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Mr. Roger Fraser  
City Administrator  
City of Ann Arbor

We have compiled the accompanying Income Tax Feasibility, of the City of Ann Arbor for fiscal years 2005 through 2009, in accordance with attestation standards established by the American Institute of Certified Public Accountants.

This forecast does not present all significant financial measures that would be present in a complete set of financial statements (statement of net assets, statement of revenue, expenses and changes in net assets, and statement of cash flows). Accordingly, this forecast is not designed for those who are not informed about the City's financial position, results of operations and cash flows.

A compilation is limited to presenting in the form of a forecast, information that is the representation of management and does not include evaluation of the support for the assumptions underlying the forecast. We have not examined the forecast and, accordingly, do not express an opinion or any other form of assurance on the accompanying statements or assumptions. Furthermore, there will usually be differences between the forecasted and actual results, because events and circumstances frequently do not occur as expected, and those differences may be material. We have no responsibility to update this report for events and circumstances occurring after the date of this report.

The accompanying forecast and this report are intended solely for the information and use of the City of Ann Arbor and is not intended to be and should not be used by anyone other than these specified parties.

Plante and Moran, PLLC

November 11, 2004

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# **CITY OF ANN ARBOR, MICHIGAN**

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### **Project Objective**

The City of Ann Arbor, Michigan ("City") is conducting a study of the potential effects of instituting a city income tax in lieu of an operating property tax millage. The purpose of this study is to estimate whether an income tax is a feasible option for the City and to assess the potential burden shift between the different classes of taxpayers: residents, non-residents, and businesses.

The City's charter requires that the general operating property tax millage be eliminated if an income tax is implemented. Therefore, it is important to ensure that an income tax would generate enough revenue to offset the loss in general operating property tax revenue.

### **Project Methodology**

To meet our objective, statistical information about the City's population, worker demographics, residential household income and business income from various sources was gathered. Sources included the City, United States Census Bureau, Michigan Department of Treasury, U.S. Bureau of Labor Statistics, employer surveys, surveys of other cities which assess income tax, and market research companies. Once the source data was obtained, certain assumptions were made in order to estimate the revenue that would be generated under an income tax system and to project revenues over the next five years.

Historical data about the current property tax system was compiled by the City. Using growth rate assumptions made by City personnel, revenue that would be generated from the current property tax system was projected over the next five years.

After preparing the income tax and the property tax models as described above, the results of each were compared. Not only the total revenue which would be generated from each system, but the percentage of each revenue type that would be paid by the different classes of taxpayers (residents, non-residents, and businesses) were compared.

The analysis has been developed using the best available information concerning financial and demographic trends and conditions. As mentioned above, each model was developed using certain key assumptions and should not be evaluated without a thorough understanding of those assumptions. The assumptions and the accompanying rationale are documented in later sections of this report.

All assumptions are the responsibility of the City of Ann Arbor's management based on their best judgment at the time of the study. It is possible that the forecasted results may not be achieved because events and circumstances frequently do not occur as expected.

### **Findings**

Based on the assumptions outlined in this report, an income tax using maximum tax rates and minimum exemption allowances allowed by Michigan law could generate approximately \$45 million, net of estimated administrative costs. The City's operating property tax millage is estimated to generate approximately \$26 million of revenue in fiscal year 2005. Therefore, an income tax could generate sufficient revenue to replace the City's operating property tax millage as a revenue source.

For comparison purposes, income tax revenue using alternative exemption levels of \$1,000 and \$3,000 has been calculated. See Appendix A for the results of these calculations.

# **CITY OF ANN ARBOR, MICHIGAN**

## **Income Tax Feasibility Study Revenue Summary – Property Tax System November 2004**

### **Property Tax System – Current State**

#### Property Taxes and Millage Rates

The City currently has a property tax system which generates revenue from property owners in the City limits. The revenue is calculated by multiplying the taxable value of property by the millage rates. The following millage rates have been approved by the City for the 2004 tax year:

Operating	6.2125
Benefits	2.0948
Refuse	2.5137
Debt service	0.6000
Street repair	1.9693
Parks development	0.4601
Parks maintenance	0.4692
Parks acquisition	0.4871
AATA	2.0948
Total	16.9015

Under the City charter, if the City implements an income tax, it must eliminate the operating property tax millage (6.2125 mills). The City may continue to levy special-purpose millages; however, the operating millage must be reduced to zero. Since the special-purpose millage rates can only generate revenue to be used for specific expenditures, they are not included in any aspect of this study. All discussion and reference to “property tax revenue” in the remainder of this report will refer only to the operating millage.

#### Significant Factors Affecting the Property Tax Model

The following factors have an affect on how the property tax is calculated and projected:

- Headlee Amendment
- Proposal A
- Tax Increment Financing District
- Administration Fee

Under State law, the Headlee Amendment and Proposal A have a significant impact on the rate of revenue growth that can be achieved through property taxes.

# **CITY OF ANN ARBOR, MICHIGAN**

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## **Income Tax Feasibility Study Revenue Summary – Property Tax System November 2004**

### The Headlee Amendment

The Headlee Amendment limits the growth of property tax revenue by controlling how the City's maximum authorized millage rate is calculated. The maximum authorized millage rate is rolled back when growth on existing City property is greater than inflation, hence limiting the increase in revenue to the rate of inflation.

### Proposal A

Proposal A limits the increase in taxable value of property to the lesser of inflation or five percent annually. While the state equalized value (SEV) continues to grow with the market, the taxable value is limited by Proposal A. When property is sold or transferred, the taxable value is reset to SEV in a process referred to as "uncapping." This process results in an increase in the taxable value base for the City, however, the uncapped values are factored into the Headlee calculation and can cause a rollback.

### Tax Increment Financing District

Another matter which affects property tax revenue is the existence of a tax increment financing (TIF) plan for the City's Downtown Development Authority (DDA). Under the TIF plan, the DDA district is able to "capture" a portion of property taxes levied by the City. In other words, of the total property tax revenue collected by the City, the DDA will receive a portion of the revenue for its own use. The taxes captured by the DDA have been factored into the model.

### Administration Fee

An additional source of revenue generated under the property tax system is an administration fee of 1% of the total taxes levied on every tax bill. Property taxes are charged not only by the City, but by other units of government, including Washtenaw County, Ann Arbor Public Schools, Washtenaw Community College, Ann Arbor Public Library and the Intermediate School District. The City acts as an agent for the other units of government by billing and collecting the property taxes on their behalf. This administrative fee is charged by the City to cover its costs of administering property taxes on behalf of the other units of government. In the event that the City's operating millage is eliminated, the related administrative fee on the operating millage would be eliminated as well.

### Assumptions – Property Tax System

With assistance from personnel in the City's Assessing Department, assumptions about the growth of existing property, growth of new property, the rate of transfers of existing property, and the factors affecting the DDA capture were made. These assumptions were necessary in

# CITY OF ANN ARBOR, MICHIGAN

## Income Tax Feasibility Study Revenue Summary – Property Tax System November 2004

The assumptions used in the property tax model relating to the ad valorem roll are summarized as follows:

Factor	Growth Rate Assumption
Existing real property	7% per year
Existing personal property	(1%) per year
New property, net of losses	1.45% in 2005, decreasing by .05% each year thereafter
Rate of transfers of existing property	1.80% in 2005, increasing by .05% each year thereafter
Growth of DDA capture	6% per year

No additions to, and no significant growth of, the industrial facilities tax roll (IFT) were assumed.

The model begins with actual taxable values and state equalized values for the 2004 tax year and uses the assumptions to project revenue over the next five years. Effects of the Headlee Amendment and Proposal A are factored into the model.

### Classes of Taxpayers

In order to calculate the portion of property taxes which are paid by residents vs. businesses (non-residents do not pay property taxes), the makeup of the 2003 taxable values between homestead and non-homestead properties was compiled. Since a taxpayer must use property as a principal residence in order to qualify for a homestead exemption, the homestead totals are assumed to represent the residents of the City. Homestead properties represented 51.62% of the total taxable value, while non-homestead properties made up the

# **CITY OF ANN ARBOR, MICHIGAN**

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## **Income Tax Feasibility Study Revenue Summary – Property Tax System November 2004**

### Affect on Downtown Development Authority

According to the current model, the DDA is projected to receive between \$500,000 and \$640,000 per year over the next five years from the City's operating property tax levy. In the event that the levy is eliminated in favor of an income tax system, the DDA would lose this revenue.



## **Income Tax Feasibility Study Revenue Summary – Income Tax System November 2004**

### **Income Tax System – Proposed/Future State**

An income tax would be assessed on the taxable income of residents and corporations in the City, as well as the salaries and wages earned in the City of Ann Arbor by individuals who do not live in the City.

Under the State's Uniform City Income Tax Act (UCITA) (Public Act 284 of 1964, as amended) the voters must approve the imposition of an income tax. The maximum tax rates that can be assessed are 1% on residents and corporations and 1/2% on nonresident individuals. The rates can be lower; however, the nonresident rate cannot exceed 1/2 of the resident rate. This model was prepared using the maximum allowable rates, which are the most common rates among other cities which impose an income tax.

UCITA provides that a taxpayer is allowed a minimum deduction from income of \$600 for each personal and dependency exemption (as determined under the federal internal revenue code). Additional exemptions are allowed for taxpayers who meet certain qualifications, such as being 65 years of age or older, blind, deaf, or totally and permanently disabled. For comparison purposes, three models using different exemption rates: \$600, \$1,000, and \$3,000 have been prepared.

Another provision of UCITA specifies that residents who pay income tax to another city be allowed a credit for the amount paid to that city. Given the City's location compared to other cities that impose an income tax, the model gives consideration to residents who work and pay income taxes in the City of Detroit.

In preparing the income tax model, taxpayers were segregated into the following categories:

- Individuals who live and work in the City of Ann Arbor
- Individuals who live in Ann Arbor, but work elsewhere (non-taxing City)
- Individuals who live in Ann Arbor, but work in Detroit (taxing City)
- Individuals who work in Ann Arbor, but live elsewhere ("commuters")
- Corporations

Since the City is the home of a large university, it is appropriate to point out that in other income tax cities, students are generally treated as non-residents. Their residency is where their permanent home is (the place they will return to whenever they go away). An exception to this treatment is if a student registers to vote in the City, in which case they would be treated as a resident for income tax purposes.

# **CITY OF ANN ARBOR, MICHIGAN**

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## **Income Tax Feasibility Study Revenue Summary – Income Tax System November 2004**

Data was gathered from the U.S. Census Bureau (2000 Census) in order to determine how many people were in each of the “individual” categories above. Once the number of individuals in each category was known, the amount of taxable income for each category was estimated.

### Estimate of Taxable Income:

**Individuals who live in Ann Arbor:** Residents of the City are taxed on their taxable income, regardless of where it was earned. The amount of income subject to tax was obtained from the State of Michigan Department of Treasury. By multiplying the ratio of residents in each of the categories above by the income subject to tax for the entire City, the taxable income for each category of residents was calculated.

In addition, for the residents who work in the City of Detroit, an estimate of the credit for taxes paid to another city was made. The average salary for jobs in the Detroit area, based on data from the U.S. Bureau of Labor Statistics, was multiplied by the Detroit non-resident tax rate to calculate the average credit per worker. The average credit per worker was then multiplied by the number of residents who work in Detroit to determine the total credit for all residents who work in Detroit.

**Commuters:** Commuters are taxed on their salaries earned in the City. To estimate income subject to tax for commuters, the number of commuters was multiplied by the average salary for jobs in the Ann Arbor area, based on data from the U.S. Bureau of Labor Statistics.

**Businesses:** To assist in the estimation of income from corporations, seven cities that impose an income tax were surveyed. Statistical data about tax collections, the number of returns filed annually, the cost of administration, and the timing of collections was collected. Four of the seven cities responded to the request. Using the data obtained from the surveys, combined with corporate sales data obtained from the marketing research company Claritas, Inc., the average tax collections as a percentage of sales was calculated. A ratio to corporate sales of the City of Ann Arbor to estimate income tax from corporations was then applied.

### Estimate of Exemption Deductions:

For each of the categories of individuals, an estimate was made about personal and dependency exemptions to be claimed. The number of individuals in each category was multiplied by the average family size, based on the 2000 census; the result was multiplied by exemption rate used in each model (\$600, \$1,000, and \$3,000).

