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APPENDICES

THE ECONOMIC IMPACT

NASA R & D SPENDING

PRICES SUBJECT TO CHANGE

PREPARED FOR!

MATIONAL AERONAUTICS AND SPACE ADMINISTRATION _____ UNDER CONTRACT NO. MASW-2741 WASHINGTON, D. C.

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APPENDICES

TO

THE ECONOMIC IMPACT

OF

NASA R & D SPENDING

PREPARED FOR:

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION UNDER CONTRACT NO. NASW-2741 WASHINGTON, D. C.

PREPARED BY:

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Appendix A

Theoretical and Empirical Development of Aggregate Production Functions

1. Cobb-Douglas Functions

The development of the aggregate production function stems from 1928, when C. W. Cobb and P. H. Douglas published their seminal article entitled, "A Theory of Production" (12). The first form of the equation which they tested incorporated constant returns to scale but did not include any term for technological change. This well-known function can be written as

(1) $X = AL^{\alpha}K^{1-\alpha}$

where

X =actual production in the manufacturing sector

A = scale factor

L = number of workers employed, manufacturing sector

 α = elasticity of output with respect to labor

K = amount of fixed capital, manufacturing sector

The approach has been generalized to include the total private nonfarm sector, but the original Cobb-Douglas study was done only for the manufacturing sector because of data limitations.

In his well-known article, "Are There Laws of Production?" (20), Douglas mentions that David Durand (21) suggested that he try estimating this function without imposing the assumption of constant returns to scale, and also that the study be expanded to include cross-section estimates; both of these were tried. Douglas' further results indicated that even if constant returns to scale were not imposed on the function, the sum of the coefficients $\alpha+\beta$ in the function

(2) $X = AL^{\alpha}K^{\beta}$

was very close to, although slightly less than, unity. However, the coefficient α from the cross-section data averaged only 0.63, significantly less than the



average of 0.77 taken from the time-series estimates. Furthermore, and probably more important, the value of α declined to 0.63 in the time-series regression in which Douglas eliminated the trend factor from each of the variables in his regression. He mentions that this finding "may be of some significance" but does not pursue the matter further.

The concept that generalized trend factors which were not related to labor or capital also contributed to economic growth could not go unattended, however. The first attempts to incorporate a time trend in the Cobb-Douglas function appears to have been undertaken by Tinbergen (64) and by Valavanis (65) in his growth model of the U. S. economy 1869-1953. Both economists wrote their equations in the now-familiar form of

(3)
$$X = AL^{\alpha}K^{\beta}e^{\gamma t}$$

and found that γ ranged from 0.75% to 1.5% per year. Using a somewhat different approach, Schmookler (60) found that γ was approximately 1.5% per year for the period 1909 to 1934.

In the meantime, a number of very substantial studies were being undertaken, mostly under the auspices of the NBER, to measure the determinants of economic growth. Foremost among these were works by Abramovitz (1), Fabricant (25) and Kendrick (32). All of these studies endorsed the position that factors other than labor and capital were responsible for economic growth in the U. S. economy. Clearly increases in output/manhour could not be explained by increases in the capital stock alone.

The seminal attempt to handle this problem on a rigorous basis is due to Solow, in his famous "Technical Change and the Aggregate Production Function" (61). Apparently somewhat defensive about his use of such a concept as the aggregate production function, Solow states that "the aggregate production function is only a little less legitimate a concept



than, say, the aggregate consumption function ... As long as we insist on practicing macro-economics we shall need aggregate relationships."

These apologies to his M.I.T. colleagues out of the way, Solow then proceeds to his principal development, which is "an elementary way of segregating variations in output per head due to technical change from those due to changes in the availability of capital per head." The production function which Solow chooses is written as

(4)
$$X = A(t) f(K,L)$$

No attempt is made to impose the Cobb-Douglas form at this point, although this is the form which he actually prefers both in this article and in his next article, discussed below. The form chosen by Solow incorporates the assumption of neutral technical change, which is to say that shifts in the production function leave marginal rates of substitution unchanged, simply increasing or decreasing the output attainable from given inputs.

If we differentiate (4) above with respect to time and divide by X, we obtain

(5)
$$\frac{\Delta X}{X} = \frac{\Delta A}{A} + A \frac{\partial f}{\partial K} \frac{\Delta K}{X} + A \frac{\partial f}{\partial L} \frac{\Delta L}{X}$$

If we define w_L and w_K as the relative shares of labor and capital, then

(6)
$$w_L = \frac{\partial X}{\partial L} \frac{L}{X}$$
 and $w_K = \frac{\partial X}{\partial K} \frac{K}{X}$

since

(7) $\frac{\partial X}{\partial L} = A \frac{\partial f}{\partial L}$ and $\frac{\partial X}{\partial K} = A \frac{\partial f}{\partial K}$

we then obtain

(8) $\frac{\Delta X}{X} = \frac{\Delta A}{A} + w_L \frac{\Delta L}{L} + w_k \frac{\Delta K}{K}$

Solow estimates a variant of this function for the period 1909-1949, and finds that $\frac{\Delta A}{A}$ (which is, of course, our γ) has increased about 1.5% per year over the



period, which is close to other results in spite of an embarrassing error in the data which causes Solow to omit seven years of data with a comment that "it would be better if they (the omitted observations) could be otherwise explained away."

At several points in his article Solow hints at the fact that his method is incomplete because it does not take into account improvements in quality of the labor force or the capital stock; however, he does not develop this concept formally. The concept that technical progress takes place through an increase in investment, which has become one of the cornerstones of productivity theory and measurement, was first propounded by Leif Johansen, in his "Substitution Versus Fixed Production Coefficients in the Theory of Economic Growth: A Synthesis" (30). Johansen's principal assumptions are stated as follows:

From the point of time when an amount of capital is produced, it will shrink according to a given function of its age. The labour input needed to operate the capital and the production achieved shrink proportionately ... we assume that each amount of capital consists of a certain number of identical pieces or units which are operated in the same way and retain their productive efficiency during their entire life time.

New production techniques can be introduced only by means of new capital equipment.

The Johansen paper, while thorough and accurate, is not easy to follow and drifts off into a detailed discussion of solution of Bernoulli mixed differencedifferential equations. Consequently, the approach which is usually followed is once again due to Solow, who, in his inimitable fashion has popularized this entire approach by coining the term "vintages" of capital. As a matter of fact the term is rather inappropriate, for while wine improves with age, capital equipment certainly does not. Yet the idea of vintage models is known



to virtually all who have toiled in the economic vineyard, while the method of solution for mixed differential-difference equations is still considered as one of the more esoteric corners of economics. In addition, the Solow exposition is quite a bit clearer, so we follow his approach in formulating this concept.

Solow starts out with the by now familiar Cobb-Douglas production function with constant returns to scale and exponential growth, i.e.,

(9)
$$X = AL^{\alpha}K^{1-\alpha}e^{\gamma t}$$

He then distinguishes capital equipment of different dates of construction or vintages. $K_v(t)$ represents the number of machines or units of capital of vintage v (i.e., produced at time v) still in existence at time $t \ge v$, so we can write

(10) $K_v(t) = I(v) e^{-\lambda(t-v)}$

where λ is the economic depreciation rate of capital and hence $1/\lambda$ is the average length of life of capital.

This implies that

(11)
$$X_t = AL^{\alpha}J^{1-\alpha} e^{-\lambda(1-\alpha)t}$$

where

(12) $J(t) = \int_{-\infty}^{t} e^{(\lambda + \frac{\gamma}{1-\alpha})} I(v) dv$

If $\lambda=0$ then this reduces to the original equation (9) above.

Thus Johansen and Solow have introduced into the production function the fact that technological progress occurs largely through higher rates of investment; that if investment were to remain stagnant, the residual factor which was previously assumed to be exogenous or due to autonomous growth would in fact rise much less rapidly. This is known as embodied



technical change, since the improvements in technology are embodied in new capital. This assumption is now standard when working in the area of production functions.

One minor difference exists between the Solow and Johansen approaches. Johansen assumes that the capital/labor ratio for each vintage is fixed at the moment capital is produced and is invariant thereafter; this approach was later named "putty-clay" by Phelps (57) and is the more usual assumption. Solow, on the other hand, assumes that factor proportions are freely variable throughout the life of the equipment, a view which is not often utilized.

The major attempt to introduce improvements in the quality of labor has, as we have seen, been provided by Denison. We could interpret Denison's results in the manner of Solow, in which case we would have

(13)
$$X_t = A' (Lq)_t^{\alpha} J_t^{1-\alpha} e^{-\lambda(1-\alpha)t}$$

where q is an overall index of labor quality.

Nelson (53) has shown that the Solow function with embodied technical change (11) can be closely approximated by

(14)
$$\frac{\Delta X}{X} = \begin{bmatrix} \frac{\Delta A}{A'} + (1-\alpha) \lambda \bar{\alpha} \mu_K \end{bmatrix} + \alpha \frac{\Delta L}{L} + (1-\alpha) (1+\mu_K \bar{a}) \frac{\Delta K}{K}$$

where

 \bar{a} = average age of capital

 $\mu_{\rm K}$ = average rate of increase in the quality of new capital goods. In other words, using the embodiment hypothesis does not fundamentally alter the Cobb-Douglas function, but does increase the coefficient attached to capital stock growth by a factor of (1+ $\mu \bar{a}$). While exact estimates are not available, we probably have $\mu \cong 0.02$, $\bar{a} \cong 17$. Since (1- α) \cong 1/4 under the



original Cobb-Douglas hypothesis, $(1-\alpha)$ $(1+\mu\bar{a}) \cong 0.33$ when embodied technical change is considered. These estimates agree very closely with recent factor share data.

The quality of labor improvement term suggested by the work of Denison is not so easily handled. Using the same method of approximation used to derive (14) above, equation (13) can be transformed to

(15)
$$\frac{\Delta X}{X} = \frac{\Delta A^{\star}}{A^{\star}} + \alpha_{\mu_{L}} + (1-\alpha)\mu_{K} - (1-\alpha)\mu_{K} \Delta \bar{a} + \alpha \frac{\Delta L}{L} + (1-\alpha) \frac{\Delta K}{K}$$

where

 μ_r = average rate of increase in the quality of labor.

One might think that the treatment of $\mu_{\rm K}$ and $\mu_{\rm L}$ would be symmetrical; however, that is not the case. The difference lies in the fact that $\mu_{\rm K}$ applies to <u>new</u> capital, while $\mu_{\rm L}$ applies to <u>all</u> labor. Hence $\mu_{\rm L}$ does not represent the productivity increase embodied in labor in the same sense that $\mu_{\rm K}$ represents this increase for capital. Thus as a practical matter, Denison must make various adjustments which result in treating the calculation of $\mu_{\rm L}$ as if it applied to new applicants to the labor force. This is accomplished primarily by using education as the principal determinant of $\mu_{\rm L}$; it can then reasonably be argued that improvements in basic educational standards principally affect new entrants to the labor force.

Once one has explored the embodiment hypothesis for labor and capital, there is little else which can be done with the Cobb-Douglas function. Repeated attempts to determine whether or not the assumption of constant returns to scale is justified has almost always resulted in the sum of $\alpha+\beta$ not significantly different from unity -- with approximately as many values above unity as below. The only major extension of the function has been in



the area of adding third or fourth factors, such as land, raw materials, or in the case of Raines (59), research and development as additional factors of production. These results are adequately summarized in Walters (66).



