

Reports

1995

An Economic Analysis of The York River Basin

Kathy Corish

Marcia Berman
Virginia Institute of Marine Science

Carlton Hershner
Virginia Institute of Marine Science

Follow this and additional works at: <https://scholarworks.wm.edu/reports>



Part of the [Regional Economics Commons](#)

Recommended Citation

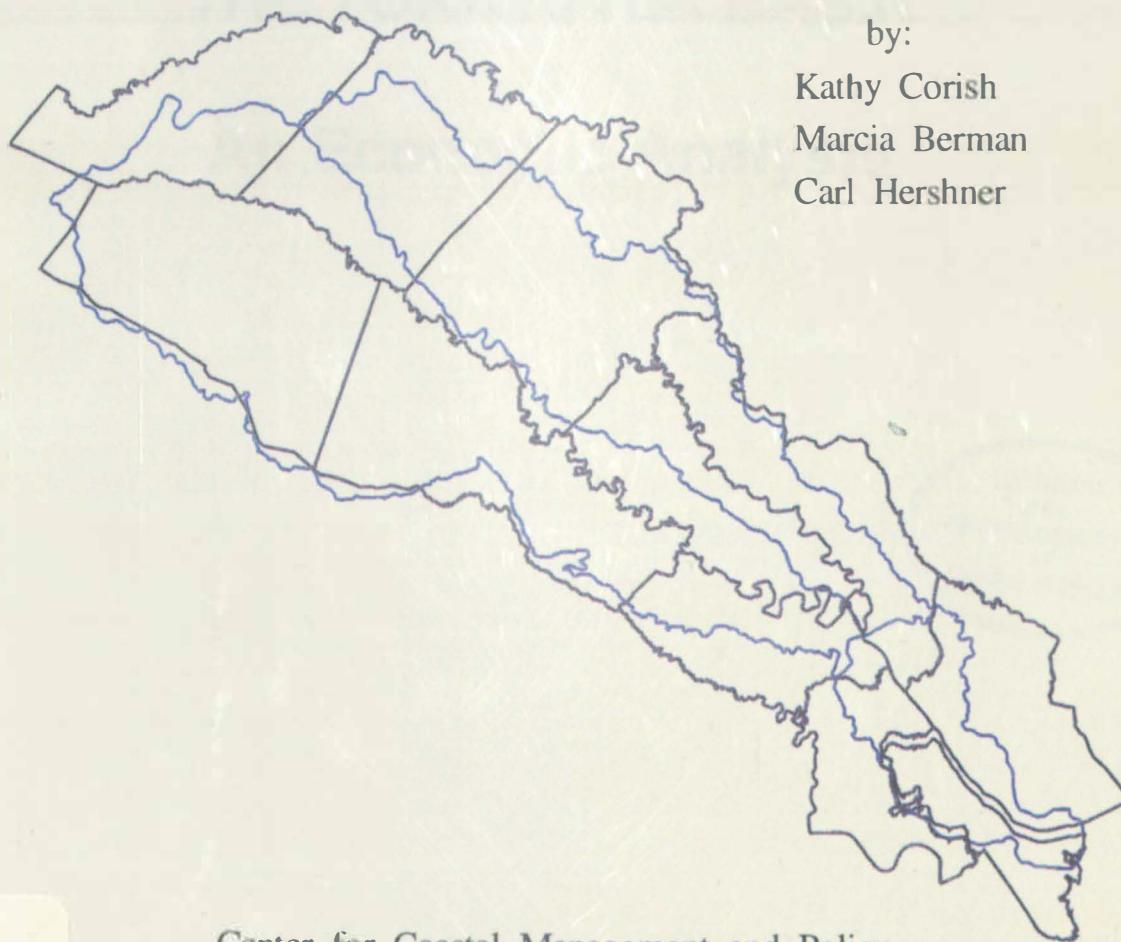
Corish, K., Berman, M., & Hershner, C. (1995) An Economic Analysis of The York River Basin. Virginia Institute of Marine Science, William & Mary. <https://scholarworks.wm.edu/reports/2311>

This Report is brought to you for free and open access by W&M ScholarWorks. It has been accepted for inclusion in Reports by an authorized administrator of W&M ScholarWorks. For more information, please contact scholarworks@wm.edu.

An Economic Analysis of The York River Basin

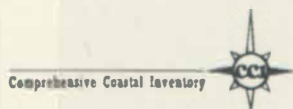
by:

Kathy Corish
Marcia Berman
Carl Hershner



Center for Coastal Management and Policy
Department of Resource Management and Policy
Virginia Institute of Marine Science
College of William and Mary
Gloucester Point, VA 23062
1995

VIMS
HC
107
V82Y67
1995
c. 2

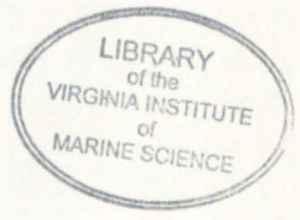


cmmp
Center for Coastal
Management and Policy

VIMS
HC
107
V82 Y67
1995
c. 2

THE YORK RIVER BASIN

An Economic Analysis



ACKNOWLEDGEMENTS

The authors of this study would like to thank all the planning officials from Caroline, Gloucester, Hanover, James City, King and Queen, King William, Louisa, New Kent, Orange, Spotsylvania, and York Counties, and the City of Williamsburg for their assistance. Special aid was also provided by the Government Documents Department at the College of William and Mary Library, and the College of William and Mary's Bureau of Business Research within the School of Business Administration. Much of the format for compiling this report was taken from *Growth Trends and Development in the Lower Rappahannock River Valley An Economic Overview* prepared by the Government Finance Research Center in Washington, D.C.

TABLE OF CONTENTS

Section	Description	Page
	List of Tables	iii
	List of Figures	iv
I	Introduction	1
II	Population	2
	General Population Growth Trends	2
	Population Demographics	3
III	Economic Indicators	14
	Residential versus Industrial and Commercial Development	14
	Per Capita Personal Income	15
	Transfer Payments	16
	Unemployment Rates	17
	Number of Employees and Employee Earnings by Industry	17
IV	Fiscal Condition	36
	Government Revenues and Expenditures	36
	Taxable Sales	36
V	Summary	42
VI	Economic Summaries of Jurisdiction within the Region	43
	Purpose	43
	Caroline County	44
	Gloucester County	49
	Hanover County	55
	James City County	60
	King and Queen County	66
	King William County	71
	Louisa County	76
	New Kent County	82
	Orange County	87
	Spotsylvania County	92
	York County	97
	City of Williamsburg	104
	Common Concerns, Goals and Objectives	109
	Conclusions	110
	Common Concerns	110
	Common Goals and Objectives	111
VII	Regional Economic Agencies	112

Table of Contents (concluded)

Section	Description	Page
Appendices		
Appendix A	General Population Demographics by Individual County	115
Appendix B	Growth in Number of Employees by Industry 1970-1980 and 1980-1990	128
Appendix C	Real Growth in Employee Earnings by Industry 1970-1980 and 1980-1990	134
Appendix D	Per Capita Wages by Industry and Real Per Capita Wages by Industry 1970 and 1980	140
Appendix E	Real Growth in Per Capita Wages by Industry 1970-1980 and 1980-1990	145
Appendix F	Taxable Sales Business Classification Codes Taxable Sales - Region Average 1980 Real Taxable Sales Region Average 1980 Taxable Sales Region Average 1991 Taxable Sales Virginia Average 1980 Real Taxable Sales Virginia Average 1980 Taxable Sales Virginia Average 1991 Taxable Sales by Individual County	155
Bibliography		201

LIST OF TABLES

Table	Description	Page
	General Population Growth Trends	
1	Population and Growth Rates 1970-1990	5
2	Future Population and Growth Rates 1990-2030	7
	Population Demographics	
3	General Population Demographics Region Average	10
	Economic Indicators	
4	Residential Building Permits Issued and Growth Rates	19
5	Nonresidential Building Permits Issued and Growth Rates	20
6	Residential Building Permits Issued as a Percent of Total Building Permits Issued	21
7	Commuting Patterns 1980	23
8	Commuting Patterns 1990	24
	Total and Per Capita Personal Income	
9	Per Capita Personal Income and Real Per Capita Personal Income	25
	Transfer Payments	
10	Transfer Payments and Real Transfer Payments	27
11	Transfer Payments as a Percentage of Total Personal Income	28
	Unemployment Rates	
12	Unemployment Rates	29
	Number of Employees by Industry	
13	Growth in Number of Employees by Industry 1970-1990	32
	Employee Earnings by Industry	
14	Real Growth in Employee Earnings by Industry 1970-1990	33
	Per Capita Wages by Industry	
15	Per Capita Wages by Industry 1990	34
16	Real Growth in Per Capita Wages by Industry 1970-1990	35

List of Tables(concluded)

Table	Description	Page
	Government Revenues and Expenditures	
17	Real Growth in Government Revenues and Expenditures Per Capita 1981-1990	38
	Taxable Sales	
18	Real Taxable Sales 1980 and Taxable Sales 1991	40
19	Real Growth in Taxable Sales 1980-1991	41

LIST OF FIGURES

Figure	Description	Page
	General Population Growth Trends	
1	Population Growth Rates: 1970-1990	6
2	Projected Population Growth Rates: 1990-2000	8
3	Population Growth: Past, Present and Projected	9
	Population Demographics	
4	Regional Age Distributions	11
5	Population Growth by Race: Region Average	12
6	Regional Growth by Race: White versus Black	13
	Residential versus Industrial and Commercial Development	
7	Total Building Permits Issued in Region and in State: Residential versus Nonresidential	22
	Per Capita Personal Income	
8	Real Per Capita Personal Income	26
	Unemployment Rates	
9	Unemployment Rates: Region, State and Nation	30
10	Unemployment Rates: Counties versus Region Average	31
	Taxable Sales	
11	Real Total Taxable Sales 1980 and Total Taxable Sales 1991	39

I. INTRODUCTION

The purpose of this report is to examine several interrelated economic factors influencing growth within the York River Watershed Region (hereinafter referred to as the Region). The Region consists primarily of eleven counties: Caroline, Gloucester, Hanover, James City, King and Queen, King William, Louisa, New Kent, Orange, Spotsylvania, and York. The City of Williamsburg is also included, separately, due to its significance and frequent listing as an independent city within the Region. The City of Williamsburg falls into both James City and York Counties; thus, figures for Williamsburg are occasionally combined with York or James City County figures.

The primary types of data examined in this report are population demographics, economic indicators, and fiscal conditions. Population demographics include: population growth patterns within the Region, and the type of population moving in and out of the Region according to age group, household type, and race. An important economic indicator is residential versus commercial and industrial development as indicated by the number of residential building permits issued and commuting patterns. Other economic indicators include: per capita personal income, transfer payments, unemployment rates, the number of employees by industry, and employee earnings by industry. Fiscal conditions pertain to government revenues and expenditures, and taxable sales.

II. POPULATION

General Population Growth Trends

Population growth and how to manage it effectively are at the base of any development goal or objective. In each of the twelve jurisdictions' comprehensive plans reviewed, population was the first issue addressed.

As Table 1 illustrates, the populations of the jurisdictions within the Region have steadily been rising from 1970 to 1990. Furthermore, the growth rate within the Region during this period was higher than that of the State. Overall, growth within the Region increased by 77% which was more than double the State increase of 33%. Spotsylvania County experienced the highest growth rate of 250% from 1970 to 1990, followed by Gloucester (114%), New Kent (97%), James City (95%), and Hanover (69%). Meanwhile, King and Queen County declined by 22% (Figure 1). Coping with rising populations in counties that are largely rural and lack the infrastructure to support these growth rates is a principal concern among municipalities within the Region.

Population projections for 1990 to 2030 predict continued rising population rates within the Region with growth rates above the Virginia average (Table 2). The rate of population growth within the Region from 1990 to 2000 is projected to increase by 21% while the State growth rate will be 11%. Spotsylvania County's rapidly rising population is predicted to continue from 1990 to 2000 at a rate of 32%, well above both the Region and State averages and the highest in the Region (Figure 2).

Figure 3 illustrates past, present, and projected growth in the Region from 1970 to 2030. It highlights those counties in the Region with significant populations. These counties include: Hanover, Spotsylvania, Gloucester, James City, and York Counties. The graph accentuates the

contrast between population growth in these five counties and the other jurisdictions in the Region. Hanover County has consistently maintained the highest population within the Region and has grown at a fairly consistent rate. This trend is expected to continue.

Population Demographics

The highest growth rates in the Region from 1970 to 1990 were for ages 25 to 44 at 140%, 65 years and older at 115%, and 45 to 64 at 74% (Table 3). General population demographics for individual counties are located in Appendix A. From 1970 to 1980 and from 1980 to 1990 growth in both the 25 to 44 years age group and the 65 years and older populations was consistent and strong (Figure 4). Significant growth rate changes during the 1970 to 1990 period occurred in the under 5 age group and those 18 to 24 years old. From 1970 to 1980, the 18 to 24 years population experienced a growth rate of 44%, but this fell to only 4% in the 1980 to 1990 period. Meanwhile, the number of children 5 years old and under increased from a growth rate in the 1970 to 1980 time period of 9% to one of 39% from 1980 to 1990. These various trends seem to suggest that the Region's population is becoming increasingly comprised of young families. This conclusion is further supported by Table 3 which reveals that family households comprised a large percentage of total households in 1990. Meanwhile, the increasing growth rates of those aged 45 to 64 years and 65 years and older are indicative of the nationwide trend toward increases in older-aged populations.

Table 3 also suggests a lack of diversity within the Region's overall population. Just as families have grown to dominate the Region, so too has the white population. Figure 5 indicates that the white population within the Region has far outgrown that of the black population and

other minorities. In several of the localities, the black population has actually declined. Overall, the growth rate of the black population has increased 1% from 1970 to 1990. Meanwhile, the white population has increased 106% (Figure 6).

POPULATION 1970-1990

	1970	1975	1980	1985	1990
Caroline	13925	16600	17904	18800	19217
Gloucester	14059	17500	20107	26400	30131
Hanover	37479	46300	50398	53100	63306
James City	17853	19300	22339	25500	34859
King & Queen	8039	5900	5968	6200	6289
King William	7497	8300	9334	10000	10913
Louisa	14004	16800	17825	18900	20325
New Kent	5300	7300	9800	10100	10445
Orange	13792	16300	18063	19300	21421
Spotsylvania	16424	23700	31995	36800	57403
York	27762	30000	35463	39600	42422
Williamsburg	9069	10000	10294	11300	11530
Region Total	185203	218000	249490	276000	328261
Region Average	15434	18167	20791	23000	27355
Virginia	4651448	5056000	5346818	5702000	6187358

POPULATION GROWTH RATES

	1970-75	1975-80	1980-85	1985-90	1970-80	1980-90	1970-90
Caroline	0.19	0.08	0.05	0.02	0.29	0.07	0.38
Gloucester	0.24	0.15	0.31	0.14	0.43	0.50	1.14
Hanover	0.24	0.09	0.05	0.19	0.34	0.26	0.69
James City	0.08	0.16	0.14	0.37	0.25	0.56	0.95
King & Queen	-0.27	0.01	0.04	0.01	-0.26	0.05	-0.22
King William	0.11	0.12	0.07	0.09	0.25	0.17	0.46
Louisa	0.20	0.06	0.06	0.08	0.27	0.14	0.45
New Kent	0.38	0.34	0.03	0.03	0.85	0.07	0.97
Orange	0.18	0.11	0.07	0.11	0.31	0.19	0.55
Spotsylvania	0.44	0.35	0.15	0.56	0.95	0.79	2.50
York	0.08	0.18	0.12	0.07	0.28	0.20	0.53
Williamsburg	0.10	0.03	0.10	0.02	0.14	0.12	0.27
Region	0.18	0.14	0.11	0.19	0.35	0.32	0.77
Virginia	0.09	0.06	0.07	0.09	0.15	0.16	0.33

Source: Virginia Statistical Abstract (1989): Tables 16.3, 16.22, and 16.23

FIGURE 1

Population Growth Rates 1970-1990

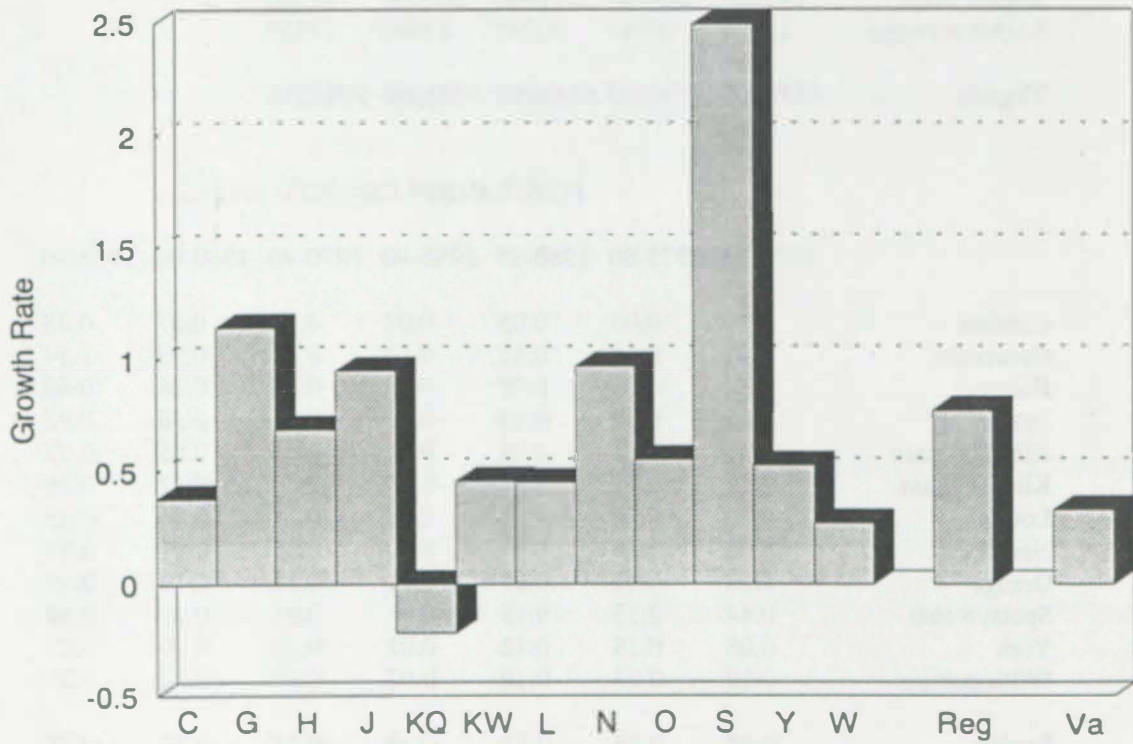


Table 2

FUTURE POPULATION 2000-2030

	2000	2010	2020	2030
Caroline	20503	21702	22901	24100
Gloucester	39042	46049	53056	60063
Hanover	77978	93491	109004	124517
James City	44273	54004	63735	73466
King & Queen	6696	6997	7298	7599
King William	12686	14127	15568	17009
Louisa	22591	24409	26227	28045
New Kent	12597	14533	16469	18405
Orange	24407	27009	29611	32213
Spotsylvania	76002	89004	102006	115008
York	49494	56000	62506	69012
Williamsburg	12564	13221	13878	14535
Region Total	398833	460546	522259	583972
Region Average	33236	38379	43522	48664
Virginia	6896557	7451158	8005759	8560360

FUTURE POPULATION GROWTH RATES

	1990-200	2000-10	2010-20	2020-30
Caroline	0.07	0.06	0.06	0.05
Gloucester	0.30	0.18	0.15	0.13
Hanover	0.23	0.20	0.17	0.14
James City	0.27	0.22	0.18	0.15
King & Queen	0.06	0.04	0.04	0.04
King William	0.16	0.11	0.10	0.09
Louisa	0.11	0.08	0.07	0.07
New Kent	0.21	0.15	0.13	0.12
Orange	0.14	0.11	0.10	0.09
Spotsylvania	0.32	0.17	0.15	0.13
York	0.17	0.13	0.12	0.10
Williamsburg	0.09	0.05	0.05	0.05
Region	0.21	0.15	0.13	0.12
Virginia	0.11	0.08	0.07	0.07

Source: Virginia Employment Commission (1993)

FIGURE 2

Projected Population Growth Rates 1990-2000

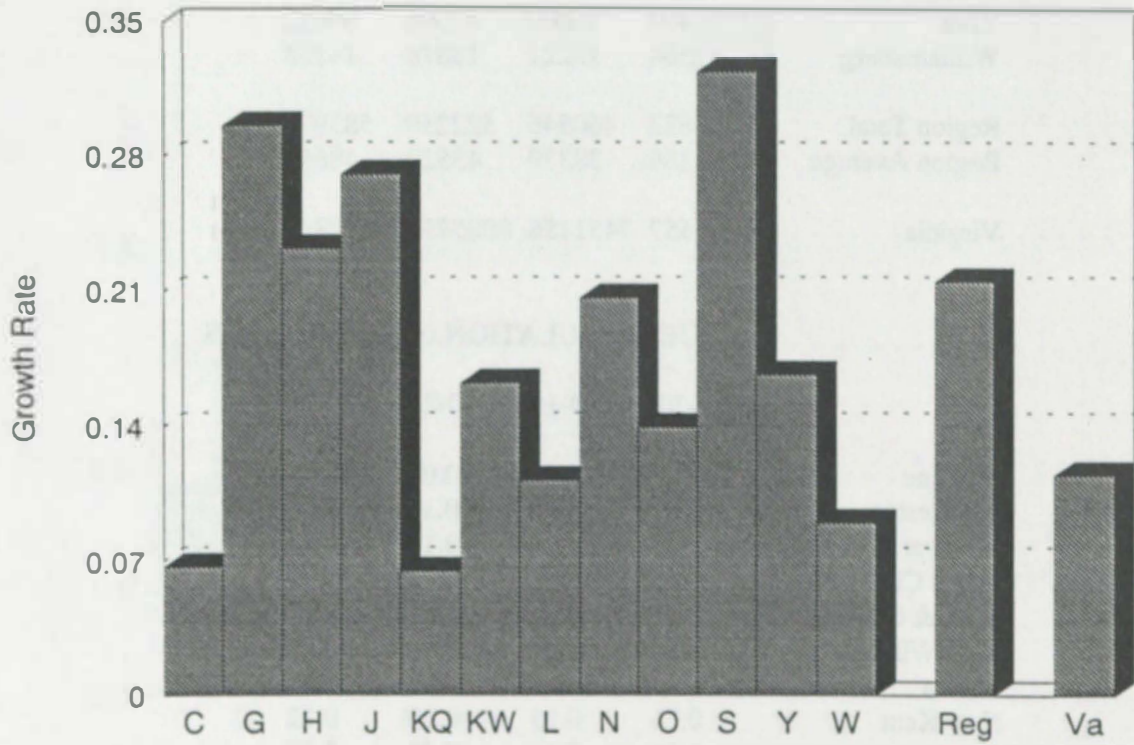
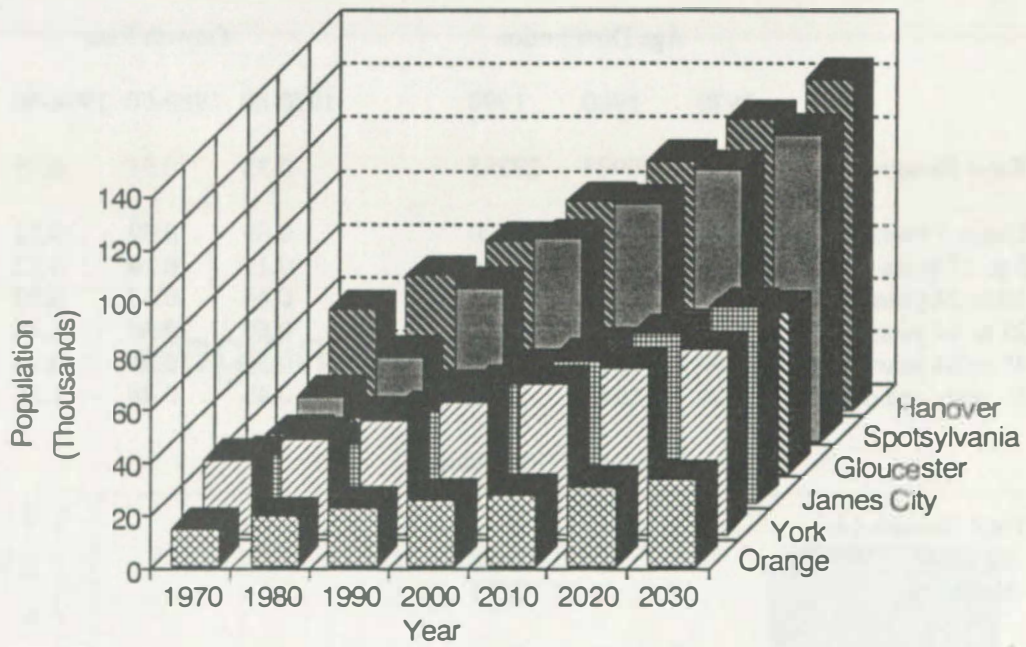


FIGURE 3

Population Growth Past, Present and Projected



Population Growth Past, Present and Projected

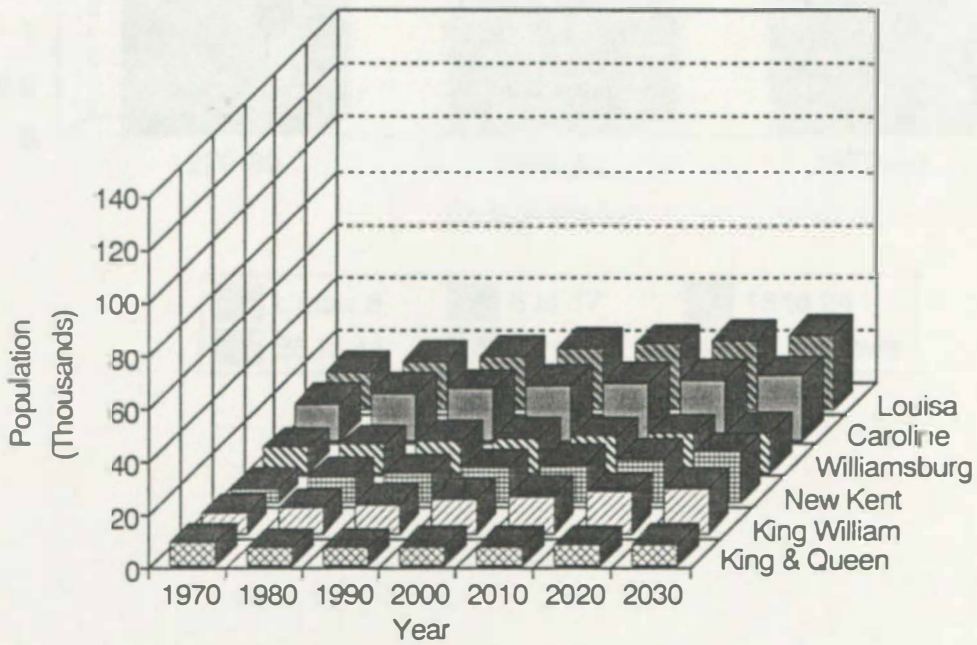


TABLE 3

GENERAL POPULATION DEMOGRAPHICS REGION AVERAGE

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	15675	20908	27355	0.33	0.31	0.75
Under 5 years	1304	1422	1970	0.09	0.39	0.51
5 to 17 years	4253	4732	5186	0.11	0.10	0.22
18 to 24 years	1883	2709	2816	0.44	0.04	0.50
25 to 44 years	3797	6077	9118	0.60	0.50	1.40
45 to 64 years	3099	4023	5388	0.30	0.34	0.74
65 years and over	1336	1942	2878	0.45	0.48	1.15
Number of Households						
Total Households			9541			
Family			7458			
Nonfamily			2107			
Population by Race						
White	11130	16238	22388	0.46	0.38	1.01
Black	4440	4443	4535	0.00	0.02	0.02
Other	92	228	432	1.48	0.90	3.70

FIGURE 4

Regional Age Distributions

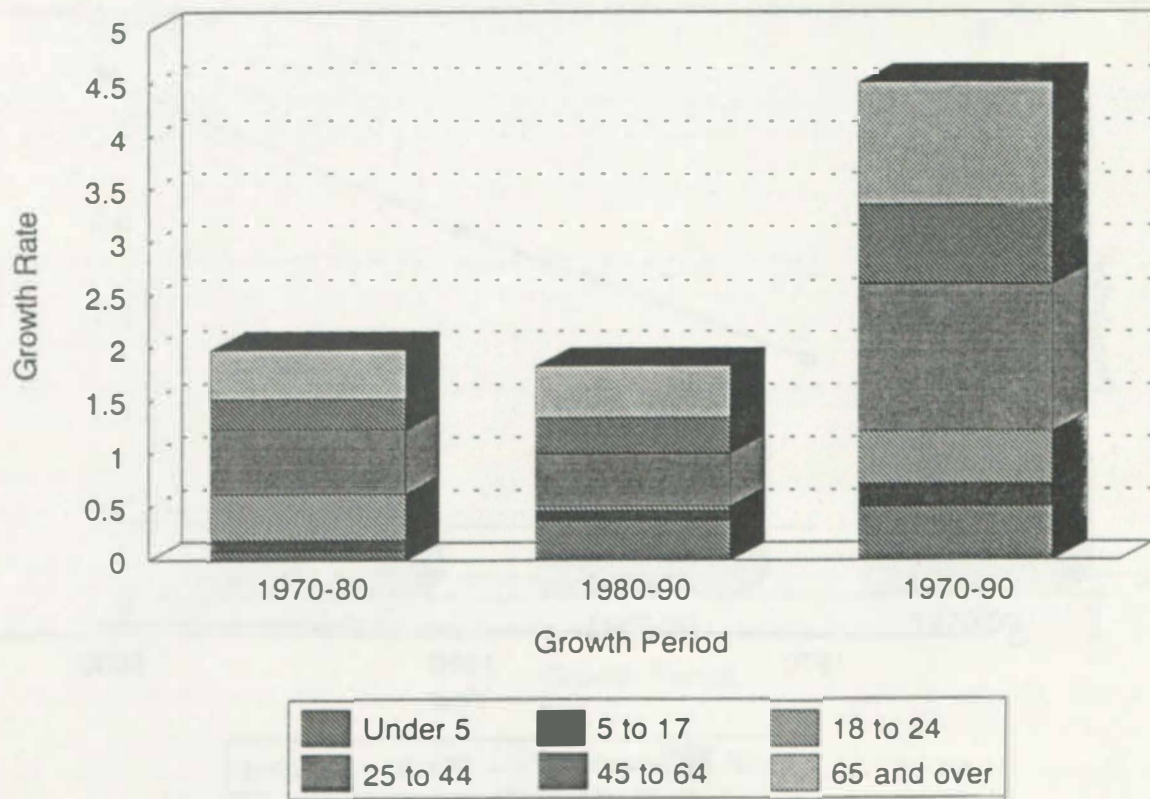


FIGURE 5

Population Growth by Race Region Average

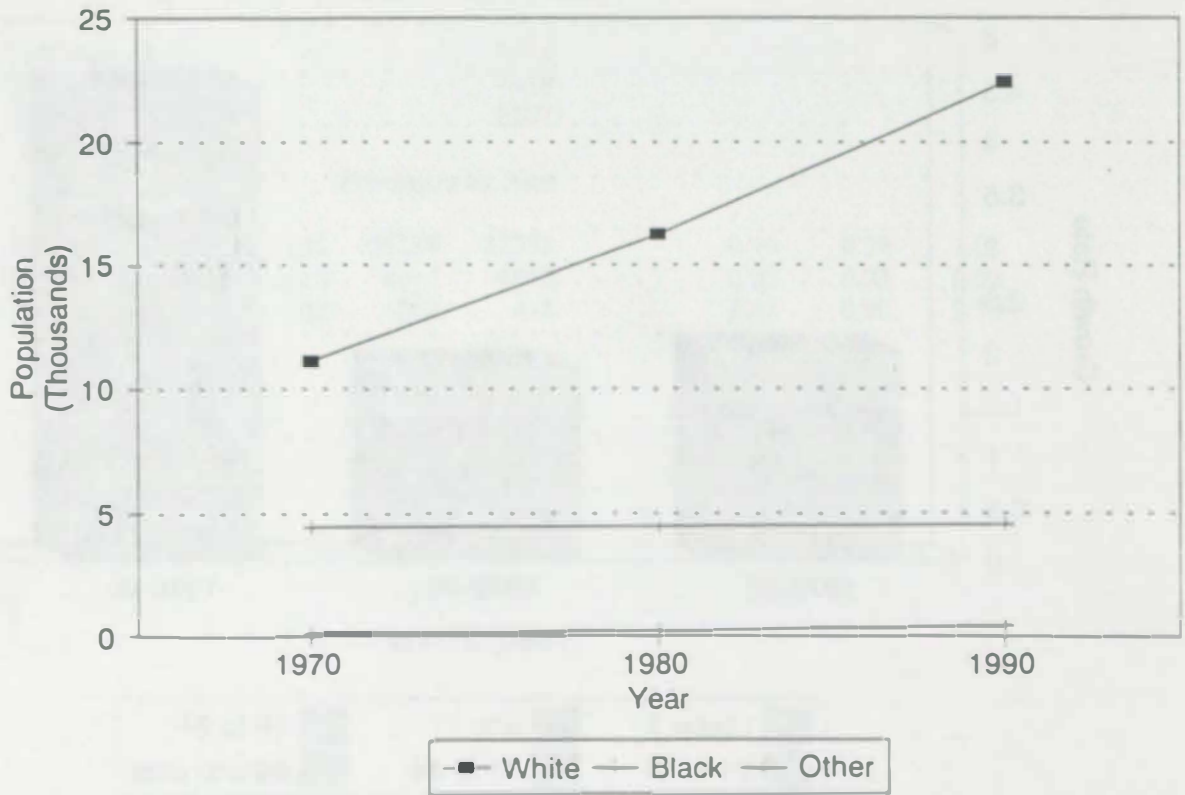
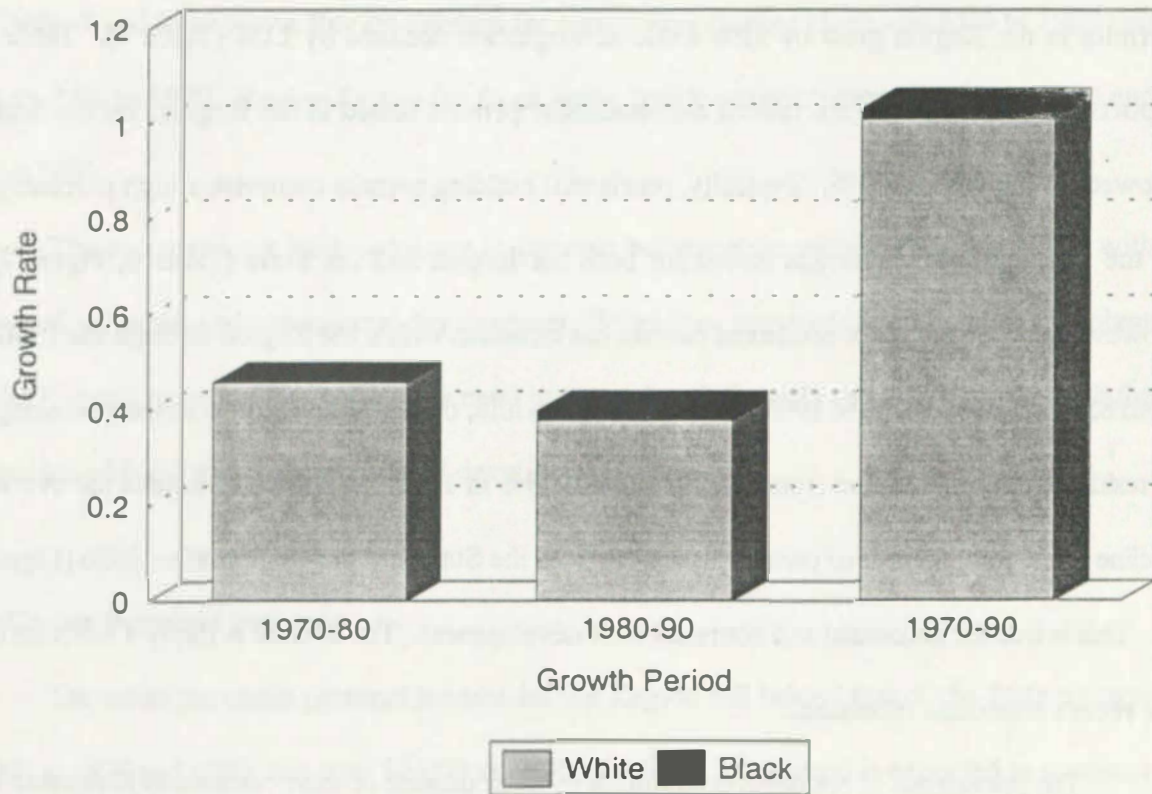


FIGURE 6

Regional Growth by Race

White versus Black



III. ECONOMIC INDICATORS

Residential versus Industrial and Commercial Development

Often residential growth within counties is a function of proximity to large metropolitan centers located outside the county borders. The result is the development of "bedroom communities", or large residential areas where residents typically commute to the surrounding metropolitan centers for work.

Tables 4, 5, and 6 show the high degree of residential to nonresidential building permits issued in the Region from 1980 to 1990. Between 1980 and 1990, the issuance of residential permits in the Region grew by 52% while in Virginia it declined by 11% (Table 4). Table 5 reports a 32% decline in the rate of nonresidential permits issued in the Region, yet the State showed an increase of 13%. Typically, residential building permits comprise a high percentage of the total number of permits issued for both the Region and the State (Table 6, Figure 7). However, the percentage of residential permits has increased within the Region through the 1980's from 83% in 1980 to 85% in 1990 (Table 6). Meanwhile, the State saw a drop in the percentage of residential permits issued from 83% in 1980 to 79% in 1990. Important to note is the overall decline in the total number of permits issued for both the State and the Region after 1986 (Figure 7). This is true for residential and nonresidential development. The decline is likely a function of the recent economic recession.