An estimate of additional exemptions for individuals over 65 was also made. The percentage of senior residents who work was calculated using data from the 2000 Census and the Current

# CITY OF ANN ARBOR, MICHIGAN

## Income Tax Feasibility Study Revenue Summary – Income Tax System November 2004

Population Survey; this percentage was multiplied by the exemption rate used in each model (\$600, \$1,000, and \$3,000).

### Growth/Projection Assumptions

In building the income tax model, the following assumptions were used in projecting income tax revenue over the next 5 years:

Data	Growth Rate Assumption	Source of Assumption
Population	1.87% over next 5 years	Claritas, Inc.
# jobs in Ann Arbor	1.50% per year	U.S. Bureau of Labor Statistics
Average annual salary	1.50% per year	Claritas, Inc.
Taxable income for residents	1.50% per year	Claritas, Inc.
Worker ratio (resident workers, commuters, etc.)	Assumed stable ratio throughout the model	N/A

### Administration Costs

As with any revenue-generating program, a variety of costs are associated with having an income tax. There are costs related to the start-up of the program, such as putting the issue out to vote, establishing an ordinance, and creating forms and instructions for each class of taxpayers. Ongoing administration costs include processing the annual returns and related payments/refunds, processing quarterly estimated tax payments, registering employers for withholding, and processing the related quarterly withholding returns. Additional costs should be considered for enforcing the income tax as well. The average administration cost for the cities that replied to the survey was 3.11% of collections.

### Revenue Projections

Based on the above assumptions, it is estimated that an income tax would generate the following revenues, net of administration costs, over the next five years (assuming a 1% resident/corporate tax rate, 0.5% non-resident and \$600 exemption level):

2005	\$44,597,000
2006	46,250,000
2007	47,969,000
2008	49,758,000
2009	51,622,000

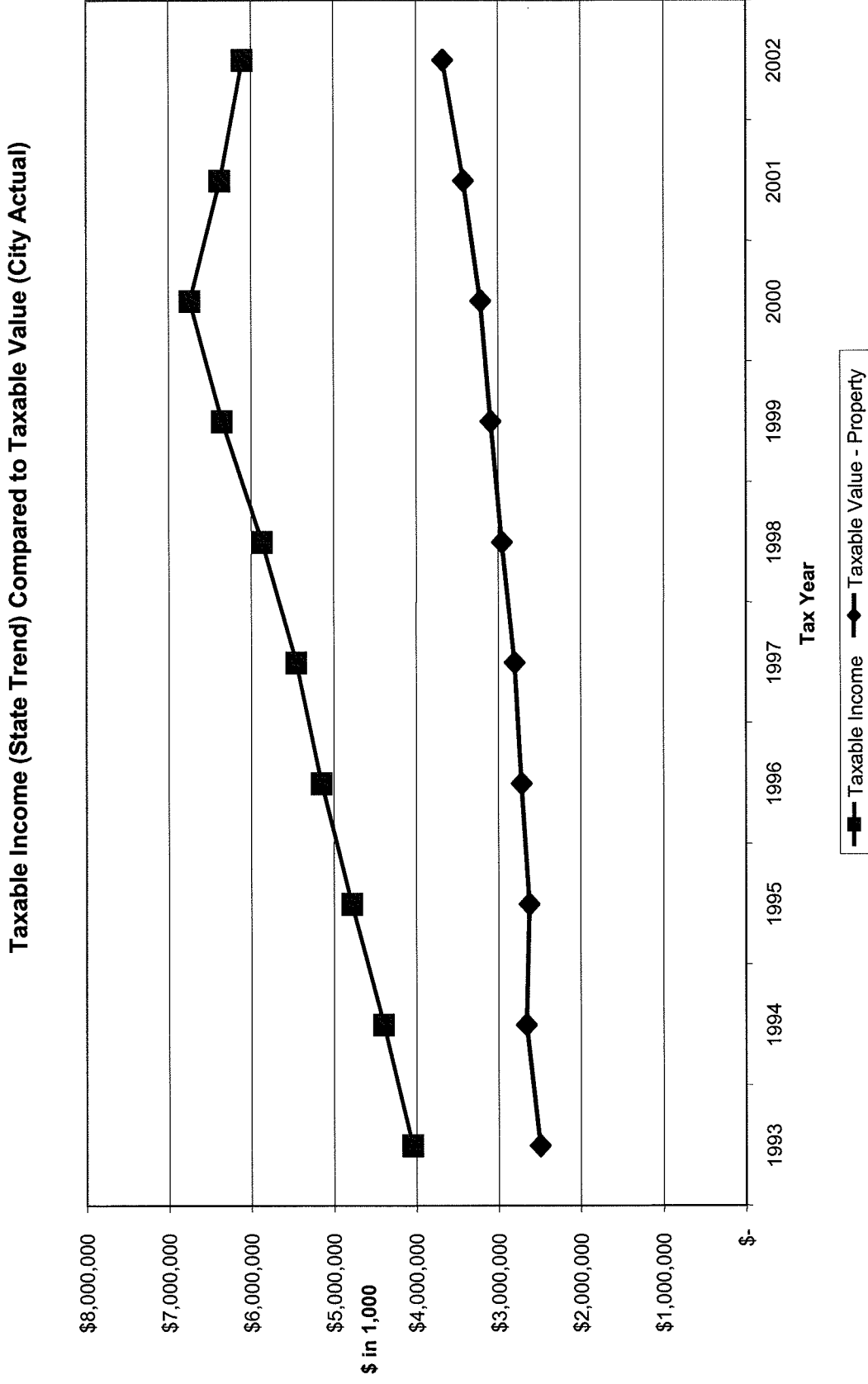
### **Historical Comparison: Tax Base**

Moving to an income tax increases a community's dependence upon the health of the general economy. The chart on the following page compares the taxable value of property versus the taxable income of residents and non residents for the City of Ann Arbor. It is important to note that the business income is not included in the taxable income estimate.

Property taxable value was provided by the City. Taxable income was based on taking 2.86% of the State AGI for the years of 1992 through 2002. State AGI was provided by the Michigan Department of Treasury and the 2.86% value was determined by comparing the taxable value developed in the model to the State 2002 AGI.

# CITY OF ANN ARBOR, MICHIGAN

## Income Tax Feasibility Study Historical Trends November 2004



# CITY OF ANN ARBOR, MICHIGAN

## Income Tax Feasibility Study Revenue Summary – Cash Flow November 2004

Under the current property tax system, the City receives its operating millage once per year. However, under an income tax system, the City would receive its revenue stream throughout the year via payroll withholdings, estimated tax payments, and with income tax returns.

Based on information obtained from other cities, the average cash flow for collection of income taxes would follow this approximate schedule. Dollar amounts are based on \$600 exemption level.

	Percent of Collections	2005	2006	2007	2008	2009
January	10.93%	\$ 5,030,860	\$ 5,217,326	\$ 5,411,224	\$ 5,613,102	\$ 5,823,395
February	7.39%	3,399,935	3,525,951	3,656,991	3,793,423	3,935,542
March	6.83%	3,143,712	3,260,232	3,381,396	3,507,547	3,638,956
April	12.56%	5,781,117	5,995,390	6,218,205	6,450,188	6,691,842
May	7.29%	3,353,907	3,478,217	3,607,483	3,742,068	3,882,263
June	6.64%	3,054,725	3,167,946	3,285,681	3,408,260	3,535,950
July	7.73%	3,556,430	3,688,247	3,825,318	3,968,030	4,116,691
August	7.51%	3,456,703	3,584,823	3,718,051	3,856,761	4,001,253
September	9.80%	4,512,278	4,679,523	4,853,434	5,034,502	5,223,118
October	8.89%	4,091,889	4,243,553	4,401,261	4,565,460	4,736,503
November	6.06%	2,787,763	2,891,089	2,998,535	3,110,401	3,226,931
December	8.38%	3,858,681	4,001,703	4,150,421	4,305,258	4,466,556
Total	100.00%	<u>\$ 46,028,000</u>	<u>\$ 47,734,000</u>	<u>\$ 49,508,000</u>	<u>\$ 51,355,000</u>	<u>\$ 53,279,000</u>

# **CITY OF ANN ARBOR, MICHIGAN**

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## **Income Tax Feasibility Study Burden Shift & Effect on Individuals November 2004**

### **Burden Shift**

By segregating the population of taxpayers into categories, the change in the share of tax burden if the City switched from a property tax system to an income tax system is estimated. Under the current property tax system, non-residents do not have a share of the burden, while individuals and corporations share the burden at 51% and 48%, respectively.

Under an income tax system, the burden would be shifted to approximately 56%, 22%, and 22% for residents, non-residents, and corporations, respectively at the \$600 exemption level.

Appendix A includes graphs to illustrate this comparison at the various exemption levels included in this analysis.

### **Effect on Individuals**

Since the City's charter indicates that they may have either an income tax or an operating millage, three tables that compare various property tax levels to income tax levels at the \$600, \$1000, and \$3,000 exemption levels have been prepared.

To use the chart, an individual would first identify the taxable value that best represents their property. The number below the taxable value is the amount of property tax that is paid for the operating millage currently at 6.2125 mills. To determine the estimated income tax that would be paid, an individual would review the taxable income column and select the row that best estimates their taxable income level. Moving to the right the amount of income tax is provided.

These charts can be found in Appendix B.

# CITY OF ANN ARBOR, MICHIGAN

## Income Tax Feasibility Study Listing of Michigan Income Tax Cities and Rates November 2004

City	Year Adopted	2003 Tax Rates			2003 Exemption Amount
		Resident	Corporate	Non-Resident	
Albion	1972	1.00	1.00	0.500	\$ 600
Battle Creek	1967	1.00	1.00	0.500	\$ 1,500
Big Rapids	1970	1.00	1.00	0.500	\$ 600
Detroit	1962	2.55	1.20	1.275	\$ 750
Flint	1965	1.00	1.00	0.500	\$ 600
Grand Rapids	1967	1.30	1.30	0.650	\$ 1,000
Grayling	1972	1.00	1.00	0.500	\$ 3,000
Hamtramck	1962	1.00	1.00	0.500	\$ 600
Highland Park	1966	2.00	2.00	1.000	\$ 600
Hudson	1971	1.00	1.00	0.500	\$ 1,000
Ionia	1994	1.00	1.00	0.500	\$ 700
Jackson	1970	1.00	1.00	0.500	\$ 600
Lansing	1968	1.00	1.00	0.500	\$ 600
Lapeer	1967	1.00	1.00	0.500	\$ 600
Muskegon	1993	1.00	1.00	0.500	\$ 600
Muskegon Heights	1990	1.00	1.00	0.500	\$ 600
Pontiac	1968	1.00	1.00	0.500	\$ 600
Port Huron	1969	1.00	1.00	0.500	\$ 1,200
Portland	1969	1.00	1.00	0.500	\$ 1,000
Saginaw	1965	1.50	1.50	0.750	\$ 1,000
Springfield	1989	1.00	1.00	0.500	\$ 1,500
Walker	1988	1.00	1.00	0.500	\$ 750



# Appendix A

**CITY OF ANN ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - EXECUTIVE SUMMARY**  
**EXEMPTION LEVEL: \$8,000**

	2005	2006	2007	2008	2009
<b>EXECUTIVE SUMMARY</b>					
Resident income tax yield	\$ 13,104,000	\$ 14,056,000	\$ 15,052,000	\$ 16,096,000	\$ 17,189,000
Non-Resident income tax yield	4,669,000	5,034,000	5,418,000	5,820,000	6,241,000
Corporate income tax yield	9,929,000	10,148,000	10,371,000	10,599,000	10,832,000
<b>TOTAL INCOME TAX EXPECTANCY</b>	<b>27,702,000</b>	<b>29,238,000</b>	<b>30,841,000</b>	<b>32,515,000</b>	<b>34,262,000</b>
Cost of administration - percent of total collections ** =	3.11%				
	861,000	909,000	959,000	1,011,000	1,065,000
<b>INCOME TAX EXPECTANCY - NET OF ADMINISTRATION COST</b>	<b>\$ 26,841,000</b>	<b>\$ 28,329,000</b>	<b>\$ 29,882,000</b>	<b>\$ 31,504,000</b>	<b>\$ 33,197,000</b>
<b>PROJECTED PROPERTY TAX REVENUE FROM OPERATING MILLAGE</b>	<b>\$ 25,936,000</b>	<b>\$ 27,047,000</b>	<b>\$ 28,237,000</b>	<b>\$ 29,484,000</b>	<b>\$ 30,622,000</b>
<b>DIFFERENCE</b>	<b>\$ 905,000</b>	<b>\$ 1,282,000</b>	<b>\$ 1,645,000</b>	<b>\$ 2,020,000</b>	<b>\$ 2,575,000</b>

\*\* Cost of administration as a percentage of collections is based on the average percentage experienced by other Michigan cities surveyed as part of this project.

