### ECONOMIC & HOUSING PROJECTIONS CITY OF DOVER

August, 1987

Prepared for: City of Dover Planning Dept.

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1480



#### INTRODUCTION

The purpose of this interim report is to provide a series of baseline projections of regional and local employment, housing and population. These projections are used to assess Dover's potential industrial, office, retail and residential development. The assumptions used in the projections are subject to modification based on new information developed during the course of the study.

This report provides a series of projections based on the following steps:

- 1) Project regional and market area employment growth by industry based on statewide projections and regional shares of growth which reflect the region's competitive strengths in particular industries;
- Estimate local employment for the city of Dover based on its expected shares of market area employment growth, by industry;
- 3) Utilize the local employment projections to provide an estimate of land consumption in the city of Dover for industrial and office uses;
- 4) Project market area population based on anticipated employment growth and assuming a continuation of commuter trends;
- 5) Based on the area population projections and demographic trends in average household size, estimate household growth for the Seacoast market:
- 6) Project the proportion of household growth in home ownership versus rental tenure, based on demographic shifts in age groups;
- 7) Estimate total housing needs based on providing an adequate number of housing units for household growth, to an adequate reserve of vacant units to, and for the replacement of housing units lost by conversion, demolition, fire and other causes;
- 8) Calibrate the regional housing projection model to the actual change in housing units (1980 to 1987) for the market area;
- 9) Estimate conservative and aggressive shares of ownership and rental growth for the city of Dover; calibrate the model to reflect the city's recent share of ownership and rental activity;
- 10) Project the city of Dover population based on the high and low growth scenarios in housing and based on the



expected mix of housing units; and

11) Utilize the projections of regional and local population to determine supportable local retail activity, and estimates of per capita income to determine supportable local retail activity.

These projections assume regional population and housing growth to be primarily a function of employment growth within the Seacoast area. Note that Dover's future population is projected based on its share of regional housing activity and the mix of housing types in the city.

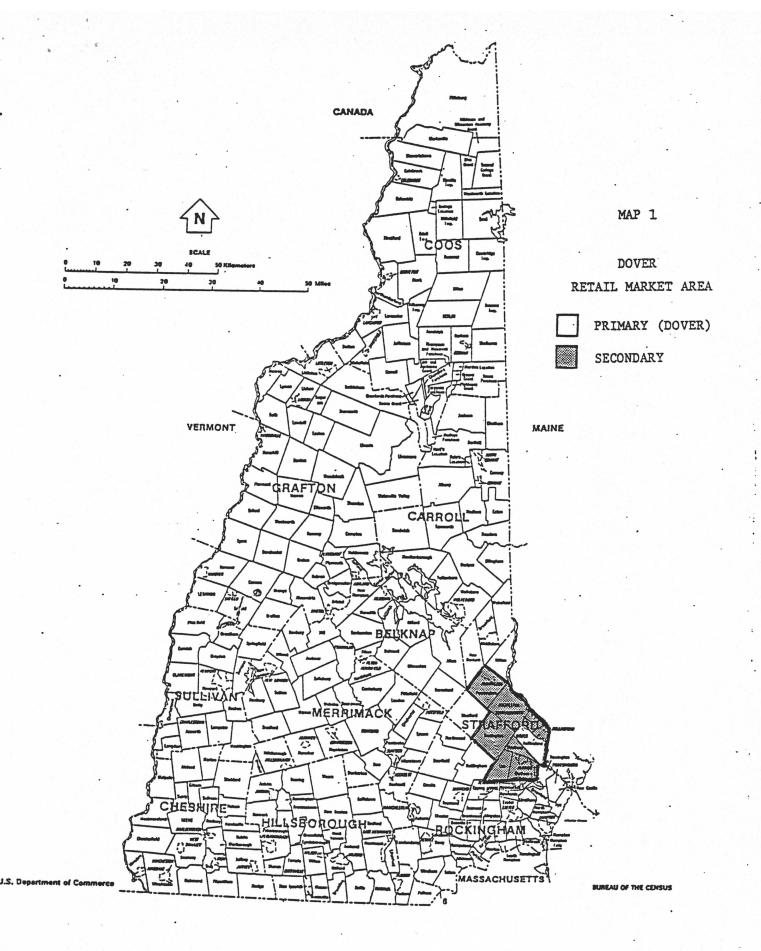


TABLE 1.
STATE AND REGIONAL EMPLOYMENT GROWTH

	ENPL	ENPLOYMENT FROJECTION							
	EMPLOYNENT STATE OF NH	ANNUAL	ENPLOYMENT STATE OF NH	CHANGE IN EMPLOYMENT	STRAFF/ ROCK, CTY SHARE OF	STRAFF/ ROCKINGHAM GROWIN	STAMFFORD/ROCI	STRAFFURD/ROCKINGHAM ERPLOYNENT	•
	1463	6FOKTH(1)	1955	1965-1595	GROWIN	1565-1995	1985	1995	CHANSE
MANUFACTURING	120010	3.71	164362	44352	14.32	6341	25564	31925	24.61
DUKABLE 6000S	77165	4.61	114015	36850	14.51	5346	15545	20851	27.52
Prisary & Fabric. Metals Rechinery Exc. Electrical	10676	3.51	14640	4164	20.01	633	2218	3051	37.51
Electrical Products/Instrusents	26224	4.61	41772	13548	14.87	8952	4514	7363	50.21
Uner purables	11629	2.11	14313	2464	22.51	260	2461	3041	25.62
NON-DURKELE BOODS	42645	1.61	50347	7502	13.32	\$85	10039	11034	15
Tentile & Apparel	0099	. 17.	7062	462	-30.0%	-110	***		
leather & leather Cont.	14705	2.01	17646	2941	33.21	925	2001	2673	-30.81
Rubber & Flastics	4350	-2.41	3306	-1044	10.63	-667	1850	1003	79.05
Other Non-Durables	7052	76.7	11976	2652	35.01	642	4253	5155	22.22
		31.6	10397	2451	4.21	102	1445	1547	7.17
NOW-MANUF ACTUKING	270407	3.31	360312	\$6560	28.71	25758	76712	86470	77.47
TRANS., CORM., UTILITIES	15640	2.11	18924	3284	70.89	2116	600		
Flucture the sun pray record	110324	3.61	152247	41923	30.71	12877	2176	1551	10.01
SECULTS AND AND ARM ESTRIE	25023	4.31	35783	10760	27.31	2637	6773	71764	24.61
OTHER	18181	3.51	120408	31217	73.71	7246	1,000	9900	20.20
	20528	15.	32950	2721	20.72	263	8618	9161	38.32 A 57
GOVERNMENT	20599	2.11	98069	12179	38.41	1680	24722	26402	
FEDERAL STATE/LOCAL	7583	1.11	8417	834	E5.0X	709	7455	1110	
	67CL6	2.31	69909	11345	35.62	3971	13261	21238	23.01
TOTAL EMPLOYNENT	447324	3.31	983760	146436	25.11	36778	121018	157796	30.42

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TABLE 2.