The prevalence of residents commuting to work outside of their counties is illustrated in Tables 7 and 8. The percent of residents in the Region working outside their county averaged 66% and 65% for 1980 and 1990, respectively. The City of Williamsburg, which has a good base of commercial development, was the exception with only 23% of the work force in 1990 working

outside the jurisdiction. Orange County also had low percentages for 1980 and 1990 at 36% and 46%, respectively (Table 8).

Development that is primarily residential is at the core of many of the economic problems within these localities. The lack of commercial growth creates a weak economic tax base that cannot provide a strong infrastructure of roads, utilities, and community services. The dilemmas of a weak economic base are exacerbated as daily commuters and other residents spend money outside their jurisdictions. Furthermore, the increased traffic due to sprawling residential development and the lack of mass transit add to the need for expanded transportation networks. As Tables 7 and 8 show, the Region average for commuters driving alone was 63% in 1980 and rose to 77% in 1990. Region figures for those using public transportation was 2% in 1980 and 1% in 1990.

The increased tax base necessary to provide better public utilities is only possible with increased industrial and commercial development. Therefore, many of the comprehensive plans for the Region's municipalities outline the need to expand and diversify their tax base through the promotion of industrial and commercial development.

Per Capita Personal Income

The actual per capita personal income for the Region fell behind that of the State by over \$1,000 in 1970 and 1980, and over \$2,000 in 1990 (Table 9). This trend is expected to continue since the per capita income growth rate for the Region and the State was roughly equal from 1980 to 1990 at 25% and 26%, respectively. The county breakdowns for 1990 per capita income show Hanover, New Kent, and York Counties above per capita personal income figures reported for

the Region and Virginia. Figures for the three counties were \$21,395, \$20,928, and \$20,687, respectively. Figures for the Region and the State were \$17,465 and \$19,701. New Kent County experienced the greatest increase in per capita income from 1970 to 1990 at 100%. It climbed from the fourth lowest regional income figure in 1970 to the second highest in 1990. Meanwhile, Spotsylvania County experienced the lowest regional growth rate from 1970 to 1990 at 28%. In 1970, Spotsylvania had the second highest per capita personal income figure, just under Hanover County. In 1990, Spotsylvania dropped to the seventh lowest per capita personal income figure (Table 9, Figure 8).

Transfer Payments

Transfer payments represent assistance to individuals through means such as Social Security, Welfare, Medicare, Medicaid, Aide to Families with Dependent Children, and food stamps (Table 10). When expressed as a percentage of total personal income, transfer payments illustrate how much of the total income in a jurisdiction is provided by these agencies and programs. When viewed in conjunction with other economic data these payments provide insight into the economic health of an area.

As Table 11 indicates, transfer payments as a percentage of total personal income in the Region were approximately equal to those of the State for 1970, 1980, and 1990. On a county-by-county basis, however, the variability was much greater. The contribution of transfer payments to the total personal income was consistently the lowest for Hanover County for the three years studied. King William, Spotsylvania, and York Counties were relatively consistent with regional figures for each of the three time periods examined. When compared with the 1980 and 1990

rates for the Region, transfer payments comprised a higher percentage of the total personal income for Caroline, Gloucester, King and Queen, Louisa, Orange, and Williamsburg/James City Counties. King and Queen County had the highest percentages for 1980 and 1990 at 19% and 21%, respectively.

Unemployment Rates

From 1980 to 1991, the unemployment rates for the Region were similar to those for Virginia, differing by less than 1.0% for each year (Table 12). Meanwhile, the unemployment rates for the Nation were 1.0 to 2.0% higher than rates reported for Virginia or the Region (Figure 9). Caroline, and King and Queen Counties consistently had the highest unemployment rates in the Region while unemployment rates for Gloucester, Hanover, New Kent, and York Counties remained below the Region average during the 1980's (Figure 10).

Number of Employees by Industry and Employee Earnings by Industry

Those industries within the Region experiencing the most growth from 1970 to 1990 with respect to the total number of employees were: finance, insurance, and real estate (345%), wholesale trade (329%), construction (298%), and services (234%) (Table 13). Similar patterns exist in the State. The number of employees in the farming industry within the Region experienced a 37% decline between 1970 and 1990 while the decline in Virginia was 36% for the same period. The percentage of workers in the Region and Virginia in the various sectors were fairly similar from 1970 to 1990 (Appendix B).

In terms of total employee earnings by industry in the Region, the government sector had the highest earnings for 1970 and 1980. In 1990, however, services surpassed the government in total earnings. This is similar to trends statewide in which the total employee earnings in service industries surpassed the government in 1990 (Appendix C). The highest growth rate increases in employee earnings for the Region from 1970 to 1990 were in wholesale trade (325%), services (247%), construction (227%), and finance, insurance, and real estate (181%) (Table 14). In general, growth rates in employee earnings in Virginia were much lower than rates in the Region.

Industries paying the highest 1990 per capita wages in the Region were: manufacturing (\$30,353), transportation and public utilities (\$30,013), mining (\$27,734), and wholesale trade (\$25,847) (Table 15). Per capita wages by industry for 1970 and real growth in wages for 1970 through 1990 are in Appendix D. On a statewide scale these sectors were also top ranked, however, the per capita wages tended to be higher at the State level in mining (\$45,508), transportation and public utilities (\$33,855), and wholesale trade (\$32,694). The exception was manufacturing at \$28,753.

Many of the industries' per capita wages within the Region and the State actually declined from 1970 to 1990. Surprisingly, the highest rate of increase in per capita wages in the Region and the State was in farming which saw increases of 80% and 37%, respectively (Table 16). This can be attributed to the nationwide increase in the size of farms and decrease in the number of individual farmers.

TABLE 4

RESIDENTIAL BUILDING PERMITS ISSUED

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Caroline	285	183	203	191	186	198	221	213	243	215	283
Gloucester	406	394	420	888	927	911	909	448	317	199	229
Hanover	460	261	322	524	744	1079	1471	1115	1275	995	836
James City	303	391	519	718	706	929	1347	1090	1000	709	419
King & Queen	64	55	60	79	97	80	82	(NA)	32	35	47
King William	88	41	46	74	78	75	130	118	130	211	166
Louisa	214	220	219	228	206	354	381	268	315	351	411
New Kent	98	74	70	126	152	135	213	209	185	158	122
Orange	164	137	122	214	223	271	252	313	300	353	298
Spotsylvania	410	338	348	639	861	1265	1487	1838	1529	1742	970
York	255	204	228	274	340	852	1050	611	696	551	403
Williamsburg	19	9	82	66	94	109	84	66	41	40	27
Region Total	2766	2307	2639	4021	4614	6258	7627	6289	6063	5559	4211
Region Ave	229	192	213	330	377	512	629	566	502	460	349
Virginia	45821	37572	38411	63133	68997	73245	84044	68842	69997	56944	40560

GROWTH RATE IN RESIDENTIAL PERMITS ISSUED

	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1980-85	1985-90	1980-90
Caroline	-0.36	0.11	-0.06	-0.03	0.06	0.12	-0.04	0.14	-0.12	0.32	-0.31	0.43	-0.01
Gloucester	-0.03	0.07	1.11	0.04	-0.02	-0.00	-0.51	-0.29	-0.37	0.15	1.24	-0.75	-0.44
Hanover	-0.43	0.23	0.63	0.42	0.45	0.36	-0.24	0.14	-0.22	-0.16	1.35	-0.23	0.82
James City	0.29	0.33	0.38	-0.02	0.32	0.45	-0.19	-0.08	-0.29	-0.41	2.07	-0.55	0.38
King & Queen	-0.14	0.09	0.32	0.23	-0.18	0.03	(NA)	(NA)	0.09	0.34	0.25	-0.41	-0.27
King William	-0.53	0.12	0.61	0.05	-0.04	0.73	-0.09	0.10	0.62	-0.21	-0.15	1.21	0.89
Louisa	0.03	-0.00	0.04	-0.10	0.72	0.08	-0.30	0.18	0.11	0.17	0.65	0.16	0.92
New Kent	-0.24	-0.05	0.80	0.21	-0.11	0.58	-0.02	-0.11	-0.15	-0.23	0.38	-0.10	0.24
Orange	-0.16	-0.11	0.75	0.04	0.22	-0.07	0.24	-0.04	0.18	-0.16	0.65	0.10	0.82
Spotsylvania	-0.18	0.03	0.84	0.35	0.47	0.18	0.24	-0.17	0.14	-0.44	2.09	-0.23	1.37
York	-0.20	0.12	0.20	0.24	1.51	0.23	-0.42	0.14	-0.21	-0.27	2.34	-0.53	0.58
Williamsburg	-0.53	8.11	-0.20	0.42	0.16	-0.23	-0.21	-0.38	-0.02	-0.33	4.74	-0.75	0.42
Region Ave	-0.16	0.11	0.55	0.14	0.36	0.23	-0.10	-0.11	-0.08	-0.24	1.26	-0.33	0.52
Virginia	-0.18	0.02	0.64	0.09	0.06	0.15	-0.18	0.02	-0.19	-0.29	0.60	-0.45	-0.11

(NA) Data not available

Source: Virginia Statistical Abstract (1987 and 1992)

TABLE 5

NONRESIDENTIAL BUILDING PERMITS ISSUED

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Caroline	55	23	42	24	26	19	19	2	4	6	3
Gloucester	28	20	34	24	41	19	22	19	41	8	31
Hanover	89	79	81	88	110	114	77	154	109	141	115
James City	119	109	100	168	36	36	19	18	14	9	16
King & Queen	8	3	22	40	24	24	25	(NA)	11	37	48
King William	(NA)	1	(NA)	(NA)	1	1	(NA)	3	5	1	4
Louisa	33	46	19	7	12	15	13	9	22	13	16
New Kent	12	6	30	31	31	46	44	34	33	34	34
Orange	18	18	18	19	18	16	37	34	51	57	33
Spotsylvania	107	106	65	140	256	256	311	283	391	417	419
York	90	91	85	75	83	54	98	124	60	23	27
Williamsburg	14	10	16	7	7	15	13	10	11	11	12
Region Total	573	512	512	623	645	615	678	690	752	757	758
Region Ave	51	42	45	56	53	50	60	62	62	62	62
Virginia	9329	8256	8591	9007	9816	10049	10698	10903	11850	10338	10572

GROWTH RATE IN NONRESIDENTIAL PERMITS ISSUED

	1980-81	1981-82	1982-83	1983-84	1984-85	1985-86	1986-87	1987-88	1988-89	1989-90	1980-85	1985-90	1980-90
Caroline	-0.58	0.83	-0.43	0.08	-0.27	0.00	-0.89	1.00	0.50	-0.50	-0.65	-0.84	-0.95
Gloucester	-0.29	0.70	-0.29	0.71	-0.54	0.16	-0.14	1.16	-0.80	2.88	-0.32	0.63	0.11
Hanover	-0.11	0.03	0.09	0.25	0.04	-0.32	1.00	-0.29	0.29	-0.18	0.28	0.01	0.29
James City	-0.08	-0.08	0.68	-0.79	0.00	-0.47	-0.05	-0.22	-0.36	0.78	-0.70	-0.56	-0.87
King & Queen	-0.63	6.33	0.82	-0.40	0.00	0.04	(NA)	(NA)	2.36	0.30	2.00	1.00	5.00
King William	(NA)	(NA)	(NA)	(NA)	0.00	(NA)	(NA)	0.67	-0.80	3.00	(NA)	3.00	(NA)
Louisa	0.39	-0.59	-0.63	0.71	0.25	-0.13	-0.31	1.44	-0.41	0.23	-0.55	0.07	-0.52
New Kent	-0.50	4.00	0.03	0.00	0.48	-0.04	-0.23	-0.03	0.03	0.00	2.83	-0.26	1.83
Orange	0.00	0.00	0.06	-0.05	-0.11	1.31	-0.08	0.50	0.12	-0.42	-0.11	1.06	0.83
Spotsylvania	-0.01	-0.39	1.15	0.83	0.00	0.21	-0.09	0.38	0.07	0.00	1.39	0.64	2.92
York	0.01	-0.07	-0.12	0.11	-0.35	0.81	0.27	-0.52	-0.62	0.17	-0.40	-0.50	-0.70
Williamsburg	-0.29	0.60	-0.56	0.00	1.14	-0.13	-0.23	0.10	0.00	0.09	0.07	-0.20	-0.14
Region Ave	-0.18	0.08	0.24	-0.05	-0.06	0.21	0.02	-0.00	0.01	0.00	0.07	0.23	0.32
Virginia	-0.12	0.04	0.05	0.09	0.02	0.06	0.02	0.09	-0.13	0.02	0.08	0.05	0.13

(NA) Data not available

Source: Virginia Statistical Abstract (1987 and 1992)

TABLE 6

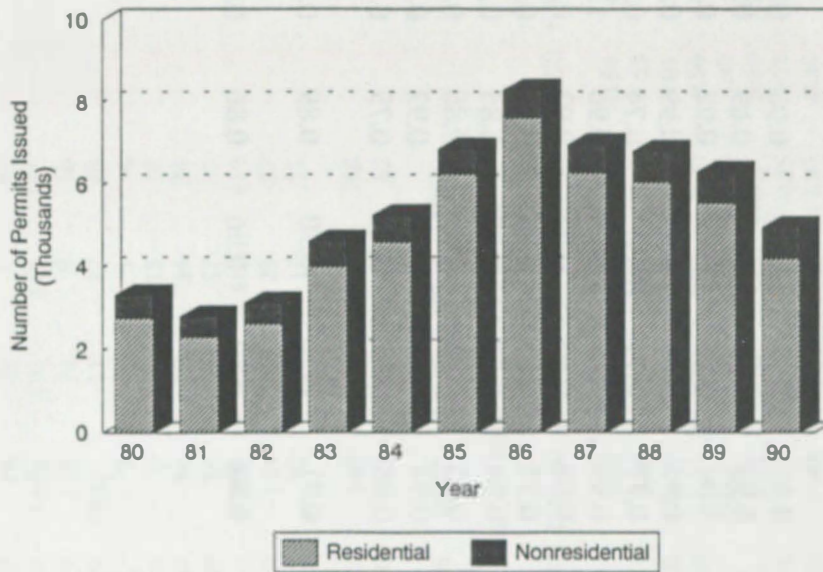
RESIDENTIAL BUILDING PERMITS ISSUED AS A PERCENT OF TOTAL BUILDING PERMITS

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990
Caroline	0.84	0.89	0.83	0.89	0.88	0.91	0.92	0.99	0.98	0.97	0.99
Gloucester	0.94	0.95	0.93	0.97	0.96	0.98	0.98	0.96	0.89	0.96	0.88
Hanover	0.84	0.77	0.80	0.86	0.87	0.90	0.95	0.88	0.92	0.88	0.88
James City	0.72	0.78	0.84	0.81	0.95	0.96	0.99	0.98	0.99	0.99	0.96
King & Queen	0.89	0.95	0.73	0.66	0.80	0.77	0.77	(NA)	0.74	0.49	0.49
King William	(NA)	0.98	(NA)	(NA)	0.99	0.99	(NA)	0.98	0.96	1.00	0.98
Louisa	0.87	0.83	0.92	0.97	0.94	0.96	0.97	0.97	0.93	0.96	0.96
New Kent	0.89	0.93	0.70	0.80	0.83	0.75	0.83	0.86	0.85	0.82	0.78
Orange	0.90	0.88	0.87	0.92	0.93	0.94	0.87	0.90	0.85	0.86	0.90
Spotsylvania	0.79	0.76	0.84	0.82	0.77	0.83	0.83	0.87	0.80	0.81	0.70
York	0.74	0.69	0.73	0.79	0.80	0.94	0.91	0.83	0.92	0.96	0.94
Williamsburg	0.58	0.47	0.84	0.90	0.93	0.88	0.87	0.87	0.79	0.78	0.69
Region Ave	0.83	0.82	0.84	0.87	0.88	0.91	0.92	0.90	0.89	0.88	0.85
Virginia	0.83	0.82	0.82	0.88	0.88	0.88	0.89	0.86	0.86	0.85	0.79

(NA) Data not available

FIGURE 7

Total Building Permits Issued in Region
Residential versus Nonresidential



Total Building Permits Issued in State
Residential versus Nonresidential

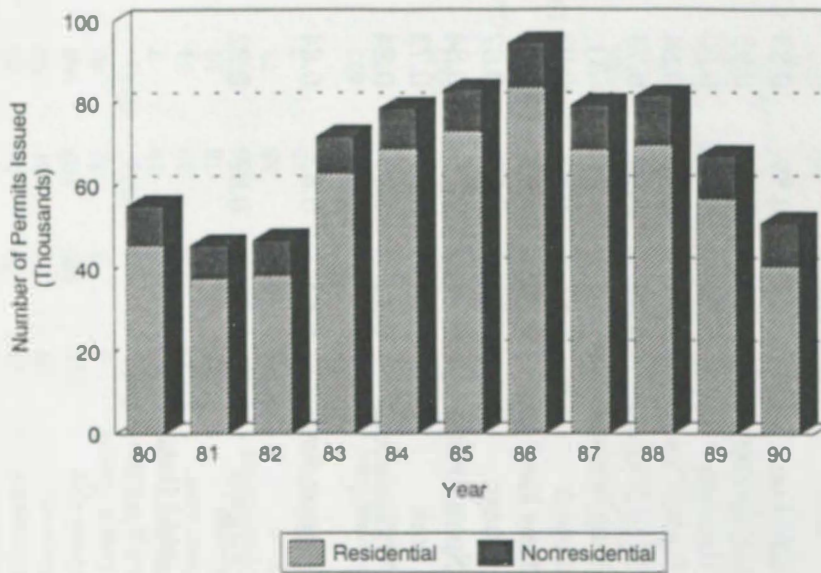


TABLE 7
COMMUTING PATTERNS 1980

	Caroline	Gloucester	Hanover	James City	King & Quee	King William	Louisa	New Ken	Orange	Spotsylvania	York	Williamsburg	Region Average
PLACE OF WORK													
Worked in county of residence	2509	3689	7536	1237	673	1577	2966	679	4611	2278	3053	3287	2841
Worked outside county	3895	3831	15307	7685	1394	2008	3487	2744	2597	10732	11193	774	5471
Percent working outside county	0.61	0.51	0.67	0.86	0.67	0.56	0.54	0.80	0.36	0.82	0.79	0.19	0.66
MEANS OF TRANSPORTATION													
Private vehicle													
Drive alone	4256	5051	16778	6785	1236	2267	3927	2363	4405	8855	10986	2009	5743
Carpool	2345	2594	6071	2488	790	1367	2737	1362	2326	4396	3969	701	2596
Public transportation	150	230	98	242	55	42	66	54	104	407	319	222	166
Other commuters													
Walked only	178	272	608	239	119	180	153	81	367	233	1024	1065	377
Bicycle, motorcycle, other	111	163	388	207	18	137	31	97	96	185	672	369	206
Percent driving alone	0.60	0.61	0.70	0.68	0.56	0.57	0.57	0.60	0.60	0.63	0.65	0.46	0.63
Percent carpooling	0.33	0.31	0.25	0.25	0.36	0.34	0.40	0.34	0.32	0.31	0.23	0.16	0.29
Percent using public transit	0.02	0.03	0.00	0.02	0.02	0.01	0.01	0.01	0.01	0.03	0.02	0.05	0.02
Percent walking only	0.03	0.03	0.03	0.02	0.05	0.05	0.02	0.02	0.05	0.02	0.06	0.24	0.04
TRAVEL TIME TO WORK													
Less than 10 minutes	774	1344	2575	1501	200	922	668	277	1527	1525	2436	1730	1290
10 to 19 minutes	1648	2059	5243	4087	612	592	1356	383	1845	4070	5858	1617	2448
20 to 29 minutes	1031	1243	6960	2093	228	270	1039	819	1347	2198	4179	310	1810
30 to 44 minutes	1710	1618	7160	1155	459	832	1945	1381	1419	1979	2844	305	1901
45 or more minutes	1892	1892	2517	930	828	1255	2074	824	1403	4114	981	241	1579
Average commuting time (minutes)	32	27	25	20	34	30	33	31	26	32	20	14	27
Percent traveling 45 min or more	0.27	0.23	0.10	0.10	0.36	0.32	0.29	0.22	0.19	0.30	0.06	0.06	0.17

Source: 1980 Census of Population

TABLE 8
COMMUTING PATTERNS 1990

	Caroline	Gloucester	Hanover	James City	King & Quee	King William	Louisa	New Ken	Orange	Spotsylvania	York	Williamsburg	Region Average
PLACE OF WORK													
Worked in county of residence	3064	5701	12876	2026	502	1712	4036	1050	5646	10900	6460	3770	4812
Worked outside county	5936	8686	21076	15666	2381	3717	5497	4215	4757	18577	14960	1124	8883
Percent working outside county	0.66	0.60	0.62	0.89	0.83	0.68	0.58	0.80	0.46	0.63	0.70	0.23	0.65
MEANS OF TRANSPORTATION													
Private vehicle	8515	13233	31984	16499	2711	5195	8954	5071	9491	27689	20128	3054	12710
Drive alone	6415	10198	27730	13761	1924	3846	6764	4023	7577	21270	17488	2602	10300
Carpool	2100	3035	4254	2738	787	1349	2190	1048	1914	6419	2640	452	2411
Public transportation	73	256	149	171	17	13	57	28	84	577	139	88	138
Other commuters													
Walked only	196	256	657	297	29	79	86	38	310	204	521	1282	330
Bicycle, motorcycle, other	86	248	278	191	30	31	95	64	141	229	169	229	149
Percent driving alone	0.72	0.73	0.15	0.19	0.39	0.72	0.74	0.77	0.76	0.74	0.83	0.56	0.77
Percent carpooling	0.24	0.22	0.15	0.19	0.39	0.25	0.24	0.20	0.19	0.22	0.13	0.10	0.18
Percent using public transit	0.01	0.02	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.02	0.01	0.02	0.01
Percent walking only	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.03	0.01	0.02	0.28	0.02
TRAVEL TIME TO WORK													
Less than 10 minutes	984	1462	3615	2395	288	822	823	298	1710	2295	2373	1991	1588
10 to 19 minutes	1790	3008	8173	6854	630	760	2168	923	2589	8715	8068	1864	3795
20 to 29 minutes	1660	2039	10110	3486	460	513	1391	1256	1759	4354	5554	346	2744
30 to 44 minutes	2574	3229	8608	2509	456	1514	2195	1751	2061	5109	3672	262	2828
45 or more minutes	1862	4255	2562	1914	953	1709	2615	973	1907	8226	1290	190	2371
Average commuting time (minutes)	30	31	23	21	31	31	30	29	27	32	20	12	26
Percent traveling 45 min or more	0.21	0.30	0.08	0.11	0.34	0.32	0.28	0.19	0.19	0.29	0.06	0.04	0.18

Source: 1990 Census of Population and Housing

TABLE 9

PER CAPITA PERSONAL INCOME

	1970	1980	1990
Caroline	2779	7940	16013
Gloucester	3508	8750	15810
Hanover	3848	10735	21395
King & Queen	2699	7416	14599
King William	3401	9236	17576
Louisa	2830	7585	14682
New Kent	3110	9506	20928
Orange	3730	8629	16808
Spotsylvania	3820	8925	16412
Wmsburg/JC	3699	9043	17207
York	3576	9512	20687
Region Ave	3364	8843	17465
Virginia	3743	9827	19701

REAL PER CAPITA PERSONAL INCOME
(in 1990 dollars)

	1970	1980	1990	Growth Rates		
				1970-80	1980-90	1970-90
Caroline	9360	12593	16013	0.35	0.27	0.71
Gloucester	11815	13878	15810	0.17	0.14	0.34
Hanover	12961	17026	21395	0.31	0.26	0.65
King & Queen	9091	11762	14599	0.29	0.24	0.61
King William	11455	14649	17576	0.28	0.20	0.53
Louisa	9532	12030	14682	0.26	0.22	0.54
New Kent	10475	15077	20928	0.44	0.39	1.00
Orange	12563	13686	16808	0.09	0.23	0.34
Spotsylvania	12866	14155	16412	0.10	0.16	0.28
Wmsburg/JC	12459	14343	17207	0.15	0.20	0.38
York	12044	15086	20687	0.25	0.37	0.72
Region Ave	11329	14026	17465	0.24	0.25	0.54
Virginia	12607	15586	19701	0.24	0.26	0.56

* Williamsburg and James City figures are reported jointly.

Source: Bureau of Economic Analysis (1989)

FIGURE 8

Real Per Capita Personal Income

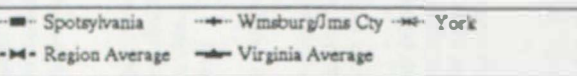
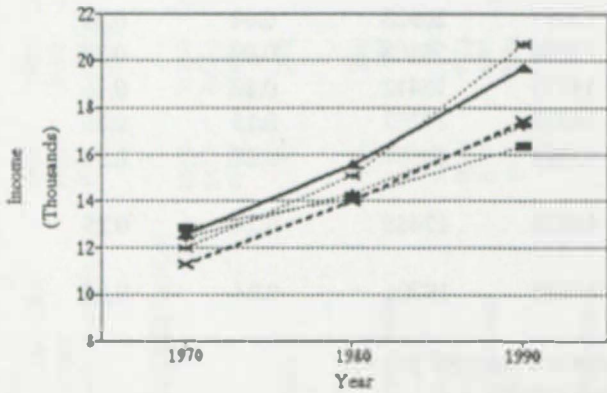
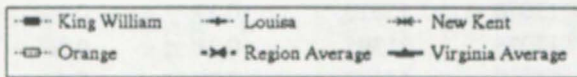
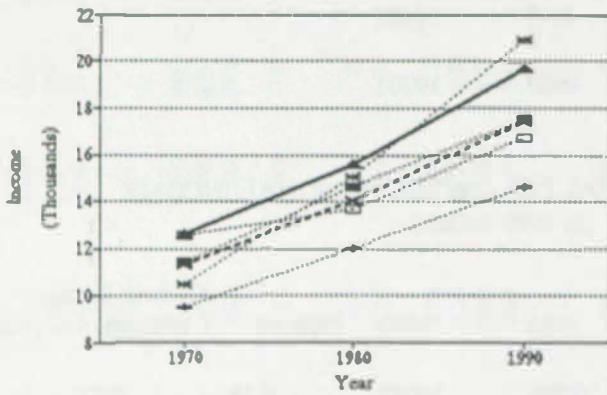
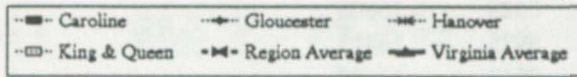
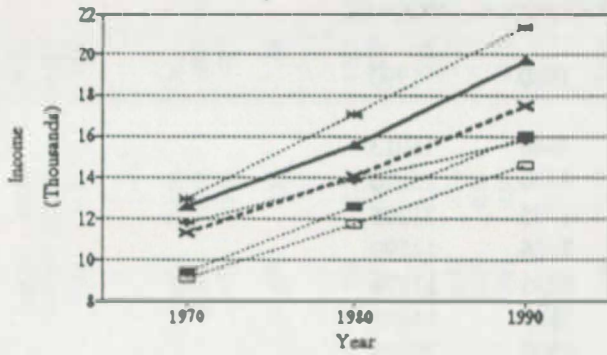


TABLE 10

TRANSFER PAYMENTS

	1970	1980	1990
Caroline	4005	21436	48708
Gloucester	5925	29795	77197
Hanover	9300	48931	107393
King & Queen	1645	8464	19076
King William	2231	11145	23512
Louisa	4703	23860	46629
New Kent	1591	9267	22509
Orange	5223	27466	54224
Spotsylvania	10429	63571	168028
Wmsburg/James City	9296	45856	132026
York	10318	49804	136582
Region Average	5879	30872	75989
Virginia	1625259	7381938	15807830

REAL TRANSFER PAYMENTS
(in 1990 dollars)

	1970	1980	1990	Growth Rates		
				1970-80	1980-90	1970-90
Caroline	13489	33998	48708	1.52	0.43	2.61
Gloucester	19956	47256	77197	1.37	0.63	2.87
Hanover	31324	77607	107393	1.48	0.38	2.43
King & Queen	5541	13424	19076	1.42	0.42	2.44
King William	7514	17676	23512	1.35	0.33	2.13
Louisa	15840	37843	46629	1.39	0.23	1.94
New Kent	5359	14698	22509	1.74	0.53	3.20
Orange	17592	43562	54224	1.48	0.24	2.08
Spotsylvania	35126	100826	168028	1.87	0.67	3.78
Wmsburg/James City	31310	72730	132026	1.32	0.82	3.22
York	34752	78991	136582	1.27	0.73	2.93
Region Average	19800	48965	75989	1.47	0.55	2.84
Virginia	5474096	11708070	15807830	1.14	0.35	1.89

*Williamsburg and James City figures are reported jointly.

Source: Bureau of Economic Analysis (1989)

TABLE 11

TRANSFER PAYMENTS AS A PERCENTAGE OF TOTAL PERSONAL INCOME
(in 1990 dollars)

	Transfer Payments (Table 10)			Total Personal Income (Table 9)		
	1970	1980	1990	1970	1980	1990
Caroline	13489	33998	48708	130842	225665	308337
Gloucester	19956	47256	77197	166922	281848	479904
Hanover	31324	77607	107393	490017	861259	1366482
King & Queen	5541	13424	19076	49855	70171	91636
King William	7514	17676	23512	85305	137408	192391
Louisa	15840	37843	46629	135568	214936	295041
New Kent	5359	14698	22509	55645	133083	219851
Orange	17592	43562	54224	174793	247784	354567
Spotsylvania	35126	100826	168028	400566	708966	1214078
Wmsburg/James City	31310	72730	132026	338602	471721	806926
York	34752	78991	136582	402425	671269	1111579
Region Average	19800	48965	75989	220958	365828	585527
Virginia	5474096	11708070	15807830	58740936	83669683	122400609

	Percentages			Growth Rates		
	1970	1980	1990	1970-80	1980-90	1970-90
Caroline	0.10	0.15	0.16	0.46	0.05	0.53
Gloucester	0.12	0.17	0.16	0.40	-0.04	0.35
Hanover	0.06	0.09	0.08	0.41	-0.13	0.23
King & Queen	0.11	0.19	0.21	0.72	0.09	0.87
King William	0.09	0.13	0.12	0.46	-0.05	0.39
Louisa	0.12	0.18	0.16	0.51	-0.10	0.35
New Kent	0.10	0.11	0.10	0.15	-0.07	0.06
Orange	0.10	0.18	0.15	0.75	-0.13	0.52
Spotsylvania	0.09	0.14	0.14	0.62	-0.03	0.58
Wmsburg/James City	0.09	0.15	0.16	0.67	0.06	0.77
York	0.09	0.12	0.12	0.36	0.04	0.42
Region Average	0.09	0.13	0.13	0.49	-0.03	0.45
Virginia	0.09	0.14	0.13	0.50	-0.08	0.39

* Williamsburg and James City figures are reported jointly.

TABLE 12

UNEMPLOYMENT RATES

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991
Caroline	8.0	10.3	12.6	8.7	6.6	6.8	6.4	5.0	5.2	5.3	7.0	10.5
Gloucester	4.5	5.1	5.7	4.1	3.3	3.3	3.3	3.1	2.5	2.5	3.0	4.4
Hanover	3.6	3.9	5.1	4.3	3.3	2.9	2.9	2.4	2.2	2.2	2.6	4.3
James City	5.2	6.3	7.3	5.4	5.1	4.2	4.2	3.8	3.0	2.8	2.8	3.8
King & Queen	8.2	9.3	12.6	9.2	6.5	7.1	6.0	4.7	5.9	5.4	5.6	6.4
King William	4.8	6.4	9.8	8.3	4.7	4.7	4.8	3.2	2.9	3.3	3.6	5.5
Louisa	8.1	7.5	9.4	8.4	6.7	7.5	5.2	5.4	4.9	4.1	4.9	7.6
New Kent	3.4	3.7	6.1	4.6	3.2	3.9	3.1	2.6	2.3	3.0	2.8	4.5
Orange	5.2	5.7	10.6	6.9	4.8	6.0	4.9	4.6	3.8	3.6	5.7	8.7
Spotsylvania	6.6	8.0	9.9	5.9	4.7	5.0	4.0	3.9	3.9	4.4	5.8	8.8
Williamsburg	3.5	4.3	7.8	6.3	5.7	5.6	5.4	4.7	4.4	5.1	6.1	7.9
York	4.8	5.9	4.8	3.7	3.3	3.2	3.4	3.0	2.8	2.9	3.2	4.3
Region Average	5.5	6.4	8.5	6.3	4.8	5.0	4.5	3.9	3.7	3.7	4.4	6.4
Virginia	5.0	6.1	7.7	6.1	5.0	5.6	5.0	4.2	3.9	3.9	4.3	5.8
U.S.	7.1	7.6	9.7	9.6	7.5	7.2	7.0	6.2	5.5	5.3	5.5	6.7

Source: Virginia Employment Commission

FIGURE 9

Unemployment Rates Region, State and Nation

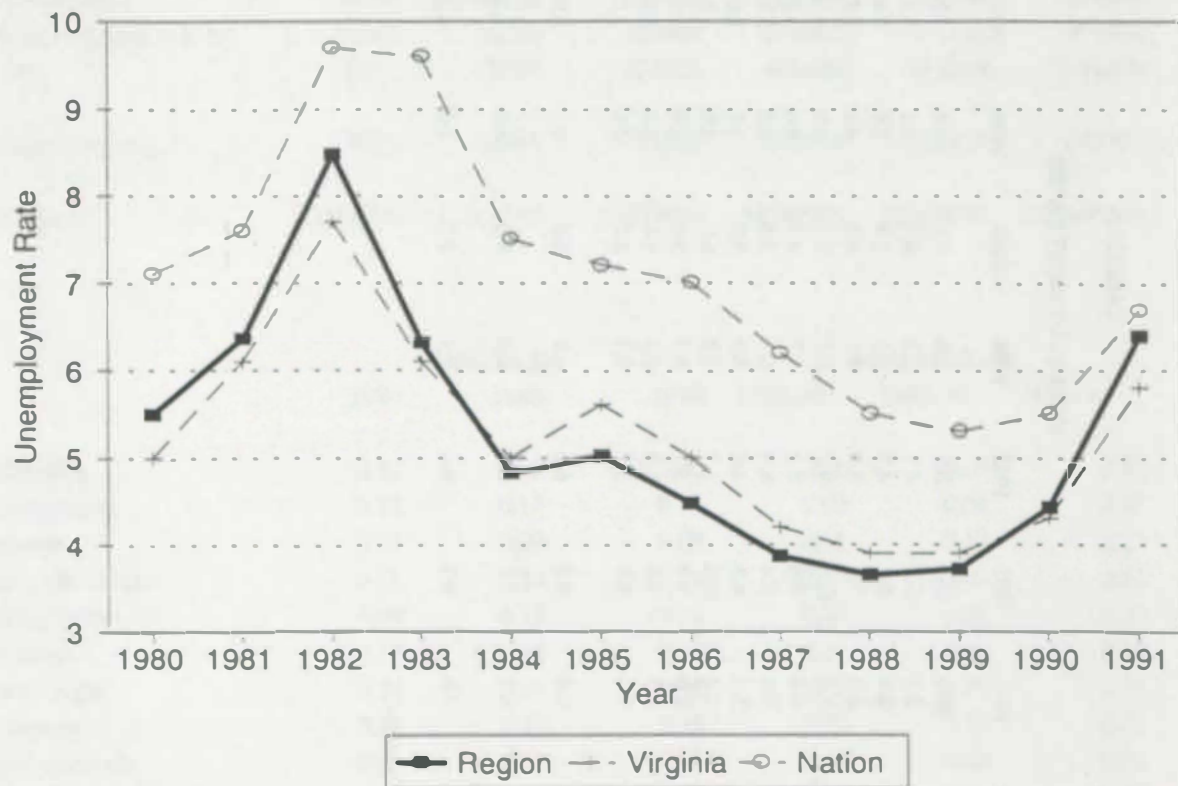


FIGURE 10

Unemployment Rates Counties vs Region Average

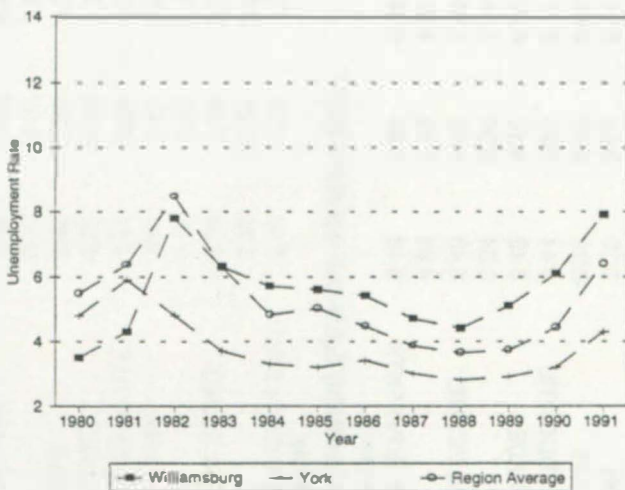
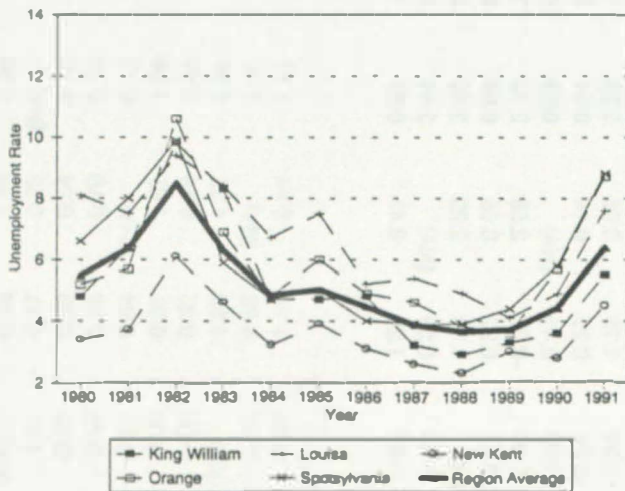
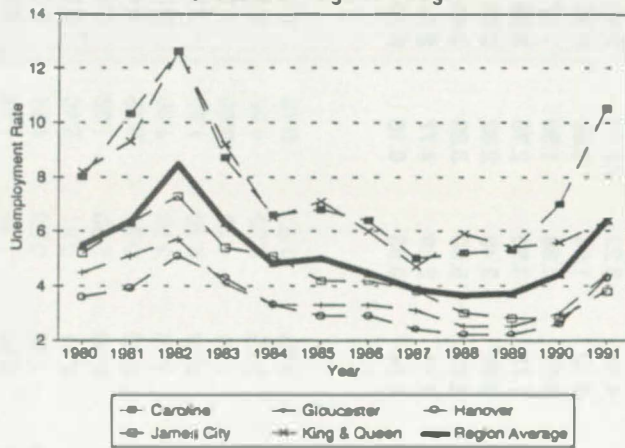