2. CES Production Functions

The floodgates of research were opened by the development of the constant elasticity of substitution (CES) production function, which lifted the restriction that the elasticity of substitution be restrained to unity, as is assumed by the Cobb-Douglas function. This function is usually credited to Arrow, Chenery, Minhas and Solow (4) but was also developed independently by Brown and deCani (7). The CES function is derived from the relationship

(16)
$$\log\left(\frac{X}{L}\right) = a + \sigma \log\left(\frac{w}{p}\right)$$

where

w = wage rate

p = price of output

 σ = elasticity of substitution

This relationship, while not as restrictive as the Cobb-Douglas function, still assumes the following:

a) cost minimization

b) the existence of an aggregate production function with disembodied technical change

c) no adjustment lag between (X/L) and (w/p). As we have indicated in the text, this is a very stringent and unrealistic assumption. The usual CES function derived from (16) is

(17)
$$X = \gamma \left[\delta K^{-\rho} + (1-\delta)L^{-\rho} \right]^{-\mu/\rho}$$

where
 γ = parameter of efficiency
 δ = parameter of distribution

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 ρ = parameter of substitution

 μ = degree of returns to scale

Note that $\sigma = \frac{1}{1-\sigma}$



The major pitched battle in this area has taken place over whether σ is significantly less than unity; for if it is not, Cobb-Douglas will suffice.

Once again a useful approximation by Nelson () throws some light on the relevance and importance of σ . He shows that the CES production function can be closely approximated by

(18)
$$\frac{\Delta X}{X} = \frac{\Delta A}{A} + \alpha \frac{\Delta L}{L} + (1-\alpha) \frac{\Delta K}{K} + \frac{1}{2} \alpha (1-\alpha) \frac{\sigma-1}{\sigma} \frac{\Delta K}{K} - \frac{\Delta L}{L}^{2}$$

Suppose we substitute some reasonable values: $\frac{\Delta A}{A} = 0.02$, $\alpha = 2/3$, $\frac{\Delta L}{L} = 0.02$, $\frac{\Delta K}{K} = 0.04$, and then solve for $\frac{\Delta X}{X}$ with $\sigma = 1$ and $\sigma = 1/2$. Carrying out the indicated arithmetic, we find that

For
$$\sigma = 1$$
: $\frac{\Delta X}{X} = 0.02 + \frac{2}{3}(0.02) + \frac{1}{3}(0.04) = 4.67\%$

For
$$\sigma = 1/2$$
: $\frac{dX}{X} = 0.0467 - \frac{1}{2} \cdot \frac{2}{3} \cdot \frac{1}{3} (0.02)^2 = 0.0467 - 0.00004$

Clearly the additional term contributes virtually nothing.

Nerlove, who introduces Nelson's approximation into his review article on CES and related production functions (55), then feels obligated to defend the possibility of $\sigma \neq 1$. He first points out that the results may be significantly different if longer periods of time are considered. However, he offers no empirical evidence of this, and if we repeat the calculations given above over a 50-year period, we still find little difference in the results. Second, Nerlove states that the results might be different if the growth rates for labor and capital were modified to take quality changes into account, but he admits these factors are probably offsetting. Third, he appeals to differences at the industry level, claiming that differences in σ among industries may lead to significant effects on the rate of growth, and he suggests that high elasticities of substitution in primary production and lower elasticities of substitution



in secondary and tertiary industries would be consistent with the behavior of the labor force in developed economies (55, pg. 57). However, the results which Nerlove examines later do not support his conjecture.

A partial answer to the importance of this sector order term is provided by Kmenta (34), who estimates a variant of the Nelson approximation, namely

(19) $\log X = \log \gamma + \frac{\mu \delta}{L} \log (\frac{K}{L}) + \frac{\mu(1-\delta)}{L} \log L - \frac{\mu \rho \delta(1-\delta)}{2} \log (\frac{K}{L})^2$

where γ , μ , δ , and ρ are as in equation (17).

Kmenta does find the second-order term significant, although higher-order terms are not, unless σ is greatly different from unity and the K/L ratio is either very high or very low.

Nerlove then reviews a number of studies in order to determine whether any consensus estimate of σ can be obtained by adjusting the various studies for differences in data, sample period, functional form, independent variables, and other variants. He first turns to cross-section studies, and analyzes the results of Arrow, Chenery, Minhas & Solow (4), Fuchs (27), Minasian (48), Solow (63), Liu and Hildebrand (36), and Dhrymes (17). The first two studies deal with inter-country comparisons, while the other studies deal with two-digit manufacturing industries in the U. S. Nerlove tries to explain some of the differences on the basis of different times in the business cycle, which is a very sensible approach, but then muffs his explanation by incorrectly referring to 1957 as a recession year. In spite of his heroic effort, no progress is made in trying to force these results into agreement.

The time-series which Nerlove compares include studies by McKinnon (45, 46), Kendrick (32), Ferguson (26), Maddala (39), and Lucas (37).



Again the emphasis is placed on two-digit industry classifications in the manufacturing sector. While one might be inclined to think that the timeseries estimates might be more consistent than the cross-section estimates because they all use virtually the same data, this is emphatically not the case. All researchers except Ferguson report negative σ for at least one industry, and the typical variation ranges from $\sigma = 0.03$ to greater than unity for most industries. Again no agreement seems possible.

While it is not possible for Nerlove, nor do I think it possible for anyone else, to resolve all the disparate values of σ , the following major points appear to emerge:

(1) The value of σ is very sensitive to the method of estimating due to the simultaneous determination of X/L and W/P. Thus regressing log (X/L) on log (W/P), which is the usual method, gives far different results than regressing log (W/P) on log (X/L). The differences are actually quite striking. Using Monte Carlo methods, Maddala and Kadane (40) found that the simulated value of σ for a true value of $\sigma = 0.4$ could vary anywhere from 0.10 to 0.63 depending on which dependent variable was used and the assumptions about the residual variance-covariance matrix. For a true value of $\sigma = 1.6$, the simulated values ranged from 0.60 to 2.12. Thus the estimation of σ is peculiarly sensitive to the method of estimation used.

(2) The CES production function is usually written in terms of labor inputs. Thus theoretically one would expect the same estimate of σ from the equation

(20)
$$\log \left(\frac{X}{K}\right) = a' + \sigma' \log \left(\frac{r}{p}\right)$$

where

r = rental cost of capital

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However, estimates of σ derived from (16) and (20) give significantly different estimates, as found by Dhrymes (18) and Liu and Hildebrand (36). This probably suggests that σ varies with respect to various facets of L and K and hence is not constant at all.

This realization has led to a number of variants of the CES function, which are usually classified under the headline of VES (variable elasticity of substitution). A number of VES variants are summarized in Nadiri (51). All of these forms involve beginning with the basic function (16) and adding various terms. These extensions have taken three basic forms:

(a) Intertemporal changes: inputs do not adjust immediately to changes in output. This is the point which we have tried to stress in the main body of this report, and was in fact suggested at an early date. However, for reasons which are not immediately apparent, the empirical investigations of this contract have been rather puny in comparison to the mountains of work centered on trying to estimate "the" value of σ . The major developments have been as follows:

(i) Use of lagged values of (W/P) to distinguish between short- and long-run effects of adjustments to changes in output, much as lagged assumption is often contained in the consumption function. The lagged values of (W/P) can also be interpreted as a proxy for expected factor prices in the future. This is the approach used by Brown and De Cani (7) and Brown and Conrad (6).

(ii) Integration of short- and long-run production functions within the context of a dynamic structure emphasizing the cost of adjustment in moving from one level of production to the next. Firms are assumed to combine simultaneously the existing levels of input for production in the



current period and prepare for production in future periods. This approach amounts to maximizing the intertemporal profit function.

(20)
$$R = \int_{0}^{\infty} F(X(t)) - C(X(t)) - B(dX(t)) e^{-rt} dt$$

where

R = present value of net receipts

F(X) = production function

C(X) = cost function

B(dX) = adjustment cost function that depends upon the rate of change of the inputs

r = discount rate

The first general mention of this approach appears to be by Eisner (22) in his comment to Solow's work (62); it follows his work distinguishing between temporary and permanent effects of changes in output and investment (23, 24). The theoretical development of this approach has also been advanced by Nerlove (55) and Dhrymes (18); empirical testing has been attempted by Nadiri and Rosen (52). They found that adding the rate of capacity utilization improved the function significantly, a result which we also found important in our study.

(iii) A variant of this approach has been developed by Arrow (3) in his "learning by doing" model. This model assumes that productivity of labor is directly proportional to the familiarity of performing a given task. Arrow chooses as his example the manufacture of airplane frames, where the evidence of such an effect appears to be solid. However, this approach has not been extended on an empirical basis to estimation of production functions at the industry or aggregate level.

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(b) Use of both labor and capital in the production function. For example, the invariance of σ to capital intensity is tested by fitting the relation

(22)
$$\log \left(\frac{X}{L}\right) = \log a + b \log \left(\frac{W}{P}\right) + c \log \left(\frac{K}{L}\right)$$

This is the approach taken by Liu and Hildebrand (36). This function can be integrated to the form

(23)
$$\frac{X}{L} = \left[A \left(\frac{K}{L}\right)^{-\rho} + B \left(\frac{K}{L}\right)^{-m\rho}\right]^{-1/\rho}$$

where

- $A = \frac{-d(1-b)}{ba \ 1/b}$
- $B = \frac{1-b}{(1-b-c) a^{\frac{1}{b}}}$

$$\rho = \frac{1-b}{b}$$

$$m = \frac{c}{1-b}$$

d = constant of integration

A wide variety of other functions could easily be constructed, but this is the most usual formulation.

(c) Multi-factor production functions. As in the case of Cobb-Douglas, it is relatively straightforward to specify theoretically additional factors; however, it is not straightforward to estimate them, partly because even the two-factor CES function poses many estimation problems. The theoretical approach has been supplied by Hanoch (29) as

(24)
$$\log \left(\frac{Xi}{X1}\right) = A + b_1 \log \left(\frac{W1}{p}\right) - bi \log \left(\frac{Wi}{p}\right)$$



where

Xi are factor inputs Wi are factor prices

p is the product price

However, this function has not yet been empirically estimated.

An important contribution of a somewhat more restrictive nature has been offered by Brown and Conrad (6), in which they make all the parameters of the CES production function dependent upon education and research expenditures. The empirical results of their model show significant effects for these expenditures.

In spite of the great amount of theoretical and empirical research on the CES function, the question of whether $\sigma \neq 1$, and hence the more complicated form of the production function is justified, still remains very much in the air. There is, after all, no good reason why the extensions (a)-(c) of the CES function could not be applied to Cobb-Douglas as well. While the approximation given by Kmenta, allowing the CES function to be approximated linearly, is a useful one, it does serve to point out that in general twostep or nonlinear methods are required to estimate these equations. This poses several additional problems of specification; the problem is not, as Nerlove seems to think, one which can easily be overcome by the use of larger, faster, and more sophisticated computers. The work of Bodkin and Klein (5) in their nonlinear maximum likelihood estimates of CES functions reinforces what those who have worked with simultaneous equations have long come to realize: the greater the degree of simultaneity, the greater the dependence of the parameter estimates on initial specification of the model. The gain in elegance is left unsupported by the shaky empirical foundation.