PROJECTION OF MARKET AREA EMPLOYMENT

(METRO AREA)

PORTSMOUTH-DOVER-KOCHESTER MSA (NH PORTION)

Annual 1985-95	418	345	73	1826	50	813 429	268	19	2513
Average 1980-85	-664			1751			275		1422
Change in Employment 1980-85 1985-95	4185	3453	732	18265	820	8134 4254 4987	2685	194	25134
Change in 1980-85	-3018	1	i	8753	-		1374		7109
1995	21734	13608	8126	58315	2922	28572 8814 18007	15559	13320	95607
Estinated Avg. Annual Growth Rate	2.41	3.4%	1.0%	4.6%	4.1%	4.01 9.51 3.81	2.1%	1.0%	2.3%
1985	17549	10155	7354	40050	2072	20438 4520 13020	12874	2045 10829	70473
1980	20567		!	31297	1		11500	1650	63364
INDUSTRY CATEGORY	MANUF ACTUR 1 NG	DURABLE GOODS	NON-DURABLE GOODS	NON-MANUFACTURING	TRANS., COMM., UTILITIES	FINANCE, INS. AND REAL ESTATE SERVICES & OTHER	GOVERNMENT	FEDERAL State/Local	TOTAL EMPLOYKENT



TABLE 3.

CITY EMPLOYMENT

PROJECTION 1

(CONTINUATION OF RECENT TRENDS)

CIIY OF DOVER EMPLOYMENT PAST AND PROJECTED

SCENARIO 1

1980-85 1985-1995

	1985-95	76	69	7	596	9	163	279	125	-	•	<b>~</b>	577
Acceptance	1980-85	-1	!		399	69	104	12	214	=	c	3.0	434
Change in Fanlovaent	1985-95	764	169	73	5962	297	1627	2791	1247	9	-	37	9929
Change in	1980-85	-34	!		1997	347	518	09	1072	206	4	165	2169
Projected	Share	18.31	20.0%	10.01	32.6%	35.01	20.01	65.0%	25.01	15.0%	15.0%	15.01	26.91
Share Of	Metro Change	1.1%		1	22.81	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 5 5 6	15.0%	8	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30.5%
	1985	3870			6925	522	3325	480	8467	2823	376	2447	13618
•	1980	3904	1		4928	175	2807	420	9701	2617	335	2282	11449
	INDUSTRY CATEBORY	MANUFACTURING	DURABLE GOODS	NON-DURABLE GOODS	NON-MANUFACTURING	TRANS., COMM., UTILITIES	FINANCE INC AND REAL CETATE	SERVICES & OTHER		GOVERNKENT	FEDERAL	SIAIE/LOCAL	TOTAL EMPLOYMENT

TABLE 4.

CITY EMPLOYMENT

### PROJECTION 2

# (INCREASED SHARE OF METRO EMPLOYMENT GROWTH)

SCENARIO 2			1980-85	1985-1995				
INDUSTRY CATEGORY	1980	1985	Share Of Metro Change	Projected Share	Change in Employment 1980-85 1985-95	aployment 1985-95	Average 1980-85	Annual 1985-95
MANUFACTURING	3904	3870	1.17	23.31	-34	973	-	16
DURABLE GOODS	1	1	. 1	25.0%	1	863		98
NON-DURABLE 600DS	1	1	•	15.0%	9 8 8	110		11
NON-MANUFACTURING	4928	6925	22.81	40.0%	1997	7305	359	730
TRANS., CONM., UTILITIES	175	522	2 8 8	40.0%	347	340	69	35
IRADE FINANCE, INS. AND REAL ESTATE	2807	3325		25.0%	518	2034	104	203
SERVICES & OTHER	1526	2598	1	30.0%	1072	1496	214	150
GOVERNMENT	2617	2823	15.0%	20.01	206	54	#	S
FEDERAL STATE/LOCAL	335	376		20.0%	41	<b>7</b> 05	33	010
TOTAL EMPLOYMENT	11449	13618	30.5%	33.1%	2169	8331	434	833

#### POPULATION AND HOUSING GROWTH

Table 5 illustrates recent and projected regional growth in employment, population, households and total housing stock. This model has been calibrated to account for the approximately 10,500 units added by permits issued in the 1980 to 1986 calendar years. By this model, we estimate that The Metro Area total housing stock will grow by nearly 16,000 units over the next eight years, or roughly 2,000 units per year.

Significant shifts occurring within the housing market indicate that:

- 1) The average number of persons per household is declining, but at a slower rate than it did in the 1970s;
- 2) Demographically, growth by age group will place more households within the age and income categories most strongly oriented toward home ownership versus rental tenure. This suggests an increasing development emphasis on ownership housing products, especially single family dwellings; and
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  yestal units? 3) Due to demographics and to the Tax Reform Act of 1986, overall production of rental housing is likely to decline as a share of overall activity.

Table 6 illustrates our estimate of Dover's share of housing activity for the 1980 to 1987 period and for 1987 to 1995. Based on our analysis of regional growth patterns, Dover appears to have been absorbing approximately 15 percent of overall housing activity. While Dover has had a strong orientation toward rental housing, it has more recently shown a stronger market potential for home ownership and condominium units.

For the projection period of the next eight years (Table 6) assuming the recent trends in its share of regional growth, the city would need to accommodate approximately 2,400 additional housing units over the next eight years, or an average annual absorption of approximately 300 households annually. This table assumes that trends of the recent past would continue, with approximately 60 percent of ownership units in single family detached housing, and a 40 percent condominium share.

Table 7 illustrates a higher growth scenario for Dover, based on a continued 20 percent share of rental housing growth, but a significant increase in the city's capture of home ownership units, accompanied by a shift toward a higher proportion of condominium ownership at 60 percent (rather than the 40 percent) within the city assumed in Table 6.

Assuming Dover captured 25 percent of the overall ownership market and 20 percent of the rental market, the city would need to accommodate nearly 4,000 housing units over the next eight years, or approximately 500 per

Dover currently has over 3,000 units of housing in accepted, approved or proposed developments. Approximately 3/4 of these units are in single family attached (condominium) units and 25 percent in single family

TABLE 5.