TABLE 13

GROWTH IN NUMBER OF EMPLOYEES BY INDUSTRY 1970-1990

	Caroline	Glouctr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptstvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	-0.47	-0.39	-0.25	-0.50	-0.56	-0.25	-0.48	-0.35	-0.21	-0.58	-0.40	-0.37	-0.36
NONFARM	0.61	1.99	2.72	-0.16	0.58	1.02	1.39	0.65	1.50	2.01	1.10	1.52	0.79
PRIVATE	0.67	2.03	3.11	-0.22	0.50	1.14	1.54	0.58	1.56	2.43	2.68	1.80	0.99
AG.SERV.,FOR.,FISH.	-0.10	0.24	3.33	-1.00	0.85	2.70	1.09	-0.20	2.30	3.80	1.33	1.38	1.72
MINING	0.17	(NA)	0.41	(NA)	-0.13	0.25	(NA)	(NA)	(NA)	(NA)	(NA)	0.19	0.06
CONSTRUCTION	3.39	3.62	5.04	0.39	1.18	0.98	5.29	1.21	4.47	3.29	2.20	2.98	1.07
MANUFACTURING	-0.28	0.16	0.65	-0.24	0.25	0.19	0.04	0.28	-0.12	1.04	0.86	0.25	0.19
TRANSPRT & PUBLIC UTIL	0.44	0.92	5.74	0.09	0.41	(NA)	0.09	0.66	0.51	0.88	1.90	1.17	0.60
WHOLESALE TRADE	3.42	1.16	6.92	0.00	-0.27	2.58	2.13	3.00	1.73	3.90	2.79	3.29	1.04
RETAIL TRADE	0.34	2.38	1.94	-0.27	0.92	0.65	0.96	0.92	2.20	3.48	2.62	2.08	1.05
FIN, INS, & REAL ESTATE	0.40	5.02	4.55	(NA)	1.33	2.20	2.69	0.90	2.71	5.90	3.23	3.45	1.64
SERVICES	4.65	2.92	4.25	-0.46	0.59	(NA)	2.44	0.43	2.11	2.19	4.77	2.34	1.68
GOVERNMENT & GOVT ENTR	0.48	1.85	0.96	0.07	1.25	0.45	0.87	1.19	1.14	0.93	0.16	0.70	0.32

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

TABLE 14

REAL GROWTH IN EMPLOYEE EARNINGS BY INDUSTRY 1970-1990

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptstvn	Wmsburg/ Jms Cty	York	Region Average	Virglna
FARM	0.25	2.06	-0.12	0.75	0.62	0.10	0.58	-0.02	-0.53	2.28	0.61	0.14	-0.12
NONFARM	0.74	1.59	3.17	0.02	0.63	1.43	1.42	0.61	1.49	1.72	0.79	1.47	0.90
PRIVATE	0.86	1.55	3.45	-0.04	0.57	1.59	1.42	0.53	1.46	1.88	2.09	1.71	1.12
AG.SERV.,FOR.,FISH.	0.16	-0.02	6.69	(NA)	-0.53	3.86	-0.06	-0.03	0.75	1.39	1.63	1.28	1.59
MINING	0.13	-0.06	0.85	1.03	-0.17	0.25	(NA)	-0.60	1.49	0.63	1.74	0.35	0.37
CONSTRUCTION	2.93	2.86	4.73	-0.25	2.19	0.54	4.70	0.91	5.11	0.81	2.40	2.27	1.00
MANUFACTURING	0.25	0.18	1.69	0.16	0.55	0.70	0.16	0.40	0.06	2.20	1.09	0.77	0.42
TRANSPRT & PUBLIC UTIL	1.41	0.55	6.29	-0.34	0.64	(NA)	-0.12	1.24	0.79	0.64	2.12	1.46	0.83
WHOLESALE TRADE	2.91	1.17	7.47	-0.20	-0.34	1.67	1.76	1.76	1.40	3.78	1.36	3.25	1.34
RETAIL TRADE	0.10	1.43	1.52	-0.06	0.32	0.24	0.45	0.41	1.59	2.16	1.25	1.34	0.68
FIN, INS, & REAL ESTATE	-0.38	0.86	2.79	(NA)	1.25	4.37	0.08	-0.61	1.94	4.15	0.68	1.81	1.43
SERVICES	2.92	3.35	3.95	-0.10	0.88	(NA)	3.10	0.91	2.52	1.95	4.56	2.47	2.51
GOVERNMENT & GOVT ENTR	0.49	1.70	1.55	0.27	1.44	0.48	1.43	1.18	1.68	1.27	0.12	0.79	0.44

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

TABLE 15

PER CAPITA WAGES BY INDUSTRY 1990

	Caroline	Gloucstr	Hanover	King&On	King Wm	Louisa	New Kent	Orange	Spts/vn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	10215	17594	12698	17308	15400	13516	16763	13912	7003	31897	30732	14211	11477
NONFARM	20249	15807	21200	17806	24419	24277	15134	17533	19097	19252	21426	19893	23738
PRIVATE	19860	14969	21288	18079	25812	25280	14113	17468	18772	18313	19235	19452	22937
AG. SERV., FOR., FISH.	8930	10568	14371	(NA)	4708	13250	5522	14200	9214	12043	17899	13294	14541
MINING	31071	37286	38962	32647	30000	43000	(NA)	(NA)	19125	(NA)	(NA)	27734	45508
CONSTRUCTION	24128	18795	25850	16444	23201	28659	20756	22156	23758	24056	26818	24764	25136
MANUFACTURING	23315	14617	30834	19626	41858	19316	19984	21015	26663	43589	43480	30353	28753
TRANSPRT & PUBLIC UTIL	39611	30496	31397	35292	21040	(NA)	15092	37677	28353	21720	35161	30013	33855
WHOLESALE TRADE	24026	17557	29483	21000	22411	16381	26520	19701	21441	27286	24275	25847	32694
RETAIL TRADE	13863	10605	13964	16878	11092	12393	10365	11763	13804	11169	10608	12426	13489
FIN, INS, & REAL ESTATE	12893	9318	10655	(NA)	19147	17202	4938	7095	15112	17398	7174	13296	18767
SERVICES	13936	16023	15869	16881	16600	(NA)	12019	14218	18792	16678	17276	16705	23156
GOVERNMENT & GOVT ENTR	21314	18703	20353	17014	16470	17417	20082	17904	21260	23493	25582	22032	26603

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

TABLE 16

REAL GROWTH IN PER CAPITA WAGES BY INDUSTRY 1970-1990

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptslvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	1.37	4.04	0.18	2.49	2.66	0.47	2.06	0.50	-0.40	6.85	1.69	0.80	0.37
NONFARM	0.08	-0.13	0.12	0.21	0.03	0.20	0.01	-0.02	-0.00	-0.10	-0.15	-0.02	0.06
PRIVATE	0.11	-0.16	0.08	0.23	0.05	0.21	-0.05	-0.03	-0.04	-0.16	-0.16	-0.03	0.07
AG.SERV.,FOR.,FISH.	0.28	-0.21	0.77	-1.00	-0.74	0.31	-0.55	0.22	-0.47	-0.50	0.13	-0.04	-0.05
MINING	-0.03	(NA)	0.31	(NA)	-0.05	0.00	(NA)	(NA)	(NA)	(NA)	(NA)	0.13	0.30
CONSTRUCTION	-0.11	-0.16	-0.05	-0.46	0.46	-0.22	-0.09	-0.13	0.12	-0.58	0.06	-0.18	-0.03
MANUFACTURING	0.73	0.01	0.63	0.52	0.24	0.43	0.12	0.09	0.21	0.57	0.12	0.41	0.19
TRANSPRT & PUBLIC UTIL	0.67	-0.19	0.08	-0.40	0.16	(NA)	-0.19	0.35	0.18	-0.13	0.08	0.13	0.15
WHOLESALE TRADE	-0.12	0.00	0.07	-0.20	-0.10	-0.25	-0.12	-0.31	-0.12	-0.02	-0.38	-0.01	0.15
RETAIL TRADE	-0.18	-0.28	-0.14	0.30	-0.31	-0.25	-0.26	-0.27	-0.19	-0.29	-0.38	-0.24	-0.18
FIN, INS, & REAL ESTATE	-0.56	-0.69	-0.32	(NA)	-0.04	0.68	-0.71	-0.80	-0.21	-0.25	-0.60	-0.37	-0.08
SERVICES	-0.31	0.11	-0.06	0.66	0.18	(NA)	0.19	0.34	0.13	-0.08	-0.04	0.04	0.31
GOVERNMENT & GOVT ENTR	0.01	-0.05	0.30	0.19	0.09	0.02	0.30	-0.01	0.25	0.18	-0.04	0.05	0.09

*Williamsburg and James City figures are reported jointly.

35 (NA) Data not available

IV. FISCAL CONDITION

Government Revenues and Expenditures

Appendix E provides information on the fiscal characteristics of the Counties, the Region, and the State. This information can best be interpreted when compared to changes in other indicators, such as personal income and debt service.

As reported earlier, real per capita personal income in the Region rose by 25% from 1980 to 1990; however, real per capita expenditures rose by 45% from 1981 to 1990 (Table 17). Thus, growth in the Region has caused spending levels to increase above the rate of growth in personal income. Meanwhile, in Virginia, real per capita personal income rose by 26% from 1980 to 1990 while real per capita expenditures only rose by 13% between 1981 and 1990. Thus, statewide local expenditures have declined relative to personal income.

Another measure of fiscal condition is debt service levels because they reflect long term debt for capital improvements. In terms of real growth in per capita government revenues and expenditures in the Region from 1981 to 1990, expenditures for debt service rose by 43% indicating that new development in the Region requires increased financing to meet greater infrastructure demands. In comparison, Virginia experienced a debt service increase of 24%, which is almost one-half of the Region's figure.

Taxable Sales

As the tables highlighting government revenues and expenditures indicate, local revenue is the largest contributor to total revenue in the Region as well as the State. Furthermore, as federal and state aid to local jurisdictions continues to decline, local sources of revenue become

increasingly important. In jurisdictions that lack commercial and industrial development, the major source of local revenue comes from residents' property taxes. Taxable sales are an important economic factor to examine because they provide a good measure of local revenues generated from economic development and other sources outside of resident property taxes.

In 1980 and 1991, Hanover County consistently had the highest total taxable sales for the Region. James City, Spotsylvania, and York Counties, and the City of Williamsburg also had high total taxable sales (Figure 11, Table 18). The highest growth rates in taxable sales from 1980 to 1991 were: Spotsylvania at 103%, James City at 87%, York at 73%, and Hanover at 62% (Table 18). The City of Williamsburg experienced almost no growth in sales during the 1980's.

The Region average for taxable sales was significantly below the State figure for both 1980 and 1991. However, as Table 19 illustrates, the growth rate in sales from 1980 to 1991 was 53% for the Region, compared to 29% for Virginia.

TABLE 17

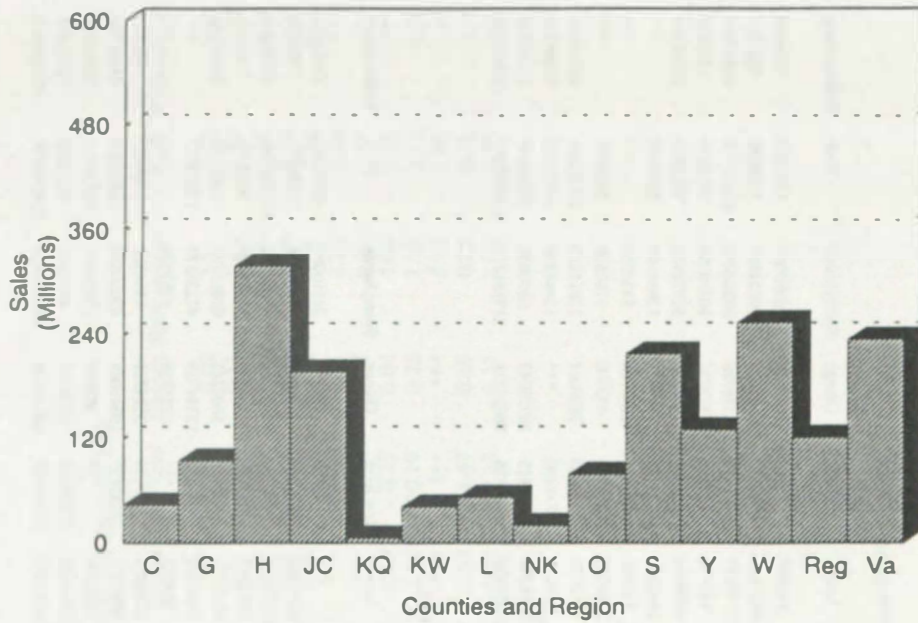
REAL GROWTH IN GOVERNMENT REVENUES AND EXPENDITURES PER CAPITA 1981-1990

	Caroline	Gloucester	Hanover	Jme City	King&On	King Wm	Louisa	New Kent	Orange	Sptayfn	York	Wmsburg	Region Average	Virginia Average
Local Revenue	0.93	0.31	0.87	0.36	0.78	0.43	0.89	0.68	0.58	0.75	0.48	0.31	0.60	0.23
State Revenue	0.40	0.59	0.42	0.26	0.65	0.57	0.20	0.42	0.43	0.30	0.37	0.46	0.38	0.10
Federal Revenue	-0.22	-0.41	-0.68	-0.62	-0.13	-0.39	-0.28	-0.29	-0.28	-0.47	-0.06	-0.38	-0.39	-0.48
Total	0.49	0.33	0.50	0.23	0.58	0.38	0.51	0.48	0.41	0.45	0.34	0.30	0.40	0.11
*Capital Projects	68.63	0.00	4.82	2.02	-0.66	40.86	-0.49	0.00	0.00	-0.58	0.33	-1.00	0.80	0.93
*Debt Service	-0.98	0.00	0.00	3.81	0.00	0.00	0.00	0.00	0.00	0.00	-0.65	0.00	-0.81	2.71
*Enterprise Act's	2.14	1.55	0.38	-0.59	0.00	0.00	0.00	2.79	0.00	0.79	0.55	0.03	0.52	0.01
Total Revenues	0.52	0.40	0.76	0.31	0.57	0.63	0.48	0.50	0.48	0.22	0.34	0.18	0.43	0.14
Gen. Govt. Admin.	1.20	0.02	0.64	-0.12	1.28	0.23	0.71	0.41	-0.09	-0.09	0.64	0.07	0.27	0.10
Judicial Admin.	0.59	0.71	0.09	-0.05	0.05	0.14	0.22	0.44	0.43	0.51	0.29	-0.46	0.22	0.23
Public Safety	0.78	0.87	0.59	0.70	0.97	-0.26	0.48	0.51	0.59	0.41	0.63	0.28	0.53	0.22
Public Works	0.42	0.30	-0.01	0.02	0.07	0.22	0.36	0.03	0.81	0.48	1.47	0.10	0.33	0.10
Health and Welfare	0.81	0.50	0.62	0.57	0.84	1.15	-0.02	0.27	1.10	0.51	0.59	0.27	0.55	0.28
Education	0.41	0.41	0.34	0.42	0.29	0.44	0.38	0.31	0.38	0.47	0.28	0.85	0.38	0.07
Parks, Rec., Cult.	2.66	0.01	1.05	1.34	0.00	1.99	2.17	24.49	0.98	0.25	0.18	0.61	0.64	0.11
Community Devel.	3.05	1.17	1.35	-0.12	9.44	0.06	-0.62	1.64	1.85	0.18	0.98	5.41	0.68	0.11
Nondepartmental	-0.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.16	0.06	-0.81
Total	0.51	0.41	0.39	0.38	0.45	0.37	0.36	0.34	0.44	0.42	0.39	0.53	0.40	0.11
*Capital Projects	1.23	4.57	4.80	-0.00	0.00	3.31	2.89	0.00	0.00	-0.36	0.57	-0.37	0.92	0.69
Debt Service	-0.55	0.37	1.01	0.40	0.34	5.07	1.48	1.64	-0.45	0.26	-0.14	-1.00	0.43	0.24
Enterprise Act's	3.79	2.46	0.30	-0.55	0.00	0.00	0.00	4.72	0.00	0.03	0.31	-0.19	0.21	-0.12
Total Expenditures	0.47	0.67	0.72	0.31	0.45	0.62	0.54	0.51	0.74	0.17	0.37	0.18	0.45	0.13

*less transfers

Figure 11

Real Total Taxable Sales 1980 (in 1991 dollars)



Total Taxable Sales 1991

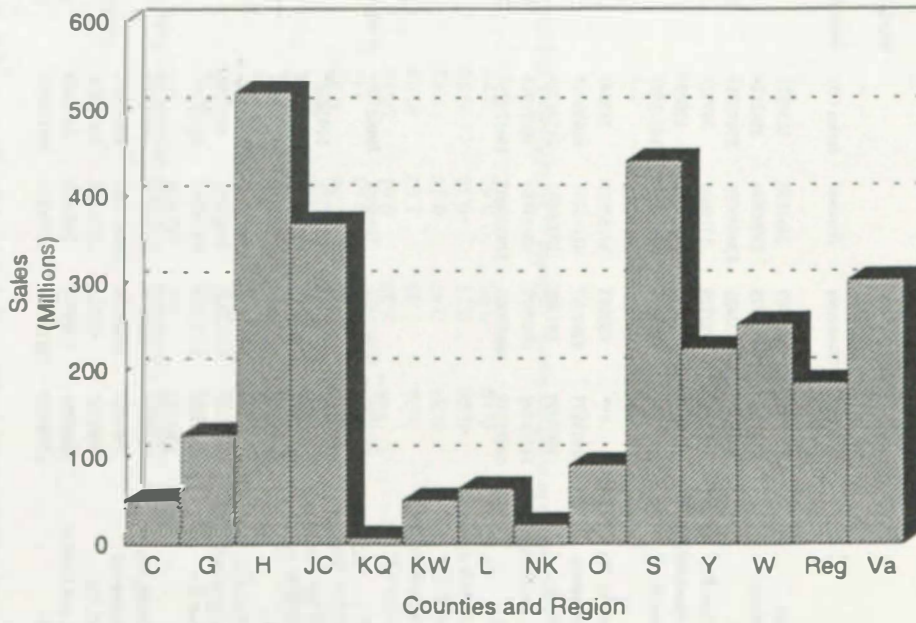


TABLE 18

REAL TAXABLE SALES 1980 (in 1991 dollars)

	Caroline	Gloucester	Hanover	James City	King & Queen	King William	Louisa	New Kent	Orange	Spotsylvania	York	Williamsburg	Region Average	Virginia Average
Apparel	297583	1097587	2462190	1635927	0	670668	172590	***	530056	8050084	1287202	8934195	2094840	10717807
Automotive	4132438	6313975	23680888	2542124	647752	3935502	3423164	1466448	5607035	9624484	7729681	5021051	6177045	13368389
Food	15712565	47522425	120406651	57693352	3049736	18547529	11773157	9461498	15339788	80262992	66131512	60847099	42229025	84814326
Furniture, Etc	481783	3982729	5714686	487527	438547	577788	940474	27316	2322026	10204668	7012836	1338615	2794083	12807718
Gen. Merchandise	2369874	14165140	18902354	126076	59283	2223079	4674954	535294	7836734	52778988	7023755	28565329	11605072	41453313
Lumber, Etc	311694	8764899	32024157	14275757	99028	1756106	2440342	1524246	9863521	12964564	3250582	***	7272908	23154828
Fuel	***	***	16574385	***	***	1523592	426901	***	1887754	5436086	***	***	2154060	6448438
Machinery, Etc	***	659983	37152699	212540	***	***	3068769	336731	443600	1760516	1031607	***	3722204	6958991
Miscellaneous	1944873	4269987	41483241	86470397	507797	1530668	4252078	1876460	7859664	15814213	10670291	88184931	22072000	25527557
Hotels, Etc	4606830	891302	10256681	21391788	***	0	269221	731460	***	13484278	10601002	45898531	9010924	6434786
Misc. and Unident.	14218099	6969977	10667410	10371911	1150876	10937926	21551240	4562415	26936043	6800838	18384899	14144228	12224638	2552707
Total	44075740	94638005	319326003	196529714	5952818	41702919	52992889	20265835	78626221	217181711	129562947	252933979	121149065	234238860

TAXABLE SALES 1991

	Caroline	Gloucester	Hanover	James City	King & Queen	King William	Louisa	New Kent	Orange	Spotsylvania	York	Williamsburg	Region Average	Virginia Average
Apparel	***	1197748	32788375	51924887	***	963856	***	***	538399	24210080	-2980895	13321014	10163622	19908278
Automotive	4243455	7630155	31588553	5656024	572140	2164543	6306366	2834264	6230442	23350472	12178531	3755078	8875835	16622028
Food	22072464	59393695	160149337	123343074	1768804	22348910	13107836	5448531	41204117	148062912	101551798	45128026	61964959	105125283
Furniture, Etc	317487	4020124	12327682	15692305	1682151	4108904	1513412	317144	2558170	34097620	7672075	5400751	7475652	19228255
Gen. Merchandise	3091920	23923260	31813003	9250198	420797	7014708	5097374	582152	5608745	92965271	33286542	29646675	20225054	46481198
Lumber, Etc	2038021	14873235	53668797	19572346	***	68999	3456902	***	11344729	42226577	11810827	***	13254536	28238202
Fuel	3491790	***	5827428	***	***	***	284867	***	1221318	1287606	***	***	1009417	2721903
Machinery, Etc	1191697	2126378	59986669	4068118	39350	159993	1250894	217255	3124721	8864522	7788475	979115	7483099	12546036
Miscellaneous	2494068	10488276	110963057	82673465	771613	8828315	9071208	2233177	10041088	47066559	22421082	44491798	29294809	41922187
Hotels, Etc	3099307	471524	12155323	51668856	***	***	1181859	***	363959	13200542	21739351	98900175	16898408	11349864
Misc. and Unident.	10289954	1999974	7433649	4272740	1651511	5415892	23056880	11278068	8278986	4934852	9090892	11646031	8279119	996714
Total	52330163	126124369	518701873	368122013	6906366	51074120	64327598	22910591	90514674	440255013	224558678	253268663	184924510	303042641

*** Unidentified to avoid disclosure. Included in Miscellaneous and Unidentifiable Group and Total.

Source: Taxable Sales Annual Reports (1980 and 1991)

TABLE 19

REAL GROWTH IN TAXABLE SALES 1980-1991

	Caroline	Gloucester	Hanover	James City	King & Queen	King William	Louisa	New Kent	Orange	Spotsylvania	York	Williamsburg	Region Average	Virginia Average
Apparel	***	0.09	12.32	30.74	***	0.44	***	***	0.02	2.01	-3.32	0.49	3.85	0.86
Automotive	0.03	0.21	0.33	1.22	-0.12	-0.45	0.84	0.93	0.11	1.43	0.58	-0.25	0.44	0.24
Food	0.40	0.25	0.33	1.14	-0.42	0.20	0.11	-0.42	1.69	0.84	0.54	-0.26	0.47	0.24
Furniture, Etc	-0.34	0.01	1.16	31.19	2.84	6.11	0.61	10.61	0.10	2.34	0.09	3.03	1.68	0.50
Gen. Merchandise	0.30	0.69	0.68	72.37	6.10	2.16	0.09	0.09	-0.28	0.76	3.74	0.04	0.74	0.12
Lumber, Etc	5.54	0.70	0.68	0.37	-1.00	-0.96	***	***	0.15	2.26	2.63	***	0.82	0.22
Fuel	***	***	-0.65	***	***	-1.00	***	***	-0.35	-0.76	***	***	-0.53	-0.58
Machinery, Etc	***	2.22	0.61	18.14	***	***	-0.59	-0.35	6.04	4.04	6.55	***	1.01	0.80
Miscellaneous	0.28	1.46	1.67	-0.04	0.52	4.77	1.13	0.19	0.28	1.98	1.10	-0.50	0.33	0.64
Hotels, Etc	-0.33	-0.47	0.19	1.42	***	***	***	***	***	-0.02	1.05	1.15	0.88	0.76
Misc. and Unident.	-0.28	-0.71	-0.30	-0.59	0.44	-0.50	0.07	1.47	-0.69	-0.27	-0.51	-0.18	-0.32	-0.61
Total	0.19	0.33	0.62	0.87	0.16	0.22	0.21	0.13	0.15	1.03	0.73	0.00	0.53	0.29

*** Unidentified to avoid disclosure. Included in Miscellaneous and Unidentifiable Group and Total.

V. SUMMARY

Population statistics reveal that the Region is an area of rapid growth when compared to the State. Furthermore, future growth in the Region is projected to continue at a level above that of Virginia. However, upon closer examination, it is apparent that much of the growth is occurring in five of the Region's twelve jurisdictions. These localities are: Hanover, Spotsylvania, Gloucester, James City, and York Counties. The Region's population demographics show trends toward young families and older age groups, and a predominantly white population.

The high percentage of residential development over the 1980's and slow growth in nonresidential development indicate that much of this population growth may not necessarily aid the Region's local economies. Economic problems are aggravated by the large number of residents commuting outside their jurisdictions. Another economic indicator, per capita personal income, reveals that regional residents are earning incomes slightly below those of Virginia residents. Furthermore, in terms of per capita earnings per industry, Region earnings were typically below State earnings per industry. However, regional transfer payments as a percentage of total personal income are approximately equivalent to those of the State. Also, unemployment rates for the Region and the State are similar, and both are below that of the Nation.

In general, the fiscal condition in the Region is not as strong as that of Virginia. The rapid growth in regional counties has resulted in increases in government expenditures relative to personal income. Meanwhile, Virginia counties overall have experienced a decline in expenditures relative to personal income. Also, development in the Region has created a debt service level that is above that of the State. One positive fiscal sign is the growth rate in taxable sales for the Region, relative to that for Virginia.

VI. ECONOMIC SUMMARIES OF JURISDICTIONS WITHIN THE REGION

Purpose

In this section, the comprehensive plans for the Region's eleven counties and the City of Williamsburg were examined to ascertain general economic backgrounds and current economic conditions. Goals and objectives with respect to economic development for each locality were investigated. Similarities among the jurisdictions regarding future plans were of particular interest. It is hoped that in bringing these common economic conditions, goals, and objectives to light that the municipalities within the Region may better work together to bring about the growth each jurisdiction desires.

The following analysis of each jurisdiction include summaries of information introduced previously. In addition Appendix F contains detailed information on taxable sales for the region, Virginia and each jurisdiction.

CAROLINE COUNTY Economic Development

Background

In Caroline County's discussion of economic development within its comprehensive plan, the County highlights two major economic concerns that are common problems among all counties in the Region. The plan notes that the major weakness in the County's economy is the lack of commercial support from wholesale and retail trade, finance, insurance, real estate, and other service related businesses. As a result, Caroline County is losing business to surrounding localities as consumer spending flows out of the County. Another concern highlighted is the increase in "out-commuting" of resident workers. To rectify these problems, the County recognizes the need to promote industrial and commercial development within specified growth areas.

Goals and Objectives

Caroline County's goal is to enhance its citizens' well-being through economic development. The County proposes to expand the number and types of jobs within the County to reduce out-commuting. The County recognizes the need to improve services to the Milford Industrial Area to support existing industries and attract new industrial growth. Provisions for public utilities in the Bowling Green, Ladysmith, and Carmel Church areas will attract industry, business and residential development. The use of zoning regulations will preserve high quality sites (i.e. those with good

access and public utilities) for industrial and commercial growth rather than residential development, and at the same time prevent environmental degradation.

Source: *Caroline County Comprehensive Plan Update (1987)*

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
Caroline	29%	7%	38%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
Caroline	7%	6%	6%	5%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-1985	1985-1990	1980-1990
Residential:			
Caroline	-31%	43%	-1%
Region	126%	-33%	52%
Nonresidential:			
Caroline	-65%	-84%	-95%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
Caroline	61%	66%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				1970-80	1980-90
Caroline	\$9,360	\$12,593	\$16,013	35%	27%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
Caroline	10%	15%	16%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
Caroline	8.0	12.6	6.6	6.4	5.2	7.0	10.5
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Percentage of Employees by Industry:

	1970	1980	1990
Caroline:	Govt (25%)	Govt (24%)	Govt (25%)
	Manuf (24%)	Manuf (19%)	Services (18%)
	Farming (15%)	Services (13%)	Retail (13%)
	Retail (14%)	Retail (11%)	Manuf/Const (12%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
Caroline:		
Revenues	\$13,890,969	\$22,708,774
Expenditures	\$13,052,668	\$20,616,887
Gains/Losses	\$838,301	\$2,091,887
Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
Caroline	\$44,075,740	\$52,330,163	19%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

Analysis of the population data above reveals that Caroline County experienced a much lower population growth rate from 1970 to 1990 when compared with the Region. While the growth rate in the County was slightly below that of the Region from 1970 to 1980, the County growth rate dropped significantly between 1980 and 1990. Projected growth rates for Caroline County are expected to remain below those of the Region in the future.

The number of residential building permits issued, while lower than that of the Region, has been fairly stable throughout the 1980's (Table 4). However, the total number has not increased between 1980 and 1990, reflecting a growth rate of -1%. The number of nonresidential permits issued in Caroline County has been considerably lower than that of the Region. Less than 10 nonresidential permits have been issued per year since 1987 (Table 5). This is apparent in the -95% growth rate for nonresidential permits from 1980 to 1990.

Caroline County's per capita personal income has also been below the Region's figures consistently from 1970 to 1990. However, the County has been bridging the gap and its growth rate from 1980 to 1990 was slightly above the Region's rate.

Unemployment rates for the County throughout the 1980's were quite high compared to those of the Region. The rate in 1991 was almost twice that of the Region.

In terms of the number of employees by industry, the government has consistently been the largest employer in the County. This is possibly due to Fort A.P. Hill military base. Meanwhile, manufacturing and farming significantly dropped while services steadily increased.

Gains in government revenues and expenditures have been much higher in the County than the Region for both 1981 and 1990, particularly in 1990. Furthermore, County gains in 1990 were much higher than County gains in 1981.

Taxable sales for the County in 1980 and 1991 were significantly below the Region's average. Furthermore, Caroline County had one of the lower growth rates in total taxable sales within the Region from 1980 to 1991.

Overall, Caroline County appears to be below Region averages in several respects. Areas of concern include the low population growth rate, the lack of growth in residential permits, and decline in nonresidential permits issued. Also of concern are the consistently high unemployment rates and low growth in taxable sales. Positive signs are the increasing per capita income and the gains in revenues over expenditures from 1981 to 1990.

GLOUCESTER COUNTY Economic Development

Background

Gloucester County is included in the Norfolk-Virginia Beach-Newport News Metropolitan Statistical Area (MSA), which is the country's 28th most populated MSA. The regional influence of the Hampton Roads area will have the most impact on Gloucester's future development. The projected population growth of Hampton Roads between 1987 and 2005 will rank the area 33rd among the top 50 growth markets in the nation. Norfolk Naval base and several Army bases make the area the largest military complex in the world. The U.S. Government is the biggest employer in the region. Newport News Shipping, located in Hampton Roads, is the state's largest employer.

In terms of the local economy, seafood and farming are the primary industries. Major employers are the School District, the Virginia Institute of Marine Sciences and the Riverside Walter Reed Hospital.

Important recent economic developments include: the Economic Development Department which supports the County Administrator and the Gloucester County Industrial Development Authority, the extension of sewer lines into the southern portion of County by the Hampton Roads Sanitation District, the Beaver Dam Reservoir which supplies water to the southern portion of the County, construction of the York River Shopping Center in the County's southeastern corner, plans to develop a 65-acre industrial park, and improvements to the Coleman Bridge and Route 17.

The disparity between the rapid rate of population growth and the slight increase in taxable sales created by residents working and spending outside the County is a major concern for Gloucester officials. Gloucester County recognizes that the ability to pay for the cost of growth and manage growth relate to the balance between commercial/industrial development and residential development. Thus, attracting more in-county jobs should be the County's primary economic development aim.

The County uses several organizations to help foster its economic development, including: the Gloucester County Industrial Development Authority, the County's Department of Economic Development, the Virginia Department of Economic Development, the Virginia Peninsula Economic Development Council, and the Gloucester Chamber of Commerce.

Goals and Objectives

Gloucester County's goal for economic development is to broaden and balance its economic base. Principal objectives in attaining this goal are the expansion and diversification of the County's local employment and industrial bases along with the continuation of industries basic to the local economy. These basic industries include agriculture, fisheries, lumber and wood products, food and kindred products, health care facilities, and service industries. Successful economic growth will also depend on cooperation among the County, the Industrial Development Authority, the Chamber of Commerce, and regional industrial associations. Another important objective is attracting and maintaining business and industry through the availability of community services and facilities and the promotion of training and educational programs. Finally, an overlying objective is the consistent monitoring of development in terms of its ecological impact,

circulation system impact, sewer and water impact, development types and mixes, economic heterogeneity, employment level and diversification, and economic stability.

The County has also outlined several implementation strategies. First and foremost are strategies aimed at industrial and business development, such as: expansion of water and sewer to future sites for industrial uses, consideration of an industrial airpark, and incorporation of new zoning classifications for industrial uses such as research parks and science and technology parks. The County is considering zoning for business park development as floating zones within the Development District. Critical to successful economic growth is sufficient provisions for industrial land in order to increase flexibility and reduce costs in site selection. Incentives to encourage developers to redevelop areas that have outlived their original purpose, and encouraging a wide range of graduate programs are also strategies the County has outlined.

The comprehensive plan also addresses other strategies, such as: small business development; enhancement of tourism and recreation through special attractions to serve County visitors, public access areas along waterfront property, a waterfront conference facility, and historic sites. Fostering service and retail development through a development guidance system and bonus points for consideration of traffic impacts, site design quality and employment benefits has been discussed. Developing sites outside the Development District is recognized as a means to strengthen the smaller Village Centers and Rural Service Centers.

Resources identified by the County for funding to meet economic development goals include: Community Development Block Grants, the Economic Development Revolving Loan Fund, Tax Increment Financing, the Virginia Revolving Loan Fund, the Industrial Access Road

Program, the Rail Industrial Access Program, the Shell Building Initiative, and Industrial Training Programs.

Source: *Comprehensive Plan Gloucester County Virginia (1991)*

County and Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
Gloucester	43%	50%	114%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
Gloucester	30%	18%	15%	13%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
Gloucester	124%	-75%	-44%
Region	126%	-33%	52%
Nonresidential:			
Gloucester	-32%	63%	11%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
Gloucester	51%	60%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				70-80	80-90
Gloucester	\$11,815	\$13,878	\$15,810	17%	14%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
Gloucester	12%	17%	16%
Region	9%	13%	13%

Unemployment Rates:

	80	82	84	86	88	90	91
Gloucester	4.5	5.7	3.3	3.3	2.5	3.0	4.4
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
Gloucester:	Govt (22%)	Govt (23%)	Serv (26%)
	Serv (18%)	Retail (19%)	Govt (22%)
	Retail (16%)	Serv (18%)	Retail (19%)
	Farm/Manuf (9%)	Ag,For,Fish (9%)	Const (10%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
Gloucester:		
Revenues	\$17,476,742	\$36,662,406
Expenditures	\$16,493,310	\$41,215,786
Gains/Losses	\$983,432	-\$4,553,380
Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
Gloucester	\$94,638,005	\$126,124,369	33%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

Population growth figures suggest that Gloucester is a rapidly growing county. Gloucester experienced the second highest population growth rate within the Region from 1970 to 1990 at 114%. Furthermore, as Table 2 indicates, the 30% projected population growth rate for 1990 to 2000 will again be the second highest in the Region.

There are some positive signs accompanying this increase in population. One is the growth in nonresidential building permits by 63% from 1985 to 1990. Residential permits in the Region increased by 23%. Also, the County's unemployment rate has remained below the regional average throughout the 1980's, by 1.0 to 2.0%. Finally, government has remained a principal employer in the County since 1970. While service industries have grown, farming and manufacturing have fallen. Overall the composite of employment in Gloucester County is very similar that of the Region.

