LONG-TERM ECONOMIC AND DEMOGRAPHIC PROJECTIONS FOR ALASKA

ISER- MAP ECONOMIC MODEL
CONTROL PROJECTION REPORT
JUNE 1986

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by

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INTRODUCTION

The Institute of Social and Economic Research (ISER) receives numerous requests for projections of growth in Alaska's population and economy. Economists at the Institute prepare and update this report periodically as a public service in response to those requests. The projections in this report are made with the Institute's Man-in-the-Arctic Program (MAP) computer model.

To develop these projections, we have to make certain assumptions about factors that will strongly influence Alaska's growth. The most important assumptions are in these areas:

- Resource development
- Levels of state petroleum revenues
- State fiscal policies
- National economic growth

We provide four projections or cases to show the likely range of future economic and population levels, based upon reasonable assumptions about future revenues, state fiscal policies, resource development, and national economic growth. We base our assumptions on the best available information and change them as necessary when new information becomes available. The projections, therefore, do not constitute a "prediction" about Alaska's future, but simply our estimates of future population and economic levels if the assumptions which "drive" the projections turn out to be correct.
We present several tables of output from each case as follows:

**State Level Output**

- Aggregate Population, Employment, and Income
- Aggregate Growth Rates
- Employment Composition
- State Revenues and Expenditures
- Price Levels

**Regional Level Output**

- Population and Employment
- Population and Employment Growth Rates

In addition, we provide a full description of the assumptions which drive each case. Projections of other economic, demographic, and regional variables produced by the model are available on request from ISER.

**INTERPRETATION OF PROJECTIONS**

The reader should keep several things in mind when using these projections:

- Since the projection values are contingent upon future economic and political events which cannot be known with certainty, we urge readers to consider the full range of possible future growth—as represented by the range of cases presented—when using the projections for planning purposes.

- The MAP model is designed to produce an accurate, overall representation of the economy and population, given certain assumptions over which the state has little control (such as the world price of oil) and over which it does exert control (such as if and how to utilize the Permanent Fund). The validity of the output is contingent on the validity of the assumptions concerning those factors and policies. We use assumptions which we believe to be reasonable at the time we make the projections.

- The base population figures for our projections are the most recent figures issued for the state and its census divisions by the Alaska Department of Labor. Population figures from other sources may differ.
The model is a long-run model designed to capture the important factors influencing the evolution of the economy and population. As such, it will "miss" some of the near-term cyclical behavior of the economy. We suggest that for the purpose of long-term planning, using five- or ten-year average growth rates as reflected in the projections is more valuable than looking at year-to-year changes.

The regional projections are based on a simple procedure that allocates total state population and employment growth to the regions so that the regional projections are consistent with the state totals. The regions are those indicated by the map (Figure 1). This procedure does not take into account all possible economic and demographic information for each region, which may result in differential growth patterns. This means that our projections for a particular region cannot substitute for a detailed analysis that would consider all the possible economic activities in that region. Such an analysis would produce a wider range of projections for any given region because it would consider not only the overall level of economic activity in the state but also different possible regional distributions of that activity. Our method, on the other hand, considers only one possible regional distribution of statewide activity under each set of assumptions.

These are "generic" projections. When ISER does a projection specifically for a report, it is designed contingent on the special needs of that report. For example, we might concentrate on developing the best possible projection of the number of households. In a general projection of this type of report, we cannot anticipate the needs of all users.

The limited budget allocated to this report precludes the ability of staff to calibrate each data series precisely in comparison with historical data. Variables are calibrated in comparison with historical data through 1984 or preliminary 1985 data. Many of these historical data series are subject to revision. This problem is particularly acute in periods of rapid growth such as Alaska has experienced in the recent past.
Because of the necessity to build in certain fiscal policy changes in future years, there may be some sharp breaks or discontinuities in some projected variables such as government employment. This is simply a reflection of the fact that the model reacts to these policy changes in a mechanistic way.

The assumptions about state fiscal policy used in the projectons are based on one possible response to the changing availability of state funds but should not be viewed as policy positions advanced by the Institute.

DESCRIPTION OF THE PROJECTIONS

The four cases were produced by varying the assumptions concerning the future price of oil, government activity, and the level of economic activity in the basic industries in the state, specifically petroleum, fishing, mining, tourism, manufacturing, forestry, agriculture, and federal government. The Alaska Department of Revenue March 1986 revenue projections are used in all four cases as follows:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
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<tbody>
<tr>
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<td>$17.50</td>
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<td>$19</td>
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<tr>
<td>III</td>
<td>70</td>
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<td>IV</td>
<td>90</td>
<td>$24</td>
<td>$31</td>
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</tbody>
</table>

¹Price anticipated to be less than stated level with this probability according to the Alaska Department of Revenue.
The assumptions in each case are explicitly contained in a consistent "scenario," and the four scenarios have been chosen to cover the likely range of population and employment levels in future years. They are thus representative of other "scenarios" which could also be developed. Basically, different consistent sets of assumptions would lead to different projections, but all consistent and reasonable scenarios should produce results within the range of these cases.

Assumptions not related to development and the price of oil were held constant. These include the regional allocation of population and employment for a given state total, national economic growth, demographic rates (fertility, etc.), the pattern of support activity in the economy, and labor force participation rates.

Using these assumptions, the state pattern of employment growth is, in all cases, initially low followed by recovery (Figure 2). Low initial growth is associated with the current economic slowdown as the era of expansion associated with massive increases in government spending ends and as the economy reacts to the shock of the fall in the oil price. The longer-term pattern in each case represents the outcome of the two major forces which will impact economic growth in future years—the contraction of the state and local government sector and the growth of basic economic activities. In each succeeding case, this latter growth is more dominant, leading to a more rapid recovery not only from the current slowdown but also the "post-Prudhoe" syndrome. All cases include petroleum industry growth, reflected in a modest "boom" in the early 1990s associated with OCS developments. Case IV includes a "boom" associated with a gasoline construction after 2000.

The rate of growth will be moderated by several factors associated with deceleration of expansion of the size of the Alaska market. First, per capita income growth will slow now that Alaska has reached parity with the United States. Second, the downward trend in average household size will slow. Third, support and infrastructure "infilling" will be small relative to the past. Nonetheless, employment growth will continue to be concentrated in support industries such as services, trade, and finance.
Alaska population growth is slower than in the past, largely in response to the slower growth in the number of jobs (Figure 3). Because of a high rate of natural increase (the excess of births over deaths), this slower growth is associated with net population out-migration.

State fiscal aggregates are summarized in Figure 4. Lower oil revenues resulting from lower oil prices are somewhat offset in the simulations by the imposition of new taxes and the use of Permanent Fund earnings.

Case I

This case uses the 30th percentile case of the Alaska Department of Revenue (DOR) for state revenues which assumes a world oil price of $17.50 in FY 1987. In constant dollars, the price falls to $16.50 in 2000. In response to soft world oil prices, the petroleum industry does not show any real growth, but there is some continuing exploration and development activity. In other basic sectors, there is development of the state's coal resource as well as hard rock mines in Southeast and Northwest. Commercial fishing expands primarily in bottom fishing. Federal employment is positively impacted by the deployment of a new light army division to Fairbanks, but negatively by the need to balance the federal budget. Tourism continues its historical growth at a healthy rate. Forest products and agriculture are stable.