GROWTH IN MARKET AREA POPULATION,
HOUSEHOLDS AND HOUSING STOCK

file: dovfutr	PORTSHOUTH	I DOVER RO	CHESTER M	<i>تند</i> (NH PORTION)	ly just this account in	table (.
	1980	1985	1987	1995	1980-87	1987-95
EMPLOYMENT	63364	70500	76000	95600	12636	19600
POPULATION	148927	159400	169900	200000	. 20973	30100
Persons/Job	2.35	2.26	2.24	2.09		
HOUSEHOLDS Persons Per	52600	56929	61558	76923	. 8958	15365
Household .	2.83	2.80	2.76	2.60		
Homeowner Z	61.07	61.52	62.0%	64.0%	. 63.77	71.4%
Renter I	39.02	38.5%	38.07	36.07	36.32	28.6%
Homeowners	32095	35011	38166	49231	6071	11065
Vacancy Reserve Replacement	321	700	763	985		
Total Ownership Stock	32416	210 35921	229 39158	295 50511	6742	11353
Renters	20504	21918	23392	27692	2888	4300
Vacancy Reserve	410	1096	1170	1385	2000	1000
Replacement	•••	175	187	222		
Total Rental Stock	20914	23189	24749	29298	3835	4550
Total Housing Need	53330	59110	63907	79809	10577	15902

TABLE 6.

DOVER HOUSING AND POPULATION GROWTH

#### PROJECTION 1

CITY OF DOVER HOUSING GROWTH: SCENARIO 1 RECENT TRENDS IN CAPTURE RATE & HOUSING MIX

		Share Of			Share Of			
		Growth		Growth	Growth		Growth	
	1980	1980-87	1987	1980-87	1987-95	1995	1987-95	
Homeowner Units	4470	13.02	5346	876	13.02	6822	1476	
Single Family Detached	3505		4031	526		4916	885	
Condominium & 2+ Family	965		1533	568		2123	590	74
Rental Units	4260	20.07	5027	767	20.02	5937	910	114
Total Year-Round Units	8730	15.5%	10373	1643	15.02	12759	2386	
CITY OF DOVER POPULATION GROWTH	1980	1987	1995					
Persons Per Household					2 there	05	P	
Owner Occupied	3.00	2.90	2.82	ne	2 100			
Renter Occupied	2.18	2.15	2.15	~				
Total	2.87	2.59	2.49	Chang	e in Population			
				198	0-87 1987-95			
Population In Occupied Units								
Owner	13286	15040	18662		1754 3622			
Renter	8615	10484	12381		1869 1898			
Other	476	555	675		79 120			
Total Population	22377	26078	31718		3701 5640	•		

TABLE 7.

#### DOVER HOUSING AND POPULATION GROWTH PROJECTION 2

CITY OF DOVER HOUSING GROWTH: SCENARIO 2 INCREASED SHARE OF REGIONAL HOUSING ACTIVITY

			Jimite VI	WEDIGHNE	טאנכטטוו	HCITATII		
		Share Of				Share Of		
		Growth		Growth		Growth		Growth
	1980	1980-87	1987	1980-87		1987-95	1995	1987-95
Homeowner Units	4470	13.0%	5346	876		25.0%	8185	2838
Single Family Detached	3505		4031	526	•	20.02	5166	
Condominium & 2+ Family	965		1533	548			3236	1135 1703
Rental Units	. 4260	20.02	5027	767		20.02	5937	910
Total Year-Round Units							0.07	,10
rotal rear-nound units	8730	15.5%	10373	1643		23.6%	14122	3748
CITY OF DOVER POPULATION GROWTH	1980	1987	1995					
Persons Per Household								
Owner Occupied	3.00	2.90	2.82					
Renter Occupied	2.18	2.15	2.15					
Total	2.67	2.59	2.52	Ch		Population		
			2.02		.980-87			
Population In Occupied Units					700-07	1987-95		
Owner	13286	15040	22388		1751	7710		
Renter	8615	10484	12381		1754	7349		
Other	476	555	756		1869 79	1898 201		
Total Population	22377	26078	35525		3701	9447		

detached housing and subdivision lots. The amount of multi-family approved and proposed units is negligible at the present time.

It must be recognized that housing tenure will not strictly follow inventory type in the housing market. That is, renters may occupy a significant share of single family, and condominium attached units. Garden-style condominiums, on the other hand, provide an opportunity for home ownership tenure in multi-family dwellings.

If the overall market shifts toward a demand for a single family detached product, and should an over-supply of condominium units in the Seacoast market emerge, actual absorption of households in Dover may not reflect the mix of units currently proposed to the city. If demand is high for single family detached homes on scattered sites throughout the city, single family units may be absorbed first, and in a decentralized pattern. If the market remains strong for condominium housing, a more concentrated pattern of development with somewhat lower population implications would emerge.

The population projections for Dover are based on the estimated number of persons per household in occupied units estimated separately for owner and rental tenure. In Tables 6 and 7, the range of year-round housing growth in Dover is anticipated to be in a range of 300 to 500 units per year (growth potential), while the range in population growth under the two assumptions is approximately 700 to 1,200 persons per year.

Dover's 1995 population, as projected by this model, would be in a range of 32,000 to 36,000 persons. These population assumptions have been incorporated into the retail projections which follow in the next section.

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#### RETAIL PROJECTIONS

Our analysis of retail sales trends, set forth in our prior report, revealed that between 1972 and 1982 Dover lost a significant share of the region's total retail sales, primarily because of a declining share of shoppers' goods (items typically purchased in department stores) sales, as performance in the convenience goods categories were more consistent with its past performance and its role in the regional economy.

This report expands that prior analysis by estimating current retail sales and projecting future retail sales under two assumptions. Projections are detailed for shoppers' goods and convenience goods type merchandise and are estimated on a more general basis for "other retail" categories. It is important that two concepts be clearly understood:

Retail Sales. This is the amount of merchandise sold in the city of Dover; and

Expenditure Potential. This is the amount of merchandise purchased by residents of Dover and the secondary market area.

To the extent that sales are greater than the expenditure potential, on an overall basis sales are flowing into the city. If the expenditure potential is greater than sales, sales are flowing out of the city.

Dover's merchants compete in an extremely competitive environment. Newington's merchants offer an extensive array of merchandise in very convenient (if conventional) shopping centers. Downtown Portsmouth merchants provide a wide variety of specialized merchandise in an especially strong concentration of quality restaurants. Finally, metropolitan Boston's extensive array of retailing is within striking distance of the Dover market.

It is because of this competitive context that Dover's retailers are not garnering their full share of resident expenditure potentials. A significant, and growing outflow of retail sales (especially shoppers' goods sales) expenditure potential is occurring. Our estimates have been calibrated to coincide with the Census of Retail Trade, the most accurate indicator of retail sales in New Hampshire. Our analysis indicates that with respect to shoppers' goods type merchandise:

Dover continues to function as a satelite shoppers' goods center. In 1982, its shoppers' goods sales of \$27 million were greater than the shoppers' goods expenditures of city residents.

Its role as a shoppers' goods center, however, is very weak when the market potentials offered by its surrounding communities (the secondary market area) are considered.