NOTE: This income tax projection is a forecast. Actual results may differ from projections due to events and circumstances which may not occur as expected. Certain factors which may affect actual results include, but are not limited to, the following:

- Significant changes in the economy
- Apportionment of income by non-residents and businesses
- Changes in the City's population
- Change in the number of jobs in the City's limits due to new business and/or relocation of businesses into or out of the City

**CITY OF ANN ARBOR  
INCOME TAX FEASIBILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$8,000**

	2005	2006	2007	2008	2009
Total Ann Arbor resident income subject to tax					
<b>RESIDENT - WORKS IN ANN ARBOR</b>					
Total Number of Ann Arbor residents working in Ann Arbor	(1)				
Divide: Total number of Ann Arbor residents who work					
Percent of "Ann Arbor residents working in Ann Arbor" to "total AA resident workers"					
Times: Total income subject to tax					
Income subject to tax - residents working in Ann Arbor					
Less: Personal exemptions (Exemption Amt * # of Residents working in Ann Arbor					
* Average Family Size)					
Less: Additional exemptions for Seniors					
Taxable income before discount factor					
Discount factor					
Estimated taxable income					
Estimated tax yield (1.0%)					
<b>RESIDENT - WORKS IN DETROIT</b>					
Total number of Ann Arbor residents commuting to Detroit	(2)				
Divide: Total number of Ann Arbor residents who work					
Percent of "Ann Arbor residents commuting to Detroit" to "total AA workers"					
Times: Total income subject to tax					
Income subject to tax - residents working in Detroit					
Less: Personal exemptions (Exemption Amt * # of Residents Commuting to Detroit					
* Average Family Size)					
Taxable income before discount factor & credit for income tax paid to another city					
Discount factor					
Estimated taxable income before credit for income tax paid to another city					
Estimated tax yield (1.0%) before credit for income tax paid to another city					
Less: Credit for income tax paid to the City of Detroit (Average Salary in Detroit Area -					
Exemptions * Detroit non-resident tax rate of 1.275% * Number of residents					
commuting to Detroit)					
Estimated tax yield after credit for taxes paid to another city					

**CITY OF ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION**  
**EXEMPTION LEVEL: \$8,000**

	2005	2006	2007	2008	2009
<b>RESIDENT - WORKS IN NON-TAXING CITY</b>					
Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Less: number of Ann Arbor residents working in Ann Arbor	(2) 40,904	41,057	41,211	41,365	41,520
Less: number of Ann Arbor residents commuting to Detroit	(2) 1,306	1,311	1,316	1,321	1,326
Equals total number of City residents commuting to a non-taxing city	22,949	23,035	23,121	23,208	23,295
Divide: Total number of Ann Arbor residents who work	65,160	65,404	65,648	65,894	66,140
Percent of "Ann Arbor resident commuters to non-taxing cities" to "total AA workers"	35.22%	35.22%	35.22%	35.22%	35.22%
Times: Total income subject to tax	\$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,227,019	\$ 3,407,585,425
Income subject to tax - residents working in non-taxing city	\$ 1,130,766,359	\$ 1,147,727,854	\$ 1,164,943,772	\$ 1,182,417,928	\$ 1,200,154,197
Less: Personal exemptions (Exemption Amt * Number of residents commuting to non-taxing city	550,785,120	552,845,057	554,912,697	556,988,071	559,071,206
* Average Family Size)					
Taxable income before discount factor	579,981,238	594,882,797	610,031,075	625,429,858	641,082,991
Discount factor	85.00%	85.00%	85.00%	85.00%	85.00%
Estimated taxable income	492,984,053	505,650,378	518,526,413	531,615,379	544,920,543
Estimated tax yield (1.0%)	\$ 4,929,841	\$ 5,056,504	\$ 5,185,264	\$ 5,316,154	\$ 5,449,205
<b>NON-RESIDENT - WORKS IN ANN ARBOR (COMMUTERS)</b>					
Number of commuters into Ann Arbor - estimated U of M commuters	(6) 17,505	17,505	17,505	17,505	17,505
Number of commuters into Ann Arbor - estimated other commuters (balance)	51,091	52,581	54,094	55,632	57,195
Total number of commuters into Ann Arbor	(2) 68,596	70,086	71,599	73,137	74,700
Times: Average salary - U of M	(7) \$ 45,472	\$ 47,746	\$ 50,133	\$ 52,640	\$ 55,272
Times: Average salary - Ann Arbor	(3) 41,012	41,627	42,251	42,885	43,528
Income subject to tax - non-resident workers in AA	\$ 2,891,311,464	\$ 3,024,544,693	\$ 3,163,116,250	\$ 3,307,236,071	\$ 3,457,122,569
Less: Personal exemptions (Exemption Amt * Number of commuters * Avg family size )	1,646,307,077	1,682,055,689	1,718,381,873	1,755,294,445	1,792,802,359
Taxable income before discount factor	1,245,004,387	1,342,489,004	1,444,734,378	1,551,941,626	1,664,320,210
Discount factor	75.00%	75.00%	75.00%	75.00%	75.00%
Estimated taxable income	933,753,290	1,006,866,753	1,083,550,783	1,163,956,219	1,248,240,157
Estimated tax yield (.5%)	\$ 4,668,766	\$ 5,034,334	\$ 5,417,754	\$ 5,819,781	\$ 6,241,201
<b>CORPORATE</b>					
Estimated tax yield	(4) \$ 9,929,102	\$ 10,147,542	\$ 10,370,788	\$ 10,598,946	\$ 10,832,122

CITY OF ANN ARBOR  
INCOME TAX LIABILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$8,000

**FOOTNOTE EXPLANATIONS**

- (1) Total resident income subject to tax was provided by the State of Michigan Department of Treasury based on 2002 income tax returns for individuals with Ann Arbor zip codes. Since the City shares several zip codes with neighboring townships, we contacted the post office to determine what percentage of each zip code correlates to parcels in the City limits. The following is a breakdown of the zip codes and the related percentage attributed to Ann Arbor:
 

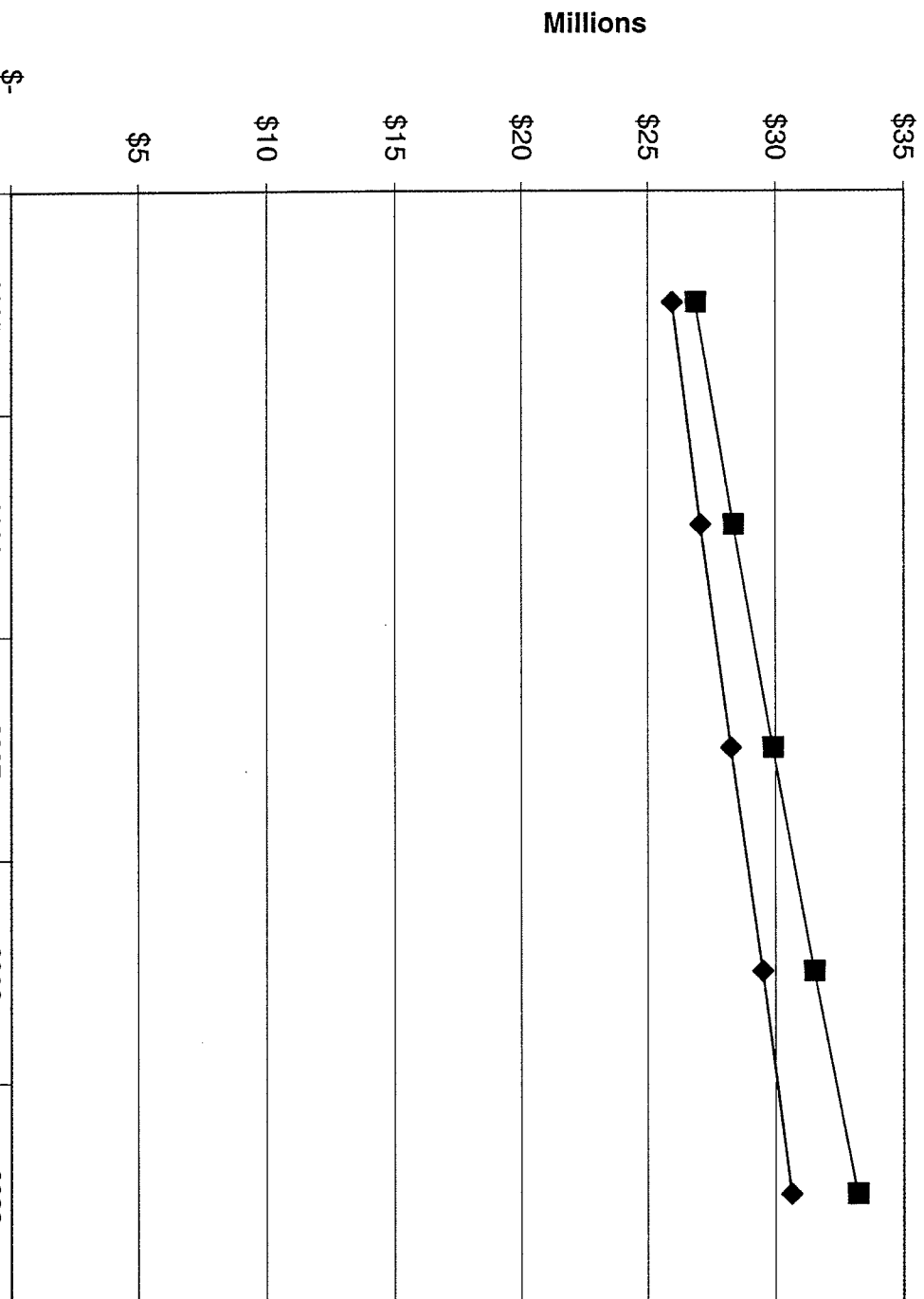
48103 - 66%
48104 - 95%
48105 - 50%
48106 - 100%
48107 - 100%
48108 - 50%
48109 - 100%
48113 - 100%

The 2002 amounts were increased by a rate of 1.5% per year to update the amount to current year values.
- (2) Source: 2000 Census (Residence MCD/County to Workplace MCD/County Flows for Michigan)
- (3) Average salary is based on Bureau of Labor Statistics Quarterly Census of Employment and Wages for the area specified. Source data is from 2003, updated to current levels assuming 1.5% increase per year.
- (4) Estimated tax yield from corporate sources was calculated based on experiences of other Michigan cities that levy income tax. The amount is calculated based on corporate taxes collected as a percentage of reported corporate sales for the City. Corporate sales was obtained from Claritas, Inc., a national organization which researches and accumulates consumer and business marketing data.
- (5) A discount factor was used to estimate income that may not be included in taxable income due to apportionment or non-compliance with filing requirements. The factor was calculated based on results of the 2003 tax year as reported by other Michigan cities surveyed as part of this project compared to our projection of tax revenue for those cities using this model.
- (6) Data obtained via survey of The University of Michigan.
- (7) Average salary for U of M employees was calculated using data provided by U of M.