To counter the fall in revenues in FY 1987, the earnings of the Permanent Fund are tapped to help fund the state budget. In addition, the income tax is returned and the Permanent Fund dividend is eliminated in the next two years. State revenues continue to decline, and the declining state budget puts a downward force on the economy and population.

Under these assumptions, the economy goes through a long period of adjustment to a sustainable growth path based upon world oil prices at half the level of the early 1980s. Traditional basic sector growth must overcome the "drag" on the economy produced by less government spending as well as the significant deceleration of the development of the petroleum industry. Continued evolution of the support and infrastructure sectors will provide stability to the economy, but in general this case represents a significant restructuring of the economy and a long period of transition.
Case II

In this projection, slightly higher oil prices and a more conservative policy toward the Permanent Fund are overlayed on the economic assumptions of Case I. Specifically, the 50th percentile Alaska DOR revenue projection is utilized, which assumes that the price of oil will be $19 in FY 1987 and will remain at that level in constant dollars through the year 2000. Somewhat higher revenues reduce the immediate need to utilize the Permanent Fund earnings and reimpose the income tax. Contraction of government spending is a "drag" on the economy, but not so large as in the previous case, so the development of traditional basic sector industries leads to a more rapid transition to a "post-Frudhoe Bay" economy.

Case III

Case III assumes both higher petroleum revenues and more rapid development of the basic sectors of the economy, including petroleum. The oil price, based on the 70th percentile case of Alaska DOR, rises in real dollars from $21 in 1988 to $23 in 2000. Higher revenues allow the savings in the Permanent Fund to build up for a longer time as well as higher levels of government spending. Nonetheless, state and local government do contract in the long run, creating a modest "drag" on the economy.

The higher oil price leads to growth in the petroleum industry, as new fields are developed and produce. In addition, in this case we assume more rapid development of the fishing industry and agriculture.

Case IV

Both petroleum prices and basic economic activity are higher here than in Case III. The 90th percentile case of the Alaska DOR is used which assumes that the price of oil in constant dollars rises from $24 in 1987 to $31 in 2000. Because of declining production rates, the level of government spending declines even in this case, but at a more moderate rate, which has a smaller negative impact on the economy than in the other cases.

Economic activity is stimulated by growth not only in the petroleum industry but in addition other mining expands more rapidly (including coal mining), tourism growth is more rapid, and a trans-Alaska gas pipeline is constructed for the export of Alaskan natural gas.
### ALASKA STATE MODEL
### SUMMARY OUTPUT

### *** TABLE 1. STATE AGGREGATES ***

<table>
<thead>
<tr>
<th>Year</th>
<th>Population (000)</th>
<th>Employment (000)</th>
<th>Personal Income (1985 $)</th>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>Migration</td>
<td>Total</td>
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<td>273.729</td>
</tr>
<tr>
<td>1987</td>
<td>539.53</td>
<td>-12.948</td>
<td>266.805</td>
</tr>
<tr>
<td>1988</td>
<td>541.822</td>
<td>-7.555</td>
<td>267.146</td>
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<tr>
<td>1989</td>
<td>539.442</td>
<td>-11.969</td>
<td>262.077</td>
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<tr>
<td>1990</td>
<td>541.7</td>
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<td>263.163</td>
</tr>
<tr>
<td>1991</td>
<td>540.41</td>
<td>-10.507</td>
<td>260.301</td>
</tr>
<tr>
<td>1992</td>
<td>538.982</td>
<td>-10.453</td>
<td>257.806</td>
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<tr>
<td>1993</td>
<td>541.475</td>
<td>-6.351</td>
<td>260.014</td>
</tr>
<tr>
<td>1994</td>
<td>544.739</td>
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<td>1995</td>
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<td>1996</td>
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<tr>
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<tr>
<td>2010</td>
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</tr>
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</table>

**SOURCE:** DSET A6.1; **VARIABLES:** POP, POPMIC9, EM99, EM97, DF.PI, DFP.PI

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I-1
### Table 2: State Growth Rates

<table>
<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Employment</th>
<th>Real Per Capita Personal Income</th>
<th>Real Per Capita Personal Income</th>
<th>State Expenditures</th>
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<tr>
<td>1985</td>
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<td>0.058</td>
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<td>0.028</td>
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<td>-0.014</td>
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<td>-0.052</td>
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<td>-0.025</td>
<td>-0.002</td>
<td>0.026</td>
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<td>0.001</td>
<td>-0.004</td>
<td>0.046</td>
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<td>-0.004</td>
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<tr>
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<td>0.004</td>
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<td>0.056</td>
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<tr>
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<td>-0.006</td>
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<td>-0.008</td>
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<td>-0.01</td>
<td>-0.002</td>
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<tr>
<td>1994</td>
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<td>0.011</td>
<td>0.021</td>
<td>0.073</td>
<td>-0.039</td>
</tr>
<tr>
<td>1995</td>
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<td>-0.015</td>
<td>-0.001</td>
<td>0.038</td>
<td>-0.043</td>
</tr>
<tr>
<td>1996</td>
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<td>-0.006</td>
<td>0.009</td>
<td>0.052</td>
<td>-0.016</td>
</tr>
<tr>
<td>1997</td>
<td>0.002</td>
<td>0.005</td>
<td>0.016</td>
<td>0.064</td>
<td>0.034</td>
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<tr>
<td>1998</td>
<td>0.006</td>
<td>0.011</td>
<td>0.016</td>
<td>0.072</td>
<td>0.04</td>
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<tr>
<td>1999</td>
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<td>0.008</td>
<td>0.015</td>
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<tr>
<td>2000</td>
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<td>0.011</td>
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<td>2005</td>
<td>0.012</td>
<td>0.014</td>
<td>0.013</td>
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<tr>
<td>2010</td>
<td>0.021</td>
<td>0.022</td>
<td>0.011</td>
<td>0.081</td>
<td>0.142</td>
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Source: DSET A6.1

### TABLE 3. COMPONENTS OF EMPLOYMENT (thousands)

<table>
<thead>
<tr>
<th>Year</th>
<th>Total</th>
<th>Basic</th>
<th>State/Local Government</th>
<th>Support</th>
<th>Infrastructure</th>
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<tbody>
<tr>
<td>1985</td>
<td>275.901</td>
<td>76.487</td>
<td>50.581</td>
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<td>1986</td>
<td>273.729</td>
<td>79.949</td>
<td>47.453</td>
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<td>1987</td>
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<td>82.603</td>
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<td>34.137</td>
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</table>

**SOURCE:** DSET A6.1

**VARIABLES:** EM99, EM9BASE, EM9GOV, EM9SUPRT, EM9INFR

Basic Employment includes large project construction, manufacture for export, mining, tourism, federal employment, agriculture, fishing, timber, and large pipeline.