In closing this brief review of the literature, it may be instructive to refer to Domar's comment (19) about Nerlove's long search for consistency among various CES estimates. Since all of Domar's comment is applicable, we quote it in full.

If it was found by Nelson, as quoted by Nerlove, that sizable changes in the elasticity of substitution produce very small effects on the other variables, it should follow that relatively small changes in the other variables should exert strong effects on the elasticity of substitution. The data being what they are, why is it surprising then that the magnitude of the elasticity of substitution derived in the several studies jumps all over the place?



Appendix B

Calculation of γ

One of the key elements in this study is the calculation of the time series for the rate of technological progress. As indicated on p. 49 of the main text, it is possible to develop a number of different series based on varying assumptions about full-capacity levels of output and employment.

We turn first to the actual series which we developed, as given in Table 3.1. As mentioned in the text on pp. 47-48, the series we used for $\Lambda X/X$ was based on the CEA trend series, as given in Denison (16, pg. 97) through 1971 and updated by us through 1974. We show the "gap" between actual and potential GNP using the CEA trend method; for purposes of comparison we also list the CEA series based on the unemployment rate and the Denison series, which we then discuss further. Measures of Potential GNP

			CEA Tren	1	CEA	Unemplo	yment	Denison				
	Actual GNP	Gap	Poten- tial	% Change	Gap	Poten- tial	% Change	Gap	Poten- tial	% Change		
1954	407.0	-17.0	424.0	3.5	-20.2	427.2	6.7	-17.5	424.5	2.8		
1955	438.0	- 0.8	438.8	3.5	- 5.5	443.5	3.8	0.6	437.4	3.0		
1956	446.1	- 8.1	454.5	3.5	- 1.9	448.0	1.0	- 4.0	450.1	2.9		
1957	452.5	-17.5	470.0	3.5	- 3.9	456.4	1.9	-10.9	463.4	3.0		
1958	447.3	-39.1	486.4	3.5	-40.1	487.4	6.8	-30.8	478.1	3.2		
1959	475.9	-27.6	503.5	3.5	-22.4	498.3	2.2	-13.3	489.2	2.3		
1960	487.7	-33.4	521.1	3.5	-23.9	511.6	2.7	-20.2	507.9	3.2		
1961	497.2	-42.1	539.3	3.5	-42.8	540.0	5.6	-27.3	524.5	3.3		
1962	529.8	-28.4	558.2	3.5	-26.1	555.9	2.9	-12.4	542.2	3.4		
1963	551.0	-27.6	578.6	3.6	-29.4	580.4	4.4	-12.1	563.1	3.9		
1964	581.1	-19.2	600.3	3.7	-21.9	603.0	3.9	1.2	579.9	3.0		
1965	617.8	- 5.0	622.8	3.83.94.04.04.0	-10.3	628.1	4.2	12.0	605.8	4.5		
1966	658.1	11.0	647.1		4.4	653.7	4.1	19.1	639.0	5.5		
1967	675.2	2.2	673.0		3.2	672.0	2.8	6.0	669.2	4.7		
1968	706.6	6.7	699.9		9.5	697.1	3.7	4.9	701.7	4.9		
1969	725.6	- 2.2	727.8		11.4	714.2	2.5	- 8.2	733.8	4.6		
1970	722.5	-34.5	757.0	4.0	-21.7	744.2	4.2	-27.4	749.9	2.2		
1971	746.3	-41.0	787.3	4.0	-45.9	792.2	6.4	-32.1	778.4	3.8		
1972	792.5	-26.3	818.8	4.0	-42.8	835.3	5.4	-23.3	815.8	4.8		
1973	839.2	-12.3	851.5	4.0	-27.7	866.9	3.8	-16.7	852.5	4.5		
1974	821.2	-64.4	885.6	4.0	-44.3	865.5	-0.2	-66.3	887.5	4.1		

All GNP figures are given in billions of 1958 dollars. % change refers to the change in potential GNP for each category.

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Chase Conometric Associates, Inc.

We then use the calculated figures for $\frac{\Delta L}{L}$ and $\frac{\Delta K}{K}$ to obtain γ , using the formula

 $\gamma = \frac{\Delta X}{X} - 2/3 \frac{\Delta L}{L} - 1/3 \frac{\Delta K}{K}$

When we use $\frac{\Delta X}{X}$ based on the CEA trend method, we obtain the series for γ given in Table 3.1 and use as the basis of our calculations throughout this study. Since the methodology for this procedure is given in the text on pp. 43-49 and the supporting data are listed in Appendix E, it is not necessary to discuss this method further in this appendix.

The CEA series for potential GNP based on unemployment can be rejected out of hand because of the factors associated with (a) the "blow-up" procedure associated with multiplying either GNP or employment by $\frac{1}{1-u}$, and (b) the problems with the assumption that a 4% rate of unemployment still represents full employment. Thus we have not repeated the exercise for this series.

The Denison method is much more sophisticated and deserves further analysis. Denison makes allowances for increase in quality as well as quantity of labor; he also makes a number of adjustments to capital stock which we do not use in our calculations. In addition, Denison attempts to factor in adjustments due to economies of scale. Thus in determining his series for potential GNP, Denison takes into account seven factors, which can be grouped into two general classifications:

 Factor inputs where the use of more labor and capital result in higher output.
 Total output per unit of input where an increase in output is obtained from the same quantity of resources.

The remainder of this appendix is devoted to a description of Denison's sources of growth in more detail.



Factor Inputs

1. Number of employed persons and their demographic composition.

This item is used by Denison simply as a measure of the quantity of labor. The size of the population, its distribution by age and sex and the participation rate are all considered separately as factors affecting the magnitude of total employment.

2. Hours worked, including the proportion of self-employed workers.

Denison incorporates the basic assumption that hours worked by different groups contribute different average amounts to the value of output. Accordingly, he defines ten age-sex groups, each of which is analyzed separately. Denison uses earnings as weights -- a key assumption throughout his work -which means he assumes that an average hour worked by one individual whose average hourly earnings are twice as high as another individual represents twice as much labor input. He finds that hours affect growth if they change as a result of:

(a) change in the relative number of full- and part-time workers --Denison finds a shift toward part-time employment.

(b) change in the average hours of part-time workers.

(c) change in the relative number of male and female workers. Female workers working an increased number of hours have a negative effect on the index because they traditionally have received lower earnings.

Based on the above three factors, hours have declined and have had a negative effect on growth. However, this finding is partially offset by two adjustments. An efficiency offset occurs when the decline in the number of hours



worked results in an increase or no decrease in productivity as a result of reduced fatigue and boredom. A second offsetting factor is referred to as the intergroup shift influence. A move from one labor force group to another may appear to reduce the aggregate number of hours worked. Yet a shift from farming, where long hours are recorded with low values of the marginal product of labor, to the manufacturing sector would not result in a decline in aggregate productivity but rather a structural shift in the labor force. Denison adjusts for this occurrence.

3. Education of employed persons.

Denison considers this variable to be one of the key determinants of economic growth; this index includes the kinds of work an individual performs and his proficiency as a result of education. Denison assigns different values of marginal products to individuals with different levels of education; once again marginal products are related to earnings.

Denison then calculates his index of labor input by multiplying employment times hours worked times an index of education. The growth in employment and the increasing education of the labor force result in an upward trend for this composite index.

4. Size of the capital stock.

Three types of capital stock are considered: inventories, nonresidential structures and equipment, and land. Denison points out that the measurement of capital stock is difficult; he uses the BEA estimates for his analysis, including the assumption of the Winfrey S-3 distribution for service lives. He also includes an additional adjustment for rising maintenance expenses and the deterioration of capital services with the passage of time. Land is assumed

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B-5



to affect growth only if some improvement of quality can be recognized. Denison finds no significant changes in land quality over his sample period (1929-1969) so this component of the capital input index remains constant. His series does not take into account the extent of utilization of capital but rather only considers the amount of capital in place; our calculations also incorporate this assumption.

5. State of knowledge and economies of scale.

Denison finds that the advance in knowledge is the biggest and most basic reason for the persistent long-term growth of output per unit of output; the results of our study attempt to quantify his finding.

Economies of scale are considered in some detail. The growth of markets allegedly brings opportunities for greater specialization allowing two important efficiencies -- longer production runs for individual products and larger transactions. Both of these items determine unit cost, and by reducing unit cost yield increasing returns. However, Denison admits he is not sure whether this factor should be measured separately or combined with the other determinants of growth.

6. Improved resource allocation.

Two fundamental misallocations of labor have traditionally existed but are gradually being corrected. A declining demand for farm workers has led to the movement of these workers to more efficient occupations. A similar movement causing an improvement in resource allocation has resulted from the shift of underutilized nonfarm self-employed workers to fully utilized positions as employees.

B-6



7. Irregular fluctuations.

Three different irregular components exist.

(a) Irregular fluctuations in farm output from factors such as weather.However, over the sample period the effects of this component have notbeen significantly different from zero.

(b) Work stoppages due to labor disputes has also had a negligible effect on long-term patterns of growth.

(c) Fluctuations in demand are by far the most important of the irregular components, since business cycle fluctuations strongly influence productivity. However, all the series we have used for potential GNP have attempted to adjust fully for this effect.



Appendix C

Calculation of the Industry Mix Variable

As stated on page 55, the industry mix variable is defined in this

study as

$$IM_{t} = \sum_{i=1}^{N} \omega_{it} - \frac{(XIP_{i})}{(XIP_{m})} - t$$

where

 IM_{+} = industry mix variable at time t

 ω_{it} = average level of productivity (output/man-hour) for each of i industries in the tth year

$$XIP_{i_{t}}$$
 = index of industrial production for the ith industry in year t, 1967=100.0
 $XIP_{m_{t}}$ = index of industrial production for the manufacturing sector in year t,
 $1967=100.0$

The actual data used for ω_i and XIP for each two-digit industry (with SIC 37 split into automotive and other transportation equipment) for 1955 to 1974 are shown in the following tables.