# CITY OF ANN ARBOR

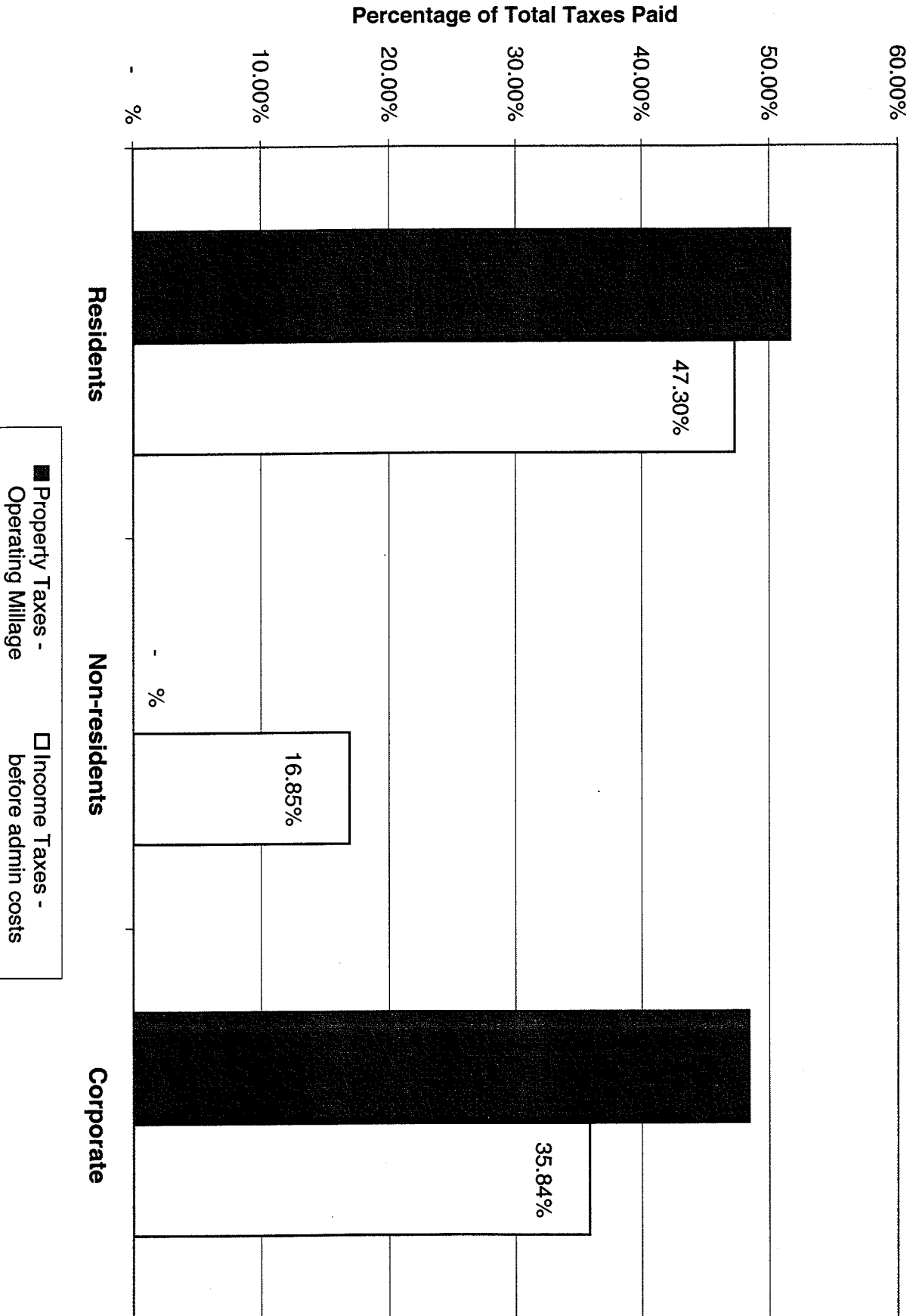
## Projected Revenue

Property Tax (Operating Millage) Compared to Income Taxes  
(\$8,000 Exemption Level)



	2005	2006	2007	2008	2009
Income Tax Revenue (net of admin costs)	\$26,841,000	\$28,329,000	\$29,882,000	\$31,504,000	\$33,197,000
Property Tax Revenue (incl. 1% admin fee)	\$25,936,000	\$27,047,000	\$28,237,000	\$29,484,000	\$30,622,000

# **CITY OF ANN ARBOR** **Projected Shift of Tax Burden** **\$8,000 Exemption Level**



**CITY OF ANN ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - EXECUTIVE SUMMARY**  
**EXEMPTION LEVEL: \$600**

	2005	2006	2007	2008	2009
<b>EXECUTIVE SUMMARY</b>					
Resident income tax yield	\$ 25,720,000	\$ 26,717,000	\$ 27,759,000	\$ 28,848,000	\$ 29,987,000
Non-Resident income tax yield	10,379,000	10,869,000	11,378,000	11,908,000	12,460,000
Corporate income tax yield	9,929,000	10,148,000	10,371,000	10,599,000	10,832,000
<b>TOTAL INCOME TAX EXPECTANCY</b>	<b>46,028,000</b>	<b>47,734,000</b>	<b>49,508,000</b>	<b>51,355,000</b>	<b>53,279,000</b>
Cost of administration - percent of total collections ** = 3.11%	1,431,000	1,484,000	1,539,000	1,597,000	1,657,000
<b>INCOME TAX EXPECTANCY - NET OF ADMINISTRATION COST</b>	<b>\$ 44,597,000</b>	<b>\$ 46,250,000</b>	<b>\$ 47,969,000</b>	<b>\$ 49,758,000</b>	<b>\$ 51,622,000</b>
<b>PROJECTED PROPERTY TAX REVENUE FROM OPERATING MILLAGE</b>	<b>\$ 25,936,000</b>	<b>\$ 27,047,000</b>	<b>\$ 28,237,000</b>	<b>\$ 29,484,000</b>	<b>\$ 30,622,000</b>
<b>DIFFERENCE</b>	<b>\$ 18,661,000</b>	<b>\$ 19,203,000</b>	<b>\$ 19,732,000</b>	<b>\$ 20,274,000</b>	<b>\$ 21,000,000</b>

\*\* Cost of administration as a percentage of collections is based on the average percentage experienced by other Michigan cities surveyed as part of this project.

NOTE: This income tax projection is a forecast. Actual results may differ from projections due to events and circumstances which may not occur as expected. Certain factors which may affect actual results include, but are not limited to, the following:

- Significant changes in the economy
- Apportionment of income by non-residents and businesses
- Changes in the City's population
- Change in the number of jobs in the City's limits due to new business and/or relocation of businesses into or out of the City



**CITY OF ANN ARBOR  
INCOME TAX FEASIBILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$600**

	2005	2006	2007	2008	2009
Total Ann Arbor resident income subject to tax	(1) \$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,222,019	\$ 3,407,585,425
<b>RESIDENT - WORKS IN ANN ARBOR</b>					
Total Number of Ann Arbor residents working in Ann Arbor	(2) 40,904	41,057	41,211	41,365	41,520
Divide: Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Percent of 'Ann Arbor residents working in Ann Arbor' to 'Total AA resident workers'	62.78%	62.78%	62.78%	62.78%	62.78%
Times: Total Income subject to tax	3,210,573,250	3,371,101,913	3,539,657,009	3,716,539,859	3,902,471,852
Income subject to tax - residents working in Ann Arbor	2,015,449,845	2,116,222,338	2,222,033,454	2,333,135,127	2,449,791,884
Less: Personal exemptions (Exemption Amt * # of Residents working in Ann Arbor	73,627,928	73,903,296	74,179,695	74,457,127	74,735,596
* Average Family Size)	5,410,200	5,410,200	5,410,200	5,410,200	5,410,200
Less: Additional exemptions for Seniors					
Taxable income before discount factor	1,936,411,717	2,036,908,841	2,142,443,560	2,253,267,800	2,369,646,087
Discount factor	85%	85%	85%	85%	85%
Estimated taxable income	(5) 1,645,949,960	1,731,372,515	1,821,077,026	1,915,277,630	2,014,199,174
Estimated tax yield (1.0%)	\$ 16,459,500	\$ 17,313,725	\$ 18,210,770	\$ 19,152,776	\$ 20,141,992
<b>RESIDENT - WORKS IN DETROIT</b>					
Total number of Ann Arbor residents commuting to Detroit	(2) 1,306	1,311	1,316	1,321	1,326
Divide: Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Percent of 'Ann Arbor residents commuting to Detroit' to 'Total AA workers'	2.00%	2.00%	2.00%	2.00%	2.00%
Times: Total Income subject to tax	\$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,222,019	\$ 3,407,585,425
Income subject to tax - residents working in Detroit	\$ 64,357,046	\$ 65,322,402	\$ 66,302,238	\$ 67,296,772	\$ 68,306,223
Less: Personal exemptions (Exemption Amt * # of Residents Commuting to Detroit	2,351,076	2,359,869	2,368,695	2,377,554	2,386,446
* Average Family Size)					
Taxable income before discount factor & credit for income tax paid to another city	62,005,970	62,962,533	63,933,543	64,919,218	65,919,777
Discount factor	85.00%	85.00%	85.00%	85.00%	85.00%
Estimated taxable income before credit for income tax paid to another city	(5) 52,705,075	53,518,153	54,343,512	55,181,335	56,031,811
Estimated tax yield (1.0%) before credit for income tax paid to another city	527,051	535,182	543,435	551,813	560,318
Less: Credit for income tax paid to the City of Detroit (Average Salary in Detroit Area -					
Exemptions * Detroit non-resident tax rate of 1.275% * Number of residents	(3) 740,219	754,321	768,688	783,326	798,239
commuting to Detroit)					
Estimated tax yield after credit for taxes paid to another city	\$ -	\$ -	\$ -	\$ -	\$ -

**CITY OF ANN ARBOR  
INCOME TAX FEASIBILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$600**

	2005	2006	2007	2008	2009
<b>RESIDENT - WORKS IN NON-TAXING CITY</b>					
Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Less: number of Ann Arbor residents working in Ann Arbor	(2) 40,904	41,057	41,211	41,365	41,520
Less: number of Ann Arbor residents commuting to Detroit	(2) 1,306	1,311	1,316	1,321	1,326
Equals total number of City residents commuting to a non-taxing city	22,949	23,035	23,121	23,208	23,295
Divide: Total number of Ann Arbor residents who work	65,160	65,404	65,648	65,894	66,140
Percent of Ann Arbor resident commuters to non-taxing cities* to "Total AA workers"	35.22%	35.22%	35.22%	35.22%	35.22%
Times: Total income subject to tax	\$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,227,019	\$ 3,407,585,425
Income subject to tax - residents working in non-taxing city	\$ 1,130,766,359	\$ 1,147,727,854	\$ 1,164,943,772	\$ 1,182,417,928	\$ 1,200,154,197
Less: Personal exemptions (Exemption Amt * Number of residents commuting to non-taxing city * Average Family Size)	41,308,884	41,463,379	41,618,452	41,774,105	41,930,340
Taxable income before discount factor	1,089,457,475	1,106,264,475	1,123,325,320	1,140,643,823	1,158,223,857
Discount factor	(5) 85.00%	85.00%	85.00%	85.00%	85.00%
Estimated taxable income	926,038,853	940,324,804	954,826,522	969,547,250	984,490,278
Estimated tax yield (1.0%)	\$ 9,260,389	\$ 9,403,248	\$ 9,548,265	\$ 9,695,472	\$ 9,844,903
<b>NON-RESIDENT - WORKS IN ANN ARBOR (COMMUTERS)</b>					
Number of commuters into Ann Arbor - estimated U of M commuters	(6) 17,505	17,505	17,505	17,505	17,505
Number of commuters into Ann Arbor - estimated other commuters (balance)	(2) 51,091	52,581	54,094	55,632	57,195
Total number of commuters into Ann Arbor	(2) 68,596	70,086	71,599	73,137	74,700
Times: Average salary - U of M	(7) 45,472	47,746	50,133	52,640	55,272
Times: Average salary - Ann Arbor	(3) 41,012	41,627	42,251	42,885	43,528
Income subject to tax - non-resident workers in AA	\$ 2,891,311,464	\$ 3,024,544,693	\$ 3,163,116,250	\$ 3,307,236,071	\$ 3,457,122,569
Less: Personal exemptions (Exemption Amt * Number of commuters * Avg family size)	123,473,031	126,154,177	128,878,640	131,647,083	134,460,177
Taxable income before discount factor	2,767,838,433	2,898,390,516	3,034,237,610	3,175,588,988	3,322,662,392
Discount factor	(5) 75.00%	75.00%	75.00%	75.00%	75.00%
Estimated taxable income	2,075,878,825	2,173,792,887	2,275,678,207	2,381,691,741	2,491,996,794
Estimated tax yield (.5%)	\$ 10,379,394	\$ 10,868,964	\$ 11,378,391	\$ 11,908,459	\$ 12,459,984
<b>CORPORATE</b>					
Estimated tax yield	(4) \$ 9,929,102	\$ 10,147,542	\$ 10,370,788	\$ 10,598,946	\$ 10,832,122

**CITY OF ANN ARBOR  
INCOME TAX FEASIBILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$600**

**FOOTNOTE EXPLANATIONS**

(1) Total resident income subject to tax was provided by the State of Michigan Department of Treasury based on 2002 income tax returns for individuals with Ann Arbor zip codes. Since the City shares several zip codes with neighboring townships, we contacted the post office to determine what percentage of each zip code correlates to parcels in the City limits. The following is a breakdown of the zip codes and the related percentage attributed to Ann Arbor:

48103 - 66%  
48104 - 95%  
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48106 - 100%  
48107 - 100%  
48108 - 50%  
48109 - 100%  
48113 - 100%

The 2002 amounts were increased by a rate of 1.5% per year to update the amount to current year values.