Support Employment includes the support components of trade, finance, services, and manufacturing as well as proprietors not involved in fishing.

Infrastructure Employment includes construction, transportation, communications, public utilities, and business services.
### TABLE 4: STATE REVENUES  
(1985 million $)

<table>
<thead>
<tr>
<th>Year</th>
<th>Expenditures</th>
<th>Revenues</th>
<th>Permanent Fund Balance</th>
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<td></td>
<td></td>
<td>Total Petroleum</td>
<td>Other</td>
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**SOURCE:** DSET A6.1

**VARIABLES:** DF.EXGFB, DF.RSGFB, DF.RP9SG, DF.RSENG, DF.RSIN, DF.BALPF
### Table 5. Miscellaneous Variables

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**Source:** DSET A6.1

**Variables:** PDANCPI, PDRATIO
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Source: DSET A6.1R—CREATED 6/2/86
Variables: M.01, M.02, M.04, M.05, AND M.06
### REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

**CONTROL PROJECTION CASE I.**

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**SOURCE:** DSET A6.1R--CREATED 6/2/86

**VARIABLES:** M.08, M.09, M.11, M.12, AND M.14
### REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

**CONTROL PROJECTION CASE I.**

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**SOURCE:** DSET A6.1R—CREATED 6/2/86  
**VARIABLES:** M.15, M.16, M.17, M.18, AND M.21
## REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

### CONTROL PROJECTION CASE I.

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**SOURCE:** DSET A6.1R--CREATED 6/2/86

**VARIABLES:** M.24, M.25, M.26, M.27, AND M.29
### REGIONAL MODEL TOTAL POPULATION PROJECTIONS

**CONTROL PROJECTION CASE I.**

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**SOURCE:** DSET A6.1R--CREATED 6/2/86

**VARIABLES:** P.01, P.02, P.04, P.05, AND P.06
### REGIONAL MODEL TOTAL POPULATION PROJECTIONS

**CONTROL PROJECTION CASE I.**

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**SOURCE:** DSET A6.1R—CREATED 6/2/86

**VARIABLES:** P.08, P.09, P.11, P.12, AND P.14

I-11
### REGIONAL MODEL TOTAL POPULATION PROJECTIONS

**CONTROL PROJECTION CASE I.**

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**SOURCE:** DSET A6.1R—CREATED 6/2/86

**VARIABLES:** P.15, P.16, P.17, P.18, AND P.21
### REGIONAL MODEL TOTAL POPULATION PROJECTIONS

**CONTROL PROJECTION CASE I.**

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**SOURCE:** DSET A6.1R--CREATED 6/2/86

**VARIABLES:** P.24, P.25, P.26, P.27, AND P.29
### EMPLOYMENT AND POPULATION GROWTH RATES
(CENSUS DIVISIONS)

#### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

CONTROL PROJECTION CASE I.

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**SOURCE:** DSET A6.1R--CREATED 6/2/86

**VARIABLES:** GR.M.01, GR.M.02, GR.M.04, GR.M.05, AND GR.M.06

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SOURCE: DSET A6.1R--CREATED 6/2/86
VARIABLES: GR.M.08, GR.M.09, GR.M.11, GR.M.12, AND GR.M.14
### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

**CONTROL PROJECTION CASE I.**

**PERCENTAGE**

**MATANUSKA/**

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**SOURCE:** DSET A6.1R—CREATED 6/2/86

**VARIABLES:** GR.M.15, GR.M.16, GR.M.17, GR.M.18, AND GR.M.21
### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

CONTROL PROJECTION CASE I.
(percentage)

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SOURCE: DSET A6.1R--CREATED 6/2/86
VARIABLES: GR.M.24, GR.M.25, GR.M.26, GR.M.27, AND GR.M.29

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I-17
### REGIONAL MODEL POPULATION GROWTH PROJECTIONS

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(Percentage)

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**SOURCE:** DSET A6.1R--CREATED 6/2/86

**VARIABLES:** GR.P.01, GR.P.02, GR.P.04, GR.P.05, AND GR.P.06
REGIONAL MODEL POPULATION GROWTH PROJECTIONS

********************************************************************
CONTROL PROJECTION CASE I.
********************************************************************

(_PERCENTAGE)

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SOURCE: DSET A6.1R--CREATED 6/2/86
VARIABLES: GR.P.08, GR.P.09, GR.P.11, GR.P.12, AND GR.P.14
### Regional Model Population Growth Projections

**Control Projection Case I.**

**Percentage**

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**Source:** DSET A6.1R—Created 6/2/86

**Variables:** GR.P.15, GR.P.16, GR.P.17, GR.P.18, and GR.P.21

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I-20
REGIONAL MODEL POPULATION GROWTH PROJECTIONS

CONTROL PROJECTION CASE I.

(PERCENTAGE)

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SOURCE: DSET A6.1R--CREATED 6/2/86
VARIABLES: GR.P.24, GR.P.25, GR.P.26, GR.P.27, AND GR.P.29
SUMMARY OF MAP MODEL ASSUMPTIONS: CASE I [A6.1]

A. PETROLEUM REVENUE ASSUMPTIONS: DOR MARCH 1986 (S86.P0)
B. FISCAL ASSUMPTIONS: PERMANENT FUND EARNINGS USED,
INCOME TAX IN, DIVIDEND OUT
C. INDUSTRY ASSUMPTIONS: MODERATE GROWTH (S86.P0)
D. NATIONAL VARIABLE ASSUMPTIONS: MODERATE GROWTH

A. PETROLEUM REVENUE ASSUMPTIONS

1. Severance Taxes
   Based on 30 percent probability projections published by the Alaska Department of Revenue. The world oil price is assumed to average $17.50 in 1987. In 1985 dollars, the price trends slowly downward to about $16.50 by 2000. After 2002, revenues remain constant in nominal dollars (DOR.M6.3). No change in tax regulations. Partial TAPS settlement revenues included [RPTS].

2. Royalties
   Based on 50 percent probability projections published by the Alaska Department of Revenue. After 2002, revenues remain constant in nominal dollars (DOR.M6.3) [RPRY].

3. Bonuses
   Alaska receives $500 million over the period FY 1989 to 1992 in settlement of disputed offshore leases in Beaufort Sea [RPBS].

4. Property Taxes
   Based on projections published by Alaska Department of Revenue, Revenue Sources (DOR.M6.3) augmented by taxes on onshore facilities related to OCS development (OCS.6NGT) [RPPS].

5. Petroleum Corporate Income Tax
   Based on projections published by Alaska Department of Revenue, Revenue Sources (DOR.M6.3). No change in tax regulations [RTCSPX].

(a) Codes in parentheses indicate ISER names for MAP Model SCEN_case files, and codes in brackets indicate MAP variable names.
6. Rents

Increasing slowly from current level of $8 million [RPEN].

7. Miscellaneous Petroleum Revenues

Zero [RP9X].

8. Federal-State Petroleum-Related Shared Revenues

Increasing $1 million annually from current level of $25 million [RSFDNPX].