There are, however, some areas of concern. Per capita income in the County is below the Region's average, and is growing at a slower rate than that of the Region. Furthermore, transfer payments as a percentage of total personal income are higher in the County than in the Region. The number of residents working outside the County has remained below the Region average, but has increased from 51% in 1980 to 60% in 1990. The growing expenses necessary to meet the rising population seem evident due to the high government spending compared to revenues. In 1990, government expenditures exceeded revenues by \$4,553,380. Finally, total taxable sales in the County are slightly below the Region's figures for 1980 and 1991 and are growing at a slower rate than in the Region.

HANOVER COUNTY

Economic Development

Background

Hanover County's comprehensive plan outlines several economic conditions within the County. Two of the most important, found in the Region's other counties as well, are projections for significant growth in the population and large increases in non-agricultural and non-manufacturing employment. One positive finding is the attractiveness of lower taxes and access to transportation facilities to potential businesses and industrial development. Another finding, common among the Region's counties, is an increase in commercial construction along with a decline in the size of development due to a lack of utilities to support large projects. One area of concern, common in the Region, is the impact on farming due to the loss of agricultural and forestry lands to urbanization. Hanover's economic review highlights the significant revenue contributions of agriculture and forestry industries to the County, while also employing a large percentage of the work force.

Goals and Objectives

Hanover County's economic goals and objectives were not outlined in its 1991 comprehensive plan update, however, the Hanover County Planning Office plans to incorporate several economic goals into the County's 1992 update, which has not yet been adopted. The first goal outlined is the promotion of sound, long-term and balanced economic development appropriate to the urban and rural areas of the County. Critical to Hanover County's local

industries, is the promotion, encouragement, preservation and enhancement of profitable privately-owned and productive agricultural and forestry industries. The County seeks to provide adequate commercial facilities appropriate to the rural and urban areas of the County. Finally, the County will strive to promote the development of a diversified industrial and commercial employment base consistent with physical and social goals.

Source: Hanover County Virginia Comprehensive Plan Update (1991)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
Hanover	34%	26%	69%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
Hanover	23%	20%	17%	14%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
Hanover	135%	-23%	82%
Region	126%	-33%	52%
Nonresidential:			
Hanover	28%	1%	29%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
Hanover	67%	62%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				1970-80	1980-90
Hanover	\$12,961	\$17,026	\$21,395	31%	26%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
Hanover	6%	9%	8%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
Hanover	3.6	5.1	3.3	2.9	2.2	2.6	4.3
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
Hanover:	Manuf (18%)	Serv (19%)	Serv (25%)
	Retail (18%)	Retail (18%)	Const (17%)
	Serv (16%)	Const (14%)	Retail (16%)
	Govt (16%)	Manuf (14%)	Manuf/Govt (9%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
Hanover:		
Revenues	\$45,999,501	\$101,572,855
Expenditures	\$45,916,093	\$99,189,987
Gains/Losses	\$83,408	\$2,382,868
Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
Hanover	\$319,326,003	\$518,701,873	62%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

Many of Hanover County's figures suggest that it is possibly the strongest county in the Region. The County has the highest total population within the Region and is projected to remain the highest through 2030. The population growth rate has been and is projected to remain similar to the Region average through 2030. Furthermore, in keeping with rising population figures, growth in residential building permits remained well above the Region average from 1980 to 1990.

Most of the economic indicators have also been positive for the County. Hanover's per capita personal income was the highest in the Region from 1970 to 1990, along with growth rates at or above those of the Region. Transfer payments as a percentage of total personal income were the lowest in the Region for all years studied, well below the Region figures. Unemployment rates have remained consistently below the Region by 1.0 to 2.0%. The number of residents working outside the County was below the Region's average for 1980 and 1990 and actually declined from 67% to 62% from 1980 to 1990. Government revenues versus expenditures did well in 1990 at \$2,382,868 in gains, while the Region experienced a loss. Finally, Hanover County's total taxable sales were the highest in the Region for both years studied and over twice the Region's average figures for those years. Furthermore, the County's growth rate in taxable sales from 1980 to 1991 was above the Region's rate.

According to sources at the Hanover County Department of Economic Development, the County's strong economic position is attributable to several factors. First, is the County's comprehensive utilities system that includes water and sewer facilities, natural gas service and fibro-optics. Furthermore, Hanover County has an effective transportation system due to the north-south and east-west corridors provided by I-95, I-295 and I-64, and enjoys close proximity to the Richmond Metropolitan Area. Finally, tax rates are quite low compared to many of the surrounding counties.

JAMES CITY COUNTY Economic Development

Background

Four areas of concern discussed in James City County's comprehensive plan were: the impact of growth on the County; the consequences of becoming a bedroom community; the consequences of concentrating the economy on two major industries, tourism and the breweries; and the benefits of agriculture and forestry as industries, and the consequences of their declining contribution. In terms of the impacts of growth, the County is concerned because increasing population growth and the resultant rise in capital construction costs require an increase in tax rates. The dependence on only two industries, tourism and beer manufacturing, and the growth of bedroom communities to the exclusion of other types of development are both a concern, because a diversification of tax revenue options and the tax base are important to a strong local economy. Finally, in order to combat the decline of agriculture and forestry, decisions regarding the social and economic value of these industries must be made.

James City's plan incorporates a great deal of citizen comment and suggestions. Citizen consensus highlighted several innovative ideas in terms of economic development. The County needs more industrial and business office growth. The County should encourage commercial/business centers, industrial parks at major interchanges and retail development at major intersections. Public/private partnerships in education should be endorsed by partially funding vocational and technical schools and encouraging internships and apprenticeships. The County should avoid attracting retail developments which are tourist-related businesses in an effort to develop fewer seasonal, minimum

wage tourist enterprises and increase the skilled and semiskilled industries. The County should concentrate on industrial park development and public/private partnerships should be encouraged to provide the infrastructure for industrial development. Finally, the County needs a public/private regional transit network to improve the local labor force so the County can attract industry, since the current labor force is not adequate to encourage new industries to locate in the County.

The Office of Economic Development handles economic growth for James City and acts in accordance with the Economic Development Strategy adopted in 1988. The goal of the Office as outlined in the strategy is: "Increase James City County's residential to commercial-industrial tax base ratio from its present ratio of 75/25 to 65/35 by the year 2010." The Office's priority activity is "existing business retention and expansion." The Office is assisted by the Industrial Development Authority.

Goals and Objectives

The County's main economic development goal is to foster the economic vitality of the County. To attain this goal, several objectives were outlined. With respect to land use, important objectives include: protecting, promoting and preserving primary rail corridors, interstate interchanges, primary road intersections and waterways; reserving sufficient land and infrastructure for economic growth; encouraging a mix of commercial, industrial and residential land uses at a pace in line with the resources of the County; and, protecting, preserving and promoting agricultural and forestry lands and activities. Administratively, County objectives include: recruiting institutional and commercial office uses, industrial developments, business and professional services and research and development centers; and, encouraging a variety of commercial and industrial development for

locally-based employment so County residents can be more self-sufficient through full-time employment rather than seasonal jobs.

The County's Plan details several strategies for reaching economic goals and objectives. In order to promote industrial growth, strategies include obtaining control of property with industrial potential using the County's Economic Development Strategy and the Virginia Community Certification Program's requirements as guides. Encouraging public/private partnerships will allow industrial parks to offer more unified presentations to prospective businesses. Improvements to transportation will maximize the economic development potential of major interchanges, intersections and corridors.

To prepare County citizens for this economic growth, the plan includes strategies to create satellite campuses in the County to train citizens for locally available jobs. In terms of regional assistance, the plan recommends participating in programs offered by the Virginia Peninsula Economic Development Council, the Virginia Department of Economic Development and the Williamsburg Area Chamber of Commerce. Finally, the Plan addresses the protection of agricultural and forestry uses by promoting strategies to preserve these lands (not limited to Agriculture and Forestry Districts) and creating staff support for a local advisory committee on agricultural and forestal activities as industries.

Source: 1991 James City County Comprehensive Plan (1991)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
James City	25%	56%	95%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
James City	27%	22%	18%	15%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
James City	207%	-55%	38%
Region	126%	-33%	52%
Nonresidential:			
James City	-70%	-56%	-87%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
James City	86%	89%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				1970-80	1980-90
James City	\$12,459	\$14,343	\$17,207	15%	20%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
James City	9%	15%	16%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
James City	5.2	7.3	5.1	4.2	3.0	2.8	3.8
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
James City:	Serv (34%)	Serv (40%)	Serv (37%)
	Govt (28%)	Govt (22%)	Retail (24%)
	Retail (16%)	Retail (17%)	Govt (18%)
	Manuf (11%)	Manuf (10%)	Manuf (7%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
James City:		
Revenues	\$27,729,783	\$55,522,214
Expenditures	\$25,911,760	\$51,828,144
Gains/Losses	\$1,818,023	\$3,694,070
Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
James City	\$196,529,714	\$368,122,013	87%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

James City County seems to be one of the stronger counties within the Region. The population growth rate from 1970 to 1990 was well above the Region's average and was the fourth highest rate in the Region at 95%, behind Spotsylvania, Gloucester and New Kent. Furthermore, much of this growth was recent, occurring from 1980 to 1990; James City had the second highest growth rate in the Region for this decade.

As the County grows, some areas of concern arise on a regional scale. One concern is the decline in nonresidential permits by 87% compared to the Region's increase of 32%. Real per capita income also appears to be slipping compared to the Region average. In 1970, James City's per capita income was above the Region's, then in 1980 and 1990 it was roughly equal. The County's per capita income growth rate has been below that of the Region from 1970 to 1980 and from 1980 to 1990. As per capita income is falling below Region averages, transfer payments are making up an increasing percentage of the County's total personal income at rates above the Region's figures. Another area of concern is the very high number of residents working outside the County. In 1980 and 1990, these figures were 86% and 89%, respectively, which is over 20% higher than the Region averages for those two years. Furthermore, it seems troubling that commuting outside the County increased during the decade.

There are also some very positive signs of growth within the County. The County's unemployment rates have been at or below those of the Region throughout most of the 1980's. In terms of employment, the service industry consistently remained the biggest employer with percentages well above the Region average. Government and retail were also consistently strong. County revenues versus expenditures show that the County enjoyed higher than average gains in both 1981 and 1990. Gains in 1990 of \$3,694,070 were the highest in the Region. Finally, total taxable sales in James City County for 1980 and 1991 were above those of the Region. More importantly, however, the County's sales grew at a rate almost twice that of the Region from 1980 to 1991 and as a result, total taxable sales in 1991 in James City County were twice the total sales in the Region.

KING & QUEEN COUNTY Economic Development

Background

King and Queen County is the least developed area within the Region. Furthermore, the main purpose of the County's comprehensive plan is to maintain and preserve its rich agricultural and forestal character.

Goals and Objectives

Generally, the County's objectives are as follows: encourage retail and service development in "village" areas as the principal means of expanding the County's local economic base, identify sites suitable for light industrial employment uses and reserve them for well-controlled and staged economic expansion while keeping industrial uses compatible with residential and agricultural uses, and promote recreation as an industry.

One interesting idea proposed within the County's plan is the Economic Development Overlay District. The overlay concept allows for flexibility in locating business uses while imposing some guidelines. These guidelines attempt to control spot zoning along highways where strip development occurs and require business uses to provide locational, engineering, traffic and environmental impact assessments prior to zoning approval. Though not yet implemented, this district would probably apply to Routes 360 and 33. The flexibility of the district makes sense for

King and Queen County, because commerce and industry are very limited and scattered and future growth trends will most likely continue in this dispersed locational pattern.

Source: King and Queen County Comprehensive Plan 1990 (1990)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
King & Queen	-26%	5%	-22%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
King & Queen	6%	4%	4%	4%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
King & Queen	25%	-41%	-27%
Region	126%	-33%	52%
Nonresidential:			
King & Queen	200%	100%	500%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
King & Queen	67%	83%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				70-80	80-90
King & Queen	\$9,091	\$11,762	\$14,599	29%	24%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
King & Queen	11%	19%	21%
Region	9%	13%	13%

Unemployment Rates:

	1880	82	84	86	88	90	91
King & Queen	8.2	12.6	6.5	6.0	5.9	5.6	6.4
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
King & Queen:	Farm (25%)	Farm (24%)	Govt (21%)
	Serv (24%)	Manuf (23%)	Manuf (20%)
	Manuf (20%)	Govt (20%)	Serv (18%)
	Govt (15%)	Serv (17%)	Farm (17%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
King & Queen:		
Revenues	\$4,093,905	\$6,755,826
Expenditures	\$4,165,975	\$6,381,194
Gains/Losses	-\$72,070	\$374,632
Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
King & Queen	\$5,952,818	\$6,906,366	16%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

King and Queen County is one of the slower growing counties within the Region. However, from a review of the County's comprehensive plan and personal communication with planning officials, this slow growth appears to be the County's goal. From 1970 to 1990, the County's population growth rate declined by 22% while that of the Region increased 77%. King and Queen County is the only county within the Region to experience a negative growth rate. This negative growth occurred from 1970 to 1975. However, from 1975 to 1990, the growth rate only increased by 6%. Projected growth for the County is also quite low. As would be expected residential building permits have seen an overall decline in their growth rate from 1980 to 1990. One positive note, however, is that nonresidential permits have grown in number considerably, compared to the Region.

King and Queen County appears to be one of the less affluent areas in the Region. Per capita personal income has remained well below that of the Region's average during the two decades studied and does not currently promise much change as growth rates for the County and the Region have remained similar from 1970 to 1980 and from 1980 to 1990. Furthermore, the County's unemployment rate has been quite high compared to that of the Region, sometimes rising 2% or more above the Region average. The very high percentage of transfer payments making up total personal income in the County along with the low per capita income and high unemployment rate seem to further suggest that the County is less affluent than the other counties in the Region.

While trying to remain small and rural, there is some evidence that the County is encountering problems similar to its regional neighbors. One troubling fact is the sharp increase

in residents working outside the County from 67% to 83% between 1980 to 1990. Furthermore, farming, which was the top employer in 1970 and 1980, dropped dramatically in 1990. King and Queen is the only county in the Region for which farming was the top employer in either 1970 or 1980, and which still remained in the top four in 1990. Manufacturing has also remained quite strong throughout the three periods studied while dropping within the Region. Both of the farming and manufacturing industries characterize the strong rural nature of the County.

The slow growth policy within the County is reflected by its very low taxable sales compared to the Region's figures. King and Queen had the lowest total taxable sales in the Region in both 1980 and 1991. Furthermore, the County had the second lowest growth rate in total sales.

KING WILLIAM COUNTY Economic Development

Background

King William County's economy is dominated by forest-related industrial production. The Chesapeake Corporation (paper and wood products manufacturer) is the County's largest single employer. The Town of West Point is the retail and services center for New Kent, King and Queen, Middlesex and King William Counties. No other shopping or commercial centers exist outside West Point. Furthermore, according to county officials, West Point maintains its own school system, therefore, much of the revenue generated by business within West Point goes toward the school system and the County does not benefit from these funds. A major community-serving node may develop in the Central Garage-Aylett area due to its high growth rate and location to Richmond via Routes 360 and 30. However, according to officials, the County has not been able to get businesses to locate in this area.

Population growth from 1970 to 1990 was primarily in the northern and central portions of the County, in the Acquinton and Mangohick districts. The Acquinton District saw the greatest increase. It rose 32% from 1980 to 1990. This growth is being generated by the Richmond-Henrico-Hanover corridors along Route 360.

King William's comprehensive plan details several economic conditions seen throughout the other counties in the Region. Concerns addressed include the increasing number of residents working outside the County and the need for more in-county workers to increase the tax base. As well, the problems of increased dependence on local funding from real estate, personal property

and machine taxes are directly related to the lack of a commercial or industrial base and the decline of agriculture. Other issues highlighted are the untapped tourism and recreational potential from historical sites and natural recreational amenities. Furthermore, the fact that a large portion of the County's budget goes to education is a concern.

Goals and Objectives

The County's main goal for economic development is to create a viable commercial and industrial economic base. In terms of industrial and commercial growth, the objectives outlined include attracting industry that is high-tech, environmentally sound, and requires low-water use. Expanding existing industries and commercial enterprises, attracting new businesses, particularly in the retail and service sectors, and encouraging improved education at all levels to meet the needs of these new businesses are also highlighted. In an effort to preserve the local long-standing businesses of agriculture and forestry, the County encourages expanding employment opportunities and protecting the future of agricultural, fishing and forestry enterprises. Efforts would focus on bringing in agri-business, food processing and wood-related industries, and protecting agricultural, fishing and forestry enterprises from encroaching residential development. In order to benefit from the natural amenities within the County, the Plan encourages the emphasis and enhancement of tourism and recreation.

Source: Comprehensive Plan for King William County Virginia 1991 (1991)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
King William	25%	17%	46%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
King William	16%	11%	10%	9%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
King William	-15%	121%	89%
Region	126%	-33%	52%
Nonresidential:			
King William	NA	300%	NA
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
King William	56%	68%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				70-80	80-90
King William	\$11,455	\$14,649	\$17,576	28%	20%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
King William	9%	13%	12%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
King William	4.8	9.8	4.7	4.8	2.9	3.6	5.5
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
King William:	Manuf (35%)	Manuf (38%)	Manuf (31%)
	Farming(15%)	Serv (14%)	Retail (21%)
	Retail (15%)	Retail (13%)	Govt (14%)
	Serv (11%)	Govt (13%)	Serv (13%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
King William:		
Revenues	\$6,598,450	\$12,577,164
Expenditures	\$6,463,101	\$12,274,210
Gains/Losses	\$135,349	\$302,954
Region:		
Revenues	\$20,502,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
King William	\$41,702,919	\$51,074,120	22%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

King William's population is low compared to other counties in the Region and is growing at a slower rate than the Region average. Population growth rates from 1970 to 1990 were over 30% below that of the Region. Furthermore, as stated above, the strongest growth areas are in the northern and central portions of the County, far removed from the southern portion of the County where commercial and industrial growth is the strongest. The lack of business

development throughout the County is illustrated by the consistently low number of nonresidential permits issued in the County throughout the 1980's. The highest number issued was 5 in 1988.

In terms of some of the economic indicators examined, King William County figures appear to be similar to regional averages. Per capita personal income totals and unemployment rates were roughly similar to those of the Region for the time periods studied. Furthermore, transfer payments as a percentage of total personal income in the County were similar to percentages in the Region for 1970, 1980 and 1990.

However, while the per capita personal income growth rates for the County and the Region were equal from 1970 to 1980, the rate for the County from 1980 to 1990 fell below the Region average. Furthermore, King William's taxable sales were significantly lower than the Region's figures. Also, the County's rate of growth in total taxable sales from 1980 to 1991 was over 30% below the Region average.

LOUISA COUNTY

Economic Development

Background

Louisa County is near the center of the Richmond/Charlottesville/Fredericksburg triangle. As a result, the County is greatly influenced by growth trends in these expanding areas. The center of government is the courthouse in the town of Louisa located 45 miles northwest of Richmond and 33 miles east of Charlottesville. The County is linked to Richmond and Charlottesville by I-64 which runs east and west along the County's southern border. Louisa County's economy remains chiefly agricultural since its formation in 1742. Fertile soils have made the County an historically significant source of wheat. Forestry is also an important industry. The creation of the Lake Anna recreational and residential development, and the construction of the North Anna Nuclear Power Station have contributed to the County's growth. However, rural preservation and agricultural issues typically dominate the County's planning process.

Goals and Objectives

Louisa County lists several goals and objectives for economic development. The first goal stresses support of the existing economic base while exploring economic opportunities that are compatible with the County's natural, financial, and human resources. Important objectives in creating new opportunities include: the promotion of new businesses that are compatible with neighboring land uses, the diversification of industry, and support of organizations created to attract and recruit economic development. A key objective for supporting the existing economic base is

enhancement of business community and school system relationships. Finally, home-based businesses should be established and promoted as foundations of the business community.

Another goal is assurance that economic development will be consistent with the 1993 plan recommendations. To achieve this, three primary objectives include: identifying and reserving sites suitable for industrial development; siting, designing, and managing heavy industrial facilities to minimize adverse environmental impacts; and site design guidelines for all economic development. Also important is continued support of improvements to the Air Industrial Park, and promotion of Louisa County as a location for aviation-oriented activity.

A third goal is the expansion and improvement of medical services for county residents. Studying the potential for expanded medical services, and investigating opportunities for increased coordination of regional health facilities, are planned.

A fourth goal is the preservation and improvement of agriculture through its promotion as an attractive and desirable land use. To achieve this, premium farmland will be developed agriculturally for local benefit. Three other objectives necessary for the successful development of this farmland include: awareness of agricultural Best Management Practices (BMPs), public education of local farmers about efficient methods of agricultural production, and development of interactions between the school system and local farmers.

Another goal is the recognition of forestry as a valuable natural resource industry and promotion of methods for improving timber production. As with the agricultural industry, the main objective for forestry is developing premium forestal land for local economic benefit. To ensure success: public awareness of forestal (BMPs), and the maintenance of vegetative buffers between cleared areas and public roadways by forestry operators, will be encouraged.

A final goal is balancing the promotion of tourism and recreation/resort communities with economic development and environmental concerns. Two key objectives toward reaching this balance are the controlled development of recreational and resort communities in "Resort Community Planning Areas", and limited development of corporate, institutional and religious retreats in "Rural Conservation Planning Areas". Another objective enlists the help of the State Department of Travel and Tourism to locate historical and natural areas. Other objectives include: providing sufficient recreational facilities for county residents, identifying areas for the greatest leisure and recreation opportunities, and preparing a study to promote tourism and historic attractions in the County.

Source: Draft Comprehensive Plan 1993 The County of Louisa, Virginia (1993)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1880-1990	1970-1990
Louisa 27%	14%	45%	
Region	36%	32%	80%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
Louisa	11%	8%	7%	7%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
Louisa	65%	16%	92%
Region	1265	-33%	52%
Nonresidential:			
Louisa	-55%	7%	-52%
Region	7%	23%	32%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				1970-80	1980-90
Louisa	\$ 9,532	\$12,030	\$17,576	26%	46%
Region	\$11,329	\$14,026	\$17,599	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
Louisa	12%	18%	12%
Region	9%	13%	12%

Unemployment Rates:

	1980	82	84	86	88	90	91
Louisa	8.1	9.4	6.7	5.2	4.9	4.9	7.6
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Residents Working Outside County:

	1980	1990
Louisa	54%	58%
Region	66%	65%

Percentage of Employees by Industry:

	1970	1980	1990
Louisa:	Manuf (27%)	Manuf (19%)	Const (20%)
	Const (19%)	Govt (15%)	Manuf (17%)
	Farm (15%)	Const (12%)	Govt (12%)
	Govt (15%)	Farm (12%)	Retail (9%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
Louisa:		
Revenues	\$14,903,647	\$24,805,705
Expenditures	\$14,118,541	\$24,736,682
Gains/Losses	\$785,106	\$69,023

Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
Louisa	\$52,992,889	\$64,327,598	21%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

Population growth rates for Louisa County were consistently below the Region's average from 1970 to 1990. The County's overall 45% growth from 1970 to 1990 was approximately half the Region average of 80%. Projected population growth rates for Louisa remain below the Region's through 2030.

Growth in the number of residential building permits issued by Louisa County has been fairly positive. While the Region's growth rate exceeded the County's between 1980 and 1985, the Region saw an overall decline in growth from 1985 to 1990. Louisa's rate increased from 1985 to 1990. In terms of nonresidential permits, however, Louisa experienced a 52% decline while the Region experienced an overall increase of 33%.

Louisa County's per capita personal income was roughly \$2,000 below the Region average for 1970 and 1980. However, the County's 1990 figure was almost equal to that of the Region. Louisa residents experienced a 46% growth rate in per capita personal income from 1980 to 1990 while that of the Region was 25%. Also, while transfer payments as a percentage of total personal income were 3 to 5% above Region figures for 1970 and 1980, they were equal to the Region figure

in 1990 and had dropped from 18% in 1980 to 12% in 1990. Meanwhile, Louisa's unemployment rates during the 1980's were consistently above the Region's average by roughly 1.0 to 2.0%.

In terms of the distribution of employees by industry, manufacturing remained a large employer from 1970 to 1990, but dropped from 27% to 17%. Construction was the leading employer in 1990 at 20%. As with other counties, farming has experienced a steady decline. Meanwhile, the service industry, which has consistently been strong and increasing in the Region from 20% in 1970 to 28% in 1990, was not within the top four employment industries for Louisa County for 1970, 1980, or 1990.

Louisa County's fiscal indicators reveal strengths and weaknesses. The County showed gains in government revenues and expenditures for both the 1981 and 1990 periods analyzed. Meanwhile, the Region's average gains in 1981 were much lower and were negative in 1990. In terms of taxable sales, however, the County had the fifth lowest total sales for both 1980 and 1991 (Table 17A). Also, the County's growth rate in sales rose by 21% while the Region's rate increased by 53%.

Louisa County's per capital personal income and transfer payments as a percentage of total income are comparable to those of the Region. Furthermore, the County's gains in revenues were positive for the 1981 and 1990 periods studied. One area of concern is the low total taxable sales and low growth rate in sales. This may reflect the lack of services and retail industries, compared to the Region.

NEW KENT COUNTY Economic Development

Background

Within New Kent's comprehensive plan, the County highlights several development assets and concerns. Some of the assets mentioned are: the County's location in the Richmond-Hampton Roads Corridor, its proximity to the Chickahominy, Pamunkey and York Rivers, the fact that Route 64 traverses the entire length of the County and the New Kent Airport. Concerns include: the decentralized growth which prohibits public water and sewer systems, the lack of commercial development, few employment opportunities and a housing stock that is primarily single family and owner-occupied. This limits a younger population seeking multi-family and rental housing.

New Kent's comprehensive plan highlights the overall lack of a strong industrial and commercial base. The only commercial centers are those located in the villages of Providence Forge, Eltham and Bottoms Bridge where the selection of goods and services is limited. Therefore, residents make purchases outside the County. There are only 112 acres total of industrial development scattered throughout the County, and half of these lands are used in the production of lumber and other timber products. One 30-acre industrial park was built in Providence Forge next to the New Kent Airport.

Goals and Objectives

The two economic goals addressed in the plan focus on commercial and industrial development. Commercially, the County hopes to develop a variety of commercial activities at

appropriate and convenient locations. The commercial development objectives include: retaining and expanding existing commercial development; clustering commercial development in growth areas; and providing sufficient land for development of community and regional shopping and service needs. Close attention will be given to the physical environment in site design in an effort to avoid strip development. Industrially, the County intends to create a diverse industrial base to expand employment opportunities and add to the tax base. The industrial development objectives outlined include providing adequate land, services and utilities to support light to moderate industrial expansion. Industrial development is expected to expand around major highways, railways, airports and navigable waterways. Promotion of industrial parks will be means to concentrate industrial development. This will assist in reducing adverse impacts to the environment.

Source: Draft Comprehensive Land Use Plan New Kent County 1991 (1991)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
New Kent	85%	7%	97%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
New Kent	21%	15%	13%	12%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
New Kent	38%	-10%	24%
Region	126%	-33%	52%

Nonresidential:

New Kent	283%	-26%	183%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
New Kent	80%	80%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				1970-80	1980-90
New Kent	\$10,475	\$15,077	\$20,928	44%	39%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
New Kent	10%	11%	10%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
New Kent	3.4	6.1	3.2	3.1	2.3	2.8	4.5
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
New Kent:	Serv (24%)	Serv (25%)	Serv (38%)
	Govt (19%)	Govt (21%)	Govt (17%)
	Manuf (16%)	Retail (19%)	Const (13%)
	Farm/Retail (13%)	Manuf (11%)	Retail (12%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
New Kent:		
Revenues	\$7,262,608	\$12,974,252
Expenditures	\$7,611,571	\$13,630,299
Gains/Losses	-\$348,963	-\$656,047

Region:

Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
New Kent	\$20,265,835	\$22,910,591	13%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

New Kent County's population was the lowest in the Region in 1970. In 1990, it was the second lowest in the Region, after King and Queen County. Its population size has remained quite similar to that of King William County since 1975. Projections for population increases from 1990 to 2030 maintain this low growth.

Many of the County's economic indicators examined were positive. The County's real per capita income was slightly below that of the Region in 1970, but by 1990 it had risen over \$3,000 above the regional average. The County's growth rates in per capita income for 1970 to 1980 and for 1980 to 1990 were well above the Region's figures. Unemployment rates remained below the Region's rates by at least 1.0% throughout the 1980's. Along with higher than average per capita income and lower than average unemployment rates, transfer payments as a percentage of total personal income were below Region figures in 1980 and 1990. Furthermore, the County has enjoyed the same stable employment sources from 1970 to 1990. Services and government were consistently the strongest employers from 1970 through 1990 while farming and manufacturing dropped off during the two decades.

One area of concern is the high number of residents working outside the County. Figures for 1980 and 1990 were both 80%, which is well above the Region's figures. Another area of concern is that government revenues and expenditures saw losses both in 1981 and 1990. Finally, total taxable sales were much lower than taxable sales in the Region and the growth rate from 1980 to 1991 was the second lowest in the Region at 13%.

ORANGE COUNTY Economic Development

Background

Like many rural jurisdictions outside the Washington metropolitan area, Orange County is facing development pressure. However, the majority of residents in the County want to maintain its rural character. Farmland is one of Orange County's most valuable assets. Agriculture provides many direct benefits to farmers and indirect benefits to merchants in the agricultural industry.

Goals and Objectives

Orange County officials stress the significance of convenient job locations and appropriate employment opportunities for county residents. More opportunities for skilled and professional workers are needed, along with an adequate range of positions for young residents who wish to stay in the County. Orange County also wants to encourage non-nuisance businesses of moderate size. The target areas are the Route 15 corridor near the towns of Orange and Gordonsville, and the intersection of Routes 3 and 20. Also stressed is the importance of industrial growth, particularly capital-intensive industry that will contribute to the tax base.

The County's limited water resources have often hindered development opportunities. Several industries have gone out of business in Orange County over the last two decades. Yet, industry is the County's largest employer and its gross payrolls exceed the government and retail trades. The Orange County Economic Development Corporation is working to broaden the economic base

through industrial development. Other key players are the Town of Orange Industrial Development Authority and the Industrial Development Authority of the County of Orange.

Orange County's primary goal for encouraging economic development is to promote a diversity of employment opportunities in the agricultural, administrative, professional, commercial, and industrial fields. To reach this goal, the County's plans include: promoting a variety of commercial and business services, and re-identifying and re-evaluating prime sites for industrial development. Also important is the promotion of moderately-sized non-nuisance industrial, commercial, and business activities near the towns of Orange and Gordonsville, along the Route 15 corridor and the intersection of Routes 3 and 20.

Source: Orange County Comprehensive Plan (1990)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
Orange	31%	19%	55%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
Orange	14%	11%	10%	9%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-1985	1985-1990	1980-1990
Residential:			
Orange	65%	10%	82%
Region	126%	-33%	52%
Nonresidential:			
Orange	-11%	106%	83%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
Orange	36%	46%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				70-80	80-90
Orange	\$12,563	\$13,686	\$16,808	9%	23%
Region	\$11,329	\$14,026	\$17,426	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
Orange	10%	18%	15%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
Orange	5.2	10.6	4.8	4.9	3.8	5.7	8.7
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Percentage of Employees by Industry:

	1970	1980	1990
Orange:	Manuf (28%)	Manuf (28%)	Manuf (24%)
	Serv (20%)	Serv (16%)	Serv (19%)
	Farm (15%)	Retail (13%)	Retail (16%)
	Retail (13%)	Govt (13%)	Govt (14%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
Orange:		
Revenues	\$13,616,094	\$23,569,595
Expenditures	\$13,407,438	\$27,669,208
Gains/Losses	\$208,656	-\$4,099,613

Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
Orange	\$78,626,221	\$90,514,674	15%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

Population data above reveals that growth rates in Orange County have consistently been below those of the Region, particularly from 1980 to 1990. Projected growth rates for Orange County continue to show rates below the Region average.

The growth rates for residential and nonresidential building permits issued for the County have both been above those of the Region. While the Region saw a decline in the rate of growth in residential permits from 1985 to 1990, the County saw an increase. The growth rate of nonresidential permits was particularly high in the County from 1985 to 1990, almost five times that of the Region.

Orange County has a remarkably low percentage of residents working outside the County. Percentages for both 1980 and 1990 were well below the Region's figures. The County experienced the second lowest percentages in the Region for both time periods (Tables 7 and 8).

Other economic indicators place Orange County slightly below Region figures. The County's per capita personal income was slightly above the Region's number for 1970, but fell just below the Region in 1980 and 1990. Growth in personal income was similar in both the County and the Region from 1980 to 1990. Unemployment rates in the County were similar to those in the Region during

much of the 1980's. However, figures for 1991 show the County rate at 2.3% over the Region average.

In terms of the number of employees by industry, manufacturing has remained a dominant and steady employer in Orange County since 1970. Meanwhile, manufacturing in the Region has declined. As with the other county's in the Region, farming which was fairly strong in the 1970's has declined significantly.

Fiscal indicators reveal some negative trends. While the Region saw slight losses in government revenues and expenditures for 1990, those losses in Orange County were significantly higher. Taxable sales for the County were well below the Region averages for both 1980 and 1991 and have experienced a much slower growth rate at 15% compared to the Region growth rate of 53%.

SPOTSYLVANIA COUNTY Economic Development

Background

Spotsylvania County lies between the metropolitan centers of Washington, D.C. and Richmond, and is bisected by the heavily travelled Interstate 95. The County's 1987 comprehensive plan indicates that county officials are generally in favor of business expansion in Spotsylvania; many of the areas designated for economic development in the earlier 1980 plan have been zoned either commercial or industrial. The business centers include: the Route 1/Interstate 95 Corridor, Routes 2 and 17, and the Route 3 and 17 Bypass. Economic activity is also designated for major crossroads at: Four Mile Fork, the Route 3 interchange of I-95, Spotsylvania Court House, and Thornburg.

Spotsylvania County has been very successful in attracting commerce and industry. Its central location attracts distribution centers. Meanwhile, many firms find it convenient for receiving raw materials and shipping finished goods. Furthermore, the County is recognized as a commercial hub for surrounding areas. Commercial centers, like Spotsylvania Mall, have helped sales tax revenues. In 1980, the County purchased a large vacant manufacturing facility which has become the Spotsylvania County Industrial Park.

Goals and Objectives

A primary goal is to stabilize the economy to aid existing businesses and attract new enterprises. Objectives include: encouraging commercial activity to locate in designated areas, the extension of utilities to economic development areas, and promotion of the recreation and tourist

industries. Another goal is the establishment of commercial centers to support community development by clustering commercial growth, restricting strip development, establishing neighborhood commercial centers for rural areas, and creating highway centers near primary transportation routes. A third goal is expansion of the industrial base to provide county residents jobs while avoiding the stimulation of rapid population growth by diversifying the industrial base, protecting prime industrial lands from competing land uses, and maintaining the viability of industrial lands through the restriction of noncompatible uses of adjacent lands. Finally, Spotsylvania County government and its agencies will continue to promote sound economic development. The approach includes: establishing advertising and promotion programs to attract new industry and business, the systematic recruitment of prospects through the Office of Economic Development, and exploring all state and federal programs to assist localities with economic development. Also important is supporting the activities of the Industrial Development Authority, and the availability of industrial revenue bonds.

Source: Spotsylvania County Comprehensive Plan (1987)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
Spotsylvania	95%	79%	250%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
Spotsylvania	32%	17%	15%	13%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-85	1985-90	1980-90
Residential:			
Spotsylvania	209%	-23%	137%
Region	126%	-33%	52%
Nonresidential:			
Spotsylvania	139%	64%	292%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
Spotsylvania	82%	63%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				70-80	80-90
Spotsylvania	\$12,866	\$14,155	\$16,412	10%	16%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
Spotsylvania	9%	14%	14%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
Spotsylvania	6.6	9.9	4.7	4.0	3.9	5.8	8.8
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Percentage of Employees by Industry:

	1970	1980	1990
Spotsylvania:			
Manuf (23%)		Retail (24%)	Retail (26%)
Retail (20%)		Serv (23%)	Serv (26%)
Serv (20%)		Govt (15%)	Govt (13%)
Govt (15%)		Manuf (11%)	Const (11%)
Region:			
Govt (23%)		Serv (24%)	Serv (28%)
Serv (20%)		Govt (20%)	Retail (20%)
Manuf (18%)		Retail (18%)	Govt (17%)
Retail (15%)		Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
Spotsylvania:		
Revenues	\$41,807,263	\$85,305,538
Expenditures	\$44,631,872	\$87,181,446
Gains/Losses	-\$2,824,609	-\$1,875,908
Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
Spotsylvania	\$217,181,711	\$440,255,013	103%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

Population data reveals strong growth in Spotsylvania County from 1970 through 1990. The County experienced the highest growth rate in the Region from 1970 to 1990, well above the Region average (Table 1). Actual population size for Spotsylvania County was slightly below that of the most populated County, Hanover. However, projected population figures for 1990 to 2000 show Spotsylvania with the highest growth rate at 32%, while that of Hanover is 23% (Table 2).

The County's high growth is also reflected in residential and nonresidential building permits issued. The number of residential and nonresidential permits issued in the County from 1985 to 1990 was consistently the highest in the Region (Tables 4 and 5). Furthermore, the County growth rates for both types of permits throughout the 1980's were well above the Region averages.

Another positive sign accompanying this increased population and building growth is a decline in the percentage of residents commuting outside the County. The percentage of people commuting to work outside the County fell by almost 20% from 1980 to 1990.

In terms of several of the economic indicators, Spotsylvania County figures are similar to those of the Region. Per capita personal income, transfer payments as a percentage of total personal income, and unemployment rates were all roughly equal to regional figures for the time periods studied. However, personal income in the County appears to be losing pace with the Region as County growth rates were much lower than Region rates for both 1970 to 1980 and 1980 to 1990. Also, the unemployment rate in Spotsylvania County was 2.4% above the Region average in 1991.

