated asset ultimately sells the asset, the capital gains that accrued before the decedent gave the asset away will still be taxed. This case is known as "carry-over basis." If an individual owns an asset with substantial unrealized gains, the opportunity to avoid

capital gains tax liability can reduce the incentive for inter vivos transfers.

The interaction between estate taxes and income taxes was the basis for Adams' (1978) suggestion that households could equalize their effective estate and gift tax rates. If assets that are bequeathed have substantial unrealized capital gains, then the combined estate and income tax rate on assets transferred at death could equal the combined gift and income tax rate on taxable gifts, even if the effective gift tax rate is below the statutory estate tax rate. Adams (1978) presents illustrative calculations, based on aggregate data, suggesting that such equalization is in principle possible. Kuehlwein (1984) re-visits this calculation, again using aggregate data, and concludes that the combined estate and income tax rates on transfers at death are likely to exceed the combined tax burden on taxable gifts. Neither of these studies exploits household level information on gift-giving and asset basis, which can provide more direct information on the possibility of estate and gift tax equalization.

To formalize the incentives that basis step-up generates for an investor, consider an individual who holds an asset with a basis of B. Assume that the asset generates annual returns at rate r, and that these returns accrue only in the form of capital gains. The asset has a current market value of V. Further assume that this person will die in T periods hence, and that he is contemplating three strategies for transferring this asset to a beneficiary.

(i) Sell The Asset Today and Make An Inter Vivos Gift: Some assets may be impossible to transfer without selling. In this case the income tax liability due when the asset is sold will be $\tau_{cg}*(V-B)$, and the after-tax proceeds available for a taxable gift, and to pay gift tax, will be $(1-\tau_{cg})V + \tau_{cg}*B$. In these expressions τ_{cg} denotes the statutory capital gains tax rate. Assume that once assets are transferred to the recipient, they appreciate at rate δ per period. This return may differ from the return earned while the donor held the assets.

If the gift at the time of asset sale could be made on a tax-free basis, then after T periods, the recipient will hold an asset position worth $e^{\delta T}*[(1-\tau_{cg})V + \tau_{cg}*B]$. If the transfer was a taxable gift, then the recipient will have $(1-\theta/(1+\theta))*e^{\delta T}*[(1-\tau_{cg})V + \tau_{cg}*B]$ after T periods, where θ denotes the statutory estate and gift tax at which the gift is taxed. These values can be compared with the wealth of the beneficiary under two alternative transfer schemes.

(ii) <u>Transfer the Assets as a Gift:</u> In this case the asset basis "carries over" to the recipient, so that when he sells the asset, the gain is computed relative to the basis B. To

compare this case with the one with realization at the time of transfer, assume that the recipient sells the asset after T periods. This provides a lower bound for the value of the asset after T periods, because the recipient could choose to defer the capital gains tax liability beyond period T by choosing not to realize the gain (see Bailey (1969)).

If the recipient does realize the gain in period T, the after-tax value of the transfer, net of income taxes due, is $(1-\tau_{cg})*Ve^{rT}+\tau_{cg}*B$ in the case when the initial asset transfer was made as a tax-free gift. If the initial asset transfer was a taxable gift, the value of the position in T periods would be reduced by the effective gift tax due at the time of transfer (i.e. by a factor of $\{1-\theta/(1+\theta)\}$). The calculation becomes more complex if one assumes that a fraction of the asset must be sold at the time of the transfer, with associated capital gains tax liability, to cover the cost of gift taxes. Note that this calculation presumes that the transferred asset will appreciate at a rate of r for as long as the current owner or the gift recipient holds it.

Transferring an asset as a gift strictly dominates selling the asset and transferring the proceeds under the assumptions presented here. For this reason, the analysis below will focus on transferring the asset or holding it until the death of its owner. However, if the rate of return that an asset will earn prospectively if it is transferred today is lower than the expected return if the prospective decedent holds it, then there may be reasons not to transfer this asset.

(iii) <u>Hold Assets Until Death</u>: The third transfer strategy involves the donor holding the asset until his death in T periods, and making a transfer as a bequest. The value of the asset will appreciate to Ve^{rT} at the time of the current owner's death. The estate tax due will then be θVe^{rT} , so that the after-tax value of the position will be $(1-\theta)Ve^{rT}$. There is no capital gains tax liability in this case.