9. Windfalls

During FY 1986 the Permanent Fund experiences a capital gain of $1 billion. During FY 1987, $250 million accrues to Alaska from a litigation settlement with ARCO, $450 million in settlement of the TAPS tariff dispute, and $50 million from past federal revenue sharing.

B. FISCAL ASSUMPTIONS

1. State Appropriations

If funds available, ceiling established by Constitutional Spending Limit; otherwise appropriations equal revenues plus 60 percent [EXWIND] of general fund balance available for appropriations.

2. Capital/Operations Split

Two-thirds operations if Spending Limit in effect; four-fifths operations otherwise [EXSPILTXX].

3. General Obligation Bonds

Bonding occurs up to point where debt service is 5 percent of state revenues.

4. Federal Grants-in-Aid for Capital Expenditures

Constant at $75 million [RSFDNCAX].

5. State Loan Programs

New capitalization terminated after FY 1987 [EXKTR1X]. Programs continue functioning on existing capitalization including AHFC [EXLOAN2] and APA revenue bond expenditures [EXCPSR1].

6. Municipal Capital Grants

Funding terminated after FY 1987 [RLTMCAP].

7. State-Local Revenue Sharing

Continuation proportional to total state expenditures [RLTRSR].

8. State-Local Municipal Assistance

Continuation proportional to total state expenditures [RLTMAR].

I-23
9. Permanent Fund/Other Appropriations in Excess of Spending Limit

None for operations [EXGFOPSX]; none for capital [EXSPCAP].

10. Permanent Fund Dividend

Eliminated after FY 1989 distribution [EXPFDIST].

11. Use of Permanent Fund Earnings

Half of the earnings allocated to the general fund beginning in FY 1988, rising to 100 percent of earnings by 1990 [EXPFTOGF].

12. Permanent Fund Principal

Continuous accumulation but inflation-proofing eliminated in 1988.

13. Personal Income Tax

Reimposed FY 1989.

14. Miscellaneous Local Revenue Sources

Miscellaneous state-local transfers [RLTX], large project property taxes [RLPTX], petroleum-related federal transfers [RLTFFP] all set to zero.

15. New Federal-State Shared Revenues

Zero [RSFDNX].

16. Large Project Corporate Income Taxes

Zero [RTCSX].

17. State-Local Wage Rates

Constant real wage rate beginning in 1988.

C. INDUSTRY ASSUMPTIONS

1. Trans-Alaska Pipeline

Operating employment remains constant at 885 through 2010 (TAP.S86).

2. North Slope Petroleum Production

Petroleum employment increases through the early 1990s to a peak of 4.6 thousand and subsequently tapers off gradually. Construction employment is eliminated by the late 1990s. This case presumes no significant change in current oil price trends (NSO.86B).

3. Upper Cook Inlet Petroleum Production

Employment in exploration and development of oil and gas in the Upper Cook Inlet area declines gradually beginning in 1983 by approximately 2.5 percent per year (UPC.S86).
4. OCS Development

Employment in exploration and development activity associated with Bering Sea and Arctic areas peaks at around 7,000 in 1993. Direct employment continues through the following decade at a reduced level of approximately 3,000 (OCS.GNT).

5. Oil Industry Headquarters

Oil company headquarters employment in Anchorage remains at around 3,900 through 2010 (OHQ.S86).

6. Beluga Chuitna Coal Production

Development of 4.4 million ton/year mine for export beginning in 1989 provides total employment of 524 (BCL.04T(−4)).

7. Healy Coal Mining

Export of approximately 1 million tons of coal annually will add 25 new workers to current base of 100 by 1986 (HCL.84X).

8. U.S. Borax

The U.S. Borax mine near Ketchikan is brought into production with operating employment of 790 beginning in 1989 and eventually increasing to 1,020 (BXM.F84).

9. Greens Creek Mine

Production from the Greens Creek Mine on Admiralty Island results in employment of 150 people from 1988 through 2003 (GCM.F84).

10. Red Dog Mine

The Red Dog Mine in the Western Brooks Range reaches full production with operating employment of 428 by 1993 (RED.F84).

11. Other Mining Activity

Mining employment not included in special projects increases from current level at 1 percent annually (OMN.S86).

12. Agriculture

Reduction in state support results in constant employment in agriculture (AGR.S86).
<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>13. Logging and Sawmills</td>
<td>Logging for export by Native corporations expands employment to over 3,200 by 1995 before declining gradually to about 2,800 after 2005 (PLL.S86).</td>
</tr>
<tr>
<td>14. Pulp Mills</td>
<td>Employment declines at a rate of 1 percent per year after 1991 from the already depressed level of 600 (FPV.S86).</td>
</tr>
<tr>
<td>15. Commercial Fishing--Nonbottomfish</td>
<td>Employment levels in traditional fisheries harvest remain constant at 7,500 through 2010 (TCF.S86).</td>
</tr>
<tr>
<td>16. Commercial Fish Processing--Nonbottomfish</td>
<td>Employment in processing traditional fisheries harvests remains at the level of the average figure for the period 1982-1984, or around 6,500 (TFP.S86).</td>
</tr>
<tr>
<td>17. Commercial Fishing--Bottomfish</td>
<td>The total U.S. bottomfish catch expands at a constant rate to allowable catch in 2000, with Alaska resident harvesting employment rising to 733. Onshore processing capacity expands in the Aleutians and Kodiak census divisions to provide total resident employment of 971 by 2000 (BCF.F83).</td>
</tr>
<tr>
<td>18. Federal Military Employment</td>
<td>Employment declines at 1 percent per year, consistent with the long-term trend since 1960 (GFM.S86).</td>
</tr>
<tr>
<td>19. Light Army Division Deployment</td>
<td>A portion of a new Army division is deployed to Fairbanks and Anchorage beginning in 1986, augmenting active-duty personnel by 3,700 by 1988 (GFM.L86)</td>
</tr>
<tr>
<td>20. Federal Civilian Employment</td>
<td>After declining by 1 percent per year from 1986 to 1990, employment rises at 0.5 percent annual rate consistent with the long-term trend since 1960 (GFC.S86).</td>
</tr>
<tr>
<td>21. Tourism</td>
<td>Number of visitors to Alaska increases by 30,000 per year to over 1.3 million by 2010 (TRS.J85).</td>
</tr>
</tbody>
</table>
22. State Hydroelectric Projects

Construction employment from Alaska Power Authority projects peaks at over 700 in 1990 for construction of several projects in Southcentral and Southeast Alaska, including Bradley Lake and Chakachamna (SHP.F85), (SHP.C86), and (SHP.B86).

D. NATIONAL VARIABLE ASSUMPTIONS

1. U.S. Inflation Rate

Consumer prices rise at an annual rate of approximately 4 percent in the late 1980s, increasing gradually to approximately 5.5 percent annually after 2000.

2. Real Average Weekly Earnings

Growth in real average weekly earnings averages 1 percent annually.

3. Real Per Capita Income

Growth in real per capita income averages 1.5 percent annually.