Like the Region, the County has seen a rise in the number of workers in retail and services industries. Meanwhile, manufacturing which was once a strong employer in the 1970's, fell dramatically by the 1990's. In 1990, the makeup of workers by industry was very similar to that of the Region.

Fiscal indicators show both positive and negative signs of growth in Spotsylvania County. Government revenues and expenditures in the County were negative in both 1981 and 1990. However, taxable sales for the County were much higher than Region figures for both 1980 and 1991. In 1991, Spotsylvania County had the second highest total taxable sales for the Region, after Hanover County (Figure 11). Also, the County had the highest growth rate in taxable sales in the Region (Appendix A, Table A10).

YORK COUNTY Economic Development

Background

York County has a highly educated citizenry, however, the largest number of new jobs created have been lower-paying jobs in the retail and service sectors. York County needs to create first-class business park environments to attract the professional and technical firms that provide higher-paying career opportunities. One of the main reasons that these parks have not developed in the County has been the lack of public utilities. To attract college graduates, the County must expand employment opportunities in the Finance, Insurance and Real Estate sectors. The County needs high-paying jobs rather than a larger number of jobs. To create these higher-paying jobs, York County must promote "capital intensive" rather than "labor intensive" businesses.

York County must take advantage of the potential for generating revenues through tourism. Hotel developments were one of the most significant generators of new local tax revenues in the County in the 1980's. However, tourism is cyclical, thus the County must work to increase visitation during off months.

Physically, York County is linear and follows I-64. Also, it is the only county on the Virginia Peninsula that shares a common boundary with every other jurisdiction on the Peninsula. Economic growth is from the Hampton and Newport News areas toward the mid-Peninsula, and York County is in this pathway. The County is close to four I-64 interchanges in the mid-Peninsula area and has another four full interchanges located in the northern portion of the County. Roughly 4,000 acres of developable vacant land is located near six of these eight interchanges. Two of the three

interchanges, Lightfoot and Camp Peary, have the most long-range economic potential, but lack the most basic public utilities.

There are several constraints to enhanced economic development. Due to the increasing protection of non-tidal wetlands much land in the southern portion of the County will become undevelopable, thus, land in the northern part of the County must be managed effectively to achieve the County's economic development objectives. Much of the County's land that is designated General Industrial is owned by Amoco, which has no immediate plans to develop this land. Also, there is limited public support for expanding the County's General Industrial land use designation. Therefore, it will be hard for the County to compete for heavier, capital-intensive industry. Also, another concern is the shortage of raw water to service the Peninsula.

During the 1970's and 1980's, York County experienced dramatic growth in new hotel construction and retail sales development. General retail and tourism sectors are good generators of local tax revenues and new jobs, but this type of economic development creates jobs that are typically lower-paying and seasonal. Thus, while employment growth in the County has been high, the County had the lowest percentage increase in earnings of any jurisdiction on the Peninsula.

Light industry and office development on the Peninsula has largely been concentrated in Hampton and Newport News. However, York County is in a good position to capture a greater share of the higher-paying job opportunities created by business park settings. Interstate highway systems and advances in telecommunications have enabled greater decentralization of economic development. Also, businesses desire to locate in aesthetically pleasing environments. Finally, employment centers often follow suburban development and retail development, both of which have occurred in York County.

The County must offer prime locational opportunities to light industrial and office development and it must inform the citizens of the fiscal benefits provided by economic development. The most significant impediment to the natural migratory trends of economic development occurring in the region is the lack of adequate public facilities at key potential business locations, particularly along I-64.

Goals and Objectives

The County's goals are based on the premise that business and industry make important contributions to the fiscal condition of a community by providing employment for residents and contributing local tax revenues. The County's principal goal is economic development that enhances the citizens' quality of life. Another goal is diversifying and balancing the County's tax and employment base through the promotion of clean, environmentally-sensitive industry, providing a full range of employment opportunities, and helping to promote entrepreneurial activity. In terms of locational and transportation benefits, another goal is capitalizing on York County's central location on the Peninsula and its linear relationship to I-64.

One of the County's key objectives in attaining economic growth is expanding the base of higher-paying white collar and technical employment through the creation of first-class business park developments where professional and technical firms prefer to locate. Closely related to this effort is that of expanding the County's base of capital-intensive business and industry to create higher-paying jobs and generate higher tax revenues. Also related is the objective of promoting a linkage between the education system and business and industry. Objectives in attracting new businesses should also include public/private efforts to market privately owned, non-residential properties. In

terms of existing businesses, the plan suggests building on the County's base as a tourist destination. Finally, the County's objectives recognize the importance of ensuring that new businesses are environmentally sound, particularly with respect to water conservation. The plan recommends requiring the use of water-saving fixtures in new developments and discouraging water-intensive industries.

Source: The County of York Comprehensive Plan (1991)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
York	28%	20%	53%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
York	17%	13%	12%	10%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-1985	1985-1990	1980-1990
Residential:			
York	234%	-53%	58%
Region	126%	-33%	52%
Nonresidential:			
York	-40%	-50%	-70%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
York	79%	70%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				70-80	80-90
York	\$12,044	\$15,086	\$20,687	25%	37%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
York	9%	12%	12%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
York	4.8	4.8	3.3	3.4	2.8	3.2	4.3
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
York:	Govt (61%)	Govt (45%)	Govt (34%)
	Retail (9%)	Retail (15%)	Serv (21%)
	Serv (8%)	Serv (12%)	Retail (16%)
	Const (7%)	Const (10%)	Const (12%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
York:		
Revenues	\$43,062,659	\$69,088,231
Expenditures	\$42,647,701	\$70,113,393
Gains/Losses	\$414,958	-\$1,025,162
Region:		
Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
York	\$129,562,947	\$224,558,678	73%
Region	\$121,149,065	\$184,924,510	53%

Analysis of Facts

Population figures indicate strong growth in York County. In 1990, the County experienced the third highest total population, after Hanover and Spotsylvania Counties. However, the County's population growth rate from 1970 to 1990 was roughly 20% below that of the Region. Furthermore, York County's projected growth for 1990 to 2000 is below the Region average and that of Hanover and Spotsylvania Counties.

York County appears strong in terms of many of the economic indicators examined. Per capita personal income for the County was above the Region's income figure throughout the two decades studied. Furthermore, the growth rate in this income from 1980 to 1990 was 12% above the Region average. Unemployment was consistently below the Region by 1.0% or more. Coupled with these positive income and unemployment figures, transfer payments as a percentage of total personal income in the County were equal to Region figures for 1970, 1980 and 1990.

Government was consistently the top employer in the County for each time period studied. However, while its significance has declined somewhat since 1970. Meanwhile, the services, retail, and construction industries have increased in terms of employment from 1970 to 1990.

In regard to the County's fiscal condition, one area of concern is the loss in government revenues versus expenditures in 1990 of over one million dollars. York County's total taxable sales,

however, were above the Region's average total sales in 1980 and 1991, and grew at a rate of 73% from 1980 to 1991. This growth rate was well above that of the Region.

CITY OF WILLIAMSBURG Economic Development

Background

Unlike the counties within the Region, Williamsburg City has a large number of workers commuting into its jurisdiction. Williamsburg employs more persons than James City County or York County. These jobs are primarily in retail trade, services and government.

Tourism related services account for most of the employment. Restaurant employees comprise over 50% of the retail jobs, while motel and lodging employees make up over 75% of the jobs in the service industry. The large concentration in the government sector is due to the College of William and Mary. The Colonial Williamsburg Foundation is the largest employer in the City. The College is the second biggest employer.

Retail sales generate much of the City's tax revenues. These sales are heavily concentrated in the hotel and restaurant categories. Due to the seasonal fluctuations of tourism-related businesses, City revenues from taxable retail sales within the City often fluctuate. However, the students of the College who comprise approximately 50% of the City's residents, provide much of the City's off-season retail trade.

The retail businesses within the City are small scale and likely to remain so. The City does not have the type of population necessary to support a regional-level shopping center, such as a furniture, home appliance, or large discount store. Furthermore, the City does not appear to have a competitive site to accommodate a regional mall. Williamsburg residents travel to Richmond or the Lower Peninsula for these goods.

Goals and Objectives

Williamsburg City officials believe that maintaining the City's strong and profitable tourism-based economy is critical to its continued economic success, however, they also recognize the importance of diversification. Williamsburg's goal in economic development is to support the City's existing tourism base while exploring other economic opportunities for an expanded employment and revenue base. Objectives toward this goal include: encouraging non-tourist related development in order to diversify the City's economic base and identifying areas suitable for employment uses and reserving them for such use.

Source: Comprehensive Plan Williamsburg, Virginia 1989 (1989)

County to Region Comparisons

Population Growth Rates:

	1970-1980	1980-1990	1970-1990
Williamsburg	14%	12%	27%
Region	35%	32%	77%

Projected Population Growth Rates:

	1990-2000	2000-2010	2010-2020	2020-2030
Williamsburg	9%	5%	5%	5%
Region	21%	15%	13%	12%

Growth Rates in Building Permits Issued:

	1980-1985	1985-1990	1980-1990
Residential:			
Williamsburg	474%	-75%	42%
Region	126%	-33%	52%
Nonresidential:			
Williamsburg	7%	-20%	-14%
Region	7%	23%	32%

Residents Working Outside County:

	1980	1990
Williamsburg	19%	23%
Region	66%	65%

Real Per Capita Personal Income (in 1990 dollars):

	1970	1980	1990	Growth Rates	
				70-80	80-90
*Williamsburg	\$12,459	\$14,343	\$17,207	15%	20%
Region	\$11,329	\$14,026	\$17,465	24%	25%

Transfer Payments as a Percentage of Total Personal Income (in 1990 dollars):

	1970	1980	1990
*Williamsburg	9%	15%	16%
Region	9%	13%	13%

Unemployment Rates:

	1980	82	84	86	88	90	91
Williamsburg	3.5	7.8	5.7	5.4	4.4	6.1	7.9
Region	5.5	8.5	4.8	4.5	3.7	4.4	6.4

Number of Employees by Industry:

	1970	1980	1990
*Williamsburg:	Serv (34%)	Serv (40%)	Serv (37%)
	Govt (28%)	Govt (22%)	Retail (24%)
	Retail (16%)	Retail (17%)	Govt (18%)
	Manuf (11%)	Manuf (10%)	Manuf (7%)
Region:	Govt (23%)	Serv (24%)	Serv (28%)
	Serv (20%)	Govt (20%)	Retail (20%)
	Manuf (18%)	Retail (18%)	Govt (17%)
	Retail (15%)	Manuf (13%)	Const (12%)

Government Revenues and Expenditures:

	1981 (1990 \$'s)	1990
Williamsburg:		
Revenues	\$14,961,596	\$20,210,115
Expenditures	\$15,357,718	\$21,238,213
Gains/Losses	-\$396,122	-\$1,028,098

Region:

Revenues	\$20,950,244	\$39,312,723
Expenditures	\$20,814,812	\$39,672,954
Gains/Losses	\$135,432	-\$360,231

Total Taxable Sales:

	1980 (1991 \$'s)	1991	Growth Rate
Williamsburg	\$252,933,979	\$253,268,663	0%
Region	\$121,149,065	\$184,924,510	53%

* Williamsburg and James City County figures reported jointly.

Analysis of Facts:

The City of Williamsburg's population growth rate was well below the Region average. This may be due to the small size of the jurisdiction and the possibility that the City has reached its growth capacity. Projected population growth rates for the City remain well below those of the Region.

One of the biggest differences between the City and the counties in the Region is Williamsburg's low percentage of residents working outside the jurisdiction. Figures for 1980 and 1990 were more than 40% below the Region's figures. This is probably due to the fact that the City is a major employment center.

Several of the City's economic indicators are similar to Region averages. Per capita personal income figures for Williamsburg were very close to Region figures, However, the growth rate in the Region was above that in the City for both decades reviewed. Transfer payments as a percentage of personal income have only been slightly above Region figures, but they have been rising at a rate faster than that of the Region. Unemployment rates have also been only slightly above those of the Region.

Services have remained a strong employer in Williamsburg. Also, retail has grown significantly. Meanwhile, government and manufacturing have fallen.

Fiscal indicators have been good and bad. Government revenues and expenditures experienced losses in both 1981 and 1990. Losses in 1990 were over one million. However, total taxable sales in the City were high in both 1980 and 1991. These sales, however, experienced no growth from 1980 to 1991.

Common Concerns, Goals and Objectives

CONCLUSIONS

A review of the backgrounds, goals, and objectives outlined on the preceding pages by the jurisdictions within the Region reveal several common concerns, and similar goals and objectives.

Common Concerns

A shared concern highlighted by many regional localities is rapidly growing populations. Tied to this is the problem of sprawling residential development, increased transportation congestion, and limited public utilities due to sprawling development.

Another concern expressed by several of the counties is the lack of a strong commercial and industrial base to support growing residential development. Typical obstacles accompanying the weak economic growth in these rural jurisdictions include: difficulty attracting new businesses, low taxable sales to support local governments, and few sources of goods and services. As a result, these counties must cope with the dilemma of relying heavily on residential property taxes for local revenue.

Due to weak economies these counties are strongly influenced by the major metropolitan centers outside their jurisdictions. This leads to the heavy flow of workers and spending to these metropolitan centers. This out-commuting is fueled by the lack of employment opportunities within the counties, and the high ratio of low-paying retail and service jobs to white-collar professional positions. The result is an underskilled labor force in many of the regional localities.

Many of these jurisdictions depend on tourism and seasonal employment as a major source of revenue outside property taxes. Employment woes are only enhanced by the recent decline of

the agricultural and forestry industries upon which many of these counties once depended.

Common Goals and Objectives

One of the primary goals mentioned by a majority of the regional counties is broadening the economic tax base. Closely tied to this goal is the need to create a better balance between residential development, and industrial and commercial growth. Common objectives aimed at creating this balance include: expanding the local employment base in terms of the number and types of jobs available, encouraging small businesses, reducing out-commuting, instituting better education and training programs to enhance the skill level of the local labor force, and creating more full-time and less seasonal employment.

Strategies for improving industrial development were often discussed by the regional jurisdictions. Common strategies include: enhancing existing businesses and industries and promoting new ones, preserving high quality sites for industrial development, and promoting high-tech light industry that is environmentally sound. Also important is clustering development in specified growth areas to provide public utilities and attract new industries, and developing business and industrial parks that cluster development and promote a skilled labor force.

Due to the unique rural character of many of the regional localities, a common economic objective includes expanding or exploring the potentials of tourism and recreation for local revenue. It is also important to many of these areas to maintain their rural character by preserving and protecting agricultural and forestry industries. Tied to this rural preservation is the significance of conserving the environment while seeking growth and development.

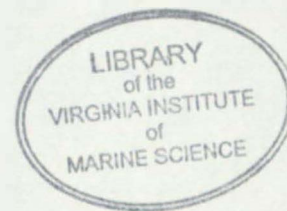
VII. REGIONAL ECONOMIC AGENCIES

Currently, there is no single regional economic agency or council to assist the jurisdictions located in the York River Watershed Region. Several of the localities, however, are aided by different regional councils. The Virginia Peninsula Economic Development Council is a regional economic agency for Gloucester County, James City County, York County, and the City of Williamsburg, as well as the cities of Hampton, Newport News, and Poquoson. The Metropolitan Economic Development Council provides assistance to Hanover County, as well as Chesterfield County, Henrico County, and the City of Richmond.

These councils are regional nonprofit organizations, funded by the counties and cities within their metropolitan regions. The common mission of these agencies is to market the metropolitan area they represent in an effort to attract new business to that area. These agencies assist companies looking to relocate or expand in their region, while cooperating with their regional localities in terms of identifying the services necessary to bring new industry to the area. One of the principal services the agencies provide to relocating or expanding companies is site selection assistance. The councils also provide companies with the demographic and economic information regarding their metropolitan region, as well as information pertaining to: transportation, public water and sewer, climate, and cultural amenities.

The other counties within the Region: Caroline, King and Queen, King William, and New Kent, lay between the jurisdictions of the two councils discussed above. These counties are not part of a larger economic organization. This is most likely due to the fact that these areas are farther removed from large metropolitan areas. These areas, however, are experiencing economic development, though somewhat slower than that of the Region's other localities. A regional

organization to address the growth concerns of all the jurisdictions comprising the York River Watershed would bridge the current piecemeal representation of the localities within the Region and promote the manageable growth necessary to protect the Watershed.



APPENDICES

APPENDIX A

TABLE A1

GENERAL POPULATION DEMOGRAPHICS CAROLINE COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	13925	17904	19217	0.29	0.07	0.38
Under 5 years	1401	1339	1431	-0.04	0.07	0.02
5 to 17 years	3937	4245	3584	0.08	-0.16	-0.09
18 to 24 years	1490	2239	1908	0.50	-0.15	0.28
25 to 44 years	3138	4835	6102	0.54	0.26	0.94
45 to 64 years	2692	3466	3920	0.29	0.13	0.46
65 years and over	1267	1780	2272	0.40	0.28	0.79

Number of Households

Total Households	6631
Family	5188
Nonfamily	1443

Population by Race

White	6659	9917	11686	0.49	0.18	0.75
Black	7074	7693	7244	0.09	-0.06	0.02
Other	192	294	287	0.53	-0.02	0.49

Source: Census of Population (1970, 1980 and 1990)

TABLE A2

GENERAL POPULATION DEMOGRAPHICS GLOUCESTER COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	14059	20107	30131	0.43	0.50	1.14
Under 5 years	1070	1329	2274	0.24	0.71	1.13
5 to 17 years	3670	4242	5950	0.16	0.40	0.62
18 to 24 years	1259	2165	2368	0.72	0.09	0.88
25 to 44 years	3333	5808	10346	0.74	0.78	2.10
45 to 64 years	3107	4179	5838	0.35	0.40	0.88
65 years and over	1620	2384	3355	0.47	0.41	1.07

Number of Households

Total Households	10966
Family	8505
Nonfamily	2461

Population by Race

White	6659	16888	26448	1.54	0.57	2.97
Black	7074	3088	3354	-0.56	0.09	-0.53
Other	192	131	329	-0.32	1.51	0.71

Source: Census of Population (1970, 1980 and 1990)

TABLE A3

GENERAL POPULATION DEMOGRAPHICS HANOVER COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	37479	50398	63306	0.34	0.26	0.69
Under 5 years	3008	3158	4371	0.05	0.38	0.45
5 to 17 years	10601	11374	11436	0.07	0.01	0.08
18 to 24 years	3842	5855	6121	0.52	0.05	0.59
25 to 44 years	9523	14960	21124	0.57	0.41	1.22
45 to 64 years	7622	10540	13545	0.38	0.29	0.78
65 years and over	2883	4511	6709	0.56	0.49	1.33

Number of Households

Total Households	22628
Family	18090
Nonfamily	4538

Population by Race

White	30681	43615	56440	0.42	0.29	0.84
Black	6718	6558	6405	-0.02	-0.02	-0.05
Other	80	225	461	1.81	1.05	4.76

Source: Census of Population (1970, 1980 and 1990)

TABLE A4

GENERAL POPULATION DEMOGRAPHICS JAMES CITY COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	17853	22763	34859	0.28	0.53	0.95
Under 5 years	1585	1474	2466	-0.07	0.67	0.56
5 to 17 years	4560	4953	6027	0.09	0.22	0.32
18 to 24 years	2089	2746	3187	0.31	0.16	0.53
25 to 44 years	4527	6661	11909	0.47	0.79	1.63
45 to 64 years	3531	4750	7255	0.35	0.53	1.05
65 years and over	1561	2129	4015	0.36	0.89	1.57

Number of Households

Total Households	12968
Family	9613
Nonfamily	3355

Population by Race

White	11547	16035	27804	0.39	0.73	1.41
Black	6226	6439	6460	0.03	0.00	0.04
Other	80	289	595	2.61	1.06	6.44

Source: Census of Population (1970, 1980 and 1990)

TABLE A5

GENERAL POPULATION DEMOGRAPHICS KING & QUEEN COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	5491	5968	6289	0.09	0.05	0.15
Under 5 years	485	434	459	-0.11	0.06	-0.05
5 to 17 years	1414	1196	1127	-0.15	-0.06	-0.20
18 to 24 years	544	658	579	0.21	-0.12	0.06
25 to 44 years	1130	1511	1829	0.34	0.21	0.62
45 to 64 years	1261	1342	1345	0.06	0.00	0.07
65 years and over	657	827	950	0.26	0.15	0.45

Number of Households

Total Households	2339
Family	1750
Nonfamily	589

Population by Race

White	2654	3152	3573	0.19	0.13	0.35
Black	2786	2764	2633	-0.01	-0.05	-0.05
Other	51	52	83	0.02	0.60	0.63

Source: Census of Population (1970, 1980 and 1990)

TABLE A6

GENERAL POPULATION DEMOGRAPHICS KING WILLIAM COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	7497	9334	10913	0.25	0.17	0.46
Under 5 years	667	652	811	-0.02	0.24	0.22
5 to 17 years	2048	2145	2105	0.05	-0.02	0.03
18 to 24 years	657	947	925	0.44	-0.02	0.41
25 to 44 years	1654	2650	3522	0.60	0.33	1.13
45 to 64 years	1687	1870	2170	0.11	0.16	0.29
65 years and over	754	1070	1380	0.42	0.29	0.83
Number of Households						
Total Households			3003			
Family			2452			
Nonfamily			831			
Population by Race						
White	4194	5866	7351	0.40	0.25	0.75
Black	3189	3219	3310	0.01	0.03	0.04
Other	114	249	252	1.18	0.01	1.21

Source: Census of Population (1970, 1980 and 1990)

TABLE A7

GENERAL POPULATION DEMOGRAPHICS LOUISA COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	14004	17825	20325	0.27	0.14	0.45
Under 5 years	1083	1233	1378	0.14	0.12	0.27
5 to 17 years	3894	4010	3745	0.03	-0.07	-0.04
18 to 24 years	1263	1995	1742	0.58	-0.13	0.38
25 to 44 years	3096	4707	6442	0.52	0.37	1.08
45 to 64 years	2990	3644	4226	0.22	0.16	0.41
65 years and over	1678	2236	2792	0.33	0.25	0.66

Number of Households

Total Households	7427
Family	5628
Nonfamily	1799

Population by Race

White	8589	11959	14970	0.39	0.25	0.74
Black	5399	5801	5233	0.07	-0.10	-0.03
Other	16	65	122	3.06	0.88	6.63

Source: Census of Population (1970, 1980 and 1990)

TABLE A8

GENERAL POPULATION DEMOGRAPHICS NEW KENT COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	5300	8781	10445	0.66	0.19	0.97
Under 5 years	479	623	737	0.30	0.18	0.54
5 to 17 years	1497	2002	1890	0.34	-0.06	0.26
18 to 24 years	570	945	848	0.66	-0.10	0.49
25 to 44 years	1253	2765	3845	1.21	0.39	2.07
45 to 64 years	1097	1685	2207	0.54	0.31	1.01
65 years and over	404	761	918	0.88	0.21	1.27

Number of Households

Total Households	3718
Family	3056
Nonfamily	662

Population by Race

White	2923	6379	8078	1.18	0.27	1.76
Black	2332	2287	2151	-0.02	-0.06	-0.08
Other	45	115	216	1.56	0.88	3.80

Source: Census of Population (1970, 1980 and 1990)

TABLE A9

GENERAL POPULATION DEMOGRAPHICS ORANGE COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	13792	18063	21421	0.31	0.19	0.55
Under 5 years	1144	1174	1388	0.03	0.18	0.21
5 to 17 years	3692	3922	3822	0.06	-0.03	0.04
18 to 24 years	1203	1915	1749	0.59	-0.09	0.45
25 to 44 years	3055	4728	6461	0.55	0.37	1.11
45 to 64 years	3067	3914	4610	0.28	0.18	0.50
65 years and over	1631	2410	3391	0.48	0.41	1.08

Number of Households

Total Households	7930
Family	6103
Nonfamily	1827

Population by Race

White	10816	14775	18233	0.37	0.23	0.69
Black	2945	3235	3079	0.10	-0.05	0.05
Other	11	53	109	3.82	1.06	8.91

Source: Census of Population (1970, 1980 and 1990)

TABLE A10

GENERAL POPULATION DEMOGRAPHICS SPOTSYLVANIA COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	16424	34425	57403	1.10	0.67	2.50
Under 5 years	1510	3112	5050	1.06	0.62	2.34
5 to 17 years	4621	8922	12378	0.93	0.39	1.68
18 to 24 years	1593	3487	5137	1.19	0.47	2.22
25 to 44 years	4024	11233	20997	1.79	0.87	4.22
45 to 64 years	3242	5421	9632	0.67	0.78	1.97
65 years and over	1434	2260	4209	0.58	0.86	1.94

Number of Households

Total Households	18945
Family	15654
Nonfamily	3291

Population by Race

White	12807	29013	50220	1.27	0.73	2.92
Black	3578	5082	6178	0.42	0.22	0.73
Other	39	340	1005	7.72	1.96	24.77

Source: Census of Population (1970, 1980 and 1990)

TABLE A11

GENERAL POPULATION DEMOGRAPHICS YORK COUNTY

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	33203	35463	42422	0.07	0.20	0.28
Under 5 years	2809	2316	2963	-0.18	0.28	0.05
5 to 17 years	10068	9099	9419	-0.10	0.04	-0.06
18 to 24 years	4002	4524	3665	0.13	-0.19	-0.08
25 to 44 years	9363	11369	14532	0.21	0.28	0.55
45 to 64 years	5456	6242	8675	0.14	0.39	0.59
65 years and over	1505	1913	3168	0.27	0.66	1.10

Number of Households

Total Households	14474
Family	11851
Nonfamily	2623

Population by Race

White	28162	28636	34487	0.02	0.20	0.22
Black	4803	6118	6613	0.27	0.08	0.38
Other	238	709	1322	1.98	0.86	4.55

Source: Census of Population (1970, 1980 and 1990)

TABLE A12

GENERAL POPULATION DEMOGRAPHICS CITY OF WILLIAMSBURG

	Age Distribution			Growth Rate		
	1970	1980	1990	1970-80	1980-90	1970-90
Total Persons	9069	9870	11530	0.09	0.17	0.27
Under 5 years	407	218	306	-0.46	0.40	-0.25
5 to 17 years	1035	675	752	-0.35	0.11	-0.27
18 to 24 years	4084	5035	5568	0.23	0.11	0.36
25 to 44 years	1471	1700	2305	0.16	0.36	0.57
45 to 64 years	1434	1217	1227	-0.15	0.01	-0.14
65 years and over	638	1025	1372	0.61	0.34	1.15

Number of Households

Total Households	3468
Family	1602
Nonfamily	1866

Population by Race

White	7867	8624	9368	0.10	0.09	0.19
Black	1156	1031	1754	-0.11	0.70	0.52
Other	46	215	408	3.67	0.90	7.87

Source: Census of Population (1970, 1980 and 1990)

APPENDIX B

TABLE B1

NUMBER OF EMPLOYEES BY INDUSTRY 1970

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spslvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	583	296	990	426	485	678	188	958	488	208	238	503	97361
NONFARM	3241	3121	9211	1280	2787	3946	1253	5574	14984	12806	9063	6115	2024584
PRIVATE	2293	2386	7560	1021	2495	3245	979	4953	12700	9187	3389	4564	1425471
AG.SERV.,FOR.,FISH.	63	272	84	12	13	27	22	88	88	44	254	88	10373
MINING	12	(NA)	75	(NA)	16	24	(NA)	15	(NA)	35	13	27	15958
CONSTRUCTION	151	208	1007	96	164	868	62	484	743	526	693	455	118652
MANUFACTURING	915	306	1822	336	1144	1228	237	1823	3541	1404	378	1194	367953
TRANSPRT & PUBLIC UTIL	241	188	217	22	71	(NA)	80	155	826	392	184	238	105254
WHOLESALE TRADE	26	141	528	13	146	93	24	61	600	70	119	166	67936
RETAIL TRADE	553	536	1866	124	499	440	183	827	3093	2056	841	1002	286567
FIN, INS, & REAL ESTATE	161	102	291	17	76	155	26	194	699	261	200	198	96326
SERVICES	178	632	1670	417	366	(NA)	345	1306	3105	4428	707	1315	356452
GOVERNMENT & GOVT ENTRP	948	735	1651	259	292	701	274	621	2284	3619	5674	1551	599113

PERCENTAGE OF EMPLOYEES BY INDUSTRY 1970

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spslvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	0.15	0.09	0.10	0.25	0.15	0.15	0.13	0.15	0.03	0.02	0.03	0.08	0.05
NONFARM	0.85	0.91	0.90	0.75	0.85	0.85	0.87	0.85	0.97	0.98	0.97	0.92	0.95
PRIVATE	0.60	0.70	0.74	0.60	0.76	0.70	0.68	0.76	0.82	0.71	0.36	0.69	0.67
AG.SERV.,FOR.,FISH.	0.02	0.08	0.01	0.01	0.00	0.01	0.02	0.01	0.01	0.00	0.03	0.01	0.00
MINING	0.00	(NA)	0.01	(NA)	0.00	0.01	(NA)	0.00	(NA)	0.00	0.00	0.00	0.01
CONSTRUCTION	0.04	0.06	0.10	0.06	0.05	0.19	0.04	0.07	0.05	0.04	0.07	0.07	0.06
MANUFACTURING	0.24	0.09	0.18	0.20	0.35	0.27	0.16	0.28	0.23	0.11	0.04	0.18	0.17
TRANSPRT & PUBLIC UTIL	0.06	0.06	0.02	0.01	0.02	(NA)	0.06	0.02	0.05	0.03	0.02	0.04	0.05
WHOLESALE TRADE	0.01	0.04	0.05	0.01	0.04	0.02	0.02	0.01	0.04	0.01	0.01	0.03	0.03
RETAIL TRADE	0.14	0.16	0.18	0.07	0.15	0.10	0.13	0.13	0.20	0.16	0.09	0.15	0.14
FIN, INS, & REAL ESTATE	0.04	0.03	0.03	0.01	0.02	0.03	0.02	0.03	0.05	0.02	0.02	0.03	0.05
SERVICES	0.05	0.18	0.16	0.24	0.11	(NA)	0.24	0.20	0.20	0.34	0.08	0.20	0.17
GOVERNMENT & GOVT ENTRP	0.25	0.22	0.16	0.15	0.09	0.15	0.19	0.10	0.15	0.28	0.61	0.23	0.28

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

Source: Bureau of Economic Analysis (1989)

TABLE B2

NUMBER OF EMPLOYEES BY INDUSTRY 1980

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptslnv	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	440	252	1032	294	317	676	135	849	507	116	227	440	85421
NONFARM	4250	6064	20809	935	3347	5108	1893	6978	23043	24560	12041	9912	2662010
PRIVATE	3109	4610	18232	693	2872	4246	1463	5923	19504	19177	6538	7852	1987561
AG.SERV.,FOR.,FISH.	50	552	140	13	12	47	47	43	171	58	425	142	16475
MINING	22	12	122	(NA)	(NA)	35	(NA)	(NA)	27	(NA)	(NA)	44	24987
CONSTRUCTION	421	409	3042	60	154	710	166	529	1783	1356	1205	894	160838
MANUFACTURING	903	366	2973	282	1394	1089	221	2218	2547	2424	512	1357	421286
TRANSPRT & PUBLIC UTIL	339	277	561	30	79	(NA)	57	293	1108	460	307	351	127057
WHOLESALE TRADE	92	289	2443	17	72	280	41	205	943	163	216	433	110098
RETAIL TRADE	535	1199	4008	70	492	609	381	986	5760	4099	1825	1815	399379
FIN, INS, & REAL ESTATE	158	356	804	(NA)	167	168	48	379	1653	778	583	509	166813
SERVICES	589	1149	4139	215	498	(NA)	502	1266	5512	9835	1463	2517	560628
GOVERNMENT & GOVT ENTRP	1141	1454	2577	242	475	862	430	1055	3539	5383	5503	2060	674449

PERCENTAGE OF EMPLOYEES BY INDUSTRY 1980

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptslnv	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	0.09	0.04	0.05	0.24	0.09	0.12	0.07	0.11	0.02	0.00	0.02	0.04	0.03
NONFARM	0.91	0.96	0.95	0.76	0.91	0.88	0.93	0.89	0.98	1.00	0.98	0.96	0.97
PRIVATE	0.66	0.73	0.83	0.56	0.78	0.73	0.72	0.76	0.83	0.78	0.53	0.76	0.72
AG.SERV.,FOR.,FISH.	0.01	0.09	0.01	0.01	0.00	0.01	0.02	0.01	0.01	0.00	0.03	0.01	0.01
MINING	0.00	0.00	0.01	(NA)	(NA)	0.01	(NA)	(NA)	0.00	(NA)	(NA)	0.00	0.01
CONSTRUCTION	0.09	0.06	0.14	0.05	0.04	0.12	0.08	0.07	0.08	0.05	0.10	0.09	0.06
MANUFACTURING	0.19	0.06	0.14	0.23	0.38	0.19	0.11	0.28	0.11	0.10	0.04	0.13	0.15
TRANSPRT & PUBLIC UTIL	0.07	0.04	0.03	0.02	0.02	(NA)	0.03	0.04	0.05	0.02	0.03	0.03	0.05
WHOLESALE TRADE	0.02	0.05	0.11	0.01	0.02	0.05	0.02	0.03	0.04	0.01	0.02	0.04	0.04
RETAIL TRADE	0.11	0.19	0.18	0.06	0.13	0.11	0.19	0.13	0.24	0.17	0.15	0.18	0.15
FIN, INS, & REAL ESTATE	0.03	0.06	0.04	(NA)	0.05	0.03	0.02	0.05	0.07	0.03	0.05	0.05	0.06
SERVICES	0.13	0.18	0.19	0.17	0.14	(NA)	0.25	0.16	0.23	0.40	0.12	0.24	0.20
GOVERNMENT & GOVT ENTRP	0.24	0.23	0.12	0.20	0.13	0.15	0.21	0.13	0.15	0.22	0.45	0.20	0.25

*Williamsburg and James City figures are reported jointly.

(NA) Data not available.

Source: Bureau of Economic Analysis (1989)

TABLE B3

NUMBER OF EMPLOYEES BY INDUSTRY 1990

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spts/vn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	307	180	739	214	215	508	97	625	385	87	142	318	62424
NONFARM	5229	9333	34299	1075	4406	7978	2999	9178	37394	38545	19035	15406	3622646
PRIVATE	3829	7237	31069	799	3749	6960	2486	7815	32505	31557	12465	12770	2831199
AG.SERV.,FOR.,FISH.	57	338	364	(NA)	24	100	46	70	290	211	593	209	28261
MINING	14	14	106	17	14	30	(NA)	(NA)	32	(NA)	(NA)	32	16845
CONSTRUCTION	663	961	6079	133	358	1719	390	1068	4066	2257	2219	1810	245431
MANUFACTURING	660	355	3007	257	1427	1461	246	2340	3111	2865	702	1494	437280
TRANSPRT & PUBLIC UTIL	347	361	1462	24	100	(NA)	87	257	1248	736	533	516	168153
WHOLESALE TRADE	115	305	4183	13	107	333	75	244	1639	343	451	710	138570
RETAIL TRADE	743	1813	5480	90	960	726	359	1591	9884	9216	3044	3082	588319
FIN, INS, & REAL ESTATE	225	614	1616	(NA)	177	496	96	369	2592	1801	845	883	254765
SERVICES	1005	2476	8772	226	582	(NA)	1187	1873	9643	14125	4077	4397	953575
GOVERNMENT & GOVT ENTRP	1400	2096	3230	276	657	1018	513	1363	4889	6988	6570	2636	791447

PERCENTAGE OF EMPLOYEES BY INDUSTRY 1990

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spts/vn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	0.06	0.02	0.02	0.17	0.05	0.06	0.03	0.06	0.01	0.00	0.01	0.02	0.02
NONFARM	0.94	0.98	0.98	0.83	0.95	0.94	0.97	0.94	0.99	1.00	0.99	0.98	0.98
PRIVATE	0.69	0.76	0.89	0.62	0.81	0.82	0.80	0.80	0.86	0.82	0.65	0.81	0.77
AG.SERV.,FOR.,FISH.	0.01	0.04	0.01	(NA)	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01
MINING	0.00	0.00	0.00	0.01	0.00	0.00	(NA)	(NA)	0.00	(NA)	(NA)	0.00	0.00
CONSTRUCTION	0.12	0.10	0.17	0.10	0.08	0.20	0.13	0.11	0.11	0.06	0.12	0.12	0.07
MANUFACTURING	0.12	0.04	0.09	0.20	0.31	0.17	0.08	0.24	0.08	0.07	0.04	0.09	0.12
TRANSPRT & PUBLIC UTIL	0.06	0.04	0.04	0.02	0.02	(NA)	0.03	0.03	0.03	0.02	0.03	0.03	0.05
WHOLESALE TRADE	0.02	0.03	0.12	0.01	0.02	0.04	0.02	0.02	0.04	0.01	0.02	0.05	0.04
RETAIL TRADE	0.13	0.19	0.16	0.07	0.21	0.09	0.12	0.16	0.26	0.24	0.16	0.20	0.16
FIN, INS, & REAL ESTATE	0.04	0.06	0.05	(NA)	0.04	0.06	0.03	0.04	0.07	0.05	0.04	0.06	0.07
SERVICES	0.18	0.26	0.25	0.18	0.13	(NA)	0.38	0.19	0.26	0.37	0.21	0.28	0.26
GOVERNMENT & GOVT ENTRP	0.25	0.22	0.09	0.21	0.14	0.12	0.17	0.14	0.13	0.18	0.34	0.17	0.21

*Williamsburg and James City figures are reported jointly.