On an overall basis, our estimates indicate that Dover's shoppers' goods merchants are capturing only 40 percent of the city's residents' shoppers' goods expenditures, and only 15 percent of the shoppers' goods expenditures of its surrounding communities.

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Our analysis indicates that the city's shoppers' goods merchants market capture has declined precipitously since 1980. Our estimates indicate that in 1980 the city's shoppers' goods merchants were capturing 65 percent of the city's residents' shoppers' goods expenditures. By 1985, this capture rate declined to 40 percent, primarily in response to the opening of the Fox Run Mall in Newington.

Because convenience goods sales tend to stick closer to shoppers' residences, and because the city has experienced a significant increase of slightly over 70,000 square feet in new grocery store space since 1982, a different situation exists with respect to convenience goods. Our estimates indicate that:

The city is currently capturing about 85 percent of the resident convenience goods expenditure potential and 30 percent of the potential in its secondary market.

Its capture rate of both city and secondary market expenditure potentials has increased since 1982, primarily as a result of the substantial growth in the inventory of space.

Our analysis of future activity indicates that there is adequate growth within Dover and its surrounding communities to support a significant increase in the amount of retail space located in the city during the next 10 years. What is not so clear is whether or not that space will choose to locate in Dover or whether it will gravitate toward other communities (as has occurred for shoppers' goods space in the recent past).

We have prepared two scenarios for shoppers' goods and convenience goods projections, which are summarized in Tables 8 through 12 on the following pages. Major assumptions structuring these scenarios are:

Lower Growth Scenario. The city's 1995 population will be 32,000, its capture rates will remain at 1985 levels, and the amount of inflow sales (sales to residents of communities outside the primary and secondary market area) will remain at 1985 levels through the year 1995.

Higher Growth Scenario. The city's 1995 population will be 36,000, its capture rate of shoppers' goods sales expenditure of both primary and secondary market area residents will reverse past trends and will increase, and its attraction of inflow sales will increase.

In both scenarios, we have projected future income growth at a real (apart from inflation) rate of 1.5 percent per year.

Under the Lower Growth Scenario, Dover would add just under 330,000 square feet of new retail space during the projection period. Under the Higher Growth Scenario, the city would add 500,000 square feet of new retail space. While this range is considerable, we believe it is an appropriate



reflection of Dover's opportunities. Much of the difference in the projection lies within the shoppers' goods category. The Higher Growth Scenario effectively assumes that Dover will consciously direct its efforts to regain its former role as a strong shoppers' goods center by strengthening its downtown and actively encouraging the development of at least one major (200,000 square feet or more) shopping center during the next decade. It is our view that market conditions are right for Dover to realize such an opportunity provided an appropriate site can be identified in subsequent phases of this analysis.

Our first phase report, which analyzed retail trends, pointed out a sharp decline in Dover's regional retail role, in the face of its continuing strong performance in the region's housing and employment markets. These projections reveal that there is adequate market support for Dover to regain some of its market share during the next decade.

#### DOVER SHOPPERS GOODS TRENDS AND PROJECTIONS LOYER GEOVIN SCENARIO

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DEDGOALL THUMP	**********			
	1380			
Population				
Primary Market	22,377	22,833	23,517	32,000
Secondary Karket	59,451	61,171	63,750	
Total				108,520
Per Capita Income				
Primary Market	17,445	\$8,815	411.275	\$13,085
Secondary Karket	\$6,942	\$8,074	\$10,267	
Total	\$7,080	\$8,275		
Total Personal Income(\$000) Primary Market	41CC 507	1201,273	121 2204	4419 797
Secondary Market		\$493,895		
	•••••	•••••		
Total		1605,168		
HARKET SALES POTENTIAL				
Percent of Income	10.00%			
Expenditures (\$000)	•			
	\$16,660	120,127	\$26,515	\$41,872
Secondary Market	\$41,271	\$49,389		
Total	\$57,931	\$69,517	191,968	
DOVER SALES POTENTIAL				
Capture Rates	******	******	*****	********
Primary Market	65.001	55.00%	40.00%	40 004
Secondary Market		21.34%		
Salas to Lace Desidents				
Sales to Area Residents Primary Harket(\$000)	\$10,823	£11 070	410 606	116 749
Secondary Market(1000)	\$11,556	\$10,540	\$3,818	\$13,676
B. ( ) (14444)		•••••		
Total (\$000)	\$22,385	\$21,610	\$20,424	130,425
Inflow Sales				
Percent of Sales	20.001			
Dollars (\$000)	\$5,596	\$5,402	\$3,604 :	\$5,383
Total Sales	\$27,981	127.012		
******	4	10.1010	********	4001101
SUPPORTABLE SQUARE FEET	******	••••••	••••••	*******
Required Sales per Square Foot	\$100	\$110	\$125	\$125
Supportable Square Feet	279,803	245,565	192,225	286,356



#### DOVER SHOPPERS GOODS TRENDS AND PROJECTIONS HIGHER GROWTH SCENARIO

Disk: RUSSAT File:dovshopl PERSONAL INCOME 1980 1982 . 1985 1995 Population Primary Market 22,377 22,833 23,517 36,000 Secondary Harket 59,451 61,171 63,750 76,520 Total 81.328 84,004 87,257 112,520 Per Capita Income Primary Market \$7,445 \$8,815 \$11,275 \$13,085 Secondary Market \$5,942 \$8,074 \$10,267 \$11,915 Total \$7,080 \$8,275 \$10,539 \$12,290 Total Personal Income(\$000) Primary Harket \$166,597 \$201,273 \$265,154 \$471,064 Secondary Market \$412,709 \$493,895 \$654,521 \$911,757 ••••• -----Total \$579,306 \$695,168 \$919,675 \$1,382,820 · HARRET SALES POTENTIAL . Percent of Income 10.00% 10.00% 10.00% 10.00% Expenditures (\$000) Primary Market \$16,660 \$20,127 \$26,515 \$47,106 Secondary Market \$41,271 \$49,389 \$65,452 \$91,176 \*\*\*\*\*\* Total \$57,931 \$69,517 \$91,968 DOVER SALES POTENTIAL . Capture Rates Primary Market 65.00% 55.00% 40.00X 45.00X . Secondary Market 28.00% 21.34% 15.00% 20.00X Sales to Area Residents Primary Harket(\$000) \$10,829 \$11,070 \$10,606 \$21,198 Secondary Market (\$000) \$11,556 \$10,540 \$9,818 \$18,235 -----Total (\$000) \$22.385 \$21,610 \$20,424 139.433 Inflow Sales Percent of Sales 20.00% 20.00% 15.00% 20.00% · Dollars (\$000) \$5,596 \$5,402 \$3,504 \$9,858 \*\*\*\*\*\*\*\* -----Total Sales \$27,981 \$27,012 \$24,028 \$49.291 SUPPORTABLE SQUARE FERT Required Sales per Square Foot \$100 \$110 \$125 \$125 Supportable Square Feet 279,308 245,565 192,225