The relative value of recipient wealth when an asset is held until the death of the benefactor, and when it is transferred before death, is given by the ratio

(4)
$$R = (1-\theta)Ve^{rT}/\{[1-\theta/(1+\theta)]^*e^{\delta T}*[(1-\tau_{cg})V + \tau_{cg}*B]\}.$$

Notice that in the special case of $r = \delta$ and B = 0, this expression simplifies to:

(5)
$$R = (1-\theta)/\{[1-\theta/(1+\theta)](1-\tau_{cg})\} = (1-\theta^2)/(1-\tau_{cg}).$$

For a taxpayer facing the top marginal tax rate on estates and gifts, 60 percent, and facing the 20 percent marginal tax rate on capital gains, the value of R is .80. This implies that bequests are dominated by taxable transfers, even when all of the value of the asset in question will be taxed

upon realization. This simply reflects the fact that the differential between the effective estate and gift tax rates in this case, (.60 - .375), is larger than the statutory capital gains tax rate.

Table 6 presents information on the value of R from equation (4) for a range of different parameter values. The table shows that except when the asset is assumed to appreciate faster when it is held by the current owner than by the potential recipient, donors have an incentive to transfer assets with taxable gains in the form of taxable gifts. The table assumes that the effective "accrual equivalent" capital gains tax rate facing the recipient of a taxable gift is less than the statutory tax rate because the recipient may defer selling the asset beyond the T period horizon that is imposed by the death of the donor. The calculations in Table 6 show that the relative after-tax income from bequeathing assets, rather than using inter vivos transfers, is declining in B/V, the basis value as a share of current market value.

3. Observed Patterns of Inter Vivos Giving

The tabulations in the last section, based on information on estate tax returns, suggest that potential decedents make relatively limited use of taxable gifts. This section exploits data on intergenerational transfers from the 1995 Survey of Consumer Finances to investigate the links between wealth, the estate tax threshold, and the use of both taxable and tax-exempt inter vivos gifts. The results confirm the gift tax findings above: many high net worth households are not exploiting the opportunity to reduce their estate tax liability by making taxable gifts.

The Survey of Consumer Finances is the single best source of information on high-income, high-net worth households in the United States. The survey is administered by the University of Michigan Survey Research Center on behalf of the Federal Reserve Board. The survey is administered to two sets of households, the first comprising a randomly chosen subsample of all U.S. households, and the second comprising a stratified random sample that oversamples those with high income and high net worth. The stratified sample is drawn from a sub-population that is identified on the basis of tax returns and residential zip codes. Further information on the Survey of Consumer Finances (SCF) may be found in Kennickell, Starr-McCluer, and Sunden (1997).

The survey question that provides information on inter-household transfers asks whether the responding household made contributions in the previous year to support anyone living

outside the household. Gale and Scholz (1994) show that in the 1986 SCF, Poterba (1998) confirms that in the 1995 SCF, the value of reported transfers in support of individuals in other households is substantially greater than the support that individuals report receiving from outside their household. The present study focuses on the "gifts given" question, which yields the higher estimate of inter vivos giving.

In studying the probability of making a gift, it seems natural to stratify households by their net worth. There are several potential definitions of net worth, however, that might be used for this purpose. The "standard" definition is simply the reported value of household assets, less debt and other liabilities. A second definition considers the face value of life insurance held by the household. An individual with "standard" net worth below the \$600,000 threshold for estate tax liability, but with a substantial term life insurance policy that would be payable to his heirs if he died, could leave a taxable estate. This possibility can be addressed by including the face value of term life insurance policies in net worth. I also consider a third definition of net worth that corresponds to "standard" net worth exclusive of housing equity. The reason for this exclusion is that households may be less willing to make inter vivos transfers when most of their wealth is in their home, since this would require borrowing against housing equity.