(2) Source: 2000 Census (Residence MCD/County to Workplace MCD/County Flows for Michigan)

(3) Average salary is based on Bureau of Labor Statistics Quarterly Census of Employment and Wages for the area specified. Source data is from 2003, updated to current levels assuming 1.5% increase per year.

(4) Estimated tax yield from corporate sources was calculated based on experiences of other Michigan cities that levy income tax. The amount is calculated based on corporate taxes collected as a percentage of reported corporate sales for the City. Corporate sales was obtained from Caritas, Inc., a national organization which researches and accumulates consumer and business marketing data.

(5) A discount factor was used to estimate income that may not be included in taxable income due to apportionment or non-compliance with filing requirements. The factor was calculated based on results of the 2003 tax year as reported by other Michigan cities surveyed as part of this project compared to our projection of tax revenue for those cities using this model.

(6) Data obtained via survey of The University of Michigan.

(7) Average salary for U of M employees was calculated using data provided by U of M.

**CITY OF ANN ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - EXECUTIVE SUMMARY**  
**EXEMPTION LEVEL: \$1,000**

	2005	2006	2007	2008	2009
<b>EXECUTIVE SUMMARY</b>					
Resident income tax yield	\$ 25,038,000	\$ 26,033,000	\$ 27,072,000	\$ 28,159,000	\$ 29,295,000
Non-Resident income tax yield	10,071,000	10,554,000	11,056,000	11,579,000	12,124,000
Corporate income tax yield	9,929,000	10,148,000	10,371,000	10,599,000	10,832,000
<b>TOTAL INCOME TAX EXPECTANCY</b>	<b>45,038,000</b>	<b>46,735,000</b>	<b>48,499,000</b>	<b>50,337,000</b>	<b>52,251,000</b>
Cost of administration - percent of total collections ** = 3.11%	1,400,000	1,453,000	1,508,000	1,565,000	1,625,000
<b>INCOME TAX EXPECTANCY - NET OF ADMINISTRATION COST</b>	<b>\$ 43,638,000</b>	<b>\$ 45,282,000</b>	<b>\$ 46,991,000</b>	<b>\$ 48,772,000</b>	<b>\$ 50,626,000</b>
<b>PROJECTED PROPERTY TAX REVENUE FROM OPERATING MILLAGE</b>	<b>\$ 25,936,000</b>	<b>\$ 27,047,000</b>	<b>\$ 28,237,000</b>	<b>\$ 29,484,000</b>	<b>\$ 30,622,000</b>
<b>DIFFERENCE</b>	<b>\$ 17,702,000</b>	<b>\$ 18,235,000</b>	<b>\$ 18,754,000</b>	<b>\$ 19,288,000</b>	<b>\$ 20,004,000</b>

\*\* Cost of administration as a percentage of collections is based on the average percentage experienced by other Michigan cities surveyed as part of this project.

NOTE: This income tax projection is a forecast. Actual results may differ from projections due to events and circumstances which may not occur as expected. Certain factors which may affect actual results include, but are not limited to, the following:

- Significant changes in the economy
- Apportionment of income by non-residents and businesses
- Changes in the City's population
- Change in the number of jobs in the City's limits due to new business and/or relocation of businesses into or out of the City

**CITY OF ANN ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION**  
**EXEMPTION LEVEL: \$1,000**

	2005	2006	2007	2008	2009
Total Ann Arbor resident income subject to tax	(1) \$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,227,019	\$ 3,407,585,425
<b>RESIDENT - WORKS IN ANN ARBOR</b>					
Total Number of Ann Arbor residents working in Ann Arbor	(2) 40,904	41,057	41,211	41,365	41,520
Divide: Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Percent of "Ann Arbor residents working in Ann Arbor" to "Total AA resident workers"	62.78%	62.78%	62.78%	62.78%	62.78%
Times: Total income subject to tax	3,210,573,250	3,371,101,913	3,539,657,009	3,716,639,859	3,902,471,852
Income subject to tax - residents working in Ann Arbor	2,015,449,845	2,116,222,338	2,222,033,454	2,333,135,127	2,449,791,884
Less: Personal exemptions (Exemption Amt. * # of Residents working in Ann Arbor	122,713,213	123,172,161	123,632,824	124,095,211	124,559,327
* Average Family Size)	9,017,000	9,017,000	9,017,000	9,017,000	9,017,000
Less: Additional exemptions for Seniors					
Taxable income before discount factor	1,893,719,632	1,984,033,177	2,069,383,630	2,200,022,916	2,316,215,556
Discount factor	(5) 85%	85%	85%	85%	85%
Estimated taxable income	1,601,161,687	1,686,428,200	1,775,976,086	1,870,019,479	1,968,783,223
Estimated tax yield (1.0%)	\$ 16,011,617	\$ 16,864,282	\$ 17,759,761	\$ 18,700,195	\$ 19,687,832
<b>RESIDENT - WORKS IN DETROIT</b>					
Total number of Ann Arbor residents commuting to Detroit	(2) 1,306	1,311	1,316	1,321	1,326
Divide: Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Percent of "Ann Arbor residents commuting to Detroit" to "Total AA workers"	2.00%	2.00%	2.00%	2.00%	2.00%
Times: Total income subject to tax	\$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,227,019	\$ 3,407,585,425
Income subject to tax - residents working in Detroit	\$ 64,357,046	\$ 65,322,402	\$ 66,302,238	\$ 67,286,772	\$ 68,306,223
Less: Personal exemptions (Exemption Amt. * # of Residents Commuting to Detroit	3,918,460	3,933,115	3,947,825	3,962,590	3,977,410
* Average Family Size)					
Taxable income before discount factor & credit for income tax paid to another city	60,438,586	61,389,287	62,354,413	63,334,182	64,328,813
Discount factor	(5) 85.00%	85.00%	85.00%	85.00%	85.00%
Estimated taxable income before credit for income tax paid to another city	51,372,798	52,180,894	53,001,251	53,834,055	54,679,491
Estimated tax yield (1.0%) before credit for income tax paid to another city	513,728	521,809	530,013	538,341	546,795
Less: Credit for income tax paid to the City of Detroit (Average Salary in Detroit Area -					
Exemptions * Detroit non-resident tax rate of 1.275% * Number of residents	(3) 740,219	754,321	768,688	783,326	798,239
commuting to Detroit)					
Estimated tax yield after credit for taxes paid to another city	\$ -	\$ -	\$ -	\$ -	\$ -

**CITY OF ANN ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION**  
**EXEMPTION LEVEL: \$1,000**

	2005	2006	2007	2008	2009
<b>RESIDENT - WORKS IN NON-TAXING CITY</b>					
Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Less: number of Ann Arbor residents working in Ann Arbor	(2) 40,904	41,057	41,211	41,365	41,520
Less: number of Ann Arbor residents commuting to Detroit	(2) 1,306	1,311	1,316	1,321	1,326
Equals total number of City residents commuting to a non-taxing city	22,949	23,035	23,121	23,208	23,295
Divide: Total number of Ann Arbor residents who work	65,160	65,404	65,648	65,894	66,140
Percent of "Ann Arbor resident commuters to non-taxing cities" to "total AA workers"	35.22%	35.22%	35.22%	35.22%	35.22%
Times: Total Income subject to tax	\$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,227,019	\$ 3,407,585,425
Income subject to tax - residents working in non-taxing city	\$ 1,130,766,359	\$ 1,147,727,854	\$ 1,164,943,772	\$ 1,182,417,928	\$ 1,200,154,197
Less: Personal exemptions (Exemption Amt * Number of residents commuting to non-taxing city * Average Family Size)	68,848,140	69,105,632	69,364,087	69,623,509	69,883,901
Taxable income before discount factor	1,061,918,219	1,078,622,222	1,095,579,685	1,112,794,420	1,130,270,297
Discount factor	85.00%	85.00%	85.00%	85.00%	85.00%
Estimated taxable income	902,630,486	916,828,889	931,242,732	945,875,257	960,729,752
Estimated tax yield (1.0%)	\$ 9,026,305	\$ 9,168,289	\$ 9,312,427	\$ 9,458,753	\$ 9,607,298
<b>NON-RESIDENT - WORKS IN ANN ARBOR (COMMUTERS)</b>					
Number of commuters into Ann Arbor - estimated U of M commuters	(6) 17,505	17,505	17,505	17,505	17,505
Number of commuters into Ann Arbor - estimated other commuters (balance)	(2) 68,596	70,086	71,599	73,137	74,700
Total number of commuters into Ann Arbor	(7) 86,101	87,591	89,104	90,642	92,205
Times: Average salary - U of M	(7) 45,472	47,746	50,133	52,640	55,272
Times: Average salary - Ann Arbor	(3) 41,012	41,627	42,251	42,885	43,528
Income subject to tax - non-resident workers in AA	\$ 2,891,311,464	\$ 3,024,544,693	\$ 3,163,116,250	\$ 3,307,226,071	\$ 3,457,122,569
Less: Personal exemptions (Exemption Amt * Number of commuters * Avg family size)	205,788,385	210,256,961	214,797,734	219,411,806	224,100,295
Taxable income before discount factor	2,685,523,079	2,814,287,732	2,948,318,516	3,087,824,266	3,233,022,274
Discount factor	75.00%	75.00%	75.00%	75.00%	75.00%
Estimated taxable income	2,014,142,309	2,110,715,799	2,211,238,887	2,315,868,199	2,424,766,705
Estimated tax yield (.5%)	\$ 10,070,712	\$ 10,553,579	\$ 11,056,194	\$ 11,579,341	\$ 12,123,834
<b>CORPORATE</b>					
Estimated tax yield	(4) \$ 9,929,102	\$ 10,147,542	\$ 10,370,788	\$ 10,598,946	\$ 10,832,122

CITY OF ANN ARBOR  
INCOME TAX FEASIBILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$1,000

**FOOTNOTE EXPLANATIONS**

(1) Total resident income subject to tax was provided by the State of Michigan Department of Treasury based on 2002 income tax returns for individuals with Ann Arbor zip codes. Since the City shares several zip codes with neighboring townships, we contacted the post office to determine what percentage of each zip code correlates to parcels in the City limits. The following is a breakdown of the zip codes and the related percentage attributed to Ann Arbor:

48103 - 66%  
48104 - 95%  
48105 - 50%  
48106 - 100%  
48107 - 100%  
48108 - 50%  
48109 - 100%  
48113 - 100%

The 2002 amounts were increased by a rate of 1.5% per year to update the amount to current year values.

(2) Source: 2000 Census (Residence MCD/County to Workplace MCD/County Flows for Michigan)

(3) Average salary is based on Bureau of Labor Statistics Quarterly Census of Employment and Wages for the area specified. Source data is from 2003, updated to current levels assuming 1.5% increase per year.

(4) Estimated tax yield from corporate sources was calculated based on experiences of other Michigan cities that levy income tax. The amount is calculated based on corporate taxes collected as a percentage of reported corporate sales for the City. Corporate sales was obtained from Claritas, Inc., a national organization which researches and accumulates consumer and business marketing data.

(5) A discount factor was used to estimate income that may not be included in taxable income due to apportionment or non-compliance with filing requirements. The factor was calculated based on results of the 2003 tax year as reported by other Michigan cities surveyed as part of this project compared to our projection of tax revenue for those cities using this model.

(6) Data obtained via survey of The University of Michigan.

(7) Average salary for U of M employees was calculated using data provided by U of M.