The two digit industry codes are as follows:

SIC 20	Food and kindred products
21	Tobacco manufactures
22	Textile mill products
23	Apparel and other fabricated textile products
24	Lumber and wood products, except furniture
25	Furniture and fixtures
26	Paper and allied products
27	Printing, publishing, and allied industries
28	Chemicals and allied products
29	Petroleum refining and related industries
30	Rubber and miscellaneous plastic products
31	Leather and leather products
32	Stone, clay, and glass products
33	Primary metal industries
34	Fabricated metal products
35	Machinery, except electrical
36	Electrical machinery
371	Motor vehicles and motor vehicle equipment
373	Transportation equipment and ordnance, except motor vehicles
38	Instruments
39	Miscellaneous manufacturing industries

	39	13 14 16	16 17 18 18 18 19	20 21 21 22	23 25 26 28 28	27
	38	16 16 17	18 18 18 18 20	21 22 25 25 25	26 29 30 32	21
	373	21 21 23 23	24 26 26 26	28 29 30 31	31 31 33 38 37	35
	371	49 47 50 48	52 58 66 64	65 69 67 71	71 65 75 80 83	77
	36	17 177 18	18 19 20 22	23 25 26 26	27 29 33 32	32
	35	23 22 24	24 24 25 27	28 28 30 31	31 32 33 35 37	37
	34	23 23 23	27 28 29	30 31 32 33 34	33 32 35 35 35	34
	33	41 40 37 37	40 41 42 43	45 45 45 45 47	46 45 46 47 48	46
	32	22 23 21 22	23 24 25 25	26 27 28 29	29 29 32 33	31
Values of w_{it}	31	14 14 15	14 14 15	15 15 16 16	16 16 18 19	18
lues c	30	19 18 18 21	22 23 24 25	26 26 28 28 28	30 31 32 33 33	33
- Val	29	79 84 84 93	102 103 108 114 124	136 136 139 139 143 154	162 160 165 174 197	203
° C.1	28	28 29 31	34 35 35 39	42 45 45 47	49 53 61 61	59
Table	27	15 15 16	17 17 18 18	19 20 21 21	21 21 22 23 23	23
	26	28 27 28	29 29 31 32	33 35 35 36 36	37 37 38 40 41	39
	25	17 17 17	17 17 17 18 18	19 19 19 20	20 21 23 23 23	22
	24	18 18 19 21	21 22 24 25 25	26 26 29 29 29	28 30 35 35	32
	23	13 14 15 15	14 15 15 15 16	17 17 16	17 17 18 19 19	18
	22	16 17 18	19 19 20 21 22	23 24 26 26	27 29 36 36	35
	21	73 76 80 89	94 98 105 106 108	109 113 113 111 111	121 119 132 156 156	150
	20	36 38 39 44	45 47 48 51	54 53 57 59	59 64 65 65	64
	Productivity	1955 1956 1958 1958	1959 1960 1961 1962 1963	1964 1965 1966 1967	1969 1970 1971 1972	1974

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XIPm
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Table

.

XIP30	35.2 42.9 42.8 45.6	53.7 54.5 56.8 64.4 69.2	74.4 84.0 97.0 99.8 112.5	119.6 115.8 125.9 145.6 163.8	-
XIP29	60.4 65.5 69.5 69.9 69.9	74.1 77.5 79.7 84.0 87.8	90.8 93.0 96.8 100.0 104.7	108.4 112.7 115.7 120.6 127.4	1
XIP28	31.9 37.3 40.0 42.3 43.6	50.9 52.8 55.5 61.6 67.3	73.9 82.1 92.8 100.0 109.9	120.4 120.2 126.2 139.6 150.4	-
XIP27	53.6 59.0 62.7 64.9 63.3	67.6 70.4 73.3 77.1	83.6 89.4 98.0 99.9 102.9	105.7 104.1 102.5 107.9 113.2) • •
XIP26	50.3 56.6 60.0 59.0 59.4	66.5 67.9 71.7 80.5	85.9 92.2 100.3 99.9 106.0	114.3 113.3 115.8 128.2 135.1	> > > > +
XIP25	56.9 66.2 68.8 68.8 64.9	72.6 71.9 70.5 80.6	85.9 93.1 101.1 100.0 105.4	107.5 99.4 102.2 113.5 125.8	
XIP24	67.6 75.5 74.5 68.4 69.6	79.2 74.3 77.6 82.0 85.8	90.9 94.7 98.4 99.9 104.8	108.7 106.4 114.0 122.4 127.6	
XIP23	66.6 73.5 75.2 75.0 73.0	80.3 81.9 82.4 85.8 89.3	93.8 98.4 100.7 100.0 101.5	102.5 97.8 97.9 105.6 113.3	
XIP22	57.9 66.0 67.7 64.6 63.7	72.1 70.7 72.8 77.7 80.5	87.1 95.4 101.6 100.0 108.8	113.3 106.3 108.3 117.4 128.3	7 - 7 T
XIP21	71.6 73.6 75.1 78.6 84.7	88.6 90.4 93.3 94.4 97.3	101.2 100.3 100.1 100.0 100.2	96.7 97.7 103.6 110.6	T • / AT
XIP20	62.4 66.0 69.8 70.9 72.7	76.2 78.4 80.6 83.1 86.1	89.7 91.9 96.7 100.0 103.8	108.2 111.7 114.9 118.6 122.5	7 * 0.7 T
DATE	1/54 1/55 1/56 1/57 1/57	1/59 1/60 1/61 1/62 1/63	1/64 1/65 1/66 1/67 1/68	1/69 1/70 1/71 1/72	T/ /4

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<u>WIIX</u>	51.5 58.2	61.2	56.9	64.1	65.4	65.6	71.4	75.8	81.2	89.1	98.3	100.0	105.7	110.5	105.2	105.2	114.0	125.1	124.5	
XIP39	50.9 65.1	65.5	59.5	65.4	67.9	70.2	74.8	78.3	83.4	94.1	100.4	100.0	106.9	115.4	117.4	120.5	130.9	143.4	144.5	
XIP38	39.6 44.2	48.5 50.7	47.6	55.2	57.9	57.3	59.8	66.4	71.3	82.8	95.2	100.0	106.6	116.1	110.8	108.5	120.1	138.3	143.9	
XIP373	50.4 50.4	57.4 62.4	51.9	52.4	49.8	50.2	55.2	59.8	63.4	70.7	89.7	100.0	101.9	100.2	84.1	72.6	75.8	81.2	81.2	
XIP371	65.8 88.8	71.4	55.1	72.4	81.4	71.8	87.2	96.4	100.3	117.4	114.2	100.0	117.6	115.7	97.8	114.2	123.1	137.8	112.9	
XIP36	38.0 43.7	47.2 46.9	42.9	52.2	56.6	60.1	69.0	71.0	72.8	83.3	97.5	<u>99.9</u>	103.3	107.7	100.1	98.4	109.5	126.6	125.3	
XIP35	45.3 49.7	56.9 56.8	47.7	55.7	55.9	54.4	60.9	65.1	75.7	84.7	99.7	100.0	100.6	106.0	100.5	94.3	105.7	125.1	133.0	
XIP34	59.9 68.3	69.3 71.1	63.7	71.5	71.6	69.8	75.9	78.4	83.2	92.6	100.6	100.0	106.3	113.6	109.5	107.5	114.8	130.6	130.5	
XIP33	65.1 84.8	83.4 80.6	64.4	73.2	73.8	73.6	77.9	84.2	95.9	103.9	108.9	100.0	103.0	114.2	106.9	100.6	113.3	126.5	123.5	
X1P32	62.4 72.2	76.4	72.4	84.1	81.2	80.7	85.7	90.8	95.9	101.2	105.3	100.0	105.9	112.6	106.4	110.0	118.6	129.7	125.8	
XIP31	90.2 99.0	100.0	97.2	103.8	98.6	98.0	100.9	99.3	100.8	103.5	104.9	100.0	105.5	96.0	9.06	87.4	88.9	83.6	77.4	
DATE	1/54 1/55	1/56	1/58	1/59	1/60	1/61	1/62	1/63	1/64	1/65	1/66	1/67	1/68	1/69	1/70	1/11	1/72	1/73	1/74	

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Appendix D

Estimation of Distributed Lags *

All distributed lag equations state that a dependent variable, Y, is determined by a weighted sum of past values of an independent variable, X:

(1)
$$Y_{t} = \sum_{i=0}^{n} w(i) X_{t-i}$$

If n, the number of relevant values of X is small, and if these successive past observations are not collinear, then the w(i), the weights with which the several present and past values are combined, can be estimated directly by least squares. When n is large, however, or when successive observations are too collinear for this straightforward treatment, it becomes necessary to make some reasonable, restrictive assumption about the pattern of the weights. The purpose of the Almon lag procedure is to choose a set of assumptions which makes the individual lag coefficients depend on a few parameters, which in turn can be estimated in some reasonably simply way.

The "interpolation distribution" assumes that the w(i) are values at x=0, ..., n of a polynomial w(x) of degree q+1, q<n, where n is the number of periods over which the distributed lag extends. Its estimation is based on the fact that once q+2 points on the curve are known -- w(x₀)=b₀, w(x₁)=b₁,..., w(x_{q+1})= b_{q+1} -- all the w(i) can be calculated as linear combinations of these known values by

(2)
$$w(i) = \sum_{j=0}^{q+1} a_j(i)b_j$$
 (i=0,...,n-1)

where the $a_{j}(i)$ are the values of x=i of the Lagrangian interpolation polynomials.

^{*} This treatment follows Shirley Almon (2). As a result the use of Lagrangian interpolation polynomials in econometrics are usually referred to as Almon lags.



$$a_{0}(x) = \frac{(x-x_{1}) (x-x_{2}) \dots (x-x_{q+1})}{(x_{0}-x_{1}) (x_{0}-x_{2}) \dots (x_{0}-x_{q+1})},$$

$$a_{1}(x) = \frac{(x-x_{0}) (x-x_{2}) \dots (x-x_{q+1})}{(x_{1}-x_{0}) (x_{1}-x_{2}) \dots (x-x_{q+1})},$$

$$a_{q+1}(x) = \frac{(x-x_{0}) (x-x_{1}) \dots (x-x_{q})}{(x_{q+1}-x_{0}) (x_{q+1}-x_{1}) \dots (x-x_{q})},$$

Note that these polynomials have the property that

$$a_{j}(x_{j})=1$$
 (j=0,...,q+1),
 $a_{j}(x_{k})=0$ (j≠k; j=0,...,q+1; k=0,...,q+1),

Thus

$$w(x) = \sum_{\substack{j = 0 \\ j = 0}}^{q+1} a_j(x)b_j$$

is indeed a polynomial of degree q+1 having the values b_j at the points x_j as required. Hence equation (2) is justified. Since we shall always want w(-1)=w(n)=0, i.e., zero weights before time 0 and after time n-1, we may take $x_0 = -1$, $x_{q+1} = n$, and $b_0 = b_{q+1} = 0$. Then equation (2) simplifies to

(3)
$$w(i) = \sum_{j=1}^{q} a_{j}(i)b_{j}$$
.

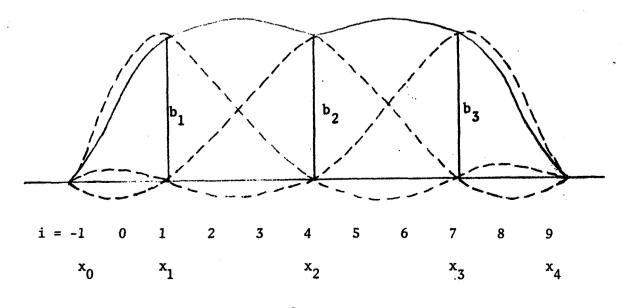


FIGURE 1. -- Example of Langrangian Interpolation



Figure 1 shows with dashed lines an example of the $a_j(x)$ for q=3, n=9, and $x_0 = -1$, $x_1=1$, $x_2=4$, $x_3=7$, $x_4=9$, assuming that $b_1=b_2=b_3$. The interpolated polynomial w(x), computed from (3), is drawn with a solid line.

Substituting (3) into (1) gives

(4)
$$Y_{t} = \sum_{i=0}^{n} \sum_{j=1}^{q} a_{j}(i)b_{j} \quad X_{t-i} = \sum_{i=1}^{q} b_{j} \sum_{i=0}^{n} a_{j}(i)X_{t-i}$$

The b_j can now be estimated by simply regressing the Y_t on the q variables

$$z_{tj} = \sum_{i=0}^{n} a_{j}(i) X_{t-i}, j=1,..., q.$$

The distributed lag weights are then calculated from (3). Another distributed lag or unlagged variables could be included in (4).