Table 7 presents basic tabulations from the SCF. The cells are stratified by the age of the household head as well as by household net worth. Each entry reports the probability of making an <u>inter vivos</u> gift of at least \$10,000, as well as the standard error (in parentheses) of this probability. The table shows that this probability is strongly related to net worth. In some but not all net worth categories, this probability increases with the age of the household head. The probability of making such gifts is higher for households with net worth above \$600,000, the federal estate tax threshold, than for those with net worth below this level. This could be interpreted as evidence that households facing positive estate tax rates make are induced by these tax rates to make greater <u>inter vivos</u> gifts. It could also, however, simply reflect a positive wealth elasticity of gift giving.

The most important conclusion to emerge from the table is that most households, even those with net worth high enough to virtually insure that their estate will be taxable, do not make large <u>inter vivos</u> transfers. The first sub-panel of the table defines net worth inclusive of the face value of life insurance. In this sub-panel, the cell that exhibits the highest probability of making

an <u>inter vivos</u> transfer of more than \$10,000 is that for households headed by someone between the ages of 65 and 74, with a net worth of more than \$2.4 million. This net worth threshold is twice the wealth level at which a couple could imagine avoiding estate tax liability through the use of the unified estate and gift tax credit. For this group, only 38.2 percent of the households made <u>inter vivos</u> gifts totaling at least \$10,000.

When household net worth is defined in the "standard" way, as shown in the third panel of Table 7, the probability of making an <u>inter vivos</u> transfer rises slightly in comparison to the first panel, with the life-insurance inclusive definition of net worth. For households with at least \$2.4 million in net worth, and with a household head aged 65-74, the probability of making at least \$10,000 in <u>inter vivos</u> gifts is 41.4 percent. The point estimate of the probability of such gifts is lower for other age groups in the same net worth category. The standard errors for the estimated probabilities make it impossible to reject the hypothesis that the probability of making a transfer of at least \$10,000 is equal for those households headed by someone under the age of 65, and those households with an older household head.

For most definitions of net worth, the probability of making a gift when the household head is over the age of 65 is greater than that for younger households. For households with net worth of between \$600,000 and \$1.2M, this probability rises from 1.5 percent for those in households where the head is younger than 55, to 5.4 percent at ages between 55 and 64. The probability rises again for those in the 65-74 age group, but it declines for those over 75. The probability of making gifts of \$10,000 or more is much lower for those households with net worth of less than \$600,000 than for those with net worth above this level. Regardless of the definition of net worth, this probability never rises above 1.8 percent.

The low giving probabilities observed among the highest net worth categories can not be explained by the absence of potential recipients for gifts from these households. The fourth subpanel of Table 7 shows that when the sample of households is restricted to those with children, the probabilities of gifts in excess of \$10,000 actually decline for the highest age categories in the upper net worth strata. Only one of the giving probabilities exceeds one third when we restrict the sample in this way.

The last panel in Table 7 investigates whether there are many households making gifts that are smaller than \$10,000 per year. The previous focus on gifts of more than \$10,000 in

aggregate includes some taxable gifts as well as many non-taxable gifts. A married couple with two children, for example, could make \$40,000 in tax-exempt gifts. Lowering the gift threshold and reporting the probability of making any gift expands the number of tax-exempt gifts in the set of gifts.

The results in the last panel of Table 7 show that the probability of making any gift is modestly greater than the probability of making a gift of at least \$10,000. However, the probability of making a gift is still below 50 percent for all age-net worth cells, and it is below 35 percent for most cells. Thus the basic conclusion that emerges from this table is that a very substantial fraction of households with substantial net worth are not taking advantage of opportunities to use inter vivos gifts as a method of estate tax reduction.

The results in Table 7 cast doubt on Adams' (1979) hypothesis that individuals who would face the estate tax if they died use gifts to effectively equalize the marginal tax burdens from the estate tax and the gift tax. The findings are more supportive of Kuehlwein's (1994) conclusion that potential decedents are giving up potential tax savings by not taking greater advantage of opportunities for <u>inter vivos</u> giving through both taxable and tax-free gifts.

To provide further insight on the factors that are associated with <u>inter vivos</u> giving, I estimated probit equations for two indicator variables for gift-giving behavior. The first is an indicator for whether the household made any <u>inter vivos</u> gifts; this corresponds to the variable used to define the probabilities in the last panel of Table 7. The second indicator variable corresponds to <u>inter vivos</u> giving in excess of \$10,000 times the number of children reported by the household. Since there is no way to tell who received gifts, this indicator variable does not necessarily capture large gifts to children. It merely indicates that Gifts/Children was at least \$10,000 for the household.