4. Unemployment Rate

Long-run rate of 7 percent.
### ***Table 1. State Aggregates***

<table>
<thead>
<tr>
<th>Year</th>
<th>Population (000)</th>
<th>Employment (000)</th>
<th>Personal Income (1985 $)</th>
</tr>
</thead>
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<td>Total</td>
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<td>272.99</td>
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<td>1991</td>
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<td>296.885</td>
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<tr>
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<td>2.69</td>
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Source: DSET CEA.1Z; Variables: POP, POPHIG9, EM99, EM97, DF.PI, DPP.PI
### TABLE 2. STATE GROWTH RATES

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<thead>
<tr>
<th>Year</th>
<th>Population</th>
<th>Employment</th>
<th>Personal Income</th>
<th>Personal Income</th>
<th>State Expenditures</th>
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<td>0.04</td>
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<tr>
<td>1996</td>
<td>0.004</td>
<td>0.002</td>
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<td>0.049</td>
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<tr>
<td>1997</td>
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<td>0.005</td>
<td>0.013</td>
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<td>1998</td>
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<td>0.013</td>
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<tr>
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<td>0.013</td>
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<td>2010</td>
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<td>0.021</td>
<td>0.012</td>
<td>0.081</td>
<td>0.114</td>
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</tbody>
</table>

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**SOURCE:** DSET CEA.1Z

**VARIABLES:** G.POP, G.EM99, G.PR.PI, G.PI, G.EX99S
### TABLE 3. COMPONENTS OF EMPLOYMENT

(Thousands)

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
<th>Basic</th>
<th>State/Local Government</th>
<th>Support</th>
<th>Infrastructure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1985</td>
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<td>76.487</td>
<td>50.581</td>
<td>106.024</td>
<td>42.809</td>
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<td>79.95</td>
<td>47.453</td>
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<td>82.603</td>
<td>40.68</td>
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<td>41.314</td>
<td>109.286</td>
<td>38.763</td>
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<tr>
<td>1989</td>
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<td>82.976</td>
<td>40.757</td>
<td>107.409</td>
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<td>37.309</td>
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<td>1991</td>
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</table>

SOURCE: DSET CEA.12Z


Basic Employment includes large project construction, manufacture for export, mining, tourism, federal employment, agriculture, fishing, timber, and large pipeline.

Support Employment includes the support components of trade, finance, services, and manufacturing as well as proprietors not involved in fishing.

Infrastructure Employment includes construction, transportation, communications, public utilities, and business services.
### Table 4. State Revenues (1985 million $)

<table>
<thead>
<tr>
<th>Year</th>
<th>Expenditures</th>
<th>Revenues</th>
<th>Permanent Fund Balance</th>
</tr>
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<tbody>
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**Source:** DSET CEA.12

**Variables:** DF.EXGFB, DF.RSGFB, DF.RP9SG, DF.RSENG, DF.RSIN, DF.BALPF
### Table 5. Miscellaneous Variables

<table>
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<th>Year</th>
<th>Anchorage CPI-W (1967=100)</th>
<th>Relative Price Index Alaska/US Average</th>
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Source: DSET CEA.1Z

Variables: PDANPCI, PDRATIO
### Regional Model Total Employment Projections

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<tr>
<th></th>
<th>Aleutian Islands</th>
<th>Anchorage</th>
<th>Barrow/North Slope</th>
<th>Bethel</th>
<th>Bristol Bay</th>
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Source: DSET CEAR.1Z—CREATED 6/2/86

Variables: M.01, M.02, M.04, M.05, and M.06
### REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

**CONTROL PROJECTION CASE II.**

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**SOURCE:** DSET CEAR.1Z--CREATED 6/2/86  
**VARIABLES:** H.08, H.09, H.11, H.12, AND H.14
### REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

**CONTROL PROJECTION CASE II.**

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**SOURCE:** DSET CEAR.1Z--CREATED 6/2/86

**VARIABLES:** M.15, M.16, M.17, M.18, AND M.21
### REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

**CONTROL PROJECTION CASE II.**

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**SOURCE:** DSET CEAR.1Z—CREATED 6/2/86

**VARIABLES:** M.24, M.25, M.26, M.27, AND M.29
### REGIONAL MODEL TOTAL POPULATION PROJECTIONS

**CONTROL PROJECTION CASE II.**

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**SOURCE:** DSET CEAR.1Z--CREATED 6/2/86

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**Source:** DSET CEAR.1Z---CREATED 6/2/86
**Variables:** P.08, P.09, P.11, P.12, AND P.14
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SOURCE: DSET CEAR.1Z--CREATED 6/2/86
VARIABLES: P.15, P.16, P.17, P.18, AND P.21
# Regional Model Total Population Projections

**Control Projection Case II.**

(Thousands)

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**Source:** DSET.CERAR.12 -- Created 6/2/86
**Variables:** P.24, P.25, P.26, P.27, and P.29
### Employment and Population Growth Rates (Census Divisions)

#### Regional Model Employment Growth Projections

 CONTROL PROJECTION CASE II.

(Percentage)

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**Source:** DSET Gear.1Z--CREATED 6/2/86

**Variables:** GR.M.01, GR.M.02, GR.M.04, GR.M.05, AND GR.M.06
## Regional Model Employment Growth Projections

**Control Projection Case II.**

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**Source:** DSET GEAR.1Z—CREATED 6/2/86

**Variables:** GR.M.08, GR.M.09, GR.M.11, GR.M.12, AND GR.M.14
### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

**CONTROL PROJECTION CASE II.**

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**SOURCE:** DSET CEAR.1Z--CREATED 6/2/86

**VARIABLES:** GR.M.15, GR.M.16, GR.M.17, GR.M.18, AND GR.M.21
### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

**CONTROL PROJECTION CASE II.**

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**SOURCE:** DSET GEAR.1Z—CREATED 6/2/86

**VARIABLES:** GR.M.24, GR.M.25, GR.M.26, GR.M.27, AND GR.M.29
### REGIONAL MODEL POPULATION GROWTH PROJECTIONS

**CONTROL PROJECTION CASE II.**

(Percentage)

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**SOURCE:** DSET CEAR.12--CREATED 6/2/86

**VARIABLES:** GR.P.01, GR.P.02, GR.P.04, GR.P.05, AND GR.P.06
### REGIONAL MODEL POPULATION GROWTH PROJECTIONS

**CONTROL PROJECTION CASE II.**

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**SOURCE:** DSET CEAR.1Z--CREATED 6/2/86

**VARIABLES:** GR.P.08, GR.P.09, GR.P.11, GR.P.12, AND GR.P.14
## REGIONAL MODEL POPULATION GROWTH PROJECTIONS

### CONTROL PROJECTION CASE II.

(percentage)

<table>
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<tr>
<th>Year</th>
<th>Kodiak</th>
<th>Kuskokwim</th>
<th>Susitna</th>
<th>Nome</th>
<th>Seward</th>
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**Source:** DSET CEAR.1Z--CREATED 6/2/86  
**Variables:** GR.P.15, GR.P.16, GR.P.17, GR.P.18, AND GR.P.21
### REGIONAL MODEL POPULATION GROWTH PROJECTIONS