The Lagrangian interpolation polynomials can be utilized for both equal and unequally spaced intervals of the X_i , but econometric usage has been restricted to the case of equally spaced intervals. It makes no difference where in the interval (0,n) the parameter points X_i are located, since within this interval there can be only one polynomial of degree (q+1) which minimizes the sum of squares. The parameter points do not need to be integers, and in general they will not be. For example, if n=13, it would not be possible to choose any points X_i with equally spaced intervals which would be integers.

Various standard regression programs are then available which perform the following steps:

(a) Calculate the Lagrangian interpolation coefficients $a_j(i)$ as indicated above

(b) Compute n

$$Z_t = \sum_{i=0}^{\infty} a_j (i) X_{t-i}$$
 for all $t \ge n$ and $j = 1, ..., q$

This transformation of the independent variable expands it into q variables and reduces the number of time series observations by n.

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(c) Use multiple regression techniques to estimate the b_i for

$$Y_{t} = \sum_{j=1}^{q} b_{j} Z_{t} + u_{t}$$

(d) Use the equation $w(i) = \sum_{j=1}^{q} a_j(i)b_j$ to compute w(i), i=0, 1, ..., n-1

(e) The standard errors of the distributed lag weights, combining both variances and covariances of the estimated regression coefficients, are calculated by

 $S_i^2 = B_i \sigma^2 (Z'Z)^{-1} B_i'$ where $B_i = (b_1(i), \dots, b_q(i))$ and $\sigma^2 (Z'Z)^{-1}$ is the variance-covariance matrix of b_i .

The researcher must now exercise his option in choosing the beginning and ending points of the distribution and the degree of the polynomial.

(a) The beginning point is usually set equal to either the current time period or a lag of one period. However, in this study, we have used a lag of two years before beginning the distribution on the R & D terms. The choice of beginning point is usually based on a priori information.

(b) The choice of ending point is strictly empirical in nature. Theory does not tell us exactly how much time elapses until the total or cumulative effect of one economic variable on another is felt. Thus the normal procedure is to start with a fairly small \underline{n} and continue to add terms one at a time. In general this process is halted when (i) the n^{th} term carries the opposite sign suggested by a priori information or (ii) the n^{th} term fails to improve the explanatory power of the equation.



(c) No theoretical reason exists why one need choose any particular q<n. However, the whole purpose of this exercise is to choose a low-order polynomial to reduce multicollinearity. Thus for practical purposes we generally choose a quadratic; sometimes a cubic is used, but rarely a polynomial of higher order. Even with q=2 or 3 the formulas may produce "wiggles" where none really exist in the true specification. The use of the Almon lag technique does not guarantee success; many examples exist where the fit of the equation is worsened by substituting an Almon lag for a simple weighted average. Thus these formulas must be applied with a modicum of care.

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Appendix E

Estimation of the Equations for γ

Date	AB	ABXCP	B	BB	CP	GNPP	GNPPUN
1956	_	.00	2.86	0.85	85.88	454.95	447.90
1957	÷.	.00	3.82	0.98	83.00	470.83	456.40
1958	-	.00	5.66	1.16	76.70	487.22	487.40
1959	· _	.00	4.14	1.42	84.02	504.15	498.40
1960	.00	.00	4.53	1.72	83.20	521.68	511.60
1961	.00	.00	4.89	1.93	82.00	539.80	540.00
1961	.00	.00	3.75	2.17	85.96	558.53	555.80
1963	.00	.12	3.19	2.27	88.04	578.88	580.40
1964	.04	. 28	2.50	2.21	90.37	600.58	602.90
1965	.04	.60	1.85	2.00	92.45	623.08	628.10
1000	.00		2.00	2100	02110	020100	010110
1966	.12	1.04	1.62	1.80	93.23	647.30	653.70
1967	.16	1.56	2.62	1.51	89.07	673.03	672.00
1968	.20	2.08	2.53	1.24	89.54	699.88	697.20
1969	.20	2.48	2.65	1.12	89.00	727.88	714.20
1970	.24	2.60	4.07	1.09	82.92	757.03	744.15
1971	.24	2.52	4.09	1.19	82.40	787.30	792.20
1972	.24	2.28	2.98	1.39	87.00	818.80	823.90
1973	.24	1.96	1.94	1.58	91.10	851.55	856.90
1974	.24	1.60	2.88	1.63	86.48	885.60	891.10

- AB: Almon weighted lag distribution of NASA R & D as a proportion of GNP in 1958 dollars adjusted for the nonlinear effects of capacity utilization
- ABXCP: Almon weighted lag distribution of NASA R & D as a proportion of GNP in 1958 dollars without adjustment for capacity utilization
- B: Other R & D (excluding NASA R & D) as a proportion of GNP in 1958 dollars adjusted for the nonlinear effects of capacity utilization
- BB: Almon weighted lag distribution of other R & D as a proportion of GNP in 1958 dollars adjusted for the nonlinear effects of capacity utilization
- CP: Chase Econometrics index of capacity utilization, %
- GNPP: Potential GNP calculation based on trend. Used in Chase Econometrics calculation of γ

GNPPUN: Potential GNP calculation based on a 4% unemployment rate, 1971-1974, estimated by Chase Econometrics

NOTE: The Almon weights used in calculating the series shown are not normalized. They are: .0304(t-1) + .0808(t-2) + .1091(t-3) + .1151(t-4) + .0989(t-5) + .0606(t-6)



Estimation of the Equations for γ

Date	IAS	IE	IM	K	КРМ	KPO
1/56	99.00	$107.10 \\ 108.20$	902.77	1153.98	255.38	446.00
1/57	99.10		904.78	1219.44	272.43	466.79
1/58	99.10	109.20	938.41	1254.15	275.92	477.82
1/59	99.30	110.30	925.11	1270.78	269.88	486.40
1/60	99.30	111.40	929.94	1300.99	272.70	497.68
1/61	99.40	112.40	943.50	1328.59	275.55	506.27
1/62	99.60	113.40	927.84	1358.27	278.03	518.18
1/63	99.70	114.50	923.86	1391.68	283.13	531.73
1/64	99.90	115.50	907.54	1442.75	295.38	553.42
1/65	99.90	116.50	891.96	1514.60	317.18	580.25
1/66	99.90	117.60	869.89	1614.58	349.53	615.93
1/67	100.00	118.70	866.68	1709.20	381.55	651.73
1/68	100.10	119.70	869.46	1788.02	401.92	686.75
1/69	100.10	120.20	861.44	1869.60	421.85	721.98
1/70	100.20	119.10	879.08	1953.29	439.20	758.78
1/71	100.50	118.70	898.50	2002.48	444.07	792.77
1/72	100.60	121.40	895.99	2060.06	444.78	832.51
1/73	100.70	126.40	882.77	2133.09	455.74	875.07
1/74	100.80	131.90	874.18	2215.56	477.49	912.83

IAS: Index of quality as affected by age-sex composition

- IE: Index of quality as affected by education
- IM: Industry mix variable (defined in Appendix C)
- K: Total capital stock, billions of 1958 dollars
- KPM: Stock of fixed business investment in manufacturing sector, billions of 1958 dollars
- KPO: Stock of fixed business investment in nonmanufacturing sector, billions of 1958 dollars



Estimation of the Equations for γ

Date	KPS	L	EGC	EGM	• <u>LC</u>	LM
1/56	452.61	60.54	7.25	2.86	3.49	19.07
1/57	480.23	61.10	7.59	2.80	3.45	19.08
1/58	500.41	60.85	7.81	2.64	3.38	18.42
1/59	514.50	62.04	8.06	2.55	3.55	18.68
1/60	530.62	63.10	8.33	2.51	3.48	18.85
1/61	546.78	63.65	8.58	2.57	3.46	18.57
1/62	562.07	64.84	8.88	2.83	3.49	18.82
1/63	576.83	66.05	9.21	2.74	3.55	18.96
1/64	593.96	67.51	9.59	2.74	3.59	19.13
1/65	617.18	69.67	10.06	2.72	3.72	19.80
1/66	649.13	72.92	10.77	3.12	3.75	20.90
1/67	675.92	75.34	11.38	3.45	3.65	21.28
1/68	699.35	77.46	11.84	3.53	3.74	21.54
1/69	725.78	80.10	12.20	3.51	3.95	21.98
1/70	748.08	81.48	12.56	3.19	4.11	21.58
1/71	765.64	82.18	12.88	2.82	4.25	20.94
1/72	782.77	84.27	13.34	2.45	4.48	21.26
1/73	802.28	86.97	13.74	2.33	4.65	22.06
1/74	825.61	88.99	14.28	2.23	4.68	22.33

KPS: Stock of nonresidential structures, billions of 1958 dollars

L: Maximum available labor force, millions

EGC: Government civilian employment, millions

EGM: Military employment

- LC: Maximum available labor force in construction industries, millions
- LM: Maximum available labor force in manufacturing industries, millions



Estimation of the Equations for γ

Date	LNC	MRRD	NASARD	NGNPCP	NRDCON	NRD
1/56	27.86	1594.00	0.00	.00	0.00	0.00
1/57	28.18	1714.00	0.00	.00	0.00	0.00
1/58	28.60	2028.60	0.00	.00	0.00	0.00
1/59	29.20	2595.20	0.00	.00	0.00	0.00
1/60	29.93	3502.20	145.20	.049	140.56	0.29
1/61	30.48	4516.60	371.60	.130	355.24	0.72
1/62	30.83	5640.00	711.60	.180	672.60	1.28
1/63	31.59	6698.60	1622.00	.330	1513.40	2.76
1/64	32.47	6628.60	2812.40	.428	2588.72	4.44
1/65	33.37	6247.60	3651.20	.402	3293.84	5.32
1/66	34.38	6709.60	4363.20	. 393	3829.04	5,80
1/67	35.58	7453.60	4614.00	.634	3924.32	5.80
1/68	36.80	7602.20	4216.40	.510	3448.16	4.88
1/69	38.46	7311.60	3738.00	.440	2915.68	4.00
1/70	40.04	7234.60	3261.20	.567	2411.24	3.32
1/71	41.29	7592.20	2810.80	.472	1988.80	2.68
1/72	42.74	8019.20	2626.40	. 296	1797.72	2.28
1/73	44.20	8369.60	2459.60	.167	1594.16	1.88
1/74	45.47	8582.00	2327.60	.227	1367.32	1.68

- LNC: Maximum available labor force in nonmanufacturing, nonconstruction industries, millions
- MMRD: Total military R & D, millions of current dollars
- NASARD: NASA R & D, millions of current dollars
- NGNPCP: NASA R & D as a percentage of GNP in 1958 dollars adjusted for nonlinear effects of capacity utilization
- NRDCON: NASA R & D, millions of 1958 dollars