The probit equations permit controls for factors that may affect the probability of giving but are not included in Table 7. The probits that I estimate include three indicator variables for different levels of household net worth, corresponding to the levels in Table 7, as well as an indicator variable for whether the household is married. The equation also includes the age of the three indicator variables for different levels of household net worth, corresponding to the levels in Table 7, as well as an indicator variable for whether the household is married. The equation also includes the age of the <u>younger</u> member of the household if the household is

married, or the age of the household head for single households. Some specifications also include three variables designed to capture the effect of portfolio composition, and liquidity effects, on the probability of <u>inter vivos</u> giving. These variables correspond to the amount of financial assets, the share of housing equity, and the share of business equity in household net worth.

Table 8 reports the results of estimating weighted probit models, where the weights are the sampling weights for the SCF respondents. "Standard" net worth is used in all of these models. The sample is limited to those households with children, even though it would be possible to estimate the models in the first two columns, with an indicator for any giving as the variable to be explained, on a larger sample. The results of estimating this model on the broader data set are very similar to those for the sample with children.

The results in Table 8 broadly confirm the findings from the simple tabulations in the earlier table. There is a clear link between household net worth and giving behavior, and the probability of giving is higher for those households whose net worth exceeds the level at which their estates would become taxable. There is also some evidence that the composition of household assets matters for the probability of <u>inter vivos</u> giving. Households with more financial assets are more likely to make <u>inter vivos</u> gifts.

The coefficients reported in Table 8 are the parameters of the probit model, and they must be translated to obtain estimates of the derivative of the probability of making a transfer as a function of the explanatory variables. The results in the fourth column of Table 8, for example, imply that a shift from net worth between \$600,000 and \$1.2 million, to net worth of more than \$2.4 million, raises the probability of making transfers of at least \$10,000 per child by 9.2 percentage points. The effects of most of the other explanatory variables are substantively small. An increase of ten years in the age of the younger spouse, for example, raises the analogous gift-giving probability by only 0.15 percentage points. A \$100,000 increase in household financial assets raises the probability of giving by less than one one-hundredth of one percent.

The cross-sectional data presented above provide some support for the hypothesis that households that are more likely to face estate taxes are more likely to engage in <u>inter vivos</u> giving. These findings are consistent with McGarry's (1997, 1998) findings on the use of \$10,000 per year gifts by households in the AHEAD data file who have net worth greater than

the threshold at which they would face estate taxation. The AHEAD and SCF samples are different, in particular because the AHEAD does not attempt to over-sample high net worth households. This confirmation is therefore contains some information. Whether the higher probability of transfers at net worth levels above the estate tax threshold can be attributed to the incentive effects of the estate tax, or whether it is simply the result of a positive net worth elasticity of transfer-making, is unclear. Since the estate tax is a nonlinear function of household net worth at the time of death, it is difficult, if not impossible, to separately identify the effects of net worth and estate tax rates on giving behavior.

These findings can be compared with much older results from special Treasury tabulations of estate tax returns in 1945, 1951, 1957, and 1959, as reported in Pechman (1987, p.244). These data show that among millionaire decedents in these years, the fraction of wealth transferred with lifetime gifts ranged from 9 percent (1957) to 24 percent (1945). Although these special tabulations suggest a decline in the importance of gifts between 1945 decedents and 1959 decedents, subsequent tabulations have not revisited this question. Shoup (1966) reports similar evidence suggesting the very limited use of gifts by high net worth households. His results were also based on special Treasury files compiled in the late 1950s and early 1960s. In combination with the results presented here, these studies suggest that limited use of inter vivos gifts has been a persistent feature of transfer behavior by high net worth households.

4. Inter Vivos Giving and the Value of Basis Step-Up At Death

The foregoing discussion described the tradeoff between capital gains tax liability and estate tax liability for individuals who own appreciated assets. The illustrative calculations suggest that taxable gifts typically dominate bequests as a means for transferring resources, even when transfer at death provides step-up of basis for capital assets. The net tax incentive for taxable gifts depends on the ratio of the asset basis to its current market value. Since different households hold portfolios with different amounts of unrealized capital gains, this suggests that there should be variation within the population in the incentive to make taxable gifts by selling appreciated assets or transferring these assets to beneficiaries.