**CONTROL PROJECTION CASE II.**

(Percentage)

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<tr>
<th></th>
<th>SOUTHEAST FAIRBANKS</th>
<th>UPPER YUKON</th>
<th>VALDEZ/CHITINA/WHITTIER</th>
<th>WADK HAMPTON</th>
<th>YUKON/KOYOKUK</th>
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**SOURCE:** DSET CEAR.1Z--CREATED 6/2/86

**VARIABLES:** GR.P.24, GR.P.25, GR.P.26, GR.P.27, AND GR.P.29
1986 CONTROL PROJECTIONS

SUMMARY OF MAP MODEL ASSUMPTIONS: CASE II [CEA.1Z]

[Differences from Case I]

A. PETROLEUM REVENUE ASSUMPTIONS: DOR MARCH 1986 (S86.P1)
B. FISCAL ASSUMPTIONS: PERMANENT FUND EARNINGS USED,
   INCOME TAX IN, DIVIDEND OUT
C. INDUSTRY ASSUMPTIONS: MODERATE GROWTH (S86.P1)
D. NATIONAL VARIABLE ASSUMPTIONS: MODERATE GROWTH

**DESCRIPTION(a)**

A. PETROLEUM REVENUE ASSUMPTIONS

1. Severance Taxes

   Based on 50 percent probability projections published by the Alaska Department of Revenue. The world oil price is assumed to average $19 in 1987, rising to $20.50 in 1990 and to $36 in 2000. In 1985 dollars, the price of oil is approximately constant at $19 through 2000. After 2002, revenues remain constant in nominal dollars (DOR.M86). No change in tax regulations. Partial TAPS settlement revenues included [RPTS].

2. Royalties

   Based on 50 percent probability projections published by the Alaska Department of Revenue. After 2002, revenues remain constant in nominal dollars (DOR.M86) [RFRY].

B. FISCAL ASSUMPTIONS

10. Permanent Fund Dividend

   Eliminated after FY 1989 distribution [EXPFDIST].

11. Use of Permanent Fund Earnings

   Half of the earnings allocated to the general fund beginning in FY 1990, rising to 100 percent of earnings by 1996 [EXPFTOGF].

12. Permanent Fund Principal

   Continuous accumulation but inflation-proofing eliminated in 1996.

   (a) Codes in parentheses indicate ISER names for MAP Model SCEN_case files, and codes in brackets indicate MAP variable names.
C. INDUSTRY ASSUMPTIONS

D. NATIONAL VARIABLE ASSUMPTIONS
### *** TABLE 1. STATE AGGREGATES ***

<table>
<thead>
<tr>
<th>Population (000)</th>
<th>Employment (000)</th>
<th>Personal Income (1985 $)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>Migration</td>
<td>Non-Ag Wage and Salary</td>
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<td>1985 534.963</td>
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<td>273.729</td>
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<td>1989 555.736</td>
<td>-8.032</td>
<td>275.333</td>
</tr>
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**Source:** DSET CEA.2Z; Variables: POP, POPIG9, EM99, EM97, DF.PI, DFP.PI
### TABLE 2. STATE GROWTH RATES

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<th>Year</th>
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<th>Employment</th>
<th>Per Capita Personal Income</th>
<th>Personal Income</th>
<th>State Expenditures</th>
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<tr>
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<td>0.01</td>
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<tr>
<td>1998</td>
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**SOURCE:** DSET CEA.2Z

**VARIABLES:** G.POP, G.EN99, G.PR.PI, G.PI, G.EX99S
### Table 3. Components of Employment (thousands)

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<th>Year</th>
<th>Total</th>
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<th>State/Local Government</th>
<th>Support</th>
<th>Infrastructure</th>
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**Source:** DSET CEA.2Z

**Variables:** EM99, EM9BASE, EM9GOV, EM9SUPRT, EM9INFR

Basic Employment includes large project construction, manufacture for export, mining, tourism, federal employment, agriculture, fishing, timber, and large pipeline.

Support Employment includes the support components of trade, finance, services, and manufacturing as well as proprietors not involved in fishing.

Infrastructure Employment includes construction, transportation, communications, public utilities, and business services.
## Table 4. State Revenues

(1985 million $)

### Unrestricted General Fund

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<th>Expenditures</th>
<th>Revenues</th>
<th>Permanent Fund Balance</th>
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**Source:** DSET CEA.2Z

**Variables:** DF.EXGFB, DF.RSGFB, DF.RP9SG, DF.RSENG, DF.RSIN, DF.BALPF
*** TABLE 5. MISCELLANEOUS VARIABLES ***

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<th>Year</th>
<th>Anchorage CPI-W (1967=100)</th>
<th>Relative Price Index Alaska/US Average</th>
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SOURCE: DSET CEA.1Z

VARIABLES: PDANCPI, PDRATIO
### Employment and Population
(Census Divisions)

#### Regional Model Total Employment Projections

**Control Projection Case III.**

*(Thousands)*

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<tr>
<th>ALEUTIAN ISLANDS</th>
<th>ANCHORAGE</th>
<th>BARROW/NORTH SLOPE</th>
<th>BETHEL</th>
<th>BRISTOL BAY</th>
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<td>130.685</td>
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<td>9.897</td>
<td>133.651</td>
<td>10.218</td>
<td>4.201</td>
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**Source:** DSET CEAR.2Z--created 6/2/86

**Variables:** M.01, M.02, M.04, M.05, and M.06
### Regional Model Total Employment Projections

**Control Projection Case III.**

(Thousands)

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<tr>
<th>Year</th>
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<th>Fairbanks</th>
<th>Southeast Alaska</th>
<th>Kenai/Cook Inlet</th>
<th>Kukuyuk</th>
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**Source:** DSET CEARS.2Z--CREATED 6/2/86
**Variables:** M.08, M.09, M.11, M.12, AND M.14
### Regional Model Total Employment Projections

**Control Projection Case III.**

(Thousands)

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<th>Nome</th>
<th>Seward</th>
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Source: DSET CEAR.2Z—CREATED 6/2/86

Variables: M.15, M.16, M.17, M.18, AND M.21
## Regional Model Total Employment Projections

**Control Projection Case III.**

(Thousands)

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<th>Year</th>
<th>Southeast Fairbanks</th>
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<th>Valdez/Chitina/Whittier</th>
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SOURCE: DSET CEAR.2Z--CREATED 6/2/86
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### REGIONAL MODEL TOTAL POPULATION PROJECTIONS

**CONTROL PROJECTION CASE III.**

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**SOURCE:** DSET CEBR.2Z--CREATED 6/2/86

**VARIABLES:** P.15, P.16, P.17, P.18, AND P.21

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Source: DSET GEAR.22--CREATED 6/2/86
Variables: GR.M.01, GR.M.02, GR.M.04, GR.M.05, AND GR.M.06
## REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