**CITY OF ANN ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - EXECUTIVE SUMMARY**  
**EXEMPTION LEVEL: \$3,000**

	2005	2006	2007	2008	2009
<b>EXECUTIVE SUMMARY</b>					
Resident income tax yield	\$ 21,628,000	\$ 22,611,000	\$ 23,638,000	\$ 24,712,000	\$ 25,836,000
Non-Resident income tax yield	8,527,000	8,977,000	9,445,000	9,934,000	10,443,000
Corporate income tax yield	9,929,000	10,148,000	10,371,000	10,599,000	10,832,000

**TOTAL INCOME TAX EXPECTANCY**      40,084,000      41,736,000      43,454,000      45,245,000      47,111,000

Cost of administration - percent of total collections \*\* =      3.11%      1,246,000      1,298,000      1,351,000      1,407,000      1,465,000

**INCOME TAX EXPECTANCY - NET OF ADMINISTRATION COST**      \$ 38,838,000      \$ 40,438,000      \$ 42,103,000      \$ 43,838,000      \$ 45,646,000

**PROJECTED PROPERTY TAX REVENUE FROM OPERATING MILLAGE**      \$ 25,936,000      \$ 27,047,000      \$ 28,237,000      \$ 29,484,000      \$ 30,622,000

**DIFFERENCE**      \$ 12,902,000      \$ 13,391,000      \$ 13,866,000      \$ 14,354,000      \$ 15,024,000

\*\* Cost of administration as a percentage of collections is based on the average percentage experienced by other Michigan cities surveyed as part of this project.

NOTE: This income tax projection is a forecast. Actual results may differ from projections due to events and circumstances which may not occur as expected. Certain factors which may affect actual results include, but are not limited to, the following:

- Significant changes in the economy
- Apportionment of income by non-residents and businesses
- Changes in the City's population
- Change in the number of jobs in the City's limits due to new business and/or relocation of businesses into or out of the City



**CITY OF ANN ARBOR  
INCOME TAX FEASIBILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$3,000**

	2005	2006	2007	2008	2009
Total Ann Arbor resident income subject to tax	(1) <u>\$ 3,210,573,250</u>	<u>\$ 3,258,731,849</u>	<u>\$ 3,307,612,827</u>	<u>\$ 3,357,227,019</u>	<u>\$ 3,407,585,425</u>
<b>RESIDENT - WORKS IN ANN ARBOR</b>					
Total Number of Ann Arbor residents working in Ann Arbor	(2) 40,904	41,057	41,211	41,355	41,520
Divide: Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Percent of "Ann Arbor residents working in Ann Arbor" to "total AA resident workers"	62.78%	62.78%	62.78%	62.78%	62.78%
Times: Total income subject to tax	3,210,573,250	3,371,101,913	3,539,657,009	3,716,639,859	3,902,471,852
Income subject to tax - residents working in Ann Arbor	2,015,449,845	2,116,222,338	2,222,033,454	2,333,135,127	2,449,791,884
Less: Personal exemptions (Exemption Amt * # of Residents working in Ann Arbor * Average Family Size)	368,139,639	369,516,482	370,898,473	372,285,634	373,677,982
Less: Additional exemptions for Seniors	27,051,000	27,051,000	27,051,000	27,051,000	27,051,000
Taxable income before discount factor	1,620,259,206	1,719,654,856	1,824,083,981	1,933,798,484	2,049,062,902
Discount factor	85%	85%	85%	85%	85%
Estimated taxable income	(5) <u>1,377,220,325</u>	<u>1,461,706,627</u>	<u>1,550,471,384</u>	<u>1,643,728,720</u>	<u>1,741,703,466</u>
Estimated tax yield (1.0%)	<u>\$ 13,772,203</u>	<u>\$ 14,617,066</u>	<u>\$ 15,504,714</u>	<u>\$ 16,437,287</u>	<u>\$ 17,417,035</u>
<b>RESIDENT - WORKS IN DETROIT</b>					
Total number of Ann Arbor residents commuting to Detroit	(2) 1,306	1,311	1,316	1,321	1,326
Divide: Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Percent of "Ann Arbor residents commuting to Detroit" to "total AA workers"	2.00%	2.00%	2.00%	2.00%	2.00%
Times: Total income subject to tax	\$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,227,019	\$ 3,407,585,425
Income subject to tax - residents working in Detroit	\$ 64,357,046	\$ 65,322,402	\$ 66,302,238	\$ 67,286,772	\$ 68,306,223
Less: Personal exemptions (Exemption Amt * # of Residents Commuting to Detroit * Average Family Size)	11,755,381	11,799,346	11,843,475	11,887,770	11,932,230
Taxable income before discount factor & credit for income tax paid to another city	52,601,666	53,523,057	54,458,763	55,409,002	56,373,993
Discount factor	85.00%	85.00%	85.00%	85.00%	85.00%
Estimated taxable income before credit for income tax paid to another city	(5) <u>44,711,416</u>	<u>45,494,598</u>	<u>46,289,949</u>	<u>47,097,652</u>	<u>47,917,894</u>
Estimated tax yield (1.0%) before credit for income tax paid to another city	447,114	454,946	462,899	470,977	479,179
Less: Credit for income tax paid to the City of Detroit (Average Salary in Detroit Area - Exemptions * Detroit non-resident tax rate of 1.275% * Number of residents commuting to Detroit)	(3) <u>740,219</u>	<u>754,321</u>	<u>768,688</u>	<u>783,326</u>	<u>798,239</u>
Estimated tax yield after credit for taxes paid to another city	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>	<u>\$ -</u>

**CITY OF ANN ARBOR**  
**INCOME TAX FEASIBILITY STUDY**  
**ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION**  
**EXEMPTION LEVEL: \$3,000**

	2005	2006	2007	2008	2009
<b>RESIDENT - WORKS IN NON-TAXING CITY</b>					
Total number of Ann Arbor residents who work	(2) 65,160	65,404	65,648	65,894	66,140
Less: number of Ann Arbor residents working in Ann Arbor	(2) 40,904	41,057	41,211	41,365	41,520
Less: number of Ann Arbor residents commuting to Detroit	(2) 1,306	1,311	1,316	1,321	1,326
Equals total number of City residents commuting to a non-taxing city	22,949	23,035	23,121	23,208	23,295
Divide: Total number of Ann Arbor residents who work	65,160	65,404	65,648	65,894	66,140
Percent of "Ann Arbor resident commuters to non-taxing cities" to "Total AA workers"	35.22%	35.22%	35.22%	35.22%	35.22%
Times: Total income subject to tax	\$ 3,210,573,250	\$ 3,258,731,849	\$ 3,307,612,827	\$ 3,357,227,019	\$ 3,407,586,425
Income subject to tax - residents working in non-taxing city	\$ 1,130,766,359	\$ 1,147,727,854	\$ 1,164,943,772	\$ 1,182,417,928	\$ 1,200,154,197
Less: Personal exemptions (Exemption Amt * Number of residents commuting to non-taxing city * Average Family Size)	206,544,420	207,316,896	208,092,281	208,870,526	209,651,702
Taxable income before discount factor	924,221,938	940,410,958	956,851,510	973,547,402	990,502,495
Discount factor	85.00%	85.00%	85.00%	85.00%	85.00%
Estimated taxable income	785,588,648	799,349,314	813,323,784	827,515,292	841,927,121
Estimated tax yield (1.0%)	\$ 7,855,886	\$ 7,993,493	\$ 8,133,238	\$ 8,275,153	\$ 8,419,271
<b>NON-RESIDENT - WORKS IN ANN ARBOR (COMMUTERS)</b>					
Number of commuters into Ann Arbor - estimated U of M commuters	(6) 17,505	17,505	17,505	17,505	17,505
Number of commuters into Ann Arbor - estimated other commuters (balance)	(2) 51,091	52,581	54,094	55,632	57,195
Total number of commuters into Ann Arbor	68,596	70,086	71,599	73,137	74,700
Times: Average salary - U of M	(7) \$ 45,472	\$ 47,746	\$ 50,133	\$ 52,640	\$ 55,272
Times: Average salary - Ann Arbor	(3) 41,012	41,927	42,281	42,865	43,528
Income subject to tax - non-resident workers in AA	\$ 2,891,311,464	\$ 3,024,544,893	\$ 3,163,116,250	\$ 3,307,236,071	\$ 3,457,122,589
Less: Personal exemptions (Exemption Amt * Number of commuters * Avg family size)	617,366,154	630,770,883	644,383,202	658,235,417	672,300,885
Taxable income before discount factor	2,273,945,310	2,393,773,809	2,518,723,048	2,649,000,654	2,784,821,684
Discount factor	75.00%	75.00%	75.00%	75.00%	75.00%
Estimated taxable income	1,705,459,732	1,795,330,357	1,889,042,286	1,986,750,491	2,089,616,263
Estimated tax yield (.5%)	\$ 8,527,299	\$ 8,976,652	\$ 9,445,211	\$ 9,933,752	\$ 10,443,081
<b>CORPORATE</b>					
Estimated tax yield	(4) \$ 9,923,102	\$ 10,147,542	\$ 10,370,788	\$ 10,598,946	\$ 10,832,122

CITY OF ANN ARBOR  
INCOME TAX FEASIBILITY STUDY  
ESTIMATED INCOME TAX EXPECTANCY - DETAILED CALCULATION  
EXEMPTION LEVEL: \$3,000

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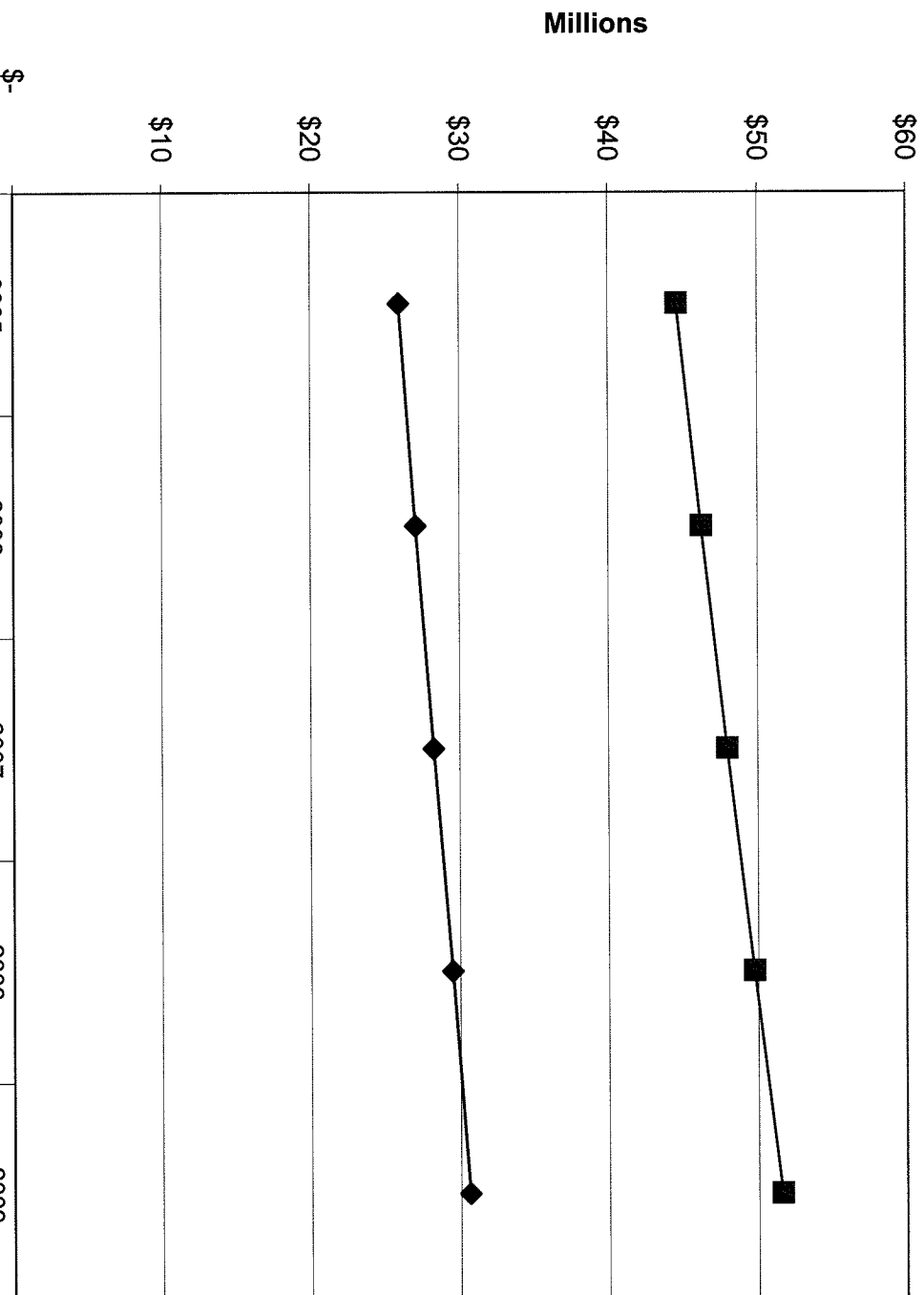
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# CITY OF ANN ARBOR