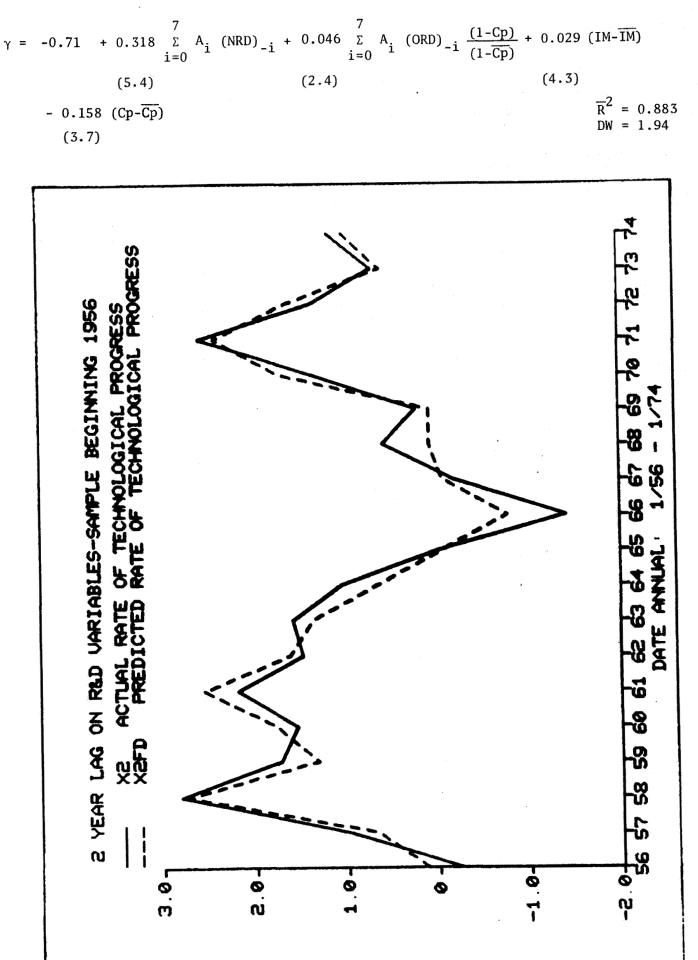
NRD: NASA R & D as a proportion of actual GNP in 1958 dollars (millions)

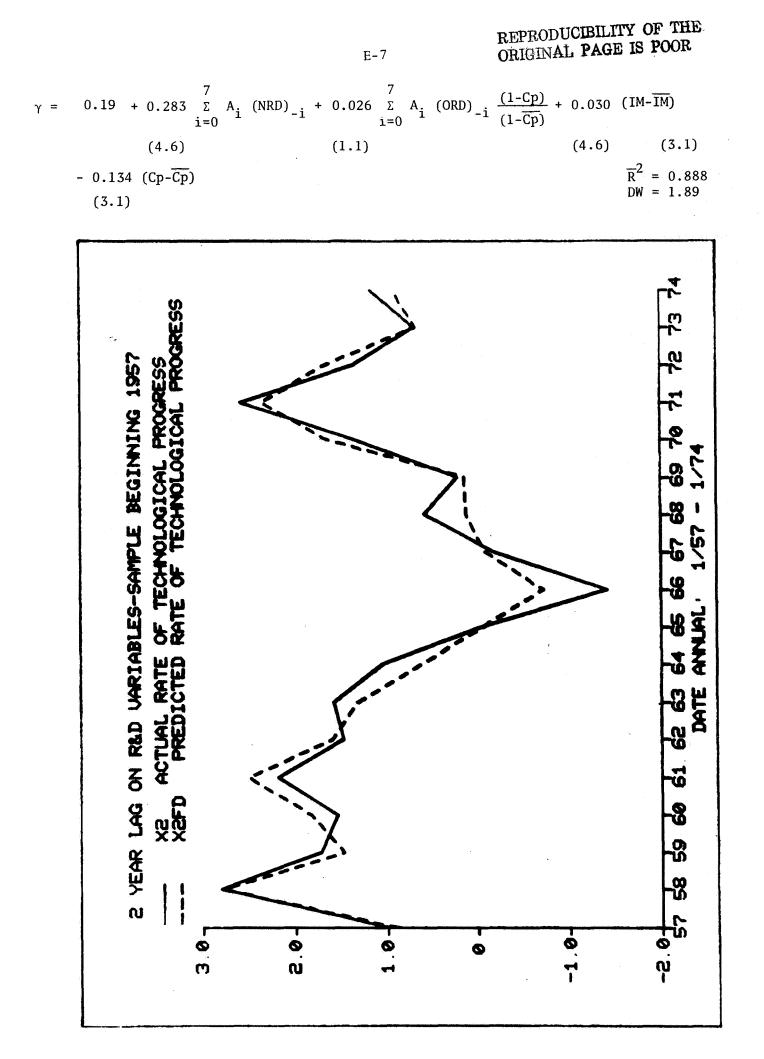


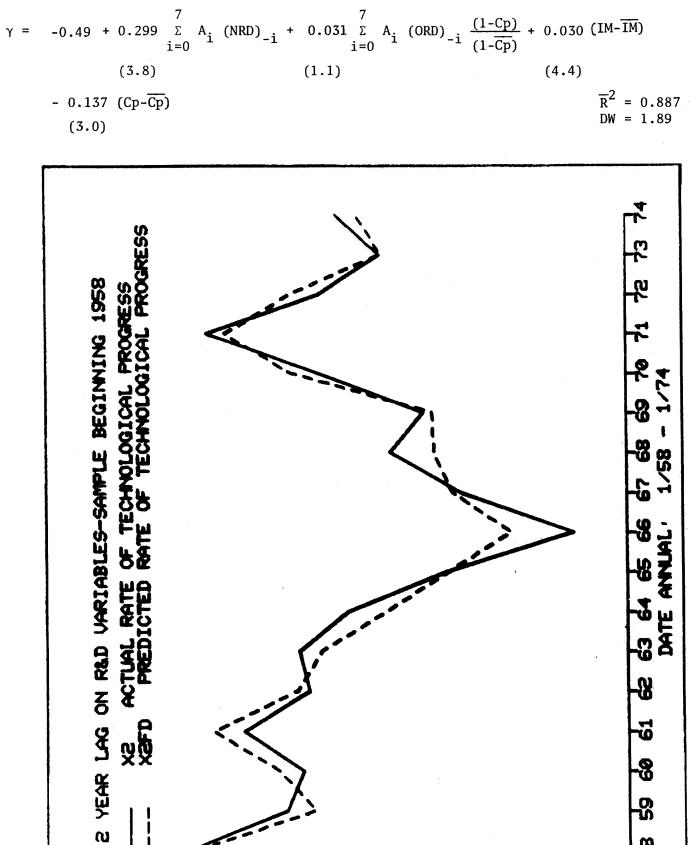
Estimation of the Equations for $\boldsymbol{\gamma}$

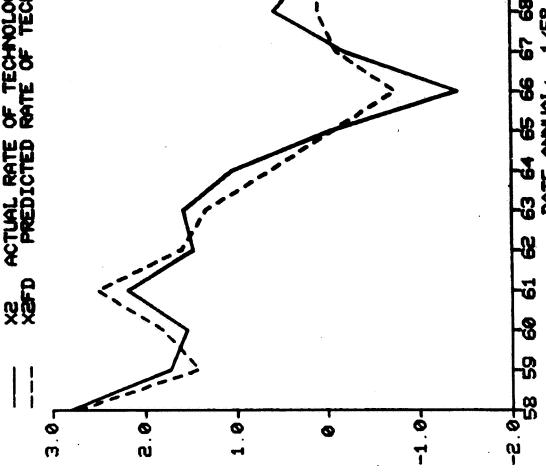
Date	OMHMAX	ORDCON	ORD	OTHRD	TOTRD	<u>x</u>	<u>X2</u>
1/56	1.90	9024.47	20.23	8483.00	8483.00	-0.27	-0.25
1/57	1.90	10166.15	22.47	9912.00	9912.00	-0.24	0.98
1/58	1.90	10858.14	24.27	10850.00	10850.00	2.00	2.81
1/59	1.90	12316.77	25.88	12520.00	12520.00	0.75	1.73
1/60	2.90	13150.82	26.96	13584.80	13730.00	1.51	1.54
1/61	2.90	13507.07	27.17	14128.40	14500.00	1.96	2.19
1/62	2.90	14133.65	26.68	14953.40	15665.00	0.50	1.48
1/63	3,13	14694.66	26.67	15749.00	17371.00	1.73	1.58
1/64	3.70	15068.99	25.94	16402.60	19215.00	0.40	1.04
1/65	2.92	15144.61	24.51	16787.80	20439.00	1.14	-0.05
1/66	3.47	15711.10	23.87	17902.80	22266.00	0.53	-1.42
1/67	2.13	16183.71	23.97	19028.00	23642.00	-0.32	-0.19
1/68	2.13	17094.05	24.19	20902.60	25119.00	0.76	0.57
1/69	1.92	17496.54	24.11	22431.00	26169.00	0.59	0.21
1/70	1.92	17215.38	23.83	23283.80	26545.00	-0.44	1.36
1/71	1.92	17352.84	23.25	24525.20	27336.00	2.34	2.58
1/72	1.92	18194.43	22.96	26581.60	29208.00	2.21	1.35
1/73	2.35	18258.09	21.76	28170.40	30630.00	1.23	0.68
1/74	2.00	17489.26	21.30	29772.40	32100.00	1.17	1.16

- OMHMAX: Maximum productivity
- ORDCON: Total R & D excluding NASA R & D, millions of 1958 dollars
- ORD: Total R & D excluding NASA R & D as a ratio to real GNP in 1958 dollars
- OTHRD: Total R & D excluding NASA R & D, millions of current dollars
- TOTRD: Total R & D, millions of current dollars
- X: Denison's gamma
- X2: Chase Econometrics trend series for gamma