**CONTROL PROJECTION CASE III.**

*(PERCENTAGE)*

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**SOURCE:** DSET GEAR.2Z--CREATED 6/2/86

**VARIABLES:** GR.M.08, GR.M.09, GR.M.11, GR.M.12, AND GR.M.14
### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

**CONTROL PROJECTION CASE III.**

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**SOURCE:** DSET_CEAR.2Z--CREATED 6/2/86

**VARIABLES:** GR.M.15, GR.M.16, GR.M.17, GR.M.18, AND GR.M.21
### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

**CONTROL PROJECTION CASE III.**

**PERCENTAGE**

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**SOURCE:** DSET GEAR.2Z---CREATED 6/2/86

**VARIABLES:** GR.M.24, GR.M.25, GR.M.26, GR.M.27, AND GR.M.29
### Regional Model Population Growth Projections

**Control Projection Case III.**

(Percentage)

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**Source:** DSET CEAR.22--CREATED 6/2/86

**Variables:** GR.P.01, GR.P.02, GR.P.04, GR.P.05, and GR.P.06

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Source: DSET GEAR.2Z—CREATED 6/2/86
Variables: GR.P.08, GR.P.09, GR.P.11, GR.P.12, AND GR.P.14
### REGIONAL MODEL POPULATION GROWTH PROJECTIONS

***************

**CONTROL PROJECTION CASE III.**

***************

**(PERCENTAGE)**

***************

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**SOURCE:** DSET CEAR.2Z--CREATED 6/2/86

**VARIABLES:** GR.P.15, GR.P.16, GR.P.17, GR.P.18, AND GR.P.21

---

**III-20**
REGIONAL MODEL POPULATION GROWTH PROJECTIONS

CONTROL PROJECTION CASE III.

(PERCENTAGE)

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SOURCE: DSET CEAR.2Z--CREATED 6/2/86
VARIABLES: GR.P.24, GR.P.25, GR.P.26, GR.P.27, AND GR.P.29
1986 CONTROL PROJECTIONS

SUMMARY OF MAP MODEL ASSUMPTIONS: CASE III [CEA.2Z]

[Differences from Case I]

A. PETROLEUM REVENUE ASSUMPTIONS: DOR MARCH 1986 (S86.P2)
B. FISCAL ASSUMPTIONS: PERMANENT FUND EARNINGS USED, INCOME TAX IN, DIVIDEND OUT
C. INDUSTRY ASSUMPTIONS: RAPID GROWTH (S86.P2)
D. NATIONAL VARIABLE ASSUMPTIONS: MODERATE GROWTH

DESCRIPTION(a)

A. PETROLEUM REVENUE ASSUMPTIONS

1. Severance Taxes
   Based on 70 percent probability projections published by the Alaska Department of Revenue. In 1985 dollars, the price of oil rises gradually from $21 in 1988 to $23 in 2000. After 2002, revenues remain constant in nominal dollars (DOR.M6.7). No change in tax regulations. Partial TAPS settlement revenues included [RPTS].

2. Royalties
   Based on 70 percent probability projections published by the Alaska Department of Revenue. After 2002, revenues remain constant in nominal dollars (DOR.M6.7) [RPRY].

B. FISCAL ASSUMPTIONS

10. Permanent Fund Dividend
    Eliminated after FY 1992 distribution [EXPFDIST].

11. Use of Permanent Fund Earnings
    Half of the earnings allocated to the general fund beginning in FY 1993, rising to 100 percent of earnings by 1999 [EXPFTOGF].

12. Permanent Fund Principal
    Continuous accumulation but inflation-proofing eliminated in 1999.

(a) Codes in parentheses indicate ISER names for MAP Model SCN_case files, and codes in brackets indicate MAP variable names.
C. INDUSTRY ASSUMPTIONS

2. North Slope Petroleum Production

Petroleum employment increases through the early 1990s to a peak of 4.6 thousand and subsequently tapers off gradually. Construction employment continues at a reduced level (NSO.86S).

12. Agriculture

Continued state support results in expansion of employment in agriculture by 4 percent annually (ACR.H86).

17. Commercial Fishing---Bottomfish

The total U.S. bottomfish catch expands with Alaska resident harvesting employment rising to 1,000. Onshore processing capacity expands in Southcentral and Southwestern Alaska to provide total resident employment of 1,500 by 2000 (BCF.S86).

D. NATIONAL VARIABLE ASSUMPTIONS
### TABLE 1. STATE AGGREGATES

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<th>Year</th>
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<th>Employment (000)</th>
<th>Non-Ag Wage and Salary</th>
<th>Personal Income (1985 $)</th>
<th>Per Capita</th>
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<td>Migration</td>
<td>Total</td>
<td>Non-Ag Wage and Salary</td>
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**Source:** DSET CEA.3Z; Variables: POP, POPMIG9, EM99, EM97, DF.PI, DFP.PI
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SOURCE: DSET.CEA.3Z

### Table 3. Components of Employment (thousands)

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<th>Total</th>
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<th>State/Local Government</th>
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**Source:** DSET CEA.3Z

**Variables:** EM99, EM9BASE, EM9GOV, EM9SUPRT, EM9INFR

Basic Employment includes large project construction, manufacture for export, mining, tourism, federal employment, agriculture, fishing, timber, and large pipeline.

Support Employment includes the support components of trade, finance, services, and manufacturing as well as proprietors not involved in fishing.

Infrastructure Employment includes construction, transportation, communications, public utilities, and business services.
### TABLE 4. STATE REVENUES
(1985 million $)

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SOURCE: DSET CEA.3Z

VARIABLES: DF.EXGFB, DF.RSGFB, DF.RP9SG, DF.RSENG, DF.RSIN, DF.BALPF
### Table 5. Miscellaneous Variables

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**Source:** DSET CEA.3Z

**Variables:** PDANCP, PDRATIO
### EMPLOYMENT AND POPULATION  
(CENSUS DIVISIONS)  

REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS  

CONTROL PROJECTION CASE IV.  
(THOUSANDS)  

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SOURCE: DSET CEAR.3Z--CREATED 6/2/86  
VARIABLES: M.01, M.02, M.04, M.05, AND M.06
REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

CONTROL PROJECTION CASE IV.

(THOUSANDS)

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SOURCE: DSET CEAR.3Z--CREATED 6/2/86
VARIABLES: M.08, M.09, M.11, M.12, AND M.14
### REGIONAL MODEL TOTAL EMPLOYMENT PROJECTIONS

**CONTROL PROJECTION CASE IV.**

* (THOUSANDS) *

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**SOURCE:** DSET GEAR.3Z--CREATED 6/2/86

**VARIABLES:** M.15, M.16, M.17, M.18, AND M.21

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SOURCE: DSET CEAR.3Z--CREATED 6/2/86
VARIABLES: M.24, M.25, M.26, M.27, AND M.29
REGIONAL MODEL TOTAL POPULATION PROJECTIONS

CONTROL PROJECTION CASE IV.