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#### DOVER CONVENIENCE COODS TRENDS AND PROJECTIONS LOVER GROWTH SCENARIO

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PERSONAL INCOME				
Population	1980	1982	1985	1995
Primary Market	44 144		40 71	
Secondary Market	22,377 59,451	61,171	63,750	76,520
Total	81,828			108,520
Per Capita Income				
. Prisary Market	17,445	18,315	\$11,275	113,085
Secondary Market	16,312	18,074		\$11,915
Total	\$7,080			\$12,260
Total Personal Income(1000)				
Prisary Market				1418,723
Secondary Market	1112,709	1493,895		\$911,757
Total	1579,306	1695,168	1919,675	\$1,330,480
	*********	••••••	••••••	••••••
MARKET SALES POTENTIAL	•••••	**********		••••••
Percent of Income	17.001	17.00I	17.00X	17.00I
Expenditures (1000) Primary Market	400 301			
Secondary Market	128,321		\$45,076	
Secondary narrec	110,101	\$83,962	1111,269	1154,999
Total	\$98,482	\$118,178	1156,345	1225,182
DOVER SALES POTENTIAL	•••••			•••••
Capture Rates				
Primary Market	200.08	80.00I	\$5.00X	85.00X
Secondary Market	20.001	22.191	30.00I	30.00T
Sales to Area Residents				
Primary Harket(1000) Secondary Harket(1000)		127,373		
recountly warrer(1000)	114,032	118,556	133,381	\$46,500
Total (1000)	135,689	\$45,929	171,695	\$107,005
Inflow Sales				
Percent of Sales	10.00T	10.001	15.00Y	15.00x
Dollars (1000)	\$4,077	\$5,103	112,652	118,383
Total Sales	440 755	461 439	********	
••••••••	110,100	151,032	101,141	1173,888
SUPPORTABLE SQUARE FEET		••••••	•••••	•••••
Required Sales per Square Foot		1210	1225	1225
Supportable Square Feet	203,329	213,009	374,878	559,504

#### DOVER CONVENIENCE COODS TRENDS AND PROJECTIONS

8/19/1987

Dist: compac appr2 File:dovcomvl				
PERSONAL INCOME				
		1982		
Population				
Primary Market		. 22,333		
Secondary Market	59,451		63,750	
Total		81,001		
Per Capita Income				
Primary Market	17,445		111,275	113,085
Secondary Market	\$6,942	18,074	\$10,267	
Total	\$7,080		110,539	
Total Personal Income(1000)				
Primary Market	1166,597	1201,273	1265,154	- 1471,064
Secondary Market	1412,709	1493,895	1854,521	1911,757
Total	1579,306			11,382,820
MARKET SALES POTENTIAL				
Percent of Income		17.001	17.001	17.001
Expenditures (1000)				
Primary Harket	128,321	134,216	\$45,078	180,081
Secondary Market	\$70,161	\$83,362		
Total ·	\$98, (82	\$118,178		
DOVER SALES POTENTIAL	•••••	••••••	••••••	•••••
Capture Rates				
Primary Market	80.00I	80.00T	25.00X	85.00X
Secondary Market	20.001	22.10%	30.00%	30.001
Sales to Area Residents				
Primary Market(1000)	122,657	127,373	138,315	168,069
Secondary Market(1000)	111,032	\$18,556	133,381	
Total (1000)	136,689	\$45,929	171,695	
Inflow Sales				
Percent of Sales	10.001	10.00X	15.00X	
Dollars (1000)	14,077	15,103	\$12,552	120,218
	*******	*******	********	
Total Sales		151,032		
SUPPORTABLE SQUARE FEET				
Required Sales per Square Foot	1200	1210	1225	1225
Supportable Square Feet	203,829	243,009	374,878	

#### LAND ABSORPTION

Table 12 summarizes the various components of projected development by type of land use. No assumptions are made in this table regarding the potential absorption of space within existing structures. Dover's principal constraint in industrial growth has been an absence of available appropriately zoned land served by public utilities. Table 12 is based on the previously explained assumptions about Dover's potential capture of employment and housing growth without specific assumptions of current land availability.

For the purpose of initial projections, land consumption for housing was estimated at an average gross density of 1.5 units per acre for detached single family, 3 units per acre for condominiums, and 6 units per acre for rental housing. According to an inventory of developed land from the 1970 Master Plan and an inventory developed by the City Planning Department in March of 1987, the actual gross land consumption for residential development has been much higher than these averages. The change in developed residential acreage since 1970 has been approximately 5,500 acres according to these sources. During the period represented, approximately 3,200 units were developed, or approximately 1.7 acres per unit added. Overall, single family detached development consumed an average of 4 acres per unit gross land area, while multi-family consumed about .3 acres per unit.

For manufacturing space, we assumed an average of 500 square feet per employee projected, and a land coverage ratio of 20 percent. Office space was estimated at 250 square feet per office employee, and at a 20 percent land coverage ratio. The finance and insurance office category was adjusted, based on the Liberty Mutual proposal, to an average of 300 square feet per employee and a 10 percent coverage ratio.

It should be noted that certain types of development, in securing space for future expansion or to present a certain image, will wish to control far more land than is physically needed to support the development at hand. As such, the actual land consumption for particular uses may vary significantly from these projections.

Overall, the acreage which might be involved in the absorption of growth as projected in models in this report suggest a demand on land for between 1,200 and 1,800 acres in the city of Dover over the next eight years. Approximately 75 to 80 percent of the land consumption in this scenario would be for residential growth, while 20 to 25 percent of the acreage acquired would be in non-residential categories of industrial, office and retail development.



TABLE 12.