(NA) Data not available.

Source: Bureau of Economic Analysis (1989)

TABLE B4

GROWTH IN NUMBER OF EMPLOYEES BY INDUSTRY 1970-1980

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	SptsVn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	-0.25	-0.15	0.04	-0.31	-0.35	-0.00	-0.28	-0.11	0.04	-0.44	-0.05	-0.13	-0.12
NONFARM	0.31	0.94	1.26	-0.27	0.20	0.29	0.51	0.25	0.54	0.92	0.33	0.62	0.31
PRIVATE	0.36	0.93	1.41	-0.32	0.15	0.31	0.49	0.20	0.54	1.09	0.93	0.72	0.39
AG.SERV.,FOR.,FISH.	-0.21	1.03	0.67	0.08	-0.08	0.74	1.14	-0.51	0.94	0.32	0.67	0.61	0.59
MINING	0.83	(NA)	0.63	(NA)	(NA)	0.46	(NA)	(NA)	(NA)	(NA)	(NA)	0.61	0.57
CONSTRUCTION	1.79	0.97	2.02	-0.38	-0.06	-0.18	1.68	0.09	1.40	1.58	0.74	0.97	0.36
MANUFACTURING	-0.01	0.20	0.63	-0.16	0.22	-0.11	-0.07	0.22	-0.28	0.73	0.35	0.14	0.14
TRANSPRT & PUBLIC UTIL	0.41	0.47	1.59	0.36	0.11	(NA)	-0.29	0.89	0.34	0.17	0.67	0.48	0.21
WHOLESALE TRADE	2.54	1.05	3.63	0.31	-0.51	2.01	0.71	2.36	0.57	1.33	0.82	1.61	0.62
RETAIL TRADE	-0.03	1.24	1.15	-0.44	-0.01	0.38	1.08	0.19	0.86	0.99	1.17	0.81	0.39
FIN, INS, & REAL ESTATE	-0.02	2.49	1.76	(NA)	1.20	0.08	0.85	0.95	1.36	1.98	1.92	1.57	0.73
SERVICES	2.31	0.82	1.48	-0.48	0.36	(NA)	0.46	-0.03	0.78	1.22	1.07	0.91	0.57
GOVERNMENT & GOVT ENTR	0.20	0.98	0.56	-0.07	0.63	0.23	0.57	0.70	0.55	0.49	-0.03	0.33	0.13

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

TABLE B5

GROWTH IN NUMBER OF EMPLOYEES BY INDUSTRY 1980-1990

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptstvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	-0.30	-0.29	-0.28	-0.27	-0.32	-0.25	-0.28	-0.26	-0.24	-0.25	-0.37	-0.28	-0.27
NONFARM	0.23	0.54	0.65	0.15	0.32	0.56	0.58	0.32	0.62	0.57	0.58	0.55	0.36
PRIVATE	0.23	0.57	0.70	0.15	0.31	0.64	0.70	0.32	0.67	0.65	0.91	0.63	0.42
AG.SERV.,FOR.,FISH.	0.14	-0.39	1.60	-1.00	1.00	1.13	-0.02	0.63	0.70	2.64	0.40	0.48	0.72
MINING	-0.36	0.17	-0.13	(NA)	(NA)	-0.14	(NA)	(NA)	0.19	(NA)	(NA)	-0.26	-0.33
CONSTRUCTION	0.57	1.35	1.00	1.22	1.32	1.42	1.35	1.02	1.28	0.66	0.84	1.02	0.53
MANUFACTURING	-0.27	-0.03	0.01	-0.09	0.02	0.34	0.11	0.06	0.22	0.18	0.37	0.10	0.04
TRANSPRT & PUBLIC UTIL	0.02	0.30	1.61	-0.20	0.27	(NA)	0.53	-0.12	0.13	0.60	0.74	0.47	0.32
WHOLESALE TRADE	0.25	0.06	0.71	-0.24	0.49	0.19	0.83	0.19	0.74	1.10	1.09	0.64	0.26
RETAIL TRADE	0.39	0.51	0.37	0.29	0.95	0.19	-0.06	0.61	0.72	1.25	0.67	0.70	0.47
FIN, INS, & REAL ESTATE	0.42	0.72	1.01	(NA)	0.06	1.95	1.00	-0.03	0.57	1.31	0.45	0.73	0.53
SERVICES	0.71	1.15	1.12	0.05	0.17	(NA)	1.36	0.48	0.75	0.44	1.79	0.75	0.70
GOVERNMENT & GOVT ENTR	0.23	0.44	0.25	0.14	0.38	0.18	0.19	0.29	0.38	0.30	0.19	0.28	0.17

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

APPENDIX C

TABLE C1

EMPLOYEE EARNINGS BY INDUSTRY 1970
(in \$1,000)

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptslnv	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	745	307	3174	628	606	1848	306	2644	1689	251	806	1182	242199
NONFARM	18095	16920	51827	5571	19593	23703	5570	29738	85060	81102	67727	36810	13445423
PRIVATE	12148	12615	44160	4473	18278	20150	4313	26415	73551	59655	23043	27164	9114509
AG. SERV., FOR., FISH.	130	1085	202	71	71	81	80	304	453	315	1198	363	47110
MINING	114	165	662	81	150	306	(NA)	168	73	182	70	197	165997
CONSTRUCTION	1209	1388	8144	863	773	9485	422	3677	4693	8927	5190	4070	915854
MANUFACTURING	3669	1309	10238	1287	11461	4936	1261	10392	23214	11582	4340	7608	2632729
TRANSPRT & PUBLIC UTIL	1694	2105	1870	383	381	(NA)	443	1282	5877	2890	1783	1871	922514
WHOLESALE TRADE	210	732	4321	101	1080	607	214	518	4355	581	1375	1281	574703
RETAIL TRADE	2770	2350	9019	478	2388	2153	760	3947	15637	9664	4256	4857	1403680
FIN, INS., & REAL ESTATE	1396	914	1348	100	448	472	130	1998	3957	1805	1073	1240	583862
SERVICES	1061	2707	8356	1256	1526	(NA)	1033	4129	15292	23709	3758	6283	1868060
GOVERNMENT & GOVT ENTRP	5947	4305	7667	1098	1315	3553	1257	3323	11509	21447	44684	9646	4330914

REAL EMPLOYEE EARNINGS BY INDUSTRY 1970 (in 1990 dollars)

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptslnv	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	2509	1034	10690	2115	2041	6224	1031	8905	5689	845	2715	3982	815760
NONFARM	60946	56989	174560	18764	65992	79835	18761	100162	286494	273163	228114	123980	45286032
PRIVATE	40916	42489	148737	15066	61563	67868	14527	88969	247730	200926	77612	91491	30698919
AG. SERV., FOR., FISH.	438	3654	680	239	239	273	269	1024	1526	1061	4035	1222	158673
MINING	384	556	2230	273	505	1031	(NA)	566	246	613	236	664	559101
CONSTRUCTION	4072	4675	27430	2907	2604	31947	1421	12385	15807	30067	17481	13709	3084722
MANUFACTURING	12358	4409	34483	4335	38602	16625	4247	35002	78188	39010	14618	25625	8867393
TRANSPRT & PUBLIC UTIL	5706	7090	6298	1290	1283	(NA)	1492	4318	19795	9734	6005	6301	3107154
WHOLESALE TRADE	707	2465	14554	340	3638	2044	721	1745	14668	1957	4631	4316	1935679
RETAIL TRADE	9330	7915	30377	1610	8043	7252	2560	13294	52668	32550	14335	16358	4727787
FIN, INS., & REAL ESTATE	4702	3078	4540	337	1509	1590	438	6730	13328	6079	3614	4177	1966527
SERVICES	3574	9118	28144	4230	5140	(NA)	3479	13907	51506	79855	12657	21161	6291883
GOVERNMENT & GOVT ENTRP	20030	14500	25824	3698	4429	11967	4234	11192	38764	72236	150502	32489	14587114

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

Source: Bureau of Economic Analysis (1989)

TABLE C2

EMPLOYEE EARNINGS BY INDUSTRY 1980
(in \$1,000)

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spts/vn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	1617	557	4865	-364	98	2072	-534	2371	98	1301	790	1170	193704
NONFARM	51494	61222	271538	10542	53921	71216	18010	74283	258141	296523	160387	120662	37280378
PRIVATE	38147	45778	244687	8397	49408	63093	13559	63626	218961	228949	80511	95920	27224404
AG.SERV.,FOR.,FISH.	280	4019	1185	71	75	274	128	301	923	542	3492	1026	138443
MINING	444	654	2916	197	198	926	(NA)	628	689	988	740	838	788509
CONSTRUCTION	6330	6435	52409	999	2882	18356	2488	7373	26847	25674	20220	15456	2598036
MANUFACTURING	11581	3152	49333	3173	35039	10677	2745	25977	37399	63155	12386	23147	7058603
TRANSPRT & PUBLIC UTIL	6673	5974	10960	455	746	(NA)	594	5325	20302	7617	6253	6490	2629557
WHOLESALE TRADE	1335	3054	43276	244	765	3997	613	2509	13540	3382	3396	6919	2047092
RETAIL TRADE	5272	9765	39285	850	3800	5528	3655	8585	50822	32964	15455	15998	3583513
FIN, INS, & REAL ESTATE	1622	2529	5557	-64	1907	1294	143	2518	13480	7745	2957	3608	1724961
SERVICES	4610	10196	39766	2371	4193	(NA)	3193	10410	54959	86882	15612	23219	6655690
GOVERNMENT & GOVT ENTRP	13347	15444	26851	2145	4513	8123	4451	10657	39180	67574	79876	24742	10055974

REAL EMPLOYEE EARNINGS BY INDUSTRY 1980 (In 1990 dollars)

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spts/vn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	2565	883	7716	-577	155	3286	-847	3761	155	2063	1253	1856	307223
NONFARM	81672	97101	430671	16720	85521	112952	28565	117816	409423	470298	254381	191374	59128276
PRIVATE	60503	72606	388084	13318	78363	100068	21505	100914	347282	363123	127694	152133	43179071
AG.SERV.,FOR.,FISH.	444	6374	1879	113	119	435	203	477	1464	860	5538	1628	219577
MINING	704	1037	4625	312	314	1469	(NA)	996	1093	1567	1174	1329	1250609
CONSTRUCTION	10040	10206	83123	1584	4571	29113	3946	11694	42580	40720	32070	24513	4120596
MANUFACTURING	18368	4999	78244	5033	55573	16934	4354	41201	59316	100167	19645	36712	11195247
TRANSPRT & PUBLIC UTIL	10584	9475	17383	722	1183	(NA)	942	8446	32200	12081	9918	10293	4170590
WHOLESALE TRADE	2117	4844	68638	387	1213	6339	972	3979	21475	5364	5386	10974	3246776
RETAIL TRADE	8362	15488	62308	1348	6027	8768	5797	13616	80606	52282	24512	25374	5683605
FIN, INS, & REAL ESTATE	2573	4011	8814	-102	3025	2052	227	3994	21380	12284	4690	5722	2735862
SERVICES	7312	16171	63071	3761	6650	(NA)	5064	16511	87167	137799	24761	36827	10556209
GOVERNMENT & GOVT ENTRP	21169	24495	42587	3402	7158	12883	7059	16902	62141	107175	126687	39242	15949205

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

Source: Bureau of Economic Analysis (1989)

TABLE C3

EMPLOYEE EARNINGS BY INDUSTRY 1990
(in \$1,000)

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptslvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	3136	3167	9384	3704	3311	6866	1626	8695	2696	2775	4364	4520	716440
NONFARM	105884	147529	727128	19141	107592	193682	45387	160917	714116	742084	407839	306482	85995518
PRIVATE	76044	108328	661389	14445	96771	175951	35085	136514	610176	577912	239767	248398	64940341
AG.SERV.,FOR.,FISH,	509	3572	5231	(NA)	113	1325	254	994	2672	2541	10614	2783	410952
MINING	435	522	4130	555	420	1290	56	228	612	1000	645	899	766585
CONSTRUCTION	15997	18062	157140	2187	8306	49265	8095	23663	96598	54295	59509	44829	6169140
MANUFACTURING	15388	5189	92718	5044	59732	28221	4916	49175	82949	124882	30523	45340	12572910
TRANSPRT & PUBLIC UTIL	13745	11009	45903	847	2104	(NA)	1313	9683	35384	15986	18741	15472	5692772
WHOLESALE TRADE	2763	5355	123326	273	2398	5455	1989	4807	35141	9359	10948	18347	4530403
RETAIL TRADE	10300	19226	76521	1519	10648	8997	3721	18715	136443	102938	32291	38302	7935745
FIN, INS, & REAL ESTATE	2901	5721	17218	(NA)	3389	8532	474	2618	39170	31333	6062	11742	4781105
SERVICES	14006	39672	139202	3815	9661	(NA)	14267	26631	181207	235578	70434	73447	22080729
GOVERNMENT & GOVT ENTRP	29840	39201	65739	4696	10821	17731	10302	24403	103940	164172	168072	58083	21055177

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

Source: Bureau of Economic Analysis (1989)

TABLE C4

REAL GROWTH IN EMPLOYEE EARNINGS BY INDUSTRY 1970-1980

	Caroline	Glouctr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptsln	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	0.02	-0.15	-0.28	-1.27	-0.92	-0.47	-1.82	-0.58	-0.97	1.44	-0.54	-0.53	-0.62
NONFARM	0.34	0.70	1.47	-0.11	0.30	0.41	0.52	0.18	0.43	0.72	0.12	0.54	0.31
PRIVATE	0.48	0.71	1.61	-0.12	0.27	0.47	0.48	0.13	0.40	0.81	0.65	0.66	0.41
AG.SERV.,FOR.,FISH.	0.01	0.74	1.76	-0.53	-0.50	0.59	-0.25	-0.53	-0.04	-0.19	0.37	0.33	0.38
MINING	0.83	0.87	1.07	0.15	-0.38	0.42	(NA)	0.76	3.44	1.56	3.98	1.00	1.24
CONSTRUCTION	1.47	1.18	2.03	-0.45	0.76	-0.09	1.78	-0.06	1.69	0.35	0.83	0.79	0.34
MANUFACTURING	0.49	0.13	1.27	0.16	0.44	0.02	0.03	0.18	-0.24	1.57	0.34	0.43	0.26
TRANSPRT & PUBLIC UTIL	0.85	0.34	1.76	-0.44	-0.08	(NA)	-0.37	0.96	0.63	0.24	0.65	0.63	0.34
WHOLESALE TRADE	1.99	0.96	3.72	0.14	-0.67	2.10	0.35	1.28	0.46	1.74	0.16	1.54	0.68
RETAIL TRADE	-0.10	0.96	1.05	-0.16	-0.25	0.21	1.26	0.02	0.53	0.61	0.71	0.55	0.20
FIN, INS, & REAL ESTATE	-0.45	0.30	0.94	-1.30	1.00	0.29	-0.48	-0.41	0.60	1.02	0.30	0.37	0.39
SERVICES	1.05	0.77	1.24	-0.11	0.29	(NA)	0.46	0.19	0.69	0.73	0.96	0.74	0.68
GOVERNMENT & GOVT ENTR	0.06	0.69	0.65	-0.08	0.62	0.08	0.67	0.51	0.60	0.48	-0.16	0.21	0.09

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

TABLE C5

REAL GROWTH IN EMPLOYEE EARNINGS BY INDUSTRY 1980-1990

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Loulsa	New Kent	Orange	Sptsln	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	0.94	4.69	0.93	-11.18	32.79	2.31	-4.04	2.67	26.51	1.13	4.52	2.86	2.70
NONFARM	1.06	1.41	1.68	0.82	1.00	1.72	1.52	1.17	1.77	1.50	1.54	1.54	1.31
PRIVATE	0.99	1.37	1.70	0.72	0.96	1.79	1.59	1.15	1.79	1.52	1.98	1.59	1.39
AG.SERV.,FOR.,FISH.	0.82	-0.11	3.41	(NA)	0.51	3.84	0.98	2.30	1.89	3.69	2.04	1.71	1.97
MINING	-0.02	-0.20	0.42	1.82	1.12	0.39	(NA)	-0.64	-0.11	0.01	-0.13	0.07	-0.03
CONSTRUCTION	1.53	1.81	2.00	1.19	1.88	1.68	2.25	2.21	2.60	1.11	1.94	1.90	1.37
MANUFACTURING	0.33	0.65	0.88	0.59	0.70	1.64	0.79	0.89	1.22	0.98	1.46	0.96	0.78
TRANSPRT & PUBLIC UTIL	1.06	0.84	3.19	0.86	1.82	(NA)	1.21	0.82	0.74	1.10	2.00	1.38	1.16
WHOLESALE TRADE	1.07	0.75	1.85	0.12	2.13	0.36	2.24	0.92	1.60	1.77	2.22	1.65	1.21
RETAIL TRADE	0.95	0.97	0.95	0.79	1.80	0.63	0.02	1.18	1.68	2.12	1.09	1.39	1.21
FIN, INS, & REAL ESTATE	0.79	1.26	2.10	(NA)	0.78	5.59	2.31	0.04	1.91	3.05	1.05	2.25	1.77
SERVICES	2.04	2.89	2.50	0.61	1.30	(NA)	3.47	1.56	2.30	1.71	3.51	2.16	2.32
GOVERNMENT & GOVT ENTR	1.24	1.54	1.45	1.19	1.40	1.18	1.31	1.29	1.65	1.43	1.10	1.35	1.09

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

APPENDIX D

TABLE D1

PER CAPITA WAGES BY INDUSTRY 1970

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spts/vn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	1278	1037	3206	1474	1249	2726	1628	2760	3461	1207	3387	2348	2488
NONFARM	5583	5421	5627	4352	7030	6007	4445	5335	5677	6333	7473	6019	6641
PRIVATE	5298	5287	5841	4381	7326	6210	4406	5333	5791	6493	6799	5951	6394
AG.SERV.,FOR.,FISH.	2063	3989	2405	5917	5462	3000	3636	3455	5148	7159	4717	4126	4542
MINING	9500	(NA)	8827	(NA)	9375	12750	(NA)	11200	(NA)	5200	5385	7262	10402
CONSTRUCTION	8007	6673	8087	8990	4713	10927	6806	7597	6316	16971	7489	8951	7719
MANUFACTURING	4010	4278	5619	3830	10018	4020	5321	5700	6556	8249	11481	6372	7155
TRANSPRT & PUBLIC UTIL	7029	11197	8618	17409	5366	(NA)	5538	8271	7115	7372	9690	7874	8765
WHOLESALE TRADE	8077	5191	8184	7769	7397	6527	8917	8492	7258	8300	11555	7740	8459
RETAIL TRADE	5009	4384	4833	3855	4786	4893	4153	4773	5056	4700	5061	4849	4898
FIN, INS, & REAL ESTATE	8671	8961	4632	5882	5895	3045	5000	10299	5661	6916	5365	6252	6061
SERVICES	5961	4283	5004	3012	4169	(NA)	2994	3162	4925	5354	5315	4776	5241
GOVERNMENT & GOVT ENTR	6273	5857	4644	4239	4503	5068	4588	5351	5039	5926	7875	6220	7229

REAL PER CAPITA WAGES BY INDUSTRY 1970 (In 1990 dollars)

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Spts/vn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	4304	3493	10798	4965	4208	9180	5482	9296	11657	4064	11406	7909	8379
NONFARM	18805	18260	18951	14659	23678	20232	14972	17969	19120	21331	25170	20274	22368
PRIVATE	17844	17808	19674	14756	24674	20915	14838	17963	19506	21871	22901	20045	21536
AG.SERV.,FOR.,FISH.	6950	13435	8100	19928	18395	10104	12248	11635	17338	24113	15886	13897	15297
MINING	31997	(NA)	29729	(NA)	31576	42944	(NA)	37723	(NA)	17514	18136	24458	35036
CONSTRUCTION	26967	22476	27239	30278	15875	36805	22925	25588	21274	57162	25225	30147	25998
MANUFACTURING	13506	14408	18926	12901	33743	13538	17921	19200	22081	27785	38671	21462	24099
TRANSPRT & PUBLIC UTIL	23675	37712	29025	58636	18074	(NA)	18651	27858	23964	24831	32638	26520	29521
WHOLESALE TRADE	27204	17486	27564	26168	24915	21983	30033	28602	24447	27956	38918	26068	28493
RETAIL TRADE	16871	14767	16279	12984	16118	16481	13988	16075	17028	15832	17045	16331	16498
FIN, INS, & REAL ESTATE	29204	30181	15602	19813	19854	10257	16841	34688	19067	23293	18070	21056	20415
SERVICES	20076	14426	16853	10145	14043	(NA)	10085	10649	16588	18034	17903	16087	17651
GOVERNMENT & GOVT ENTR	21129	19728	15641	14279	15168	17071	15452	18023	16972	19960	26525	20951	24348

*Williamsburg and James City figures are reported jointly.
(NA) Data not available

TABLE D2

PER CAPITA WAGES BY INDUSTRY 1980

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptshvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	3675	2210	4714	-1238	309	3065	-3956	2793	193	11216	3480	2657	2268
NONFARM	12116	10096	13049	11275	16110	13942	9514	10645	11203	12073	13320	12174	14005
PRIVATE	12270	9930	13421	12117	17203	14859	9268	10742	11226	11939	12314	12217	13697
AG.SERV.,FOR.,FISH.	5600	7281	8464	5462	6250	5830	2723	7000	5398	9345	8216	7246	8403
MINING	20182	54500	23902	(NA)	(NA)	26457	(NA)	(NA)	25519	(NA)	(NA)	19220	31557
CONSTRUCTION	15036	15733	17228	16650	18714	25854	14988	13938	15057	18934	16780	17287	16153
MANUFACTURING	12825	8612	16594	11252	25136	9804	12421	11712	14684	26054	24191	17055	16755
TRANSPRT & PUBLIC UTIL	19684	21567	19537	15167	9443	(NA)	10421	18174	18323	16559	20368	18484	20696
WHOLESALE TRADE	14511	10567	17714	14353	10625	14275	14951	12239	14358	20748	15722	15986	18593
RETAIL TRADE	9854	8144	9802	12143	7724	9077	9593	8707	8823	8042	8468	8815	8973
FIN, INS, & REAL ESTATE	10266	7104	6912	(NA)	11419	7702	2979	6644	8155	9955	5072	7083	10341
SERVICES	7827	8874	9608	11028	8420	(NA)	6361	8223	9971	8834	10671	9226	11872
GOVERNMENT & GOVT ENTR	11698	10622	10419	8864	9501	9423	10351	10101	11071	12553	14515	12010	14910

REAL PER CAPITA WAGES BY INDUSTRY 1980 (In 1990 dollars)

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptshvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	5829	3506	7477	-1964	490	4861	-6274	4429	307	17788	5520	4213	3597
NONFARM	19217	16013	20696	17882	25552	22113	15090	16884	17768	19149	21126	19308	22212
PRIVATE	19461	15750	21286	19218	27285	23568	14699	17038	17806	18935	19531	19376	21725
AG.SERV.,FOR.,FISH.	8882	11548	13425	8662	9913	9246	4319	11102	8561	14821	13032	11493	13328
MINING	32009	86439	37909	(NA)	(NA)	41962	(NA)	(NA)	40473	(NA)	(NA)	30484	50050
CONSTRUCTION	23847	24954	27325	26408	29682	41005	23772	22106	23881	30030	26614	27417	25620
MANUFACTURING	20341	13659	26318	17846	39866	15550	19700	18576	23289	41323	38369	27050	26574
TRANSPRT & PUBLIC UTIL	31220	34206	30986	24055	14977	(NA)	16528	28825	29061	26263	32305	29317	32825
WHOLESALE TRADE	23015	16760	28096	22764	16852	22641	23713	19412	22773	32908	24936	25355	29490
RETAIL TRADE	15629	12917	15546	19259	12250	14397	15215	13810	13994	12755	13431	13981	14231
FIN, INS, & REAL ESTATE	16282	11267	10962	(NA)	18111	12216	4725	10537	12934	15789	8044	11234	16401
SERVICES	12414	14074	15238	17491	13354	(NA)	10088	13042	15814	14011	16925	14632	18829
GOVERNMENT & GOVT ENTR	18553	16847	16526	14058	15069	14946	16417	16021	17559	19910	23021	19049	23648

*Williamsburg and James City figures are reported jointly.
(NA) Data not available

TABLE D3

REAL GROWTH IN PER CAPITA WAGES BY INDUSTRY 1970-1980

	Caroline	Gloucstr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptstvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	0.35	0.00	-0.31	-1.40	-0.88	-0.47	-2.14	-0.52	-0.97	3.38	-0.52	-0.47	-0.57
NONFARM	0.02	-0.12	0.09	0.22	0.08	0.09	0.01	-0.06	-0.07	-0.10	-0.16	-0.05	-0.01
PRIVATE	0.09	-0.12	0.08	0.30	0.11	0.13	-0.01	-0.05	-0.09	-0.13	-0.15	-0.03	0.01
AG.SERV.,FOR.,FISH.	0.28	-0.14	0.66	-0.57	-0.46	-0.08	-0.65	-0.05	-0.51	-0.39	-0.18	-0.17	-0.13
MINING	0.00	(NA)	0.28	(NA)	(NA)	-0.02	(NA)	(NA)	(NA)	(NA)	(NA)	0.25	0.43
CONSTRUCTION	-0.12	0.11	0.00	-0.13	0.87	0.11	0.04	-0.14	0.12	-0.47	0.06	-0.09	-0.01
MANUFACTURING	0.51	-0.05	0.39	0.38	0.18	0.15	0.10	-0.03	0.05	0.49	-0.01	0.26	0.10
TRANSPRT & PUBLIC UTIL	0.32	-0.09	0.07	-0.59	-0.17	(NA)	-0.11	0.03	0.21	0.06	-0.01	0.11	0.11
WHOLESALE TRADE	-0.15	-0.04	0.02	-0.13	-0.32	0.03	-0.21	-0.32	-0.07	0.18	-0.36	-0.03	0.03
RETAIL TRADE	-0.07	-0.13	-0.05	0.48	-0.24	-0.13	0.09	-0.14	-0.18	-0.19	-0.21	-0.14	-0.14
FIN, INS, & REAL ESTATE	-0.44	-0.63	-0.30	(NA)	-0.09	0.19	-0.72	-0.70	-0.32	-0.32	-0.55	-0.47	-0.20
SERVICES	-0.38	-0.02	-0.10	0.72	-0.05	(NA)	0.00	0.22	-0.05	-0.22	-0.05	-0.09	0.07
GOVERNMENT & GOVT ENTR	-0.12	-0.15	0.06	-0.02	-0.01	-0.12	0.06	-0.11	0.03	-0.00	-0.13	-0.09	-0.03

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

TABLE D4

REAL GROWTH IN PER CAPITA WAGES BY INDUSTRY 1980-1990

	Caroline	Gloustr	Hanover	King&Qn	King Wm	Louisa	New Kent	Orange	Sptslvn	Wmsburg/ Jms Cty	York	Region Average	Virginia
FARM	0.75	4.02	0.70	-9.81	30.41	1.78	-3.67	2.14	21.84	0.79	4.57	2.37	2.19
NONFARM	0.05	-0.01	0.02	-0.00	-0.04	0.10	0.00	0.04	0.07	0.01	0.01	0.03	0.07
PRIVATE	0.02	-0.05	0.00	-0.06	-0.05	0.07	-0.04	0.03	0.05	-0.03	-0.02	0.00	0.06
AG.SERV.,FOR.,FISH.	0.01	-0.08	0.07	-1.00	-0.53	0.43	0.28	0.28	0.08	-0.19	0.37	0.16	0.09
MINING	-0.03	-0.57	0.03	(NA)	(NA)	0.02	(NA)	(NA)	-0.53	(NA)	(NA)	-0.09	-0.09
CONSTRUCTION	0.01	-0.25	-0.05	-0.38	-0.22	-0.30	-0.13	0.00	-0.01	-0.20	0.01	-0.10	-0.02
MANUFACTURING	0.15	0.07	0.17	0.10	0.05	0.24	0.01	0.13	0.14	0.05	0.13	0.12	0.08
TRANSPRT & PUBLIC UTIL	0.27	-0.11	0.01	0.47	0.40	(NA)	-0.09	0.31	-0.02	-0.17	0.09	0.02	0.03
WHOLESALE TRADE	0.04	0.05	0.05	-0.08	0.33	-0.28	0.12	0.01	-0.06	-0.17	-0.03	0.02	0.11
RETAIL TRADE	-0.11	-0.18	-0.10	-0.12	-0.09	-0.14	-0.32	-0.15	-0.01	-0.12	-0.21	-0.11	-0.05
FIN, INS, & REAL ESTATE	-0.21	-0.17	-0.03	(NA)	0.06	0.41	0.04	-0.33	0.17	0.10	-0.11	0.18	0.14
SERVICES	0.12	0.14	0.04	-0.03	0.24	(NA)	0.19	0.09	0.19	0.19	0.02	0.14	0.23
GOVERNMENT & GOVT ENTR	0.15	0.11	0.23	0.21	0.09	0.17	0.22	0.12	0.21	0.18	0.11	0.16	0.12

*Williamsburg and James City figures are reported jointly.

(NA) Data not available

APPENDIX E

TABLE E1

GOVERNMENT REVENUES AND EXPENDITURES 1981

	Caroline	Gloucester	Hanover	Jms City	King&Qn	King Wm	Louisa	New Kent	Orange	Sptsylvn	York	Wmaburg	Region Average	Virginia Average
Local Revenue	2928224	6264102	13267447	11668055	1121528	2221411	5283642	2441400	4153525	9199293	11704030	6197995	6370888	18820536
State Revenue	4777154	4281741	10482602	4287021	1245554	1751626	3345439	2161003	4132481	9404461	10484049	1602535	4827972	9506596
Federal Revenue	1277556	1384251	3510513	2020429	455474	590348	1176803	435681	1189355	1526812	4894526	372311	1569505	3263090
Total	8982934	11930094	27260562	17975505	2822554	4563385	9805884	5038084	9475361	20130566	27062605	8172841	12788365	29590222
*Capital Projects	18007	0	1989657	992905	26371	28438	565478	0	0	7053370	1906090	890232	1122546	1532778
*Debt Service	630327	0	0	17417	0	0	0	0	0	0	87183	0	61244	133131
*Enterprise Act's	35377	231870	2760568	310969	0	0	0	15923	0	1909497	911178	1348615	627000	3599637
Total Revenues	9666645	12161964	32010787	19296796	2848925	4591823	10371362	5054007	9475361	29093433	29967066	10411688	14579154	34858088
Gen. Govt. Admin.	292880	808984	1124767	1291080	130478	261203	288733	268530	350438	1143809	1088783	421304	622582	1388662
Judicial Admin.	144418	107325	362907	334829	84408	109652	162978	133155	97341	248692	283572	129890	183284	352815
Public Safety	608039	550562	2215386	1798464	146674	522742	649657	318142	521562	1117687	2247548	1418901	1009814	3352086
Public Works	246553	473880	1134770	817928	83156	216382	233631	285862	193297	522173	834969	1016673	504939	2051701
Health and Welfare	466377	621004	1473724	1106007	264847	209413	693650	238483	581017	964728	1833051	540159	747705	2060092
Education	6744266	7187592	18481959	8438387	2130690	2828672	6665492	3799184	7017446	13515588	17627419	2329857	6083879	18162444
Parks, Rec., Cult.	35826	162713	338946	233621	0	32150	55102	500	59190	376308	579634	408539	180211	971236
Community Devel.	39964	96473	356975	1003005	12659	21921	169337	42689	35337	282724	382636	105848	212447	614263
Nondepartmental	24719	0	0	0	0	0	0	0	0	0	0	29917	4553	105231
Total	8603042	10008533	25489434	15023319	2852910	4202135	8918580	5086545	8835628	18171707	24877610	6400888	11539194	27048330
*Capital Projects	13419	640271	2269512	1999861	0	133790	532530	0	0	8286990	2215029	2762220	1571135	2274814
Debt Service	432207	681123	1162882	667551	48168	161710	373901	199646	494525	2183019	1701767	136588	685091	1984048
Enterprise Act's	34608	167672	3030916	341113	0	0	0	10657	0	2417348	883883	1387653	689487	3688465
Total Expenditures	9083276	11477599	31952744	18031844	2899078	4497635	9825011	5296848	9330153	31059062	29678289	10687347	14484907	34975657

*less transfers

Source: Comparative Report of Local Government Revenues and Expenditures (1982)

TABLE E2

REAL GOVERNMENT REVENUES AND EXPENDITURES 1981 (in 1990 dollars)

	Caroline	Gloucester	Hanover	Jms City	King&On	King Wm	Louisa	New Kent	Orange	Sptaytn	York	Wmaburg	Region Average	Virginia Average
Local Revenue	4207858	9001515	19065321	16766995	1611833	3192168	7582594	3508292	5968615	13219384	16818691	8906519	9154965	24171110
State Revenue	6864770	6152862	15063499	6160449	1789661	2517087	4807396	3105361	5938375	13514210	15036838	2302843	6937798	13660978
Federal Revenue	1835848	1989169	5044607	2903358	654516	848330	1681066	626074	1709103	2194029	7033434	535011	2255379	4689061
Total	12908476	17143545	39173428	25830801	4056010	6557584	14091055	7239727	13616094	28927623	38888963	11744373	18348140	42521149
*Capital Projects	25876	0	2859137	1426804	37895	40865	812592	0	0	10135683	2739051	1279263	1813098	2202602
*Debt Service	905780	0	0	25028	0	0	0	0	0	0	125282	0	89008	191310
*Enterprise Act's	50837	333197	3966936	446862	0	0	0	22881	0	2743947	1309363	1937960	900899	5173109
Total Revenues	13890969	17476742	45999501	27729496	4093905	6598450	14903647	7262608	13616094	41807263	43062659	14961596	20650244	50086189
Gen. Govt. Admin.	420869	1162510	1616290	1855282	187497	375349	414909	385878	503579	1643654	1564581	605414	894651	1965508
Judicial Admin.	207529	154226	521497	481149	121291	157570	234198	191344	139879	357370	407493	186652	283350	506707
Public Safety	873752	791158	3183510	2584393	210771	751180	933557	457170	749485	1606118	3229724	2038961	1450815	4818948
Public Works	354297	680966	1630664	1175360	119495	310941	335728	410784	277768	750363	1199850	1460959	725598	2948294
Health and Welfare	670184	892383	2117741	1589332	380585	300926	996775	342700	806181	1386314	2634094	776208	1074452	2945983
Education	9691510	10328570	26558575	12125962	3061802	4084802	9578312	5459427	10084070	19421897	25330801	3348005	11587794	23225431
Parks, Rec., Cult.	51482	233819	487065	335713	0	46200	79182	719	85056	540755	832934	587071	273333	1395667
Community Devel.	57428	138632	512973	1441318	18191	31500	243337	61344	50779	406274	549848	151813	305287	882898
Nondepartmental	35521	0	0	0	0	0	0	0	0	0	0	42991	8543	151218
Total	12362571	14382262	36628317	21588509	4099632	6038466	12815999	7309365	12696797	26112743	35749128	9198073	18581822	38668451
*Capital Projects	19283	920069	3261289	2873800	0	192256	765248	0	0	11908405	3182997	3969310	2257721	3288908
Debt Service	621081	950034	1671061	959271	66343	232377	537296	286891	710632	3136998	2445439	198277	984475	2822336
Enterprise Act's	49732	240945	4355426	490179	0	0	0	15314	0	3473726	1270140	1994057	890793	5300324
Total Expenditures	13052668	16493310	45916093	25911760	4165975	6463101	14118541	7611571	13407430	44631872	42647701	15357718	20814812	50260019
*loss transfers														

TABLE E3

GOVERNMENT REVENUES AND EXPENDITURES 1990

	Caroline	Gloucester	Hanover	Jms City	King&Qn	King Wm	Louisa	New Kent	Orange	Sptsylvn	York	Wmberg	Region Average	Virginia Average
Local Revenue	8736566	17691207	44805982	34923106	3024986	5354535	16356804	7013175	11166705	38517187	29773288	13580055	18245300	35047317
State Revenue	10309466	14626874	26955251	11841951	3118468	4614307	6596480	5245929	10084903	28293682	24585978	3917505	12599234	17811436
Federal Revenue	1540660	1754116	2039077	1693556	598994	608322	1381377	528356	1467555	1938045	7898265	388781	1819757	2897843
Total	20586692	34072197	73800310	48458613	6742448	10577164	24334661	12787460	22719163	69748824	62257529	17886321	33864290	55756598
*Capital Projects	1933787	1317016	20901715	6600000	13378	2000000	471044	77860	850432	7362769	4354244	0	3823520	5031277
*Debt Service	16918	0	0	184528	0	0	0	5863	0	0	52792	0	21675	839446
*Enterprise Act's	171379	1273193	6870830	279075	0	0	0	103069	0	8193845	2423666	2323794	1803238	8183221
Total Revenues	22708774	36662406	101572855	55522214	6755826	12577164	24805705	12974252	23569595	85305538	69088231	20210115	39312723	67810540
Gen. Govt. Admin.	995578	1775221	3328652	2503335	445764	537914	806787	648594	545286	2487498	3065027	753714	1491114	2604797
Judicial Admin.	354064	394980	716439	702551	134009	209822	325758	327440	237928	900878	629737	117122	420894	737888
Public Safety	1670047	2221076	6374702	6724346	438442	646209	1559407	822074	1409063	3766718	6279692	3037075	2912404	6944842
Public Works	539086	1330938	2023377	1835729	134738	444945	519819	504217	595877	1855759	3547441	1870682	1268882	3843521
Health and Welfare	1302070	1999435	4310032	3820951	739191	757097	1112416	518465	2009662	3482702	5004747	1151207	2183998	4468461
Education	14691468	21812252	44540886	26327544	4175321	6860653	15107406	8524278	16508287	47596493	38640226	7218721	21000295	29318241
Parks, Rec., Cult.	202120	353747	1252821	1203041	0	161518	286553	21786	199818	1126534	1174819	1104275	590586	1832918
Community Devel.	249846	450318	1515565	1940222	200099	38895	106359	192677	171660	788271	1304782	1137174	874856	1158189
Nondepartmental	12844	0	0	0	0	0	0	54222	0	0	0	42050	9083	34533
Total	20017123	30337967	64062474	45057719	6287564	9657053	19824505	11813753	21677579	62004851	59846471	16432000	30549422	50837171
*Capital Projects	46063	7675554	23760222	4380902	19957	969187	3394960	1011480	5526874	12618121	5971848	2908994	5690347	6536831
*Debt Service	298209	1953085	4229087	2051671	93673	1647970	1517217	900803	464755	6606802	2506948	0	1855852	4156244
Enterprise Act's	255492	1249180	7138204	337852	0	0	0	104263	0	5951672	1988126	1897219	1576834	5536406
Total Expenditures	20616887	41215786	99189987	51828144	6381194	12274210	24736682	13630299	27669208	87181446	70113393	21238213	39672954	67166852