While no publicly available data set contains detailed information on the purchase price of assets for a wide range of portfolio assets, the Survey of Consumer Finances does contain some

information on the total amount of unrealized gains held by responding households. SCF respondents are asked about the purchase price of their owner-occupied home, the cost basis of their investment real estate, the tax basis in any closely held businesses, and the current market value and approximate appreciation since time of purchase on corporate stock and mutual funds. These questions can be used to construct an estimate of a household's unrealized capital gains, and therefore of the variables B and V in equation (4) above.

The ratio of a household's total current asset value to its total basis value is a noisy measure of its incentive to take advantage of basis step-up. This incentive depends on the basis of a particular asset relative to its current value. Some households with substantial unrealized gains may have some assets that could be used for gift giving without triggering capital gains tax liability. This weakens the power of my empirical test. For households with closely held businesses or other assets that represent a significant share of their net worth, however, the total ratio of basis to asset value may have substantial predictive value for gift-giving incentives.

To explore the effect of asset basis on gift-giving behavior, I add the variable (B/V) to the probit models for <u>inter vivos</u> giving. Table 9 presents the results from estimating the same equations as in Table 8, but now with this additional variable. The results provide mixed support for a link between unrealized capital gains and gift-giving behavior. While there is a statistically significant effect in the predicted direction on the probability of making gifts of at least \$10,000 per child, the coefficient on (B/V) in the equation for the probability of making any gift is opposite signed, and nearly statistically significant. Households with a higher basis, <u>conditional on their net worth</u>, are more likely to make large <u>inter vivos</u> gifts, even though such households appear less likely to make small gifts. Because the large gift households are the ones that are most likely engaged in estate tax avoidance behavior, these results provide some evidence that households consider the gain from basis step-up in choosing between <u>inter vivos</u> gifts and bequests. Future work might attempt to re-examine this behavior, possibly using information on gain realizations as in Auten and Joulfaian (1997).

5. Conclusion

The central finding of this research is that nearly two thirds of the elderly households for whom the estate tax may loom as a potential burden are <u>not</u> making transfers. This suggests the

need for further attention to the issues raised in Bernheim, Shleifer, and Summers (1985) about households' reluctance to use <u>inter vivos</u> transfers rather than transfers-at-death. In this conclusion, I suggest several potential explanations that may warrant future attention.

One possibility is that older households are concerned that they may need their resources to finance their own consumption. Potential medical costs appear to figure particularly prominently in such discussions. Kemper and Murtaugh (1991) present some information on the use of nursing homes and other long-term care facilities in the U.S. elderly population. The data suggest that 43 percent of those reaching age 65 in 1990 will spend some time in a nursing home before they die, and that more than half of this group would be in a nursing home for at least one year. Roughly eight percent of the turning-65 population should expect a nursing home stay of at least five years before they die.

The link between long term care costs and <u>inter vivos</u> giving requires further study. For many lower income households, Medicaid pays for the costs of long-term care, but for households with wealth above the estate tax threshold, this is not a relevant factor. It would seem that for some higher net worth households, however, there is little danger of being unable to afford medical care even if the household pursues an active program of intergenerational transfers.

A second potential explanation is that the wealthy older households are not convinced that their children will make appropriate use of funds that they might receive as a gift. This is a stronger argument against making transfers to children in their teens or twenties than against transfers to households in their forties. Since most of the children of elderly households in which the head is at least 75 years old will be at least forty, this does not seem like a satisfactory explanation. A particular case of this explanation is that some elderly households may not be particularly altruistic with respect to their children. Laitner and Juster's (1996) survey suggests that altruism is not universal among older households. This finding is consistent with the limited use of inter vivos transfers in the data analyzed here.

A third possibility, which may apply to some share of the very high net worth households, is that older households have better investment return opportunities available to them than their children do. If the parents are more astute financial managers than their children, they may rationally defer transferring assets to maximize the amount that children receive. There is little

evidence on this question. It would be useful to attempt to measure the intergenerational transmission of investment behavior.