## Projected Revenue

Property Tax (Operating Millage) Compared  
to Income Taxes (\$600 Exemption Level)

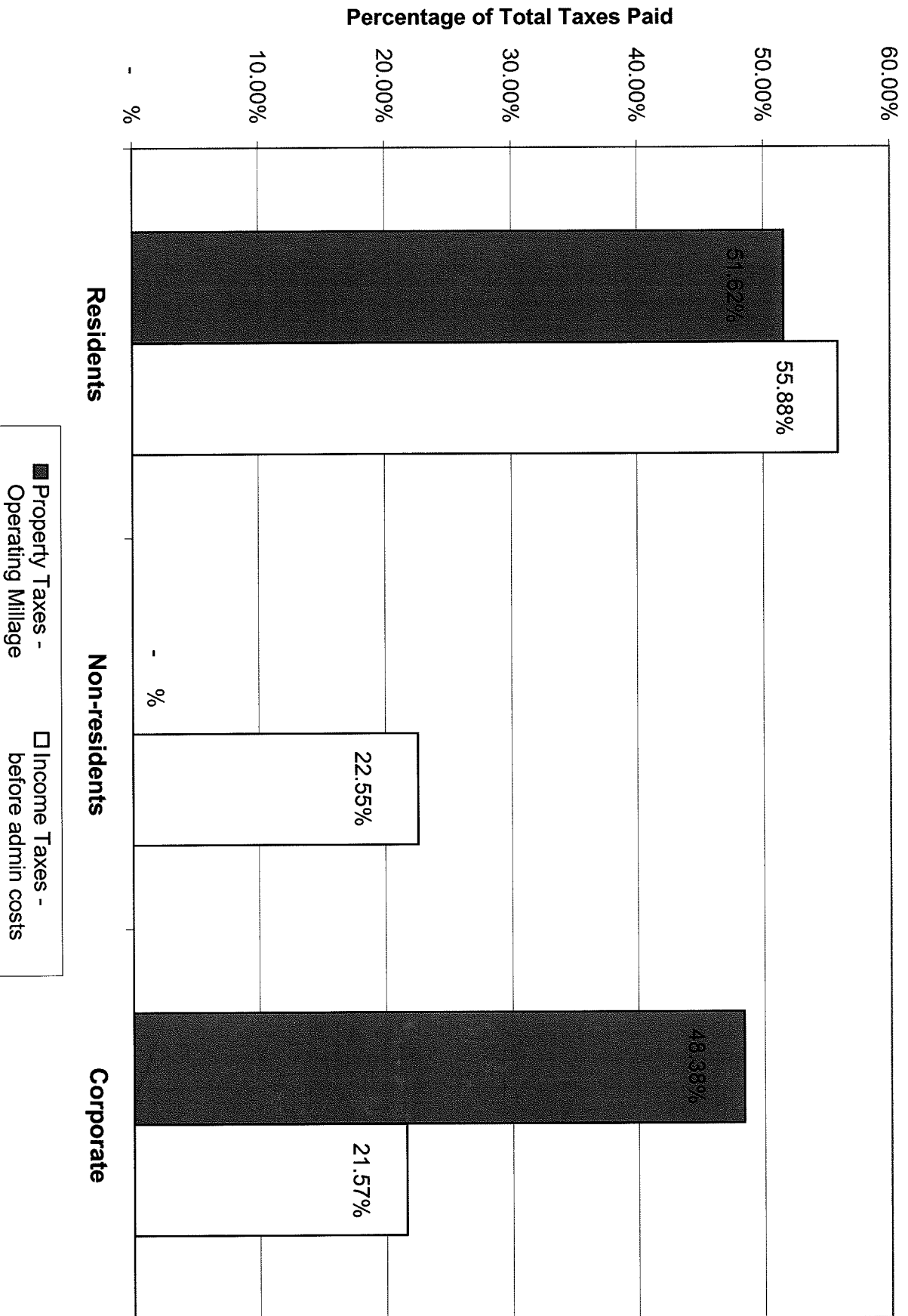


	2005	2006	2007	2008	2009
Income Tax Revenue (net of admin costs)	\$44,597,000	\$46,250,000	\$47,969,000	\$49,758,000	\$51,622,000
Property Tax Revenue (incl. 1% admin fee)	\$25,936,000	\$27,047,000	\$28,237,000	\$29,484,000	\$30,622,000

# CITY OF ANN ARBOR

## Projected Shift of Tax Burden

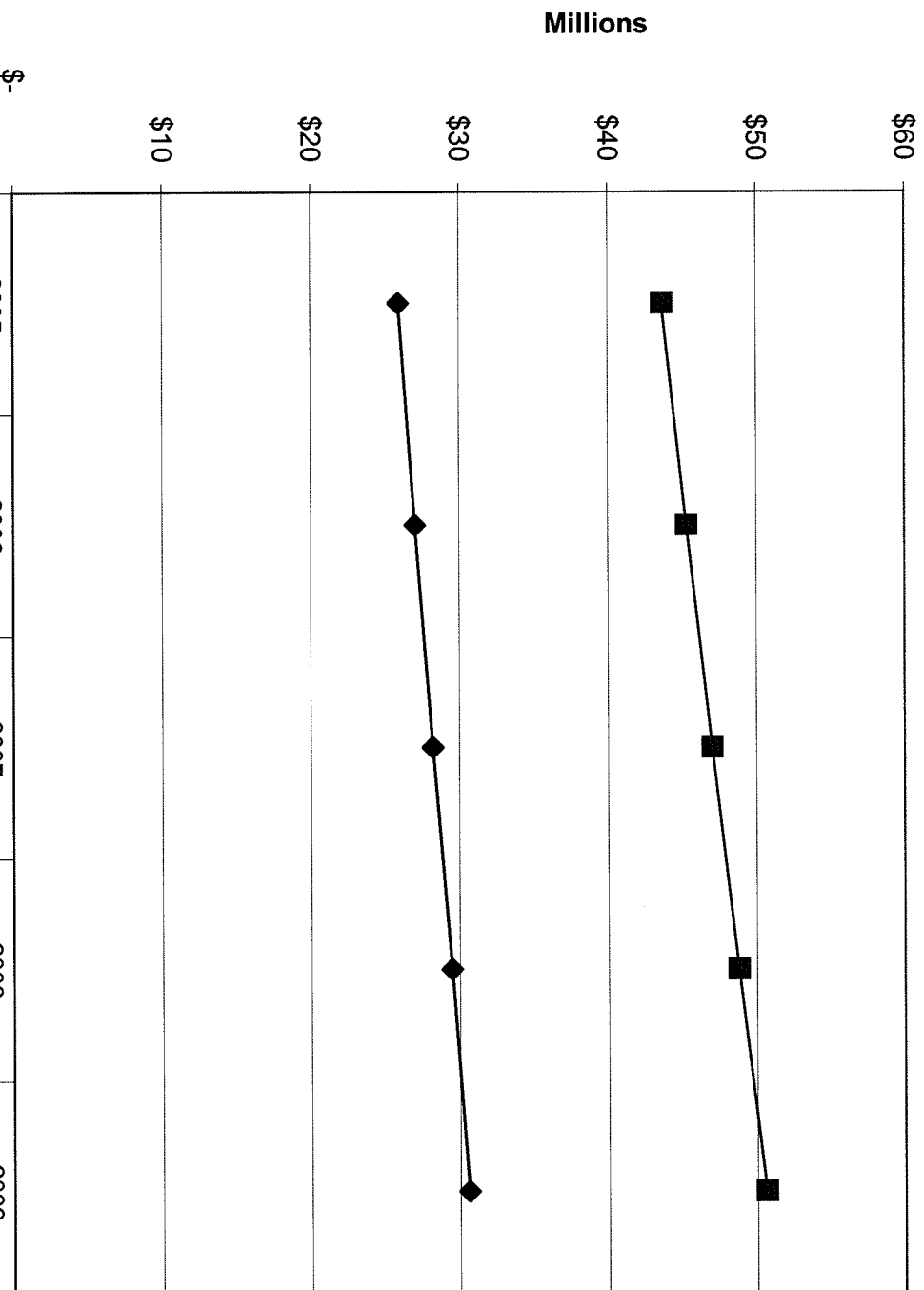
### \$600 Exemption Level



# CITY OF ANN ARBOR

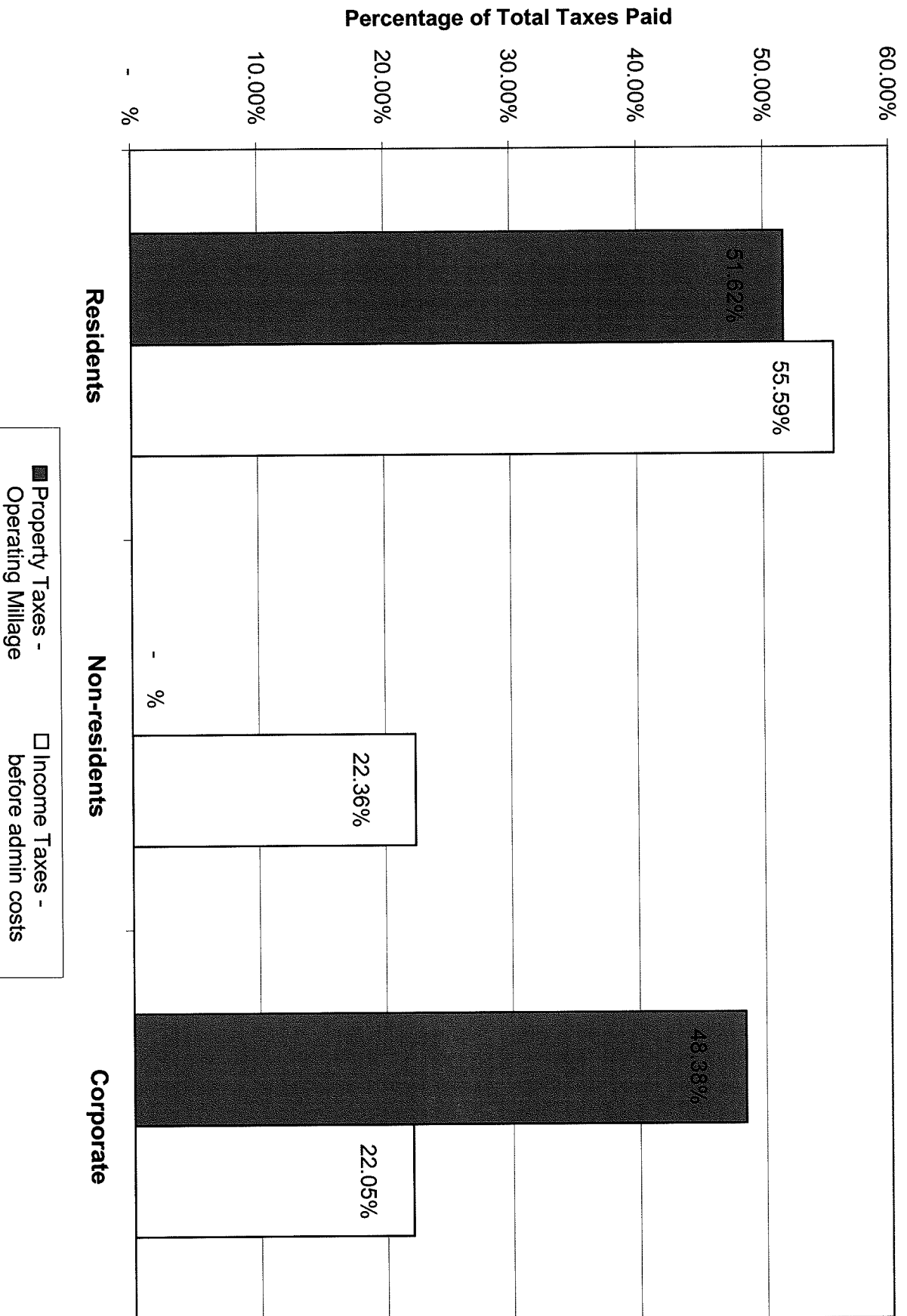
## Projected Revenue

Property Tax (Operating Millage) Compared to Income Taxes  
(\$1,000 Exemption Level)