*less transfers

Source: Comparative Report of Local Government Revenues and Expenditures (1991)

TABLE E5

REAL GROWTH IN GOVERNMENT REVENUES AND EXPENDITURES 1981-1990

	Caroline	Gloucester	Hanover	Jms City	King&Qn	King Wm	Louisa	New Kent	Orange	Spsyln	York	Wmzburg	Region Average	Virginia Average
Local Revenue	1.08	0.97	1.35	1.08	0.88	0.68	1.15	1.00	0.87	1.81	0.77	0.52	1.10	0.45
State Revenue	0.50	1.38	0.79	0.92	0.74	0.83	0.37	0.69	0.70	1.17	0.64	0.70	0.82	0.30
Federal Revenue	-0.16	-0.12	-0.60	-0.42	-0.06	-0.28	-0.18	-0.16	-0.14	-0.12	0.12	-0.27	-0.19	-0.38
Total	0.59	0.99	0.88	0.88	0.66	0.61	0.73	0.77	0.67	1.41	0.60	0.52	0.83	0.31
*Capital Projects	73.73	0.00	6.31	3.63	-0.65	47.94	-0.42	0.00	0.00	-0.27	0.59	-1.00	1.37	1.28
*Debt Service	-0.98	0.00	0.00	6.37	0.00	0.00	0.00	0.00	0.00	0.00	-0.58	0.00	-0.75	3.39
*Enterprise Act's	2.37	2.82	0.73	-0.38	0.00	0.00	0.00	3.50	0.00	1.99	0.85	0.20	1.00	0.20
Total Revenues	0.63	1.10	1.21	1.00	0.65	0.91	0.68	0.79	0.73	1.04	0.60	0.35	0.88	0.35
Gen. Govt. Admin.	1.37	0.53	1.06	0.35	1.38	0.43	0.94	0.68	0.08	0.51	0.98	0.24	0.67	0.31
Judicial Admin.	0.71	1.58	0.37	0.46	0.10	0.33	0.39	0.71	0.70	1.52	0.55	-0.37	0.60	0.48
Public Safety	0.91	1.81	1.00	1.60	1.08	-0.14	0.67	0.80	0.88	1.35	0.94	0.49	1.01	0.44
Public Works	0.52	0.95	0.24	0.56	0.13	0.43	0.55	0.23	1.15	1.47	1.98	0.28	0.75	0.30
Health and Welfare	0.94	1.24	1.04	1.40	0.94	1.52	0.12	0.51	1.49	1.51	0.90	0.48	1.03	0.52
Education	0.52	1.11	0.68	1.17	0.36	0.69	0.58	0.58	0.64	1.45	0.53	1.18	0.81	0.28
Parks, Rec., Cult.	2.93	0.51	1.57	2.58	0.00	2.50	2.62	29.32	1.35	1.08	0.41	0.88	1.18	0.31
Community Devel.	3.35	2.25	1.95	0.35	10.00	0.23	-0.58	2.14	2.38	0.94	1.37	6.49	1.21	0.31
Nondepartmental	-0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.02	0.39	-0.77
Total	0.62	1.11	0.75	1.09	0.53	0.60	0.55	0.59	0.71	1.37	0.67	0.79	0.84	0.31
*Capital Projects	1.39	7.34	6.29	0.52	0.00	4.04	3.44	0.00	0.00	0.06	0.88	-0.27	1.52	1.00
Debt Service	-0.52	1.08	1.53	1.14	0.41	6.09	1.82	2.14	-0.35	1.11	0.03	-1.00	0.89	0.47
Enterprise Act's	4.14	4.18	0.64	-0.31	0.00	0.00	0.00	5.81	0.00	0.71	0.57	-0.05	0.59	0.04
Total Expenditures	0.58	1.50	1.16	1.00	0.53	0.90	0.75	0.79	1.06	0.85	0.64	0.38	0.91	0.34
*less transfers														

TABLE E6

GOVERNMENT REVENUES AND EXPENDITURES PER CAPITA 1981

	Caroline 17904	Gloucester 20107	Hanover 50398	Jma City 22763	King&On 5968	King Wm 9334	Louisa 17825	New Kent 8781	Orange 18063	SptayVn 34435	York 35463	Wmaburg 9870	Region Average 28782	Virginia Average 35017
Population														
Local Revenue	164	312	263	513	188	238	298	278	230	287	330	628	238	480
State Revenue	287	213	208	188	209	188	188	246	229	273	295	182	180	271
Federal Revenue	71	69	70	89	76	63	66	50	66	44	138	38	59	83
Total	502	593	541	790	473	489	550	574	525	585	763	828	477	845
*Capital Projects	1	0	39	44	4	3	32	0	0	205	54	90	42	44
*Debt Service	35	0	0	1	0	0	0	0	0	0	2	0	2	4
*Enterprise Act's	2	12	55	14	0	0	0	2	0	55	26	137	23	103
Total Revenues	540	605	635	848	477	492	582	576	525	845	845	1055	544	995
Gen. Govt. Admin.	16	40	22	57	22	28	16	31	19	33	31	43	23	40
Judicial Admin.	8	5	7	15	14	12	9	15	5	7	8	13	7	10
Public Safety	34	27	44	79	25	56	36	36	29	32	63	144	38	98
Public Works	14	24	23	36	14	23	13	33	11	15	24	103	19	59
Health and Welfare	26	31	29	49	44	22	39	27	31	28	52	55	28	59
Education	377	357	367	371	357	303	374	433	388	392	497	236	301	462
Parks, Rec., Cult.	2	8	7	10	0	3	3	0	3	11	18	41	7	28
Community Devel.	2	5	7	44	2	2	9	5	2	8	11	11	8	18
Nondepartmental	1	0	0	0	0	0	0	0	0	0	0	3	0	3
Total	481	498	506	660	478	450	500	579	489	528	702	649	431	772
*Capital Projects	1	32	45	88	0	14	30	0	0	241	62	280	59	65
Debt Service	24	33	23	29	8	17	21	23	27	63	48	14	26	58
Enterprise Act's	2	8	60	15	0	0	0	1	0	70	25	141	28	105
Total Expenditures	507	571	634	792	486	462	551	603	517	902	837	1083	541	999

*less transfers

TABLE E7

REAL GOVERNMENT REVENUES AND EXPENDITURES PER CAPITA 1981 (in 1990 dollars)

	Caroline	Gloucester	Hanover	Jms City	King&Qn	King Wm	Louisa	New Kent	Orange	Sptaylvn	York	Wmaburg	Region Average	Virginia Average
Population	17904	20107	50398	22763	5968	9334	17825	8781	18063	34435	35463	9870	26782	35017
Local Revenue	235	448	378	737	270	342	426	400	330	384	474	902	342	680
State Revenue	383	306	299	271	300	270	270	354	329	392	424	233	259	390
Federal Revenue	103	99	100	128	110	91	95	71	95	64	198	54	84	134
Total	721	853	777	1135	680	703	791	824	754	840	1097	1180	685	1214
*Capital Projects	1	0	57	63	8	4	46	0	0	294	77	130	60	63
*Debt Service	51	0	0	1	0	0	0	0	0	0	4	0	3	5
*Enterprise Act's	3	17	79	20	0	0	0	3	0	80	37	198	34	148
Total Revenues	776	869	913	1218	688	707	836	827	754	1214	1214	1516	782	1430
Gen. Govt. Admin.	24	58	32	82	31	40	23	44	28	48	44	61	33	57
Judicial Admin.	12	8	10	21	20	17	13	22	8	10	11	19	10	14
Public Safety	49	39	63	114	35	80	52	52	41	47	91	207	54	138
Public Works	20	34	32	52	20	33	19	47	15	22	34	148	27	84
Health and Welfare	37	44	42	70	64	32	56	39	45	40	74	79	40	84
Education	541	514	527	533	513	435	537	622	558	564	714	339	433	663
Parks, Rec., Cult.	3	12	10	15	0	5	4	0	5	16	23	59	10	40
Community Devel.	3	7	10	63	3	3	14	7	3	12	16	15	11	25
Nondepartmental	2	0	0	0	0	0	0	0	0	0	0	4	0	4
Total	690	715	727	948	687	647	719	832	703	758	1008	832	619	1110
*Capital Projects	1	46	65	126	0	21	43	0	0	348	90	402	84	93
Debt Service	35	47	33	42	11	25	30	33	39	91	69	20	37	81
Enterprise Act's	3	12	86	22	0	0	0	2	0	101	36	202	37	151
Total Expenditures	729	820	911	1138	698	692	792	867	742	1296	1203	1556	777	1435

*less transfers

TABLE E8

GOVERNMENT REVENUES AND EXPENDITURES PER CAPITA 1990

	Caroline	Gloucester	Hanover	Jme City	King & On	King Wm	Louisa	New Kent	Orange	Sptayln	York	Wmaburg	Region Average	Virginia Average
Population	18217	30131	63306	34859	6289	10913	20325	10445	21421	57403	42422	11530	35192	41431
Local Revenue	455	587	708	1002	481	491	805	671	521	671	702	1178	547	848
State Revenue	536	485	428	340	496	423	325	502	471	510	580	340	358	430
Federal Revenue	80	58	32	49	95	56	68	51	69	34	188	34	52	70
Total	1071	1131	1168	1390	1072	969	1197	1224	1061	1215	1468	1551	957	1348
*Capital Projects	101	44	330	189	2	183	23	7	40	128	103	0	109	121
*Debt Service	1	0	0	5	0	0	0	1	0	0	1	0	1	20
*Enterprise Act's	9	42	109	8	0	0	0	10	0	143	57	202	51	149
Total Revenues	1182	1217	1604	1593	1074	1152	1220	1242	1100	1486	1629	1753	1117	1637
Gen. Govt. Admin.	52	59	53	72	71	49	40	62	25	43	72	65	42	63
Judicial Admin.	18	13	11	20	21	19	16	31	11	18	15	10	12	18
Public Safety	87	74	101	193	70	59	77	79	66	66	148	263	83	168
Public Works	28	44	32	53	21	41	26	48	28	32	84	162	36	93
Health and Welfare	68	66	68	110	118	69	55	50	94	61	118	100	62	108
Education	765	724	704	755	664	629	743	818	771	829	911	628	597	708
Parks, Rec., Cult.	11	12	20	35	0	15	14	2	9	20	28	98	17	44
Community Devel.	13	15	24	56	32	4	5	18	8	14	31	99	19	28
Nondepartmental	1	0	0	0	0	0	0	5	0	0	0	4	0	1
Total	1042	1007	1012	1293	997	885	975	1112	1012	1080	1406	1425	868	1229
*Capital Projects	2	255	375	126	3	89	167	97	258	220	141	252	162	158
Debt Service	16	65	67	59	15	151	75	86	22	115	59	0	53	100
Enterprise Act's	13	41	113	10	0	0	0	10	0	104	47	185	45	134
Total Expenditures	1073	1368	1567	1487	1015	1125	1217	1305	1282	1519	1653	1842	1127	1621

*less transfers

TABLE E9

GROWTH IN GOVERNMENT REVENUES AND EXPENDITURES PER CAPITA 1981-1990

	Caroline	Gloucester	Hanover	Jms City	King&On	King Wm	Louisa	New Kent	Orange	Spsayhn	York	Wmsburg	Region Average	Virginia Average
Local Revenue	1.78	0.88	1.69	0.95	1.56	1.08	1.71	1.41	1.27	1.51	1.13	0.88	1.30	0.76
State Revenue	1.01	1.28	1.05	0.80	1.38	1.25	0.73	1.04	1.08	0.87	0.98	1.09	0.89	0.58
Federal Revenue	0.12	-0.15	-0.54	-0.45	0.25	-0.12	0.03	0.02	0.04	-0.24	0.35	-0.11	-0.12	-0.25
Total	1.14	0.91	1.16	0.76	1.27	0.98	1.18	1.13	1.02	1.08	0.92	0.87	1.01	0.50
*Capital Projects	99.05	0.00	7.36	3.34	-0.52	59.15	-0.27	0.00	0.00	-0.37	0.91	-1.00	1.59	1.77
*Debt Service	-0.97	0.00	0.00	5.92	0.00	0.00	0.00	0.00	0.00	0.00	-0.49	0.00	-0.73	4.33
*Enterprise Act's	3.51	2.66	0.98	-0.41	0.00	0.00	0.00	4.44	0.00	1.57	1.22	0.48	1.19	0.45
Total Revenues	1.19	1.01	1.53	0.88	1.25	1.34	1.10	1.16	1.10	0.76	0.93	0.66	1.05	0.84
Gen. Govt. Admin.	2.17	0.46	1.36	0.27	2.24	0.76	1.45	1.03	0.31	0.30	1.35	0.53	0.82	0.50
Judicial Admin.	1.28	1.46	0.57	0.37	0.51	0.64	0.75	1.07	1.08	1.17	0.86	-0.23	0.75	0.77
Public Safety	1.56	1.69	1.29	1.44	1.84	0.06	1.11	1.17	1.28	1.02	1.34	0.83	1.20	0.75
Public Works	1.04	0.87	0.42	0.47	0.54	0.76	0.95	0.48	1.60	1.13	2.55	0.58	0.91	0.58
Health and Welfare	1.60	1.15	1.33	1.28	1.65	2.09	0.41	0.83	2.02	1.17	1.28	0.82	1.22	0.84
Education	1.03	1.03	0.92	1.04	0.86	1.07	0.99	0.89	0.98	1.11	0.83	1.65	0.98	0.53
Parks, Rec., Cult.	4.26	0.45	1.94	2.38	0.00	3.30	3.56	35.63	1.85	0.80	0.69	1.31	1.38	0.60
Community Devel.	4.82	2.11	2.38	0.28	14.00	0.52	-0.45	2.79	3.10	0.67	1.85	8.21	1.42	0.59
Nondepartmental	-0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.52	-0.72
Total	1.17	1.02	1.00	0.96	1.08	0.97	0.95	0.92	1.07	1.05	1.00	1.20	1.01	0.50
*Capital Projects	2.20	7.00	7.33	0.43	0.00	5.20	4.59	0.00	0.00	-0.09	1.25	-0.10	1.76	1.43
Debt Service	-0.38	0.97	1.90	1.01	0.93	7.72	2.56	2.79	-0.21	0.82	0.23	-1.00	1.06	0.79
Enterprise Act's	5.88	3.97	0.87	-0.35	0.00	0.00	0.00	7.22	0.00	0.48	0.88	0.17	0.74	0.27
Total Expenditures	1.11	1.40	1.47	0.88	1.09	1.33	1.21	1.16	1.50	0.68	0.97	0.70	1.06	0.62

*less transfers

APPENDIX F

TABLE F1

TAXABLE SALES BUSINESS CLASSIFICATION CODES

Apparel Group

- 01 - Clothing
- 02 - Furriers
- 03 - Millinery
- 04 - Shoes
- 05 - Other Apparel

Automotive Group

- 10 - Accessories, Batteries, Repair Parts, Tires, Etc.
- 11 - Aircraft
- 12 - Boats, Boat Motors, and Boating Accessories
- 13 - Motor Vehicle Dealers, Motorcycle Dealers
- 14 - Service Stations, Garages and Auto Repair Shops, Truck Stops
- 19 - Other Automotive/Installation of Windshields and Other Glass for Cars, Trailers, Mobile Homes, Etc.

Food Group

- 20 - Bakery Products
- 21 - Candy and Confections
- 22 - Dairy Products
- 23 - Fruit Stands, Vegetable Stands, Roadside Markets, Rolling Markets
- 24 - Groceries, Meats, Seafood - Chain
- 25 - Groceries, Meats, Seafood - Non-Chain/Including Meat Processing Concerns, Etc.
- 26 - Private Membership Clubs
- 27 - Restaurants, Cafeterias, Delicatessens, Grills, Cafes, Snack-Bars, Drive-ins, Catering, Etc.
- 28 - Taverns, Beer Parlors, Dance Halls
- 29 - Other Food

TABLE F2

TAXABLE SALES BUSINESS CLASSIFICATION CODES

Furniture, Home Furnishings, and Equipment Group

- 30 - Furniture, Household/Floor Coverings, Interior-Decorators, Reupholstering Dealers, Etc.
- 31 - Household Appliances, Appliance Repairs
- 32 - Office Furniture, Business Machines, and Equipment
- 33 - Radios, Television Sets, Musical Instruments, Repairs Thereto
- 39 - Other Furniture and Household Equipment/Sewing Machines, Lawn Mowers and Repairs Thereto

General Merchandise Group

- 40 - Department Stores, Discount Stores
- 41 - Dry Goods, Variety Stores, Fabric and Yarn, Trading Stamp Redemption Stores
- 42 - Drug Stores, Selling a Variety of Merchandise in Addition to Prescription Drugs, Wholesale Drugs
- 49 - Other General Merchandise/Funeral Directors, Cemeteries, Religious Supplies, Feed and Seed Stores, Feed Mills, Advertising Agencies, Pet Shops, Horses, Liquid Embroidery, Mail Order, Retail Merchants, Cosmetics

Lumber, Building Material, and Supply Group

- 50 - Building Materials/Lumber, Brick, Tile, Roofing, Ready-Mix Concrete, Stone, Quarry, Sand and Gravel
- 51 - Cabinet Shops, Millwork, Pre-Cut Lumber Stock
- 52 - Electrical Supplies
- 53 - Hardware Supplies, Locksmiths
- 54 - Paint, Wallpaper, and Glass
- 55 - Plumbing, Heating, Refrigeration, Air-Conditioning, Well Drilling Supplies
- 59 - Other Building Supplies

Fuel Group

- 60 - Fuel Oil
- 61 - Bottle Gas
- 62 - Wood
- 69 - Coal, Other Fuels

TABLE F3

TAXABLE SALES BUSINESS CLASSIFICATION CODES

Machinery, Equipment, and Supplies Group

- 70 - Construction or Road Maintenance Machinery, Equipment, Supplies
- 71 - Professional Equipment, Supplies/Dental Supplies, Etc.
- 72 - Service-Establishment Equipment, Supplies/Beauty Supplies, Welding Supplies, Snap-On Tool Dealers, Etc.
- 79 - Other Machinery, Equipment, Supplies/Electronic, Communication, Pollution Control, Farm Equipment, Alarm Systems, Signs, Leasing and Rental Companies

Miscellaneous Group

- 80 - Antiques
- 81 - Books, Stationery/Paper Products, Printing, Office Supplies, Business Forms, Etc.
- 82 - Cigar Stores, Newsstands
- 83 - Florists, Nurserymen, Garden Supplies, Fertilizers, Christmas Tree Dealers
- 84 - Gifts and Novelties, Ceramics, Art and Curio Shops, Coin and Stamp Dealers
- 85 - Jewelry, Luggage, Leather Goods
- 86 - salvage, Surplus, Secondhand Goods, Pawnshops, Flea Markets
- 87 - Sporting Goods, Photographic Supplies, Hobby-Shops, Toy Shops, Firearms, Photo Studios, Portraits, Commercial Photography, Gun Repair Shops, Golf Courses, Bowling Alleys, Pool Parlors
- 88 - Vending Machine Sales
- 89 - Retail Sales and/or Rentals of Tangible Personal Property by Shoe Repair Shops, Beauty Shops, Business Schools, Music Instructors, Manufacturers Agents, Wholesale Merchandise Brokers, Optical Companies, Auctioneers and Auction Markets, Livestock Auctions, Manufacturers, Banks, Hearing Aid Companies

Source: Taxable Sales Annual Report (1980 and 1991)

TABLE F4

TAXABLE SALES REGION AVERAGE 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	7	1139349	50	10	3032379
02	0	0	51	1	90511
03	0	0	52	0	0
04	2	128030	53	3	398746
09	0	0	54	0	0
	9	1267378	55	3	389258
Automotive Group			59	2	489216
10	14	1505963		19	4400109
11	0	0	Fuel Group		
12	3	161187	60	1	237780
13	3	323467	61	0	0
14	34	1658966	62	0	960
19	2	87530	69	2	1064466
	56	3737112		3	1303206
Food Group			Machinery, Equipment and Supplies Group		
20	0	0	70	1	334721
21	0	0	71	1	2593
22	0	0	72	2	341134
23	10	74330	79	11	1573486
24	6	11058422		14	2251933
25	30	5765059	Miscellaneous Group		
26	0	0	80	15	222055
27	32	8616042	81	8	442343
28	0	0	82	0	0
29	3	34708	83	12	282170
	82	25548560	84	21	749593
Furniture, Home Furnishings and Equipment			85	3	206925
30	13	1174895	86	3	87039
31	2	161895	87	13	741604
32	1	39540	88	11	459542
33	6	264254	89	42	10162289
39	3	49836		128	13353560
	24	1690420	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	16	5451609
40	1	3250085	Other Miscellaneous and Unidentifiable		
41	5	1430265	00	33	7395906
42	3	1207724	Total Taxable Sales		
49	18	1132994	409		73295184
	27	7021068			

Source: Taxable Sales Annual Report 1980

TABLE F5

REAL TAXABLE SALES REGION AVERAGE 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	6	1883221	50	9	5012197
02	0	0	51	1	149604
03	0	0	52	0	0
04	1	211619	53	3	659084
09	0	0	54	0	0
	7	2094840	55	2	643402
Automotive Group			59	2	808621
10	14	2489194		17	7272908
11	0	0	Fuel Group		
12	4	266425	60	0	393025
13	2	534656	61	0	0
14	32	2742092	62	0	1587
19	2	144677	69	1	1759448
	54	6177045		2	2154060
Food Group			Machinery, Equipment and Supplies Group		
20	0	0	70	1	553257
21	0	0	71	1	4286
22	0	0	72	2	563857
23	12	122859	79	11	2600803
24	7	18278384		14	3722204
25	27	9529022	Miscellaneous Group		
26	0	0	80	15	367033
27	32	14241392	81	8	731146
28	0	0	82	0	0
29	2	57368	83	12	466397
	80	42229025	84	23	1238997
Furniture, Home Furnishings and Equipment			85	2	342024
30	11	1941975	86	3	143867
31	2	267595	87	13	1225791
32	1	65356	88	12	759573
33	5	436784	89	41	16797172
39	3	82373		129	22072000
	22	2794083	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	19	9010924
40	0	5372041	Other Miscellaneous and Unidentifiable		
41	4	2364074	00	33	12224638
42	3	1996238	Total Taxable Sales		
49	18	1872718	402		57083257
	26	11605072			

TABLE F6

TAXABLE SALES REGION AVERAGE 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	16	8327980	50	12	6761988
02	0	0	51	3	420045
03	0	0	52	0	45091
04	4	1790867	53	3	2867147
09	0	44775	54	2	549987
	21	10163622	55	5	1917792
Automotive Group			59	2	692486
10	18	3443613		28	13254536
11	0	0	Fuel Group		
12	3	289063	60	2	577995
13	3	541543	61	0	0
14	43	4373655	62	0	0
19	2	227961	69	1	431423
	69	8875835		3	1009417
Food Group			Machinery, Equipment and Supplies Group		
20	1	109399	70	1	569560
21	1	153368	71	2	52387
22	0	0	72	5	1479668
23	7	236840	79	31	5381484
24	7	30519837		39	7483099
25	27	8491986	Miscellaneous Group		
26	0	0	80	16	348737
27	52	21459096	81	21	2051358
28	0	0	82	0	0
29	6	994433	83	21	1284990
	100	61964959	84	50	2335816
Furniture, Home Furnishings and Equipment			85	7	1044493
30	21	5086674	86	8	223550
31	3	229263	87	28	3937544
32	7	416647	88	18	268479
33	5	458766	89	75	17799842
39	4	1284303		243	29294809
	40	7475652	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	18	16898408
40	1	7544178	Other Miscellaneous and Unidentifiable		
41	5	5928862	00	27	8279119
42	6	2154229	Total Taxable Sales		
49	35	4597785	635		24005293
	47	20225054			

Source: Taxable Sales Annual Report 1991

TABLE F7

TAXABLE SALES VIRGINIA AVERAGE 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	20.67	4830066	50	12.37	6898231
02	0.07	12683	51	2.88	303075
03	0.60	5411	52	2.74	1354550
04	6.16	1465300	53	6.10	1345627
09	1.80	170814	54	3.75	672674
	29.30	6484273	55	6.21	1560143
Automotive Group			59	4.91	1874371
10	23.13	3586673		38.96	14008671
11	0.79	43508	Fuel Group		
12	3.80	277956	60	3.28	1802269
13	6.24	1136662	61	0.90	324865
14	52.32	2356558	62	1.48	5092
19	4.43	686520	69	5.59	1769079
	90.72	8087876		11.25	3901305
Food Group			Machinery, Equipment and Supplies Group		
20	3.07	279042	70	2.28	961177
21	1.72	108327	71	2.18	403549
22	3.35	436703	72	5.36	579790
23	10.97	180132	79	20.91	2265674
24	11.85	26057032		30.74	4210190
25	43.48	9887365	Miscellaneous Group		
26	3.10	350027	80	18.52	197638
27	65.22	13338935	81	19.87	1671692
28	0.54	22951	82	0.67	111320
29	7.40	652154	83	16.89	856069
	150.69	51312667	84	36.26	1090068
Furniture, Home Furnishings and Equipment			85	7.93	782063
30	24.11	3562579	86	9.40	208649
31	4.82	759634	87	22.57	1528135
32	3.88	1703838	88	14.24	1162690
33	12.47	1268402	89	80.77	7835848
39	6.09	454217		227.13	15444172
	51.38	7748670	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	11.78	3893045
40	3.85	14223245	Other Miscellaneous and Unidentifiable		
41	9.01	4509988	00	1.63	1544388
42	8.38	4099219	Total Taxable Sales		
49	30.18	2246802		694.99	141714510
	51.41	25079255			

Note: Taxable sales figures have been rounded, total may be off by \$1.

Source: Taxable Sales Annual Report 1980

TABLE F8

REAL TAXABLE SALES VIRGINIA AVERAGE 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	20.67	7983580	50	12.37	11402035
02	0.07	20963	51	2.88	500950
03	0.60	8943	52	2.74	2238925
04	6.16	2421983	53	6.10	2224177
09	1.80	282338	54	3.75	1111858
	29.30	10717807	55	6.21	2578749
Automotive Group			59	4.91	3098134
10	23.13	5928384		38.96	23154828
11	0.79	71914	Fuel Group		
12	3.80	459431	60	3.28	2978957
13	6.24	1878779	61	0.90	536966
14	52.32	3895137	62	1.48	8416
19	4.43	1134744	69	5.59	2924098
	90.72	13368389		11.25	6448438
Food Group			Machinery, Equipment and Supplies Group		
20	3.07	461227	70	2.28	1588723
21	1.72	179052	71	2.18	667023
22	3.35	721824	72	5.36	958330
23	10.97	297738	79	20.91	3744915
24	11.85	43069474		30.74	6958991
25	43.48	16342751	Miscellaneous Group		
26	3.10	578556	80	18.52	326674
27	65.22	22047827	81	19.87	2763128
28	0.54	37936	82	0.67	183999
29	7.40	1077941	83	16.89	1414990
	150.69	84814326	84	36.26	1801766
Furniture, Home Furnishings and Equipment			85	7.93	1292665
30	24.11	5888560	86	9.40	344875
31	4.82	1255594	87	22.57	2525843
32	3.88	2816261	88	14.24	1921802
33	12.47	2096532	89	80.77	12951815
39	6.09	750771		227.13	25527557
	51.38	12807718	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	11.78	6434786
40	3.85	23509496	Other Miscellaneous and Unidentifiable		
41	9.01	7454526	00	1.63	2552707
42	8.38	6775569	Total Taxable Sales		
49	30.18	3713723		694.99	234238860
	51.41	41453313	Note: Taxable sales figures have been rounded, total may be off by \$1.		

TABLE F9

TAXABLE SALES VIRGINIA AVERAGE 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	33.24	15785699	50	14.31	12831235
02	0.12	33812	51	5.32	1967584
03	0.49	14187	52	2.35	1743759
04	9.17	3722240	53	6.31	4899577
09	3.09	352339	54	4.10	1447959
	46.11	19908278	55	9.11	2919071
Automotive Group			59	4.42	2429016
10	25.10	6594582		45.92	28238202
11	0.82	130844	Fuel Group		
12	3.37	293120	60	3.46	1275143
13	5.80	2211756	61	0.76	432252
14	56.68	6403407	62	0.45	15747
19	4.16	988319	69	3.56	998761
	95.94	16622028		8.23	2721903
Food Group			Machinery, Equipment and Supplies Group		
20	5.09	563670	70	2.19	863969
21	1.79	214729	71	4.25	601289
22	1.54	131262	72	9.63	1574866
23	8.73	49935137	79	48.65	9505911
24	13.85	14440105		64.73	12546036
25	40.11	606815	Miscellaneous Group		
26	2.89	34681937	80	19.82	483527
27	97.14	33223	81	39.40	5893536
28	0.44	2084229	82	0.85	185453
29	12.24	2434176	83	25.60	2340238
	183.81	105125283	84	73.78	4180957
Furniture, Home Furnishings and Equipment			85	14.87	2756193
30	35.22059	8234655	86	12.63	509938
31	6.022059	2497409	87	46.82	6493319
32	19.40441	4841264	88	20.61	746259
33	11.44853	2034385	89	125.48	18332765
39	6.970588	1620543		379.85	41922187
	79.06618	19228255	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	13.93	11349864
40	4.05	23530096	Other Miscellaneous and Unidentifiable		
41	8.43	10834940	00	4.32	996714
42	10.11	5261447	Total Taxable Sales		
49	49.88	6854715		994.38	303042641
	72.47	46481198			

Note: Taxable sales figures have been rounded, total may be off by \$1.

Source: Taxable Sales Annual Report 1991

TABLE F10

TAXABLE SALES CAROLINE COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	180038	50	13	188575
02			51		***
03			52		***
04		***	53		***
09			54		***
	5	180038	55		***
Automotive Group			59		***
10	10	1432031		13	188575
11			Fuel Group		
12		***	60		***
13		***	61		***
14	37	1068094	62		***
19			69		***
	47	2500125		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		***
22			72		***
23	12	34468	79		***
24		***		0	0
25	40	7114426	Miscellaneous Group		
26		***	80	13	129669
27	28	2323499	81	5	9100
28		***	82		
29	5	33709	83	8	101814
	85	9506102	84	6	79520
Furniture, Home Furnishings and Equipment			85		***
30	4	247953	86	4	19259
31		***	87		***
32			88	9	164306
33	5	43526	89	22	672980
39				67	1176648
	9	291479	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	19	2787132
40			Other Miscellaneous and Unidentifiable		
41	4	510287	00	35	8601950
42	4	281947	Total Taxable Sales		
49	10	641540	298		26665823
	18	1433774			

Source: Taxable Sales Annual Report 1980

TABLE F11

REAL TAXABLE SALES CAROLINE COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	297583	50	13	311694
02			51		***
03			52		***
04		***	53		***
09			54		***
	5	297583	55		***
Automotive Group			59		***
10	10	2366993		13	311694
11			Fuel Group		
12		***	60		***
13		***	61		***
14	37	1765445	62		***
19			69		***
	47	4132438		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		***
22			72		***
23	12	56972	79		***
24		***		0	0
25	40	11759382	Miscellaneous Group		
26		***	80	13	214329
27	28	3840494	81	5	15041
28		***	82		
29	5	55717	83	8	168288
	85	15712565	84	6	131438
Furniture, Home Furnishings and Equipment			85		***
30	4	409840	86	4	31833
31		***	87		***
32			88	9	271580
33	5	71944	89	22	1112364
39				67	1944873
	9	481783	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	19	4606830
40			Other Miscellaneous and Unidentifiable		
41	4	843450	00	35	14218099
42	4	466028	Total Taxable Sales		
49	10	1060397	298		44075740
	18	2369874			

TABLE F12

TAXABLE SALES CAROLINE COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01		***	50	8	2005664
02			51	5	32357
03			52		***
04			53		***
09	0	0	54		***
Automotive Group			55		***
10	6	1220895	59		***
11				13	2038021
12		***	Fuel Group		
13		***	60		***
14	29	3022560	61		
19			62		
	35	4243455	69	5	3491790
Food Group				5	3491790
20		***	Machinery, Equipment and Supplies Group		
21			70		***
22		***	71		
23	8	88877	72		***
24		***	79	14	1191697
25	45	13385644		14	1191697
26		***	Miscellaneous Group		
27	21	8597943	80	13	170376
28		***	81	5	59672
29		***	82		
	74	22072464	83	7	242015
Furniture, Home Furnishings and Equipment			84	20	193395
30	5	317487	85		***
31			86	5	20675
32		***	87	7	246850
33		***	88	17	103009
39		***	89	30	1458076
	5	317487		104	2494068
General Merchandise Group			Hotels, Motels, Tourist Camps, Etc.		
40			90	10	3099307
41	5	976758	Other Miscellaneous and Unidentifiable		
42	4	463874	00	36	10289954
49	21	1651288	Total Taxable Sales		
	30	3091920	326		52330163

Source: Taxable Sales Annual Report 1991

TABLE F13

TAXABLE SALES GLOUCESTER COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	6	664040	50	11	3770910
02		***	51		***
03		***	52		
04			53	5	690467
09			54		
	6	664040	55	4	841387
Automotive Group			59		***
10	11	1466358		20	5302764
11		***	Fuel Group		
12	13	363146	60		***
13	7	466747	61		
14	39	1523704	62		***
19		***	69		***
	70	3819955		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		***
21			71		
22		***	72		***
23	5	14156	79	12	399290
24	7	7759979		12	399290
25	47	17759899	Miscellaneous Group		
26			80	17	190497
27	27	3217033	81	9	294576
28		***	82		
29		***	83	23	394294
	86	28751067	84	23	198985
Furniture, Home Furnishings and Equipment			85	6	42494
30	13	1834481	86	5	116496
31	5	354055	87	13	198030
32		***	88	10	211970
33	7	137204	89	38	936000
39	5	83811		144	2583342
	30	2409551	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	10	539238
40		***	Other Miscellaneous and Unidentifiable		
41	11	4279758	00	25	4216836
42	4	1985410	Total Taxable Sales		
49	27	2304742	445		57255993
	42	8569910			

Source: Taxable Sales Annual Report 1980

TABLE F14

REAL TAXABLE SALES GLOUCESTER COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	6	1097587	50	11	6232909
02			51		***
03		***	52		
04		***	53	5	1141268
09			54		
	6	1097587	55	4	1390722
Automotive Group			59		***
10	11	2423732		20	8764899
11		***	Fuel Group		
12	13	600241	60		***
13	7	771483	61		
14	39	2518519	62		***
19		***	69		***
	70	6313975		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		***
21			71		
22		***	72		***
23	5	23398	79	12	659983
24	7	12826412		12	659983
25	47	29355205	Miscellaneous Group		
26			80	17	314871
27	27	5317410	81	9	486902
28		***	82		
29		***	83	23	651726
	86	47522425	84	23	328901
Furniture, Home Furnishings and Equipment			85	6	70238
30	13	3032200	86	5	192555
31	5	585215	87	13	327322
32		***	88	10	350364
33	7	226783	89	38	1547107
39	5	138531		144	4269987
	30	3982729	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	10	891302
40		***	Other Miscellaneous and Unidentifiable		
41	11	7073980	00	25	6969977
42	4	3281669	Total Taxable Sales		
49	27	3809491	445		94638005
	42	14165140			

TABLE F15

TAXABLE SALES GLOUCESTER COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	9	1197748	50	20	10346335
02			51	5	308700
03			52		
04		***	53	5	1221264
09		***	54		***
	9	1197748	55	8	2996936
Automotive Group			59		***
10	19	2719428		38	14873235
11			Fuel Group		
12	16	776225	60		***
13	7	1040748	61		***
14	43	2927399	62		
19	4	166355	69		***
	89	7630155		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		***
21			71		
22			72	4	180750
23		***	79	31	1945628
24	11	32865012		35	2126378
25	35	14332815	Miscellaneous Group		
26			80	12	305654
27	44	11814370	81	22	587485
28		***	82		
29	7	381498	83	29	1472936
	97	59393695	84	69	992290
Furniture, Home Furnishings and Equipment			85	11	273876
30	17	2954581	86	27	721535
31	7	86213	87	35	1221162
32	6	237791	88	16	41724
33	6	442591	89	65	4871614
39	8	298948		286	10488276
	44	4020124	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	7	471524
40	4	2908409	Other Miscellaneous and Unidentifiable		
41	10	14221899	00	17	1999974
42	6	1881451	Total Taxable Sales		
49	37	4911501			679 126124369
	57	23923260			