A final possibility is that high net worth households are not convinced that the current estate and gift tax rules, and income tax rules, will remain stable in the future. A taxpayer who believes that the estate tax may be eliminated in the future might choose not to make <u>inter vivos</u> gifts in the hope that the tax laws would change before he died. Unfortunately, I am not aware of any survey that collects information on respondents' expectations about future tax policy.

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Table 1: Federal Unified Estate & Gift Tax Rates, 1997

Table 1: Federal Unified Estate & G Taxable Estate and Gift Value	Marginal Tax Rate	Estate Tax Liability at Lower
(\$000s)		Bracket Breakpoint
0-10	18	0
10-20	20	1800
20-40	22	3800
	24	8200
40-60	26	13000
60-80	28	18200
80-100	30	23800
100-150	32	38300
150-250	34	70800
250-500	37	155800
500-750	+	248300
750-1000	39	345800
1000-1250	41	448300
1250-1500	43	555800
1500-2000	45	780800
2000-2500	49	1025800
2500-3000	53	
3000-10000	55	1290800
10000-21040	60	5140800
> 21040	55	. 1988, the 60 percent marginal tax

Source: Phillips and Wolfkiel (1998). Effective January 1, 1988, the 60 percent marginal tax rate applied only to estates valued at between \$10 million and \$17.184 million.

Table 2: Distribution of 1995 Taxable Estate Tax Returns by Size of Gross Estate

Table 2: Distribution of 19	995 Taxable Estate Tax	Returns by Size of G	Number	of	Gift Tax
Size of Gross Estate (\$	Number of Taxable	Net Estate Tax	Returns	with	Girt Tun
M)	Returns		Gift Tax	** 1613	
		0.65	112		0.013
0.6 – 1.0	13,830	0.65	273		0.049
1.0 - 2.5	12,710	3.00	+		0.099
2.5 - 5.0	3,298	2.75	371		0.078
5.0 – 10.0	1,105	2.05	249		
10.0 – 20.0	390	1.38	135		0.092
	231	2.00	112		0.190
> 20	31,564	11.84	1252		0.522
TOTAL					

Source: Eller (1996), Table 1d.

Table 3: After-Tax Wealth of Beneficiaries, Bequests versus Taxable Lifetime Gifts

Table 3: After-Tax	Wealth of Beneficiari	es, Bequests versus 1	axable Lifetime Girs	Ratio, Taxable
Rate of Return	Initial Wealth of	After-Tax Value	Aller-rax value	Rutto,
	Benefactor (\$	711101	After 25 Years,	GII/Bequest
	million)	Taxable Gift	Bequest	
	\$2.000	\$3.981	\$2.806	1.419
.04	<u> </u>	6,563	4.392	1.494
06	2.000	10.822	6.950	1.557
.08	2.000	+	6.295	1.495
.04	5.000	9.408		1.568
.06	5.000	15.511	9.891	
	5.000	25.574	16.433	1.557
.0880.	1 3.000	1 the tout using 10	07 ectate and gift tax	rate schedule for the

Source: Author's tabulations as described in the text, using 1997 estate and gift tax rate schedule for the United States.

Table 4: Adjusted Taxable Gifts as a Share of Taxable Estate, by Size of Gross Estate, Estate Tax

14010 1. 11494						
Returns Filed in		T1.1.	Number of	Percent of	Total	Taxable
Gross Estate	Number of	Taxable	Returns with	Taxable	Taxable	Gifts/
	Taxable	Estate	Taxable Gifts	Returns with	Gifts	Taxable
	Returns		Taxable Gills	Taxable Gifts	1	Estate
		104047	1495	10.8%	337.2	3.2%
\$600K-\$1M	13830	10434.7		16.9	610.6	3.8
\$1M - 2.5M	12710	16203.4	2145		625.6	7.2
\$2.5M - 5M	3298	8635.2	1276	38.7		7.7
\$5M - 10M	1105	5373.1	604	54.7	413.8	
	390	3384.8	265	67.9	293.0	8.7
\$10M-20M		5004.4	168	72.7	428.7	8.6
> \$20M	231		5955	18.9	2708.8	5.5
TOTAL	31564	49035.6	7777			

Source: Eller (1996, Table 1d).