(THOUSANDS)

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SOURCE: DSET CEAR.3Z--CREATED 6/2/86
VARIABLES: P.01, P.02, P.04, P.05, AND P.06
REGIONAL MODEL TOTAL POPULATION PROJECTIONS

CONTROL PROJECTION CASE IV.

(THOUSANDS)

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SOURCE: DSET GEAR.3Z--CREATED 6/2/86
VARIABLES: P.08, P.09, P.11, P.12, AND P.14
## Regional Model Total Population Projections

**Control Projection Case IV.**

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**Source:** DSET CEAR.3Z—Created 6/2/86

**Variables:** P.15, P.16, P.17, P.18, and P.21
### REGIONAL MODEL TOTAL POPULATION PROJECTIONS

**CONTROL PROJECTION CASE IV.**

(THOUSANDS)

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<th>YUKON/KOYOKUK</th>
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*SOURCE: DSET CEAR.3Z—CREATED 6/2/86
VARIABLES: P.24, P.25, P.26, P.27, AND P.29*
### Employment and Population Growth Rates (Census Divisions)

#### Regional Model Employment Growth Projections

**Control Projection Case IV.**

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**Source:** DSET CEAR.3Z--CREATED 6/2/86

**Variables:** GR.M.01, GR.M.02, GR.M.04, GR.M.05, AND GR.M.06

IV-14
## Regional Model Employment Growth Projections

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**Source:** DSET CEAR.3Z—CREATED 6/2/86

**Variables:** GR.M.08, GR.M.09, GR.M.11, GR.M.12, AND GR.M.14
### Regional Model Employment Growth Projections

**Control Projection Case IV.**

**Percentage**

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**Source:** DSET GEAR.3Z—created 6/2/96

**Variables:** GR.M.15, GR.M.16, GR.M.17, GR.M.18, and GR.M.21

IV-16
### REGIONAL MODEL EMPLOYMENT GROWTH PROJECTIONS

CONTROL PROJECTION CASE IV.

(percentage)

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SOURCE: DSET CEAR.3Z--CREATED 6/2/86

VARIABLES: GR.M.24, GR.M.25, GR.M.26, GR.M.27, AND GR.M.29
### Regional Model Population Growth Projections

**Control Projection Case IV.**

(Percentage)

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**Source:** DSET CEAR.3Z—created 6/2/86  
**Variables:** GR.P.01, GR.P.02, GR.P.04, GR.P.05, and GR.P.06
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SOURCE: DSET CEAR.32--CREATED 6/2/86
VARIABLES: GR.P.08, GR.P.09, GR.P.11, GR.P.12, AND GR.P.14
### REGIONAL MODEL POPULATION GROWTH PROJECTIONS

**CONTROL PROJECTION CASE IV.**

(Percentage)

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**SOURCE:** DSET CEAR.3Z--CREATED 6/2/86

**VARIABLES:** GR.P.15, GR.P.16, GR.P.17, GR.P.18, AND GR.P.21
### REGIONAL MODEL POPULATION GROWTH PROJECTIONS

**CONTROL PROJECTION CASE IV.**

(Percentage)

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**SOURCE:** DSET GEAR.3Z--CREATED 6/2/86

**VARIABLES:** GR.P.24, GR.P.25, GR.P.26, GR.P.27, AND GR.P.29

IV-21
1986 CONTROL PROJECTIONS

SUMMARY OF MAP MODEL ASSUMPTIONS: CASE IV [CEA.32]

[Differences from Case I]

A. PETROLEUM REVENUE ASSUMPTIONS: DOR MARCH 1986 (S86.P3)
B. FISCAL ASSUMPTIONS: PERMANENT FUND EARNINGS USED, INCOME TAX IN, DIVIDEND OUT
C. INDUSTRY ASSUMPTIONS: VERY RAPID GROWTH (S86.P3)
D. NATIONAL VARIABLE ASSUMPTIONS: MODERATE GROWTH

DESCRIPTION(a)

A. PETROLEUM REVENUE ASSUMPTIONS

1. Severance Taxes

   Based on 90 percent probability projections published by the Alaska Department of Revenue. In 1985 dollars, the price of oil rises from $24 in 1987 to $31 in 2000. After 2002, revenues remain constant in nominal dollars (DOR.MG.8). No change in tax regulations. Partial TAPS settlement revenues included [RPTS].

2. Royalties

   Based on 90 percent probability projections published by the Alaska Department of Revenue. After 2002, revenues remain constant in nominal dollars (DOR.MG.8) [RPRY].

B. FISCAL ASSUMPTIONS

10. Permanent Fund Dividend

   Eliminated after FY 1995 distribution [EXPFDIST].

11. Use of Permanent Fund Earnings

   Half of the earnings allocated to the general fund beginning in FY 1996, rising to 100 percent of earnings by 2002 [EXPFTOGF].

12. Permanent Fund Principal

   Continuous accumulation but inflation-proofing eliminated in 2002.

(a) Codes in parentheses indicate ISER names for MAP Model SCEN_case files, and codes in brackets indicate MAP variable names.
C. INDUSTRY ASSUMPTIONS

2. North Slope Petroleum Production
   Petroleum employment increases through the early 1990s to a peak of 4.6 thousand and subsequently tapers off gradually. Construction employment continues at a reduced level (NSO.86S).

6. Beluga Chuitna Coal Production
   Development of 11 million ton/year mine for export beginning in 1988 provides total employment of 765 (BCL.11T(-7)).

11. Other Mining Activity
   Mining employment not included in special projects increases from current level at 3 percent annually (OMN.H86).

12. Agriculture
   Continued state support results in expansion of employment in agriculture by 4 percent annually (AGR.H86).

17. Commercial Fishing--Bottomfish
   The total U.S. bottomfish catch expands with Alaska resident harvesting employment rising to 1,000. Onshore processing capacity expands in Southcentral and Southwestern Alaska to provide total resident employment of 1,500 by 2000 (BCF.S86).

21. Tourism
   Number of visitors to Alaska increases by 50,000 per year to about 1.7 million by 2010 (TRS.S86).

23. Kenai Peninsula LNG
   A 400 mmcf liquefaction plant, 300-mile pipeline gathering system, and loading dock are constructed on the Kenai Peninsula in the late 1990s. Construction employment covers 4 years beginning in 1997 at 146 and peaking in 1999 at 1,300. Operations employment of 100 begins in 2001 (PAL.EIS(-15)).
24. TAGS Pipeline

A pipeline to transport North Slope natural gas to market in Japan is constructed between 2000 and 2008. The line extends from Prudhoe Bay to Kenai and includes compression stations, conditioning facilities, and a liquefaction plant. Construction employment is 890 in the initial year, rises to a peak of 4,782 in 2003, and falls to 3,692 in 2008. Operations employment rises from 236 in 2005 to 435 in 2010. Construction and operations employment occurs all along the pipeline corridor. On the Kenai Peninsula, employment begins at 73 in 2000, rises to 2,673 in 2003, and is 200 in the operations phase (TAG.H1C).

D. NATIONAL VARIABLE ASSUMPTIONS