SPATIAL NEEDS OF PROJECTED GROWTH TO 1995
City of Dover

Land Use	Square Low	Feet High	Land 1	In Acres High
INDUSTRIAL	440,000	560,000	50	70
Manufacturing	380,000	490,000	45	60
Other	60,000	70,000	5	10
OFFICE Finance, Insurance	1,080,000	1,170,000	200	260
and Real Estate	960,000	1,030,000	190	240
Other	120,000	140,000	10	20
RETAIL	329,000	500,000	35	60
Shoppers Goods	94,000	200,000	10	20
Convenience	185,000	225,000	20	. 30
Other	50,000	75,000	5	10
	(Housing	Units)		•
HOUSING	2,400	3,700	950	1,450
Single Family Det.	900	1,100	600	733
Condominium	600	1,700	200	567
Rental	900	900	150	150

Total Land Consumption 1,235 1,840



101 Pour

#### First & Months 1987

	뭐 하네 걸. 그는 내가 그리고를 맞다면 하셨다는 것이 하다. 그는					
		CITY	OF DOVER	HETRO	AREA	Dover Share Single Family
	Price Range	Number	Percent	Number	Percent	Sales Activity
935000	Under \$100,000	27	27.32	. 189	27.12	14.32
July John	\$100,000-\$125,000	32	32.32	145	20.82	22.11
10,000 of 1000	\$125,000-\$150,000	16	16.27	128	18.37	12.5%
A C	S\$150,000-\$200,000	12	12.17	139	19.92	3.62
401	\$200,000 and Over	12	12.17	97	13.92	12.47
4	Total	99	100.02	698	100.02	14.22
9180,32	Average Price		\$135,024		\$140,918	
Down Krang And	Median Price		\$120,000		\$126,200	
I DAY OF						

#### SALES OF NEW CONDOMINIUM UNITS

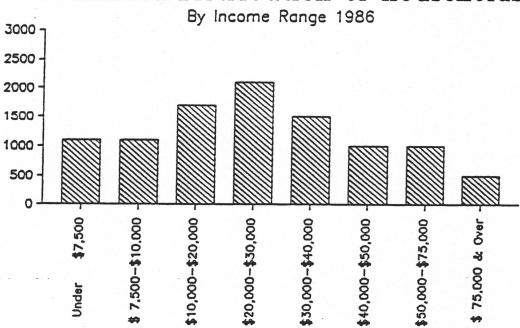
January 1986 Through June 1987

	CITY O	F DOVER	METRO	AREA	Dover Share New Condominium
Price Range	Number	Percent	Number	Percent	Sales Activity
Under \$75,000	72	47.12	397	29.11	18.17
\$ 75,000-\$100,000	69	45.17	580	42.62	11.97
\$100,000-\$125,000	4	2.62	150	11.07	2.71
\$125,000-\$150,000	3	2.01	72	5.31	4.21
\$150,000-\$200,000	3	2.02	97	7.17	3.12
\$200,000 and Over	2	1.37	66	4.82	3.01
Total	153	100.02	1362	100.07	11.22
Estimated Median Price	•••	\$80,000		\$117,000	

Source of Condominium Sales Data: AER, Inc. compilation of original sales from developer to buyer extracted from Real Data, Inc. listings of property transfers recorded by County



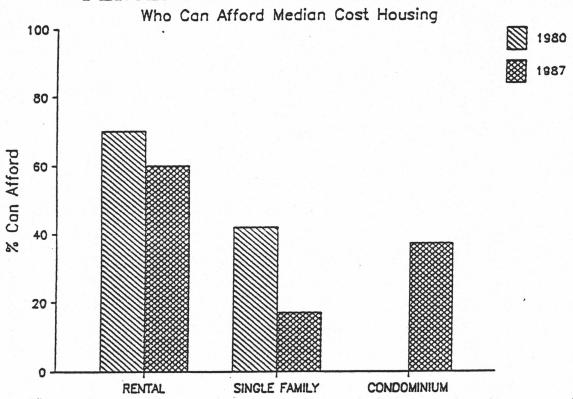
#### Estimated Distribution of Households



City of Dover



#### PERCENT OF DOVER HOUSEHOLDS





# STEAFFORD REGIONAL FLANNING COMMISSION EMPLOYER SURVEY

.....

FEBRUARY 1965

TOTAL

MINIKAL

SIGNIFICAL TO-AVERAGE

LOCATIONAL DECISION CALTERIA: RELATIVE INFORTANCE

FEBRUARY 1985

•

100.01 100.02 100.03 100.04 100.04 100.04 100.04 100.04 100.04 100.04 100.04

14.34 20.05 20.06 30.37 20.37 20.54

51.47 42.97 3.44 24.27 12.54 12.55 12.55 25.07 25.07 25.74 25.74 25.74 25.74 26.74 26.04

AVAIL OCEAN SHIFFING

46.72 56.32 46.02 40.02

INDUSTRIAL SENAGE DISPOSAL INDUSTRIAL KATER SUFPLY SOLID MASTE DISPOSAL OTHER UTILITIES DIMER COMMUNITY SERVICES

34.34 5.94 45.54 50.00 21.91

MAJOR HISHWAY LOCATION
AVAIL CONTRACT TRUCKING
SCHEDULED KAIL SERVICE
SCHEDULED KIR FEEIGHT
SCHEDULED AIR FASS SERVICE

35	35	2	33	2	32	28	30	32	=	01
•	•	•	~	123	<b>M</b>		•	n	24	25
	1	36	01	12	21	<b>a</b>	•	1	-	-
12	13	2	15	16	1	13	14	90	•	-
	15	-	<b>CD</b>	•	-	1	=======================================	1	2	~
NAJOR HIGHWAY LOCATION	AVAIL CONTRACT TRUCKING	SCHEDULED EAST SERVICE	SCHEDULED AIR FREIGHT	SCHEDULED AIR PASS SERVICE	AVAIL OCEAN SHIFFING	INDUSTRIAL SEVAGE DISPOSAL	INDUSTRIAL MATER SUPPLY	SOLID KASTE DISPUSAL	DIHER UTILITIES	GIHER CONKUNITY SERVICES
	DAJOR HIGHWAY LOCATION 18 12 5 0 35	ANJOR MIGHMAN LOCATION 18 12 5 0 35 AVAIL CONTRACT TRUCKING 15 13 7 0 55	ANJOR MIGHMAY LOCATION 18 12 5 0 35 AVAIL CONTRACT TRUCKING 15 13 7 0 55 SCHEDULED KAIL SERVICE 1 2 26 6 29	ANJOR WIGHWAY LOCATION 18 12 5 0 35 AVAIL CONTRACT TRUCKING 15 13 7 0 55 SCHEDULED KAIL SERVICE 1 2 26 6 29 SCHEDULED AIR FREIGHT 8 15 10 2 33	6470G WIGHWAY LOCATION     18     12     5     0     35       6471 CONTRACT TRUCKING     15     13     7     0     55       56.FEDULED KAIL SERVICE     1     2     26     6     29       56.FEDULED AIR FREIGHT     8     15     10     2     33       56.FEDULED AIR FRES SERVICE     4     16     12     3     32	6470G WIGHWAY LOCATION     18     12     5     0     35       6471L CONTRACT TRUCKING     15     13     7     0     55       56.FEDULED KAIL SERVICE     1     2     26     6     29       56.FEDULED AIR FREIGHT     8     15     10     2     33       56.FEDULED AIR FREIGHT     4     16     12     3     32       60.ANTL COCEAN SHIFFING     4     7     21     3     32	6.6.10 R IGHNAY LOCATION     18     12     5     0     35       6.6.11 CONTRACT TAUCKING     15     13     7     0     55       5.6.6 FULLED KAIL SERVICE     1     2     26     6     29       5.6.7 EULLED KAIR FREIGHT     8     15     10     2     33       5.6.7 EULLED AIR FREIGHT     4     16     12     3     32       6.8.11 EARLE SERVICE     4     7     21     3     32       1 INDUSTRIAL SERVICE DISPOSAL     7     13     8     7     28	6.00 MIGHMAY LOCATION     18     12     5     0     35       6.00 KAJIL CONTRACT TAUCKING     15     13     7     0     35       5.61 FOULD KAIL SERVICE     1     2     26     6     29       5.71 EDULED KAIR FREIGHT     8     15     10     2     33       5.71 EDULED KAIR FREIGHT     4     16     12     3     32       6.00 ANTIL OCEAN SHIFFING     4     7     21     3     32       1 INDUSTRIAL SEKAGE DISPOSAL     7     13     8     7     20       1 INDUSTRIAL MATER SUPPLY     11     14     5     30	6.6.10G WIGHWAY LOCATION     18     12     5     0     35       6.4.11 CONTRACT TAUCKING     15     13     7     0     35       5.6.6.Pulce     1     2     26     6     29       5.6.6.Pulce     1     2     2     6     29       5.6.6.Pulce     1     15     10     2     33       5.6.6.Pulce     4     1     11     3     32       6.0.10 KASTE DISPOSAL     7     11     3     32       1.0.0.2.SALL     1     1     3     32       1.0.0.2.SALL     1     1     3     32       1.0.0.2.SALL     1     1     5     30       1.0.0.2.SALL     1     1     3     32       1.0.0.2.SALL     1     1     3     32       1.0.0.2.SALL     1     1     5     30       1.0.0.2.SALL     1     1     1	ACADGR HIGHMAY LOCATION 18 12 5 0 55  AVAIL CONTRACT TRUCKING 15 13 7 0 55  SCREDULED KAIL SERVICE 1 2 26 6 29  SCREDULED AIR FASIS SERVICE 4 16 12 3 32  AVAIL OCEAN SHIFPING 4 7 21 3 52  INDUSTRIAL SERVICE 1 1 1 5 50  INDUSTRIAL SERVICE 1 1 1 5 50  SOLID WASTE DISPOSAL 7 18 5 50  OTHER UTILITIES 2 5 4 24 11