Table 5: Value of Charitable Bequest, By Net Worth, 1992 Decedents

Table 5: Value of Charitable Begu	est, By Net Worth, 1992 Decedents	CNT + WY - +le
Net Worth Category	Amount of Charitable Bequests	Percent of Net Worth
Net Worth Category	(\$million)	
- #C00V	14.5	15.7%
< \$600K	814.9	20.5
\$600K - \$1M	2031.6	21.0
\$1M - \$5M	730.5	21.0
\$5M - \$10M	4390.6	35.9
>\$10M		27.1
TOTALMODE Firm MO	7982.1	1,=

Source: Eller (1996, Figure M).

Table 6: Relative Net Worth of Heirs Based on Bequests and Taxable Gifts, Underlying Assets with

Embedded Capit Basis to Value Ratio (B/V)		Capital Gains Tax Rate (Effective	Return With Existing Owner – Return With New	Time Horizon (T)	Value Ratio, Bequest / Taxable Gift
.20 _	.37	Accrual) 0	Owner $(r - \delta)$	25	0.863
.20	.37	.10	0	25 25	0.938
.20	.55	.10	0	25 25	0.759
.50	.55	.10	.02	25	1.649
.20	.55	.10	.02	40	1.005

Source: Author's calculations as described in the text. The value ratio in the last column indicates the relative value, after T years, of an asset that is held by the older generation and then transferred as a bequest, compared with the value of a taxable gift. Equation (11) in the text defines this ratio.

Table 7: Probability of Making <u>Inter Vivos</u> Gifts of More Than \$10,000: 1995 Survey of Consumer Finances, All Households

Age of Househo	ld Head < \$600K	\$600K \$1.005	01.00	
Net Worth Defir	red Including Face V	\$600K - \$1.2M lue of Life Insurance	\$1.2M - 2.4M	> \$2.4M
< 55	0.9%			
193	(0.3)	7.3%	3.8%	15.2%
55-64	1.7	(1.0)	(1.7)	(2.4)
33-04	1	3.2	10.1	20.6
65-74	(0.6)	(1.9)	(3.1)	(3.6)
03-74	1.1	8.8	13.0	32.9
> 74	(0.6)	(2.4)	(3.4)	(3.8)
· /4	1.4	9.0	1.2	41.4
Net Worth Dofin	(0.7)	(2.9)	(6.9)	(5.7)
< 55	ed Excluding Home I			
\ 33	1.3	1.5	10.8	24.2
55-64	(0.2)	(1.9)	(2.9)	_ (3.4)
33-04	1.7	5.9	15.5	21.4
C5 74	(0.6)	(2.7)	(3.8)	(4.3)
65-74	1.4	5.6	20.8	41.3
> 74	(0.6)	(2.8)	(4.2)	(4.5)
> 74	1.7	3.5	19.3	35.3
"G. 1 11137	(0.6)	(3.6)	(7.5)	(6.1)
"Standard" Net W			···	
< 55	1.3	1.6	7.0	22.3
	(0.3)	(1.6)	(2.6)	(3.1)
55-64	1.7	5.4	8.9	24.2
	(0.6)	(2.3)	(3.4)	(4.0)
65-74	1.2	9.9	15.1	36.6
	(0.6)	(2.5)	(3.8)	(4.1)
> 74	1.4	9.6	8.7	38.3
	(0.7)	(3.0)	(6.6)	(5.0)
Net Worth Includi	ng Face Value of Life	Insurance, Only Hous	eholds With Children	1
< 55	1.1	8.1	3.1	14.9
	(0.3)	(1.2)	(2.0)	(2.8)
55 – 64	1.8	3.5	12.8	22.3
	(0.7)	(2.1)	(3.8)	(4.0)
55-74	1.2	9.6	10.6	31.5
	(0.7)	(2.7)	(3.8)	(4.2)
> 74	1.7	9.6	1.2	42.5
	(0.8)	(3.2)	(7.7)	(6.3)
Standard Net Wort	h, Probability of Mak	ting ANY Gift	(1.1)	(0.3)
< 55	13.5	19.8	18.7	25.6
_	(0.8)	(4.4)	ì	35.6
5 – 64	13.1	18.7	(7.9)	(8.5)
	(1.6)	(6.4)		39.0
55-74	11.5	29.5	(10.1)	(10.9)
•	(1.6)	(6.9)	22.2	44.6
	(1.0)	1 (0.9)	(10.4)	(10.7)