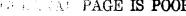


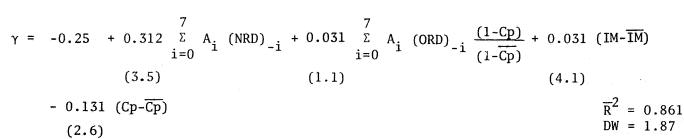


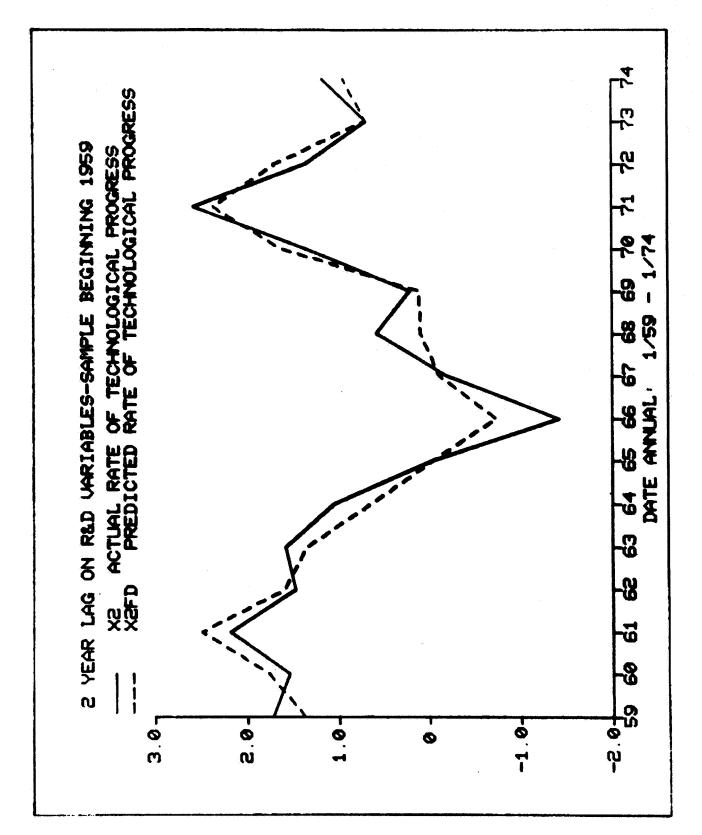
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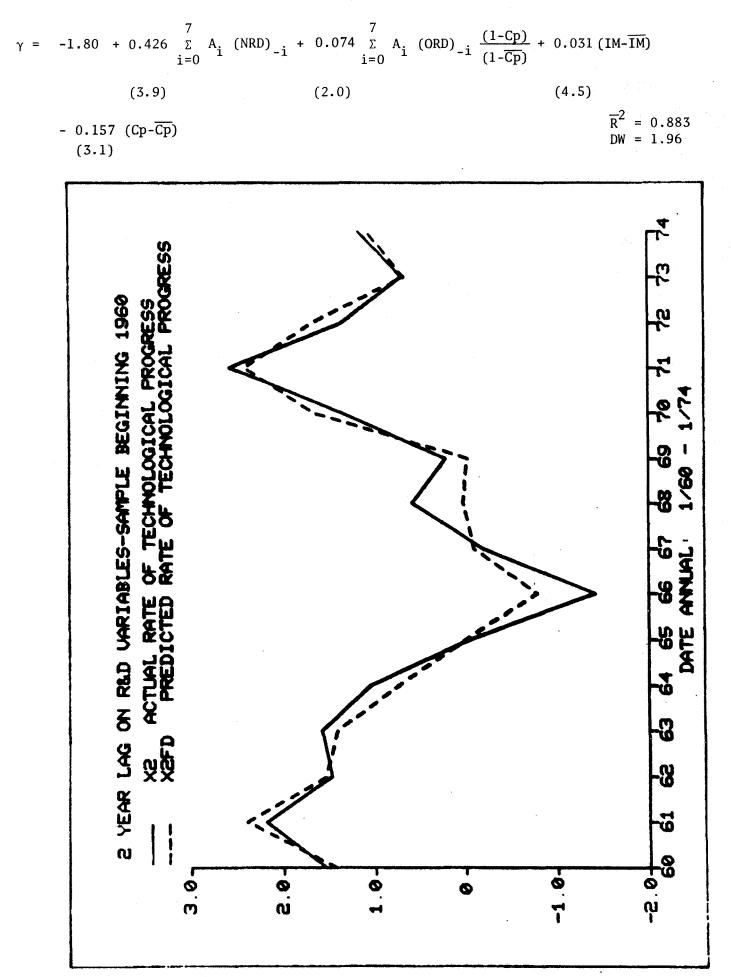
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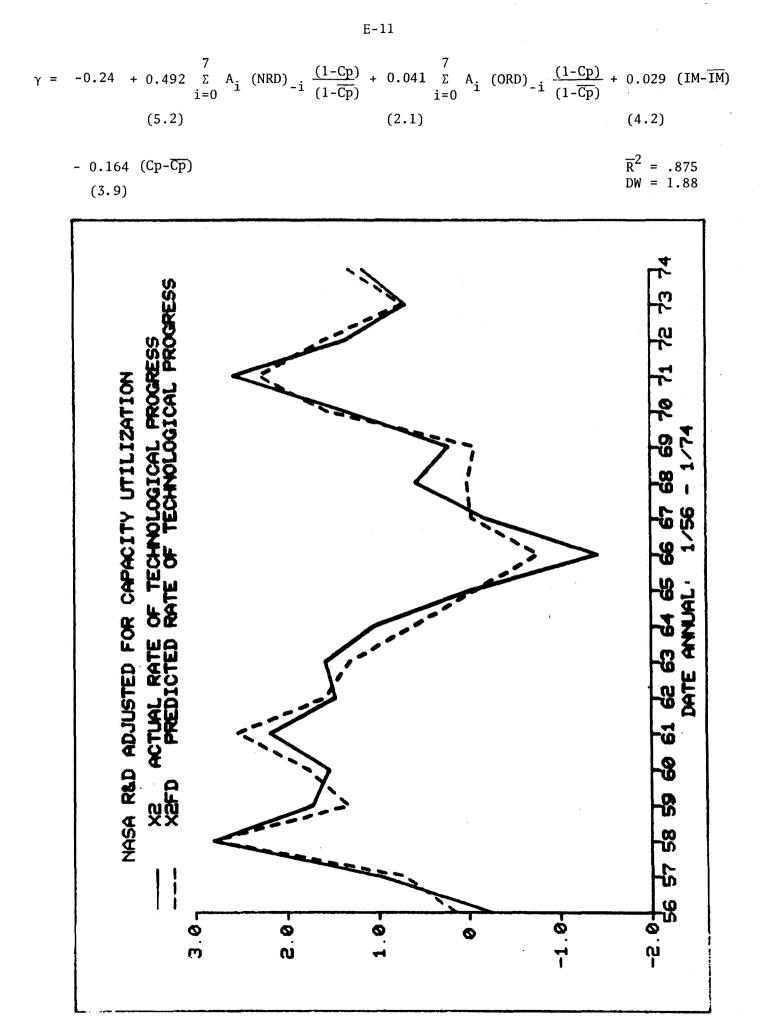
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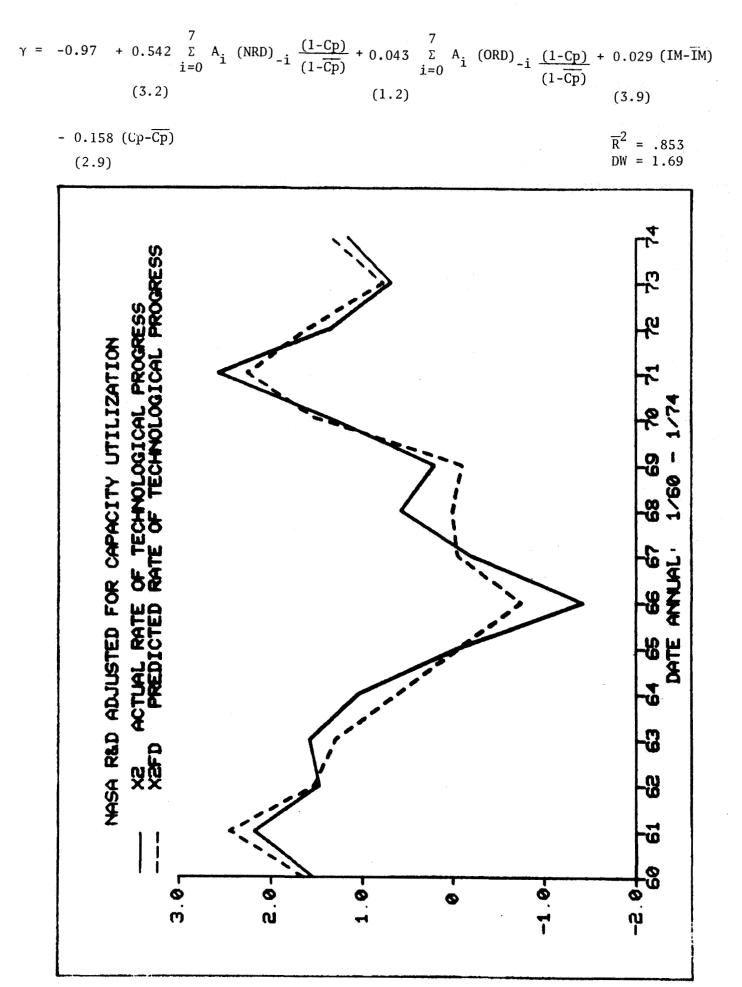


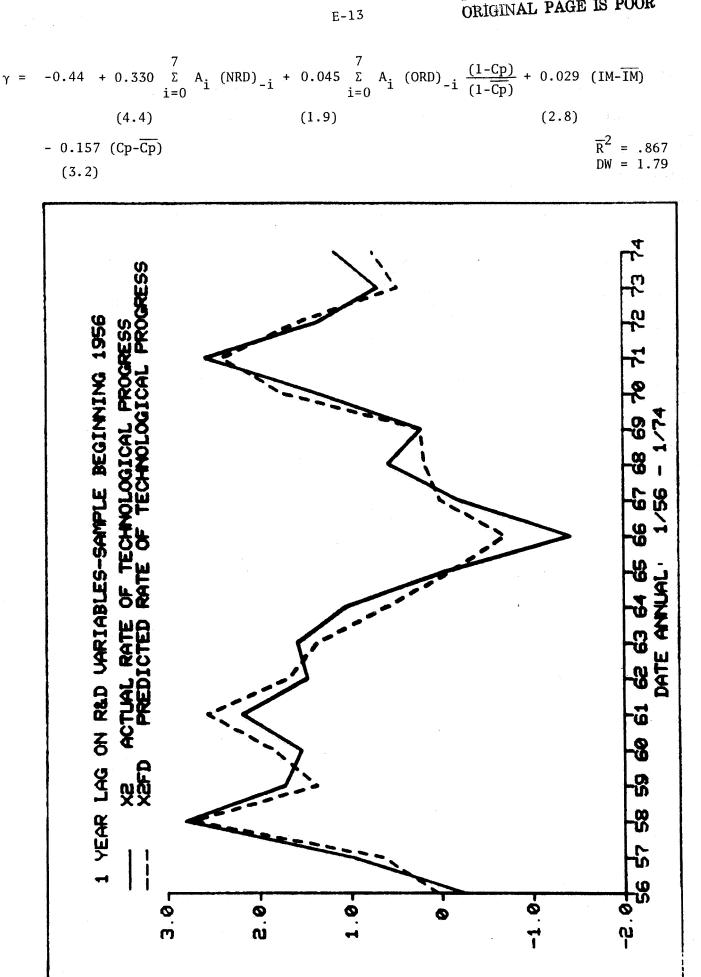




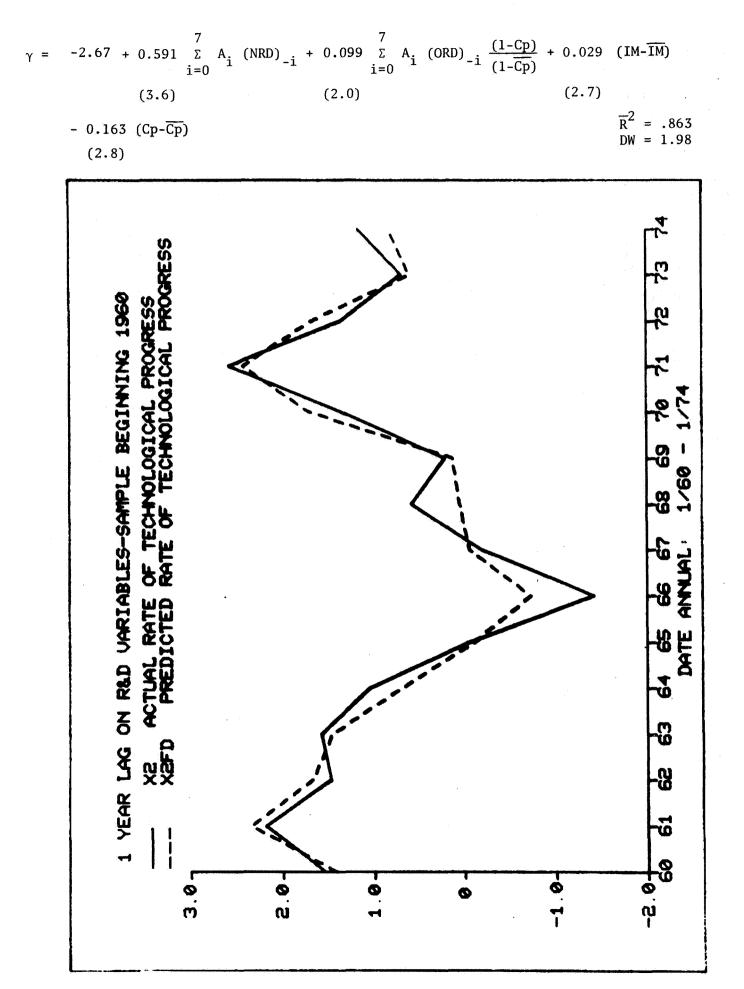








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Ten-Year Forecast of the U.S. Economy

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The calculations which we have undertaken to estimate the effect of increased NASA R & D spending on the economy are not invariant to the overall background of economic activity. While the results would not be greatly changed if we predicted a return of the U. S. economy to full employment during the next few years, it is still instructive to indicate the path which we see economic activity following until 1984. Thus in this appendix we describe in some detail the factors which we see influencing the outlook for the next ten years. We then present the complete tables of this ten-year simulation. Analogous tables for the simulations incorporating increases in NASA R & D spending are found in Appendix G.