	2005	2006	2007	2008	2009
Income Tax Revenue (net of admin costs)	\$43,638,000	\$45,282,000	\$46,991,000	\$48,772,000	\$50,626,000
Property Tax Revenue (incl. 1% admin fee)	\$25,936,000	\$27,047,000	\$28,237,000	\$29,484,000	\$30,622,000

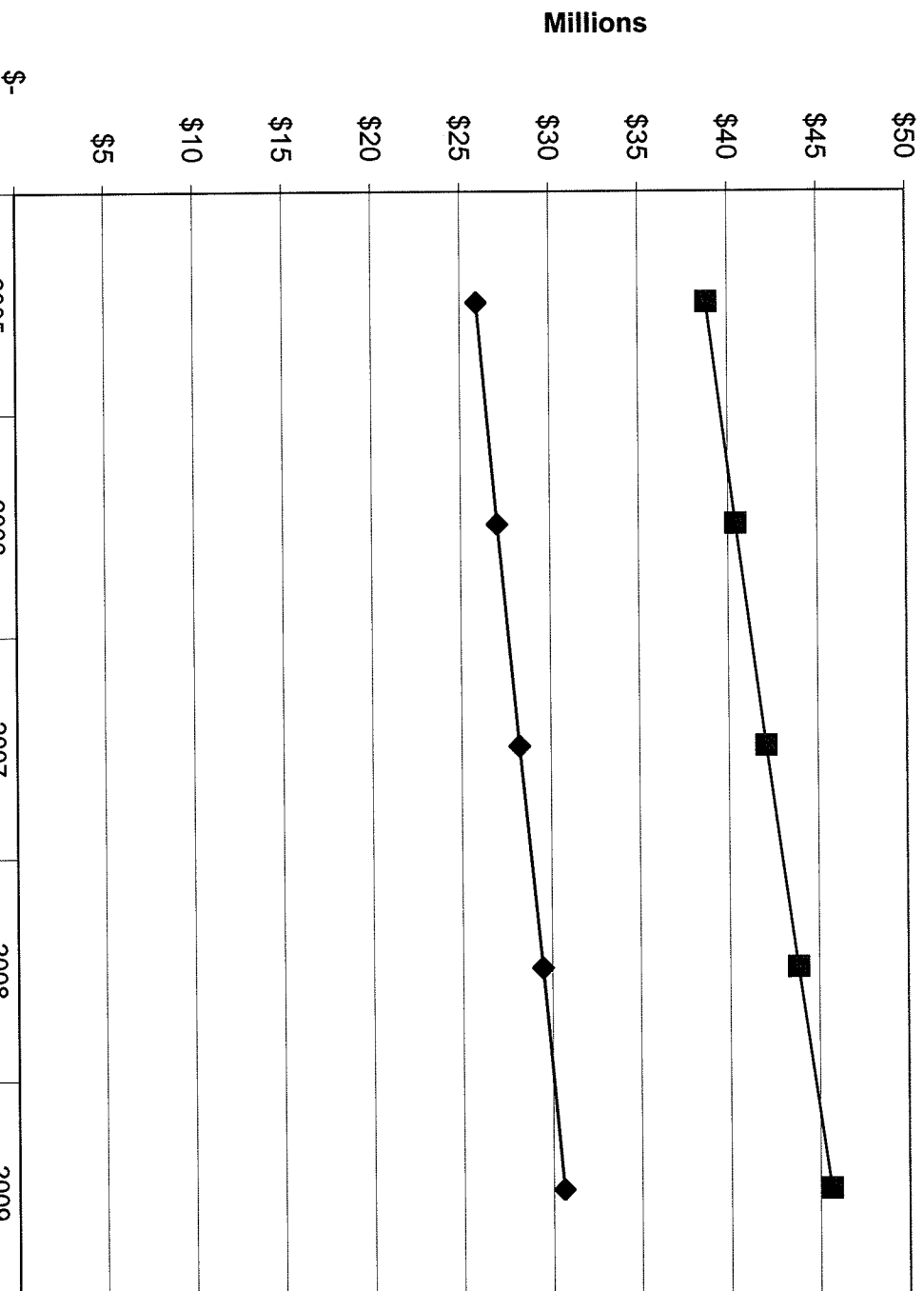
# **CITY OF ANN ARBOR** **Projected Shift of Tax Burden** **\$1,000 Exemption Level**



# CITY OF ANN ARBOR

## Projected Revenue

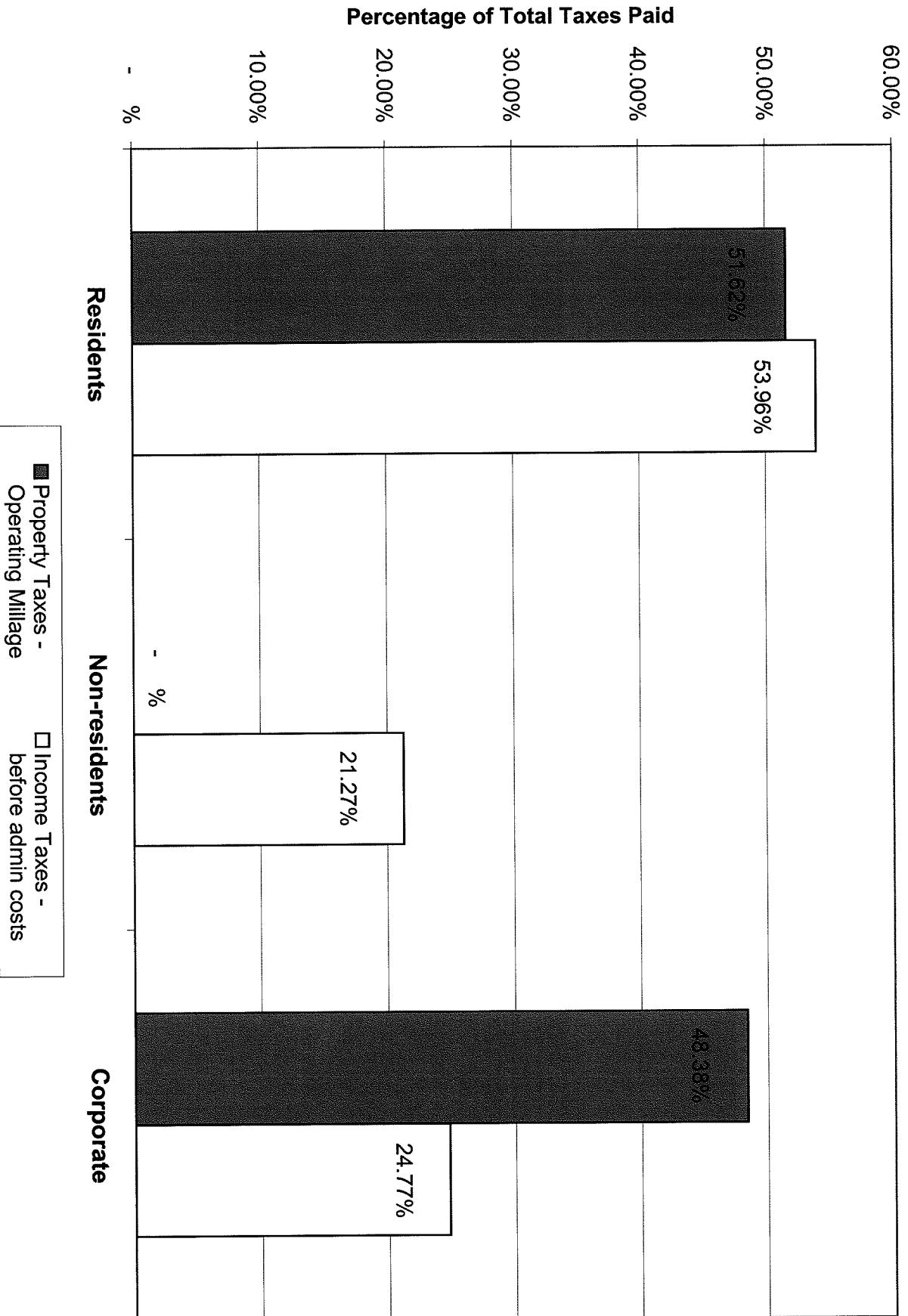
Property Tax (Operating Millage) Compared to Income Taxes  
(\$3,000 Exemption Level)



	2005	2006	2007	2008	2009
Income Tax Revenue (net of admin costs)	\$38,838,000	\$40,438,000	\$42,103,000	\$43,838,000	\$45,646,000
Property Tax Revenue (incl. 1% admin fee)	\$25,936,000	\$27,047,000	\$28,237,000	\$29,484,000	\$30,622,000



# **CITY OF ANN ARBOR** **Projected Shift of Tax Burden** **\$3,000 Exemption Level**



# Appendix B

City of Ann Arbor Income Tax Evaluation  
Comparison of Property Tax and Income Tax Burden (\$600 Exemption Level)

<b>Taxable Value</b>	\$35,000	\$50,000	\$65,000	\$80,000	\$95,000	\$110,000	\$125,000	\$140,000	\$155,000
<b>City Property Tax</b>	217	311	404	497	590	683	777	870	963
<b>Taxable Income</b>									
\$10,000	82	82	82	82	82	82	82	82	82
\$20,000	182	182	182	182	182	182	182	182	182
\$30,000	282	282	282	282	282	282	282	282	282
\$40,000	382	382	382	382	382	382	382	382	382
\$50,000	482	482	482	482	482	482	482	482	482
\$60,000	582	582	582	582	582	582	582	582	582
\$70,000	682	682	682	682	682	682	682	682	682
\$80,000	782	782	782	782	782	782	782	782	782
\$90,000	882	882	882	882	882	882	882	882	882
\$100,000	982	982	982	982	982	982	982	982	982

**Assumptions**

City operating millage rate at 6.2125 mills

\$600 deduction level per dependent

Deduction based on ability to claim 3 dependents

City of Ann Arbor Income Tax Evaluation  
Comparison of Property Tax and Income Tax Burden (\$1,000 Exemption Level)

Taxable Value	\$35,000	\$50,000	\$65,000	\$80,000	\$95,000	\$110,000	\$125,000	\$140,000	\$155,000
City Property Tax	217	311	404	497	590	683	777	870	963
Taxable Income									
\$10,000	70	70	70	70	70	70	70	70	70
\$20,000	170	170	170	170	170	170	170	170	170
\$30,000	270	270	270	270	270	270	270	270	270
\$40,000	370	370	370	370	370	370	370	370	370
\$50,000	470	470	470	470	470	470	470	470	470
\$60,000	570	570	570	570	570	570	570	570	570
\$70,000	670	670	670	670	670	670	670	670	670
\$80,000	770	770	770	770	770	770	770	770	770
\$90,000	870	870	870	870	870	870	870	870	870
\$100,000	970	970	970	970	970	970	970	970	970

**Assumptions**

City operating millage rate at 6.2125 mils

\$1,000 deduction level per dependent

Deduction based on ability to claim 3 dependents

City of Ann Arbor Income Tax Evaluation  
Comparison of Property Tax and Income Tax Burden (\$3,000 Exemption Level)

<b>Taxable Value</b>	\$35,000	\$50,000	\$65,000	\$80,000	\$95,000	\$110,000	\$125,000	\$140,000	\$155,000
<b>City Property Tax</b>	217	311	404	497	590	683	777	870	963
<b>Taxable Income</b>									
\$10,000	10	10	70	70	70	70	70	70	70
\$20,000	110	110	170	170	170	170	170	170	170
\$30,000	210	270	270	270	270	270	270	270	270
\$40,000	310	370	370	370	370	370	370	370	370
\$50,000	410	470	470	470	470	470	470	470	470
\$60,000	510	570	570	570	570	570	570	570	570
\$70,000	610	670	670	670	670	670	670	670	670
\$80,000	710	770	770	770	770	770	770	770	770
\$90,000	810	870	870	870	870	870	870	870	870
\$100,000	910	970	970	970	970	970	970	970	970

**Assumptions**

City operating millage rate at 6.2125 mills

\$3,000 deduction level per dependent

Deduction based on ability to claim 3 dependents