Source: Taxable Sales Annual Report 1991

TABLE F16

TAXABLE SALES HANOVER COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	13	1489625	50	21	9649907
02			51	8	922120
03		***	52		***
04			53	14	2867936
09			54		***
	13	1489625	55	18	1155559
Automotive Group			59	17	4779093
10	54	4970483		78	19374615
11		***	Fuel Group		
12	4	416353	60	4	1711268
13	7	592899	61		
14	96	8011910	62	4	11524
19	9	335292	69	6	8304711
	170	14326937		14	10027503
Food Group			Machinery, Equipment and Supplies Group		
20		***	70	9	4016648
21		***	71	6	31113
22		***	72	16	3814032
23	33	223319	79	58	14615590
24	16	42342505		89	22477383
25	50	8169002	Miscellaneous Group		
26		***	80	51	1095573
27	69	21924228	81	25	831242
28		***	82		
29	9	186970	83	26	501117
	177	72846024	84	51	921642
Furniture, Home Furnishings and Equipment			85	9	154248
30	32	1450837	86	10	601272
31	7	564470	87	33	2977142
32	6	474482	88	22	1015363
33	14	742934	89	135	16999762
39	15	224662		362	25097361
	74	3457385	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	13	6205292
40		***	Other Miscellaneous and Unidentifiable		
41	10	3802675	00	23	6453783
42	10	3763234	Total Taxable Sales		
49	60	3870015			1093 193192232
	80	11435924			

Source: Taxable Sales Annual Report 1980

TABLE F17

REAL TAXABLE SALES HANOVER COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	13	2462190	50	21	15950260
02			51	8	1524165
03			52		***
04		***	53	14	4740390
09			54		***
	13	2462190	55	18	1910015
Automotive Group			59	17	7899327
10	54	8215674		78	32024157
11		***	Fuel Group		
12	4	688187	60	4	2828542
13	7	979998	61		
14	96	13242826	62	4	19048
19	9	554202	69	6	13726795
	170	23680888		14	16574385
Food Group			Machinery, Equipment and Supplies Group		
20		***	70	9	6639088
21		***	71	6	51426
22		***	72	16	6304185
23	33	369122	79	58	24158000
24	16	69987612		89	37152699
25	50	13502483	Miscellaneous Group		
26		***	80	51	1810864
27	69	36238393	81	25	1373954
28		***	82		
29	9	309041	83	26	828293
	177	120406651	84	51	1523375
Furniture, Home Furnishings and Equipment			85	9	254955
30	32	2398078	86	10	993838
31	7	933008	87	33	4920896
32	6	784268	88	22	1678286
33	14	1227990	89	135	28098780
39	15	371342		362	41483241
	74	5714686	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	13	10256681
40		***	Other Miscellaneous and Unidentifiable		
41	10	6285413	00	23	10667410
42	10	6220221	Total Taxable Sales		
49	60	6396719	1093 319326003		
	80	18902354			

TABLE F18

TAXABLE SALES HANOVER COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	28	32054848	50	40	32528064
02		***	51	7	1624980
03		***	52	5	541095
04	5	733527	53	11	5802265
09		***	54	6	839132
	33	32788375	55	25	7385036
Automotive Group			59	14	4948225
10	65	13617274		108	53668797
11		***	Fuel Group		
12	5	1328906	60	10	4142143
13	11	1620866	61		***
14	126	14731832	62		***
19	8	289675	69	4	1685285
	215	31588553		14	5827428
Food Group			Machinery, Equipment and Supplies Group		
20	4	376397	70	12	6834720
21		***	71	11	487254
22		***	72	36	13548368
23	25	421591	79	134	39116327
24	22	106110274		193	59986669
25	48	13575704	Miscellaneous Group		
26		***	80	70	1403351
27	118	38101691	81	69	4874486
28		***	82		***
29	20	1563680	83	76	5052586
	237	160149337	84	94	3076770
Furniture, Home Furnishings and Equipment			85	15	1149786
30	53	5419634	86	13	411988
31	7	613167	87	81	16667893
32	36	2466863	88	36	658437
33	13	1019481	89	273	77667760
39	13	2808537		727	110963057
	122	12327682	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	16	12155323
40		***	Other Miscellaneous and Unidentifiable		
41	8	12436141	00	22	7433649
42	19	5165236	Total Taxable Sales		
49	104	14211626	1818 518701873		
	131	31813003			

Source: Taxable Sales Annual Report 1991

TABLE F19

TAXABLE SALES JAMES CITY COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	989736	50	14	8636833
02			51		
03			52		
04		***	53		***
09		***	54		***
	5	989736	55		***
Automotive Group			59		
10	9	766506		14	8636833
11		***	Fuel Group		
12	6	117606	60		
13			61		***
14	19	653873	62		
19		***	69		***
	34	1537985		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		***
21		***	71		
22		***	72		***
23	19	241164	79	12	128587
24	10	7581500		12	128587
25	21	2513910	Miscellaneous Group		
26		***	80	12	38445
27	32	24567904	81	7	45846
28		***	82		
29		***	83	5	194600
	82	34904478	84	40	3950157
Furniture, Home Furnishings and Equipment			85		***
30	14	294954	86		***
31		***	87	18	1390855
32		***	88	15	836006
33		***	89	37	45858681
39		***		134	52314590
	14	294954	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	31	12942032
40			Other Miscellaneous and Unidentifiable		
41		***	00	43	6275006
42		***	Total Taxable Sales		
49	11	76276	380 118900477		
	11	76276			

Source: Taxable Sales Annual Report 1980

TABLE F20

REAL TAXABLE SALES JAMES CITY COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	1635927	50	14	14275757
02			51		
03			52		
04		***	53		***
09		***	54		***
	5	1635927	55		***
Automotive Group			59		
10	9	1266952		14	14275757
11		***	Fuel Group		
12	6	194390	60		
13			61		***
14	19	1080782	62		
19		***	69		***
	34	2542124		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		***
21		***	71		
22		***	72		***
23	19	398618	79	12	212540
24	10	12531405		12	212540
25	21	4155223	Miscellaneous Group		
26		***	80	12	63545
27	32	40608106	81	7	75779
28		***	82		
29		***	83	5	321653
	82	57693352	84	40	6529185
Furniture, Home Furnishings and Equipment			85		***
30	14	487527	86		***
31		***	87	18	2298934
32		***	88	15	1381828
33		***	89	37	75799473
39		***		134	86470397
	14	487527	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	31	21391788
40			Other Miscellaneous and Unidentifiable		
41		***	00	43	10371911
42		***	Total Taxable Sales		
49	11	126076	380 196529714		
	11	126076			

TABLE F21

TAXABLE SALES JAMES CITY COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	64	41728783	50	17	15407866
02		***	51		***
03			52		
04	10	10196104	53	7	1114792
09		***	54		
	74	51924887	55	6	3049688
Automotive Group			59		***
10	12	1770810		30	19572346
11		***	Fuel Group		
12	5	518730	60		***
13		***	61		***
14	27	3366484	62		
19			69		
	44	5656024		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		***
21	7	1840420	71		
22		***	72	6	2524801
23	6	167910	79	25	1543317
24	9	51571570		31	4068118
25	20	4715343	Miscellaneous Group		
26		***	80	24	439811
27	61	59434884	81	37	2567763
28			82		***
29	9	5612947	83	26	1280036
	112	123343074	84	93	10094376
Furniture, Home Furnishings and Equipment			85	19	5577825
30	30	8994669	86	5	39112
31		***	87	32	2498832
32	9	559518	88	21	484578
33	5	673095	89	66	59691132
39	7	5465023		323	82673465
	51	15692305	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	31	51668856
40		***	Other Miscellaneous and Unidentifiable		
41	4	618543	00	25	4272740
42	5	1675778	Total Taxable Sales		
49	34	6955877	764		368122013
	43	9250198			

Source: Taxable Sales Annual Report 1991

TABLE F22

TAXABLE SALES KING AND QUEEN COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01			50	5	59912
02			51		
03			52		
04			53		
09			54		
	0	0	55		***
Automotive Group			59		***
10	7	57831		5	59912
11			Fuel Group		
12		***	60		***
13		***	61		***
14	13	334059	62		***
19		***	69		***
	20	391890		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		***
22			72		***
23	17	26661	79		***
24				0	0
25	22	1488230	Miscellaneous Group		
26			80	6	15881
27	8	330199	81		***
28			82		
29		***	83		
	47	1845090	84		***
Furniture, Home Furnishings and Equipment			85		
30	6	265321	86		
31		***	87		***
32			88		***
33			89	16	291336
39		***		22	307217
	6	265321	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		***
40			Other Miscellaneous and Unidentifiable		
41			00	33	696159
42			Total Taxable Sales		
49	4	35866	137		3601455
	4	35866			

Source: Taxable Sales Annual Report 1980

TABLE F23

REAL TAXABLE SALES KING AND QUEEN COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01			50	5	99028
02			51		
03			52		
04			53		
09			54		
	0	0	55		***
Automotive Group			59		***
10	7	95588		5	99028
11			Fuel Group		
12		***	60		***
13		***	61		***
14	13	552164	62		***
19		***	69		***
	20	647752		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		***
22			72		***
23	17	44068	79		***
24				0	0
25	22	2459884	Miscellaneous Group		
26			80	6	26250
27	8	545783	81		***
28			82		
29		***	83		
	47	3049736	84		***
Furniture, Home Furnishings and Equipment			85		
30	6	438547	86		
31		***	87		***
32			88		***
33			89	16	481547
39		***		22	507797
	6	438547	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		***
40			Other Miscellaneous and Unidentifiable		
41			00	33	1150676
42			Total Taxable Sales		
49	4	59283	137		5952818
	4	59283			

TABLE F24

TAXABLE SALES KING AND QUEEN COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01		***	50		***
02			51		***
03			52		
04			53		
09			54		
	0	0	55		
Automotive Group			59		
10	4	125576		0	0
11			Fuel Group		
12			60		
13		***	61		***
14	15	446564	62		
19		***	69		
	19	572140		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21			71		
22			72		***
23	6	7874	79	4	39350
24				4	39350
25	11	1760930	Miscellaneous Group		
26			80		***
27		***	81		***
28		***	82		
29		***	83	5	274224
	17	1768804	84	7	27311
Furniture, Home Furnishings and Equipment			85		
30	7	1682151	86		
31			87		
32			88		***
33		***	89	12	470078
39		***		24	771613
	7	1682151	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		***
40			Other Miscellaneous and Unidentifiable		
41			00	29	1651511
42			Total Taxable Sales		
49	5	420797	105		6906366
	5	420797			

Source: Taxable Sales Annual Report 1991

TABLE F25

TAXABLE SALES KING WILLIAM COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	4	405754	50	5	1062444
02			51		
03		***	52		
04		***	53		***
09			54		***
	4	405754	55		***
Automotive Group			59		***
10	7	814037		5	1062444
11		***	Fuel Group		
12		***	60		***
13	4	166972	61		
14	19	1399970	62		
19			69	4	921773
	30	2380979		4	921773
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		***
21			71		
22		***	72		
23	11	14406	79		***
24	5	8200577		0	0
25	25	2336525	Miscellaneous Group		
26		***	80		***
27	11	669747	81		***
28		***	82		
29		***	83	7	124602
	52	1.12E+07	84	10	107428
Furniture, Home Furnishings and Equipment			85		***
30		***	86		***
31		***	87		***
32			88	7	65767
33	4	349562	89	28	627894
39		***		52	925691
	4	349562	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		
40		***	Other Miscellaneous and Unidentifiable		
41	5	544437	00	39	6617445
42	4	610961	Total Taxable Sales		
49	5	189565	204		25230266
	14	1344963			

Source: Taxable Sales Annual Report 1980

TABLE F26

REAL TAXABLE SALES KING WILLIAM COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	4	670668	50	5	1756106
02			51		
03			52		
04		***	53		***
09			54		***
	4	670668	55		***
Automotive Group			59		***
10	7	1345516		5	1756106
11		***	Fuel Group		
12		***	60		***
13	4	275987	61		
14	19	2314000	62		
19			69	4	1523592
	30	3935502		4	1523592
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		***
21			71		
22		***	72		
23	11	23812	79		***
24	5	13554673		0	0
25	25	3862025	Miscellaneous Group		
26		***	80		***
27	11	1107020	81		***
28		***	82		
29		***	83	7	205954
	52	18547529	84	10	177567
Furniture, Home Furnishings and Equipment			85		***
30		***	86		***
31		***	87		***
32			88	7	108706
33	4	577788	89	28	1037841
39		***		52	1530068
	4	577788	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		
40		***	Other Miscellaneous and Unidentifiable		
41	5	899896	00	39	10937926
42	4	1009853	Total Taxable Sales		
49	5	313331	204		41702919
	14	2223079			

TABLE F27

TAXABLE SALES KING WILLIAM COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	963856	50		***
02			51		***
03			52		
04			53		
09			54		
	5	963856	55	4	68999
Automotive Group			59		
10	6	1067405		4	68999
11			Fuel Group		
12		***	60		***
13		***	61		***
14	22	1097138	62		
19			69		***
	28	2164543		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21			71		***
22		***	72		***
23	7	171822	79	6	159993
24	4	13239067		6	159993
25	19	4655713	Miscellaneous Group		
26		***	80		***
27	17	4282308	81		***
28			82		
29		***	83	7	346393
	47	22348910	84	15	210570
Furniture, Home Furnishings and Equipment			85		***
30	12	4108904	86		***
31			87	6	80866
32		***	88	9	72709
33		***	89	25	8117777
39				62	8828315
	12	4108904	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		***
40		***	Other Miscellaneous and Unidentifiable		
41	4	3847362	00	39	5415892
42	5	1465485	Total Taxable Sales		
49	16	1701861	228		51074120
	25	7014708			

Source: Taxable Sales Annual Report 1991

TABLE F28

TAXABLE SALES LOUISA COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	104417	50	16	1476407
02			51		***
03			52		
04			53		***
09			54		
	5	104417	55		
Automotive Group			59		***
10	11	848805		16	1476407
11		***	Fuel Group		
12		***	60		***
13	4	199877	61		***
14	39	1022332	62		***
19		***	69	4	258275
	54	2071014		4	258275
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		***
22		***	72		***
23		***	79	9	1856605
24		***		9	1856605
25	42	5480965	Miscellaneous Group		
26			80	14	42341
27	25	1587805	81		***
28			82		
29	5	53990	83	10	177669
	72	7122760	84	8	8416
Furniture, Home Furnishings and Equipment			85		***
30	16	414969	86		***
31		***	87	6	150310
32		***	88	11	273869
33	5	98716	89	41	1919902
39	4	55302		90	2572507
	25	568987	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	6	162879
40		***	Other Miscellaneous and Unidentifiable		
41	5	1510308	00	35	13038500
42		***	Total Taxable Sales		
49	19	1318039	340		32060698
	24	2828347			

Source: Taxable Sales Annual Report 1980

TABLE F29

REAL TAXABLE SALES LOUISA COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	172590	50	16	2440342
02			51		***
03			52		
04			53		***
09			54		
	5	172590	55		
Automotive Group			59		***
10	11	1402983		16	2440342
11		***	Fuel Group		
12		***	60		***
13	4	330375	61		
14	39	1689805	62		***
19		***	69	4	426901
	54	3423164		4	426901
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		***
22		***	72		***
23		***	79	9	3068769
24		***		9	3068769
25	42	9059446	Miscellaneous Group		
26			80	14	69985
27	25	2624471	81		***
28			82		
29	5	89240	83	10	293668
	72	11773157	84	8	13911
Furniture, Home Furnishings and Equipment			85		***
30	16	685899	86		***
31		***	87	6	248446
32		***	88	11	452676
33	5	163167	89	41	3173392
39	4	91408		90	4252078
	25	940474	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	6	269221
40		***	Other Miscellaneous and Unidentifiable		
41	5	2496377	00	35	21551240
42			Total Taxable Sales		
49	19	2178577	340		52992889
	24	4674954			

TABLE F30

TAXABLE SALES LOUISA COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01		***	50	9	3347904
02			51	4	108998
03			52		
04		***	53		***
09			54		***
	0	0	55		***
Automotive Group			59		***
10	13	1486442		13	3456902
11			Fuel Group		
12		***	60	4	284867
13	4	501681	61		***
14	39	4318243	62		
19		***	69		***
	56	6306366		4	284867
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21			71		***
22			72		***
23	4	20823	79	23	1250894
24		***		23	1250894
25	34	8503772	Miscellaneous Group		
26		***	80	9	85453
27	32	4556029	81	8	65969
28			82		
29	4	27212	83	18	686339
	74	13107836	84	19	445122
Furniture, Home Furnishings and Equipment			85	4	120681
30	17	775880	86	4	30594
31		***	87	20	704561
32	5	577250	88	15	123364
33	4	34725	89	48	6809125
39	4	125557		145	9071208
	30	1513412	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	9	1181859
40		***	Other Miscellaneous and Unidentifiable		
41	5	1345846	00	24	23056880
42		***	Total Taxable Sales		
49	35	3751528	418		64327598
	40	5097374			

Source: Taxable Sales Annual Report 1991

TABLE F31

TAXABLE SALES NEW KENT COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01		***	50	5	922169
02			51		***
03			52		***
04			53		
09			54		
	0	0	55		
Automotive Group			59		***
10		***		5	922169
11			Fuel Group		
12		***	60		***
13		***	61		
14	21	887201	62		***
19		***	69		***
	21	887201		0	0
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		***
22			72		***
23		***	79	4	203722
24		***		4	203722
25	10	4790639	Miscellaneous Group		
27	12	933567	80		
28			81		
29		***	82		
	22	5724206	83	8	101814
Furniture, Home Furnishings and Equipment			84	6	79520
30		***	85		
31			86		***
32			87	6	513952
33			88	4	44865
39	4	16526	89	18	395107
	4	16526		42	1135258
General Merchandise Group			Hotels, Motels, Tourist Camps, Etc.		
40		***	90	4	442533
41		***	Other Miscellaneous and Unidentifiable		
42		***	00	37	2760261
49	6	323853	Total Taxable Sales		
	6	323853	141 12260830		

Source: Taxable Sales Annual Report 1980

TABLE F32

REAL TAXABLE SALES NEW KENT COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01		***	50	5	1524246
02			51		***
03			52		***
04			53		
09	0	0	54		
Automotive Group			55		
10		***	59		***
11				5	1524246
12		***	Fuel Group		
13		***	60		***
14	21	1466448	61		***
19		***	62		***
	21	1466448	69		***
Food Group				0	0
20			Machinery, Equipment and Supplies Group		
21			70		
22			71		***
23		***	72		***
24		***	79	4	336731
25	10	7918412		4	336731
26			Miscellaneous Group		
27	12	1543086	80		
28			81		
29		***	82		
	22	9461498	83	8	168288
Furniture, Home Furnishings and Equipment			84	6	131438
30		***	85		
31			86		***
32			87	6	849507
33			88	4	74157
39	4	27316	89	18	653069
	4	27316		42	1876460
General Merchandise Group			Hotels, Motels, Tourist Camps, Etc.		
40		***	90	4	731460
41		***	Other Miscellaneous and Unidentifiable		
42		***	00	37	4562415
49	6	535294	Total Taxable Sales		
	6	535294	141		20265835

TABLE F33

TAXABLE SALES NEW KENT COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01		***	50		***
02			51		***
03			52		***
04			53		***
09			54		
	0	0	55		***
Automotive Group			59		
10	5	473798		0	0
11			Fuel Group		
12		***	60		***
13	4	544699	61		
14	16	1666901	62		***
19	4	148866	69		
	29	2834264		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21			71		***
22			72		***
23		***	79	10	217255
24		***		10	217255
25	12	3961245	Miscellaneous Group		
26			80		***
27	20	1487286	81	5	282665
28			82		
29		***	83	10	282969
	32	5448531	84	23	259136
Furniture, Home Furnishings and Equipment			85		***
30	8	317144	86		***
31			87	9	405397
32		***	88	7	70066
33			89	19	932944
39		***		73	2233177
	8	317144	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		***
40			Other Miscellaneous and Unidentifiable		
41			00	37	11278068
42		***	Total Taxable Sales		
49	6	582152	195 22910591		
	6	582152			

Source: Taxable Sales Annual Report 1991

TABLE F34

TAXABLE SALES ORANGE COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	4	320684	50	10	3900208
02		***	51		
03			52		***
04		***	53	4	337972
09		***	54		***
	4	320684	55	7	1046587
Automotive Group			59	4	682663
10	11	1208807		25	5967430
11			Fuel Group		
12			60	4	1142091
13	8	925912	61		
14	32	1257537	62		***
19		***	69		***
	51	3392256		4	1142091
Food Group			Machinery, Equipment and Supplies Group		
20			70		
21			71		
22		***	72		
23	6	169943	79	7	268378
24		***		7	268378
25	33	5379518	Miscellaneous Group		
26			80	14	81905
27	27	3731111	81	9	270486
28			82		
29		***	83	15	505116
	66	9280572	84	13	101694
Furniture, Home Furnishings and Equipment			85	4	144833
30	17	1298577	86	5	73488
31		***	87	13	793244
32		***	88	7	600332
33	8	106249	89	46	2183999
39		***		126	4755097
	25	1404826	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90		***
40		***	Other Miscellaneous and Unidentifiable		
41	11	2310455	00	28	16296306
42	6	2061541	Total Taxable Sales		
49	17	369228	370		47568864
	34	4741224			

Source: Taxable Sales Annual Report 1980

TABLE F36

TAXABLE SALES ORANGE COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	5	538399	50	11	5612865
02			51		***
03			52		***
04			53	4	2879339
09	5	538399	54	7	1416631
Automotive Group			55	5	1435894
10	18	2408406	59		***
11		***		27	11344729
12			Fuel Group		
13	6	1510760	60	4	1221318
14	32	2311276	61		***
19			62		***
Food Group			69		***
20				4	1221318
21			Machinery, Equipment and Supplies Group		
22			70		
23	7	650874	71		
24	4	17951681	72		***
25	25	12848627	79	18	3124721
26				18	3124721
27	30	9709125	Miscellaneous Group		
28			80	14	172982
29	6	43810	81	17	1051513
	72	41204117	82		
Furniture, Home Furnishings and Equipment			83	13	928632
30	15	2458277	84	40	583896
31		***	85		***
32	4	99893	86	6	54167
33		***	87	18	837666
39		***	88	11	288098
	19	2558170	89	69	6124134
General Merchandise Group				188	10041088
40		***	Hotels, Motels, Tourist Camps, Etc.		
41	4	1029573	90	5	363959
42	7	1662487	Other Miscellaneous and Unidentifiable		
49	30	2916685	00	24	8278986
	41	5608745	Total Taxable Sales		
				459	90514674

Source: Taxable Sales Annual Report 1991

TABLE F37

TAXABLE SALES SPOTSYLVANIA COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	21	3798533	50	15	5644136
02			51		***
03			52		***
04	14	1071768	53	4	163031
09		***	54		***
	35	4870301	55	5	1627562
Automotive Group			59	5	408832
10	19	2692289		29	7843561
11		***	Fuel Group		
12	4	442471	60		***
13	5	989833	61		***
14	48	1535062	62		
19	4	163158	69	8	3288832
	80	5822813		8	3288832
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21		***	71		***
22		***	72	5	279573
23	10	124589	79	20	785539
24	13	25158635		25	1065112
25	46	8581030	Miscellaneous Group		
26		***	80	22	145169
27	46	14612731	81	14	1558506
28		***	82		***
29	8	82125	83	11	272852
	123	48559110	84	28	561705
Furniture, Home Furnishings and Equipment			85	8	1504458
30	18	5325013	86	5	213290
31		***	87	19	1070732
32		***	88	9	642322
33	13	848811	89	46	3598565
39		***		162	9567599
	31	6173824	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	16	8157988
40	4	27811063	Other Miscellaneous and Unidentifiable		
41	6	285580	00	33	4114507
42	6	2556820	Total Taxable Sales		
49	20	1277825	578		131394935
	36	31931288			

TABLE F38

REAL TAXABLE SALES SPOTSYLVANIA COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	21	6278567	50	15	9329150
02			51		***
03			52		***
04	14	1771517	53	4	269473
09		***	54		***
	35	8050084	55	5	2690185
Automotive Group			59	5	675755
10	19	4450064	29	12964564	
11			Fuel Group		
12	4	731357	60		***
13	5	1636088	61		***
14	48	2537293	62		
19	4	269683	69	8	5436086
	80	9624484		8	5436086
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21		***	71		***
22		***	72	5	462104
23	10	205932	79	20	1298412
24	13	41584521		25	1760516
25	46	14183521	Miscellaneous Group		
26		***	80	22	239949
27	46	24153274	81	14	2576043
28		***	82		***
29	8	135744	83	11	450995
	123	80262992	84	28	928438
Furniture, Home Furnishings and Equipment			85	8	2486707
30	18	8801674	86	5	352545
31		***	87	19	1769805
32		***	88	9	1061689
33	13	1402993	89	46	5948041
39		***		162	15814213
	31	10204668	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	16	13484278
40	4	45968699	Other Miscellaneous and Unidentifiable		
41	6	472033	00	33	6800838
42	6	4226149	Total Taxable Sales		
49	20	2112107			578 217181711
	36	52778988			

TABLE F39

TAXABLE SALES SPOTSYLVANIA COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	40	15747152	50	25	10710879
02		***	51	11	1225076
03		***	52		***
04	20	8462928	53	7	22110462
09		***	54	5	1573089
	60	24210080	55	7	4959840
Automotive Group			59	6	1641231
10	36	9544240		61	42220577
11		***	Fuel Group		
12	5	516753	60	4	1287606
13	5	1279766	61		***
14	96	11083463	62		***
19	4	926250	69		***
	146	23350472		4	1287606
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		***
21		***	71		***
22			72	7	1212927
23	11	375840	79	58	7651595
24	14	85766691		65	8864522
25	47	19320502	Miscellaneous Group		
26		***	80	17	72021
27	111	41860822	81	23	6365901
28		***	82		***
29	12	739057	83	29	1985508
	195	148062912	84	76	4277730
Furniture, Home Furnishings and Equipment			85	17	2436946
30	41	26880706	86	18	412558
31	9	1367628	87	55	16028027
32	20	651816	88	23	418383
33	11	1102477	89	126	15063485
39	6	4094993		384	47060559
	87	34097620	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	17	13200542
40	6	77382245	Other Miscellaneous and Unidentifiable		
41	6	2955988	00	24	4934852
42	7	8147802	Total Taxable Sales		
49	45	4479236	1107 440255013		
	64	92965271			

Source: Taxable Sales Annual Report 1991

TABLE F40

TAXABLE SALES YORK COUNTY 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	12	778757	50	7	1077047
02			51	4	164008
03			52		***
04		***	53	5	725547
09		***	54		***
	12	778757	55		***
Automotive Group			59		
10	19	2177338		16	1966602
11			Fuel Group		
12	13	594672	60		***
13		***	61		
14	31	1352539	62		
19	5	551908	69		***
	68	4676457		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		***
21		***	71		
22		***	72		***
23	7	23349	79	13	624122
24	15	21188692		13	624122
25	20	4466275	Miscellaneous Group		
26		***	80	23	436309
27	43	14271551	81	12	243414
28			82		***
29	7	59698	83	21	506285
	92	40009565	84	46	1388042
Furniture, Home Furnishings and Equipment			85		***
30	24	2351228	86	4	20666
31	6	1024216	87	28	842195
32		***	88	16	352495
33	10	649594	89	40	2666120
39	6	217728		190	6455526
	46	4242766	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	17	6413606
40		***	Other Miscellaneous and Unidentifiable		
41	5	2906714	00	36	11122864
42		***	Total Taxable Sales		
49	24	1342658	519		78385583
	29	4249372			

Source: Taxable Sales Annual Report 1980

TABLE F41

REAL TAXABLE SALES YORK COUNTY 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	12	1287202	50	7	1780243
02			51	4	271088
03			52		***
04		***	53	5	1199251
09		***	54		***
	12	1287202	55		***
Automotive Group			59		
10	19	3598906		16	3250582
11			Fuel Group		
12	13	982929	60		***
13		***	61		
14	31	2235602	62		
19	5	912245	69		***
	68	7729681		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		***
21		***	71		
22		***	72		***
23	7	38593	79	13	1031607
24	15	35022631		13	1031607
25	20	7382273	Miscellaneous Group		
26		***	80	23	721172
27	43	23589340	81	12	402337
28			82		***
29	7	98674	83	21	836835
	92	66131512	84	46	2294284
Furniture, Home Furnishings and Equipment			85		***
30	24	3886327	86	4	34159
31	6	1692919	87	28	1392058
32		***	88	16	582636
33	10	1073709	89	40	4406810
39	6	359881		190	10670291
	46	7012836	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	17	10601002
40		***	Other Miscellaneous and Unidentifiable		
41	5	4804486	00	36	18384899
42		***	Total Taxable Sales		
49	24	2219269	519 129562947		
	29	7023755			

TABLE F42

TAXABLE SALES YORK COUNTY 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	25	-3947731	50	8	1184284
02			51	6	1740429
03			52		***
04	5	429533	53	5	1277640
09	5	537303	54	10	2770997
	35	-2980895	55	7	3117105
Automotive Group			59	4	1720372
10	25	4795593		40	11810827
11			Fuel Group		
12	9	328136	60		***
13		***	61		***
14	51	5850416	62		***
19	7	1204386	69		***
	92	12178531		0	0
Food Group			Machinery, Equipment and Supplies Group		
20	4	936385	70		***
21			71	9	141387
22			72	9	289174
23	11	936465	79	36	7357914
24	11	52268434		54	7788475
25	22	4071847	Miscellaneous Group		
26		***	80	17	492008
27	89	42207848	81	39	2092250
28			82		***
29	9	1130819	83	20	1897997
	146	101551798	84	79	3703341
Furniture, Home Furnishings and Equipment			85	13	201127
30	36	3687405	86	14	991971
31	13	684143	87	45	6405452
32	4	249100	88	34	249767
33	11	432846	89	95	6387169
39	7	2618581		356	22421082
	71	7672075	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	24	21739351
40		***	Other Miscellaneous and Unidentifiable		
41	5	22063929	00	21	9090892
42	8	3284339	Total Taxable Sales		
49	65	7938274			917 224558678
	78	33286542			

Source: Taxable Sales Annual Report 1991

TABLE F43

TAXABLE SALES CITY OF WILLIAMSBURG 1980

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	12	4940601	50		
02			51		
03			52		***
04	5	464587	53		***
09			54		
	17	5405188	55		***
Automotive Group			59		
10	5	1637065		0	0
11			Fuel Group		
12		***	60		
13	4	539366	61		
14	16	861305	62		
19		***	69		***
	25	3037736		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21		***	71		
22		***	72		***
23	4	19902	79		***
24	8	20469180		0	0
25	7	1100284	Miscellaneous Group		
26		***	80	12	488868
27	58	15223129	81	18	2054948
28		***	82		
29			83	6	505880
	77	36812495	84	26	1598010
Furniture, Home Furnishings and Equipment			85	5	637061
30	8	615405	86	4	***
31		***	87	15	962785
32			88	22	1307205
33	6	194457	89	39	45797126
39		***		147	53351883
	14	809862	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	74	27768611
40	4	11189957	Other Miscellaneous and Unidentifiable		
41	5	1012965	00	24	8557258
42	7	3232778	Total Taxable Sales		
49	11	1846324	401 153025057		
	27	17282024			

Source: Taxable Sales Annual Report 1980

TABLE F44

REAL TAXABLE SALES CITY OF WILLIAMSBURG 1980
(in 1991 dollars)

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	12	8166283	50		
02			51		
03			52		***
04	5	767912	53		***
09	17	8934195	54		
Automotive Group			55		***
10	5	2705893	59		
11				0	0
12		***	Fuel Group		
13	4	891514	60		
14	16	1423645	61		
19			62		
	25	5021051	69		***
Food Group				0	0
20		***	Machinery, Equipment and Supplies Group		
21		***	70		
22		***	71		
23	4	32896	72		***
24	8	33833355	79		***
25	7	1818651		0	0
26		***	Miscellaneous Group		
27	58	25162197	80	12	808046
28			81	18	3396608
29		***	82		
	77	60847099	83	6	836165
Furniture, Home Furnishings and Equipment			84	26	2641339
30	8	1017198	85	5	1052993
31		***	86	4	***
32			87	15	1591380
33	6	321417	88	22	2160669
39		***	89	39	75697729
	14	1338615		147	88184931
General Merchandise Group			Hotels, Motels, Tourist Camps, Etc.		
40	4	18495797	90	74	45898531
41	5	1674322	Other Miscellaneous and Unidentifiable		
42	7	5343435	00	24	14144228
49	11	3051775	Total Taxable Sales		
	27	28565329	401 252933979		

TABLE F45

TAXABLE SALES CITY OF WILLIAMSBURG 1991

Code	Registered Dealers	Taxable Sales	Code	Registered Dealers	Taxable Sales
Apparel Group			Lumber, Building Materials and Supply Group		
01	21	11652705	50		***
02			51		***
03			52		***
04	10	1668309	53		***
09			54		***
	31	13321014	55		***
Automotive Group			59		***
10	4	2093490		0	0
11			Fuel Group		
12			60		***
13		***	61		
14	16	1661588	62		
19		***	69		***
	20	3755078		0	0
Food Group			Machinery, Equipment and Supplies Group		
20		***	70		
21		***	71		***
22			72		***
23			79	17	979115
24	8	6465310		17	979115
25	8	771694	Miscellaneous Group		
26			80	13	1043183
27	76	35456846	81	27	6668591
28			82		
29	9	2434176	83	12	970242
	101	45128026	84	59	4165857
Furniture, Home Furnishings and Equipment			85	10	2773678
30	15	3443249	86		***
31		***	87	24	2153823
32	4	157529	88	29	711612
33	8	1799973	89	71	26004812
39		***		245	44491798
	27	5400751	Hotels, Motels, Tourist Camps, Etc.		
General Merchandise Group			90	91	98900175
40	6	10239480	Other Miscellaneous and Unidentifiable		
41	4	11650303	00	31	11646031
42	7	2104300	Total Taxable Sales		
49	23	5652592	603 253268663		
	40	29646675			

Bibliography

1. *Compendium of the Laws of the State of Virginia*, 1799. Richmond, VA: The State of Virginia, 1799.
2. *Compendium of the Laws of the State of Virginia*, 1800. Richmond, VA: The State of Virginia, 1800.
3. *Compendium of the Laws of the State of Virginia*, 1801. Richmond, VA: The State of Virginia, 1801.
4. *Compendium of the Laws of the State of Virginia*, 1802. Richmond, VA: The State of Virginia, 1802.
5. *Compendium of the Laws of the State of Virginia*, 1803. Richmond, VA: The State of Virginia, 1803.
6. *Compendium of the Laws of the State of Virginia*, 1804. Richmond, VA: The State of Virginia, 1804.
7. *Compendium of the Laws of the State of Virginia*, 1805. Richmond, VA: The State of Virginia, 1805.
8. *Compendium of the Laws of the State of Virginia*, 1806. Richmond, VA: The State of Virginia, 1806.
9. *Compendium of the Laws of the State of Virginia*, 1807. Richmond, VA: The State of Virginia, 1807.
10. *Compendium of the Laws of the State of Virginia*, 1808. Richmond, VA: The State of Virginia, 1808.

BIBLIOGRAPHY

Caroline County Comprehensive Plan Update. Caroline County Planning Commission: Caroline County, VA, 1987.

1970 Census of Population. Department of Commerce, Bureau of the Census: Washington, DC.

1980 Census of Population. Department of Commerce, Bureau of the Census: Washington, DC.

1990 Census of Population and Housing. Department of Commerce, Bureau of the Census: Washington, DC.

Comparative Report of Local Government Revenues and Expenditures. Auditor of Public Accounts: Richmond, VA, 1982.

Ibid. 1991.

Comprehensive Plan for King William County Virginia 1991. King William County Planning Department: King William County, VA, 1991.

Comprehensive Plan Gloucester County Virginia. Redman/Johnston Associates, Ltd.: Easton, MD, 1991.

Comprehensive Plan Williamsburg, Virginia 1989. The Cox Company: Charlottesville, VA, 1989.

The County of York Comprehensive Plan. York County Planning Department: York County, VA, 1991.

Draft Comprehensive Land Use Plan New Kent County 1991. Richmond Regional Planning District Commission Staff: Richmond, VA, 1991.

Draft Comprehensive Plan 1993 The County of Louisa, Virginia. Louisa County Comprehensive Plan Committee: Louisa County, VA; and The Cox Company: Charlottesville, VA, 1993.

Hanover County Virginia Comprehensive Plan Update. Hanover County Planning Department: Hanover County, VA, 1991.

1991 James City County Comprehensive Plan. James City County Planning Department: James City County, VA, 1991.

King and Queen County Comprehensive Plan 1990. King and Queen County Planning Commission: King and Queen County, VA; and The Cox Company: Charlottesville, VA, 1990.

Orange County Comprehensive Plan. Orange County Planning Commission: Orange County, VA, 1990.

Spotsylvania County Comprehensive Plan. Spotsylvania Planning Commission: Spotsylvania County, VA, 1987.

Taxable Sales In Virginia Counties and Cities Based on Retail Sales Tax Revenues Annual Report 1980. Virginia Department of Taxation, Richmond, VA, 1981.

Taxable Sales In Virginia Counties and Cities Based on Retail Sales Tax Revenues Annual Report 1991. Virginia Department of Taxation, Richmond, VA, 1992.

U.S. Department of Commerce, Bureau of Economic Analysis: Washington, DC.

Virginia Employment Commission: Richmond, VA.

Virginia Statistical Abstract. Center for Public Service: University of Virginia, Charlottesville, VA, 1987.

Ibid. 1989.

Ibid. 1992.