> 74		0.4	110						_	
1 ' '		9.4	11.9			9.2		48.8		1
L		(1.9)	(8.1)			(17.6)		(15.7)		ĺ
Source:	Author's	tabulations	based	on	1995	Survey	of	$\frac{1}{2}$	Finances	

Table 8: Probit Models for Probability of Inter Vivos Transfers, 1995 Survey of Consumer Finances

Explanatory	Any Repor	ted Gifts?		1995 Survey of Cons Gifts > \$10,000
Variable			Ter enna	51113 > \$10,000
Constant	-1.228	-1.181	-2.919	-2.905
	(0.115)	(0.118)	(0.374)	(0.364)
Net Worth 600K –	0.284	0.274	0.164	0.135
1.2M	(0.134)	(0.137)	(0.227)	(0.233)
Net Worth 1.2M –	0.299	0.281	0.604	0.556
2.4 M	(0.144)	(0.147)	(0.273)	(0.278)
Net Worth	0.868	0.810	1.371	1.240
> 2.4 M	(0.100)	(0.128)	(0.173)	(0.227)
Married?	0.032	0.013	-0.092	-0.112
	(0.070)	(0.071)	(0.205)	(0.207)
Age of Younger	0.0015	0.0011	0.008	0.008
Spouse	(0.0020)	(0.0020)	(0.006)	(0.006)
Wealth Share of		2.4×10^{-8}		2.0×10^{-8}
Financial Assets		(1.2×10^{-8})		(0.8×10^{-8})
Wealth Share in		-0.016		-0.009
Home Equity		(0.018)		(0.028)
Wealth Share in		-0.071		0.192
Business		(0.174)		(0.397)
Log L	-1363.52	-1354.2	-137.61	-138.01

Source: Author's estimates based on 1995 Survey of Consumer Finances. See text for further discussion. Net worth variable is the "standard" variable as discussed in the text. Sample size is 3484 households. Robust standard errors are shown in parentheses.

Table 9: Probit Models for Probability of <u>Inter Vivos</u> Transfers, Including

Basis Ratio Variable, 1995 Survey of Consumer Finances

Explanatory			Per Child Gifts > \$10,000		
Variable	Any Report	ea Gins?	Per Child Gi	tts > \$10,000	
		T			
Constant	-0.952	-0.906	-3.073	-3.101	
	(0.164)	(0.169)	(0.417)	(0.405)	
Net Worth 600K –	0.271	0.270	0.164	0.138	
1.2M	(0.134)	(0.137)	(0.228)	(0.233)	
Net Worth 1.2M -	0.295	0.287	0.609	0.561	
2.4 M	(0.144)	(0.147)	(0.273)	(0.277)	
Net Worth	0.848	0.804	1.392	1.257	
> 2.4 M	(0.101)	(0.129)	(0.170)	(0.219)	
Married?	-0.018	-0.019	-0.104	-0.108	
	(0.072)	(0.073)	(0.211)	(0.210)	
Age of Younger	-0.0001	-0.0003	0.009	0.009	
Spouse	(0.0021)	(0.0021)	(0.006)	(0.006)	
Wealth Share of		2.7x10 ⁻⁸		1.9x10 ⁻⁸	
Financial Assets		$(1.2x10^{-8})$		(0.8×10^{-8})	
Wealth Share in		-0.022		-0.007	
Home Equity		(0.021)		(0.030)	
Wealth Share in		-0.141		0.232	
Business		(0.176)		(0.393)	
Ratio of Basis to	-0.191	-0.219	0.188	0.192	
Market Value of	(0.101)	(0.105)	(0.072)	(0.075)	
Assets	,				
Log L	-1349.46	-1348.21	-137.61	-137.56	

Source: Author's estimates based on 1995 Survey of Consumer Finances. See text for further discussion. Net worth variable is the "standard" variable as discussed in the text. Sample size is 3394 households. Robust standard errors are shown in parentheses.