# STRAFFORD REGIONAL PLANNING COMMISSION ENPLOYER SURVEY

FEBRUARY 1985

LOCATIONAL DECISION CHRENT CONDITIONS	SATISFIED	NEEDS INFROVEMENT	NOT SATISFIED	NOT AFPL ICABLE	TOTAL	
MAJOR HIGHWAY LOCATION	31	•	0	•	7	
AVAIL CONTRACT TRUCKING	29	-	-	-	2	
SCHEDULED RAIL SERVICE	20	2	. ~	. 9	. >	
SCHEDULED ATR FREIGHT	24	•		-		
SCHEDULED ATR PASS SERVICE	23	-	•	• •	3 5	
AVAIL DCEAN SHIPFING	26	٥	-		2 2	
INDUSTRIAL SENAGE DISPOSAL	75	2			5 =	
INDUSTRIAL KATER SUFFLY	.24		. ~	. ~		
SOLID WASTE DISPOSAL	24	-	~	-	31	
OTHER UTILITIES	97	٥	-	,	26	
OTHER CONNUNTY SERVICES	11	-	•	•	24	
				,	,	

TABULATION OF SURVEY RAW DATA BY APPLIED ECONOMIC RESERNCH, INC. AUGUST 1987



FEBRUARY 1965

MAJOR HIGHMAY LOCATION 91.2% 8.5%	LOCATIONAL DECISION CURRENT CONDITIONS	SATISFIED	NEEDS INFROVENENT	NOT SATISFIED	NOT APPLICABLE	16 KESPOR
65.31 6.81 2.91 2.91 2.91 2.91 20.41 20.61 20.81 20.41	MAJOR HIGHMAY LOCATION	91.21	79.0	39.	70	901
59.61 5.91 29.41 72.71 10.21 6.11 3,01 75.81 9.12 6.11 3,01 75.81 9.12 6.11 20.61 80.61 6.31 6.51 6.51 77.41 9.71 6.51 6.51 89.21 01 3.61 26.51 79.62 4.22 01 25.01	AVAIL CONTRACT TRUCKING	65.33	18.8	2.51	2.51	100
72.71 18.21 6.11 3.01 75.61 9.11 9.11 6.11 76.51 .01 2.91 20.61 80.61 6.51 6.51 6.51 77.42 9.71 6.51 6.51 69.21 .01 3.61 26.91 70.61 4.21 .01 25.01	SCHEDULED RAIL SERVICE	59.62	25.6	28.8	29.42	931
75.64 9.14 9.11 6.11 76.54 .04 2.91 20.61 80.64 6.54 6.54 6.51 77.42 9.74 6.54 6.51 77.42 12.94 6.51 3.21 70.84 4.24 .04 25.04 25.04	SCHEDULED AIR FREIGHT	12.71	18.21	11.9	3.02	97
76.54 .04 2.91 20.61 80.64 6.54 6.54 6.51 77.42 9.74 6.54 6.51 77.42 12.94 6.54 3.21 69.24 .04 3.61 26.91 70.84 4.24 .01 25.01	SCHEDULED AIR PASS SERVICE	75.81	9.1%	9.11	6.11	100
60.64 6.54 6.54 6.51 6.51 77.42 9.74 6.54 6.51 9.21 77.42 12.94 6.54 3.61 26.91 70.61 4.24 .01 25.01	AVAIL OCEAN SHIFFING	76.51	70.	2.91	20.61	901
77.41 9.71 6.51 6.51 77.42 12.91 6.51 3.21 69.21 .01 3.61 26.91 70.81 4.21 .01 25.01	INDUSTRIAL SENAGE DISPOSAL	80.61	6.51	15.9	16.91	100
72.41 12.31 6.51 3.21 69.21 69.21 .01 3.61 26.91 70.61 4.21 .01 25.01	INDUSTRIAL NATER SUFFLY	17.42	9.71	16.9	6.51	100
69.21 .01 3.61 26.91 70.81 4.21 .01 25.01	SOLID NASTE DISPOSAL	27.4%	12.91	6.52	3.21	31
70.6% 4.2% .0% 25.0%	OTHER UTILITIES	69.21	10.	3.61	26.91	31
	OTHER COMMUNITY SERVICES	70.61	4.2%	70.	25.01	31

DETAILED INVENTORY OF MAJOR DEVELOPABLE LOTS CITY OF DOVER

	TOTAL SAMPLE	~	. 5	71	• •	- :	2	11	176	-	12	1	7	292
			: :	100	5	71	248	60	6,739	£ :	12	182	33	9,396
TILE lopable)	AVERAGE	W	2	5 3				2 5	80 3	WA.	W.	MA	NA	37
FOURTH QUARTILE (Least Developable)	NUMBER AVERAGE OF LOTS ACREAGE	W	167	N	K A	£ 3	E -	- 0	2 2	# :	E :	N. N.	NA	19
Z Z	TOTAL ACRES	\$	156	W	M	<b>S</b>	E =	7116	Vn Vn	£ \$	£ 3	E .	A	2,348
31	AVERAGE	AN	47	37	MA	10	28	2 5	2	2 5	7 4	uu .	A.	33
THIRD QUARTILE	NUMBER OF LOTS	M	7	-	W	M	. ~		; -		7 2		NA NA	89
Ė	TOTAL ACRES	A	95	37	M	116	169	1.538	- 8	248			W.	2,222
•		C	C		Ĺ	Ċ		-						
31	AVERAGE ACREAGE	20	14	28	12	25	26	45	AN	11	7	5 5	2	82
SECOND DUARTILE	NUMBER OF LOTS	-	2	-	-	9	2	42	¥.	-	-	-	-	19
3	TOTAL ACRES	20	28	28	12	150	129	1,904	¥	14	37	01	07	2,341
(a)	AVERAGE	48	23	21	NA	28	9	45	25	22	24	4	3	36
FIRST DUARTILE (Most Developable)	NUMBER Of Lots	2	2	2	WA	01	01	25	2	1	9	-	•	69
FIRE	TOTAL ACRES	96	157	43	NA	281	396	1,119	16	155	146	15	2	2,485
	ZONE	F		1-7	0	R-12	R-20	R-40	RH-10	RM-12	. RM-20	RH-8		TOTAL

f Includes Lots of 500,000 Sqft or more 1+- 12 Acres and Over) Source : Applied Economic Research analysis of City of Dover raw data from "Developable Land Rating System" Compiled in Spring,1987. A total of 900 Developable lots were rated,above table is for selected lots only of 500,000 square ft or more (262).



#### COMMUTER ORIENTATION

			Tract	Number			
Total Worked In:	811	812	813	814	815	816	Total
- DOVER	535	402	986	313	1115	894	4245
PORTSHOUTH	299	288	342	169	145	245	1488
DURHAM	187	70	141	35	156	91	680
KITTERY	122	76	119	77	120	99	913
NEWINGTON	61	102	11	14	76	62	326
ROCHESTER	36	37	33	27	79	103	315
OTHER	456	297	401	130	594	295	2173
TOTAL REPORTED	1696	1272	2033	765	2285	1789	9840

#### PERCENT DISTRIBUTION

Number

100.07

100.07

Total Worked In:	811	812	- 813	- 814	815	816	2	Total
DOVER	31.52	31.62	48.5%	40.92	48.82	50.07		43.17
PORTSHOUTH	17.67	22.67	16.87	22.1%	6.32	13.77		15.17
DURHAM	11.07	5.52	6.97	4.67	6.81	5.17		6.9%
KITTERY	7.2%	6.07	5.97	10.17	5.37	5.5%		6.27
NEWINGTON	3.62	8.07	.57	1.8%	3.37	3.5%		3.32
ROCHESTER	2.17	2.9%	1.6%	3.52	3.5%	5.87		3.27
OTHER	26.97	23.37	19.7%	17.0%	26.0%	16.5%		22.17

100.07 100.07 100.07 100.07

Tract



100.07

TOTAL REPORTED

\* \*\*\*\*\*\*\*\*\*

#### 1980 COMMUTER PATTERNS: CITY OF DOVER Principal Work/Residence Destinations

	Number	Percent		Nuaber	Percent
WORK IN DOVER	9481	100.07	LIVE IN DOVER	9698	100.07
Live In:			Work In:		
Dover	4245	44.87	Dover	4245	43.82
Commute In From:			Commute Cut To:		
Rochester	1221	12.97	Portsmouth	1488	15.37
Somersworth	928	9.87	Durhas	084	7.0%
Rollinsford	327	3.47	Sogersworth	624	6.47
Barrington	311	3.37	Kittery	613	6.37
Bernick, ME.	260	2.77	Newington	326	3.47
Durham	217	2.37	Rochester	315	3.27
S. Berwick, ME.	207	2.27	Seabrook	126	
Portsmouth	185	2.07			1.37
N. Berwick, ME.	137	1.47	Hampton	100	1.07
· ·			Berwick	82	.87
Lebanon, ME.	101	1.17	Other	1099	11.37
Other	1342	14.22			
Total Commute In:	5236	55.21	Total Commute Out:	5453	56.27

Source: New Hampshire Department of Employment Security, 1985 (Detailed Tabulations of 1980 Census Data)



#### EMPLOYMENT PROJECTIONS

AER's projection of regional employment (Tables 1 and 2) relied on a number of sources including the New Hampshire Department of Employment Security and a detailed analysis of employment trends by industry as reported in County Business Patterns for the Strafford-Rockingham County region. In the years 1977 - 1982, the two-county area absorbed 37 percent of the state's total employment change. During the 1982 - 1985 period, however, its share was only 17 percent. The region has had consistently strong performance in the non-manufacturing employment groups, but has had weak performance in non-durable goods manufacturing industries, which include the declining textile and leather industries.

In the 1977 - 1982 period, the two-county region had strong performance in overall manufacturing growth, representing 40 percent of the state's net change in manufacturing employment. During the 1982 - 1985 period, how-ever, manufacturing employment declined although statewide manufacturing employment increased. The AER projections reflect recovery in total manufacturing employment as growth in "new line" industries offsets employment losses from the "old line" industries such as textile and leather. The overall share of state employment growth for the projection period is 25 percent (Strafford-Rockingham Counties combined).

Projections for the Portsmouth-Dover-Rochester MSA and Dover incorporate assumptions of a substantial increase in the finance, insurance and real estate employment categories, accelerated by the Liberty Mutual office park proposed for Dover. Both the high and low scenarios for the city reflect the assumption that approximately 2,000 jobs will be added by this development over the next eight years.

Tables 3 and 4 illustrate low to high projections of employment growth for the city of Dover. Table 3 reflects a continuation of recent trends, with the assumption that a positive shift in regional manufacturing employment will take place, and that Dover's historic relative strength in manufacturing will allow it to share in a modest but healthy capture rate of new development. In Table 4, a more aggressive scenario is illustrated utilizing capture rates approximately 25 percent higher than Dover's historic shares of growth by industry group.

Total employment for Dover is therefore expected to grow at a rate of approximately 700 to 800 jobs per year based on the two scenarios. During the 1980 - 1985 period, the average annual growth in Dover employment was 430 per year. The two projections reflect a range in Dover's share of employment growth within the metropolitan area of 27 to 33 percent.

this is doven's potential slave based on action taken by the City!?