The outline of our views for the next ten years can be summarized as follows:

1) The economy is expected to enter a period of rapid growth for the period from mid-1975 through the end of 1976. During this period real GNP will increase at an annual rate of better than 6%. The rate of inflation will fluctuate in the 6-8% range, with quarterly changes caused primarily by widely fluctuating food and fuel prices. Interest rates will rise but we will not enter a period of credit stringency as the so-called crowding out problem fails to materialize in this time period.

2) Beginning in 1977 the economic scenario will take a sharp turn for the worse. The rate of inflation will reaccelerate to the double-digit range, due to sharp increases in both commodity and labor costs. A new period of tight money will be the result both of rapidly increasing loan demand and greater monetary stringency by the Federal Reserve System. Sporadic



shortages, particularly in the area of electric power, will begin to appear. The fear of renewed shortages, coupled with the expectation of the return of wage and price controls, will lead to excess purchases of inventories and inflationary psychology, which will intensify the upward pressure on prices. All these factors will combine to produce another major recession in 1978, which will last into 1979 as well.

3) The crystal ball becomes somewhat cloudier after this. If the public, through its elected officials in Congress, awakes to the realization that a sluggish growth in productivity is at the root of the inflationary spiral, the economy will tilt in favor of more investment and R & D spending, which will gradually return the economy to full employment with a modest (5%) rate of inflation. This is the scenario pictured in our standard forecast. On the other hand, if the response of the public and Congress is to tilt even more heavily in the direction of greater private and public consumption, the U. S. economy is likely to follow Great Britain down the road to zero per capita real growth.



VIGOROUS RECOVERY THROUGH 1976

As of July 1975, the economic community is unanimous in proclaiming that the most severe postwar recession has come to an end, but not nearly so certain of the course that the economic upturn will follow. We expect that growth in real GNP will average better than a 6% annual rate for the six-quarter period 1975.3 - 1976.4. Our view of this fairly robust upturn is based on the following points.

1) The unprecedented reduction in inventory stocks during the first half of this year has finally resulted in a situation where most firms are now approaching equilibrium stock/sales ratios. While the inventory investment figures are peculiarly vulnerable to revision, it is likely that the decumulation of stocks proceeded at greater than a \$20 billion rate during the first half of 1975. We expect this figure to moderate to less than \$10 billion during the second half of the year, and predict that inventory investment will once again become positive during 1976, albeit at modest rates. This dramatic turnaround in inventories will be one of the major factors contributing to the rebound of the economy.

2) Consumer spending will once again start to move upward, due primarily to substantial gains in real disposable income. It should be stressed that the gains in consumption stem from a surge in income rather than a more positive attitude on the part of consumers themselves. We expect that wages will finally begin to rise faster than prices for this six-quarter period, and that employment will increase by three million workers per year during the next two years. In addition, the tax cuts and rebates passed earlier this year will have some positive effect on consumption; we estimate that



for every dollar in tax reduction, one-third is spent in the first quarter and one-half is spent during the first year. We also anticipate that the current tax reductions will be extended if not expanded in 1976.

In four of the five previous postwar recoveries, the personal savings rate has declined as consumers feel more ebullient about the economy and increase their purchases of durable goods. However, we are not predicting any such decline during the next two years. In fact, our forecast of the savings rate calls for an increase from 7.9% in 1974 to approximately 10% for both 1975 and 1976. Thus we do not expect consumers to react as positively to the good economic news as they have in the past. Even so, we expect consumption in real terms to rise about 3.5% over this period, which translated to about an 11% increase in current dollars.

3) Housing starts will rebound sharply from their recent depressed level of 1.0 million starts to 1.5 million starts by yearend and average 1.6 million starts in 1976. The reasons for this rebound focus on both the easing of monetary conditions since the credit crunch of last fall and the upturn in disposable income. While a 1.6 million level for housing starts is well below the peak levels of 2.5 million starts reached in early 1973, it does represent a 60% increase over the first quarter average. This increase will be sufficient to serve as another major source of upturn in economic activity.

4) Plant and equipment spending invariably lags the cycle of economic activity, both during the upswing and the downswing. Thus we expect little if any growth in this component of GNP during the remainder of this year. However, during 1976 we expect an increase of at least 10% in real terms,



as increased consumer spending results in upturns in sales and convinces businessmen that modernization and expansion plans will once again be profitable.

5) Both fiscal and monetary policy are expected to remain stimulative until after the 1976 election. We expect that the present tax cuts contained in the 1975 Tax Reduction Act will be extended if not expanded, and that government spending will exceed the limits promulgated by President Ford. As a result, we predict that the Federal government budget deficit will be approximately \$80 billion for both fiscal and calendar 1976. This record deficit will cause both short and long-term interest rates to rise during the next six quarters, but credit stringency will not become a problem until 1977. Thus the recovery can proceed apace, unhampered by shortages of credit in the sensitive construction and consumer durable goods sectors.

THE RETURN OF DOUBLE-DIGIT INFLATION

Unfortunately, this relatively optimistic forecast of real growth is accompanied by a worsening in the rate of inflation. The rate of increase in the consumer price index (CPI) during the past three months has been 5.3%, yet we expect it to rise to an average rate of 7 to 8% during the next six quarters. The 7-8% inflation forecast for the next two years is a crucial precursor of the eventual return to higher levels in 1978 for a number of reasons. First, if inflation does not dip below this range, the stage will be set for even larger wage demands when demand strengthens and unemployment declines. Second, a higher rate of inflation will lead to tighter monetary policies and higher interest rates, hence reducing the ex ante demand for



investment goods and thus exacerbating the capital shortage. Third, a high rate of inflation will continue to shift resources to the government sector, leaving less private savings available to support a capital goods boom. Thus we find it useful to examine the movements in overall inflationary trends for the next two years.

1) Prices received by farmers have risen 9% (actual amount, not annual rates) during the past two months, and will rise another 4% by yearend. Livestock prices except for beef are high and rising because of decreased supplies stemming from unfavorable meat/grain price ratios last year; beef prices are rising because of the recovery in the economy and the close relationship of beef prices to disposable income. While bumper crops are expected for all major grains this year, these record harvests have now been entirely discounted by the commodities markets, and further declines in grain prices this year are not expected.

In addition we point out that the sharp increase in prices of fuel, fertilizer, and other agricultural chemicals, plus the recent slide in grain prices, has resulted in a narrowing of farm margins to the point where prospective plantings for 1975 are <u>below</u> the peak levels reached in previous years for all major crops except wheat. In view of the fact that various pundits were gloomily prophesying mass starvation less than a year ago, it seems premature to suggest that we are now headed for another worldwide glut of food grains and feed crops. While we do not expect food prices to return to peak 1973 and 1974 levels this year, neither do we expect them to decline to the 1971-72 range again.



Ordinarily a 13% increase in farm prices would translate into a $4\frac{1}{2}$ % increase in retail food prices in addition to the normal widening of spreads between farm and retail prices, with some lag usually attached to this change. Thus while the CPI for food has risen only 0.3% in the past two months, we expect it to increase an additional 5% by the end of the year.

2) Petroleum prices will be increasing substantially during the rest of the year due both to further OPEC action and domestic demand considerations. The argument that OPEC oil prices would drop this year was never based on any detailed empirical research but rather a feeling that since cartels had always fallen apart in the past, the same fate would befall the OPEC nations. In the long run this may yet prevail; yet we see virtually no chance of it occurring over the next business cycle. Worldwide consumption of petroleum is down 10% since 1973 and oil storage facilities are literally sinking into the ground from overloading; yet there is little if any evidence that oil prices are headed in a downward direction. The recent adjustment in prices by Algeria and Libya simply returned oil prices to the prevailing world level and did not represent a cut in the standardized cartel price. The OPEC nations have indicated that they plan to tie increases in the price of oil to a general index of worldwide commodity inflation; we see no reason not to accept this basically pessimistic forecast. If the cartel were going to collapse in the near future, it would have already been affected by the sharp decline in demand. If \$11.00/bb1. oil can stand up to the slump in demand pressures occasioned by the most severe postwar worldwide recession, it certainly should have no trouble staying at that level during the coming boom.

We also point out that the assassination of King Faisal removes one of the more powerful arguments for expecting a decline in oil prices. Saudi



Arabia had been at the forefront of those countries who suggested that at least a modest decline in oil prices would best serve the interests of OPEC, a view which was not shared by the majority of its members. Furthermore, it is likely that the violent death of Faisal is only the first of several serious disruptions in the oil-rich nations of the world. Viewing the longer historical framework, we find that countries which have undergone rapid changes in wealth and income distribution have often suffered concomitant bursts of social violence and disorder. Thus we would not be surprised if unrest or even revolution were to sweep other OPEC nations in the next few years. If such events occur, they might well be accompanied by cutbacks or embargoes of oil exports for a limited period of time. While these disruptions would not be sufficient to create significant worldwide shortages of petroleum, they would undoubtedly lead to panic among buying nations, who would then rush to purchase additional quantities of oil. This unseemly behavior would definitely strengthen the resolve of the OPEC countries not to lower the price of their product.

Turning to more specific forecasts of petroleum prices during the next year, we first note that gasoline prices have already gone up about 2¢/gallon recently and it is likely they will rise another 3¢/gallon this summer due to sporadic shortages. Second, the OPEC nations will certainly raise the price of oil by at least \$1/bbl. this fall; \$2/bbl. is also a likely possibility, although \$4/bbl. all at one time does seem rather remote. Every \$1/bbl. increase in imported oil is expected to raise the price of gasoline l¢/gallon. Third, some steps will eventually be taken to deregulate the price of old oil, although here we have assumed that the existing price control mechanism will be extended until the end of the year. We estimate that every \$1/bbl. increase in the price of old oil will raise the price of



gasoline by 0.6¢/gallon. While this may not seem like a very large amount, old oil prices are likely to rise at least \$2 to \$3/bbl. in the first step when controls do come off. In addition, increases in gasoline prices are not the only way in which higher fuel costs add to increases in the CPI. Since virtually every industry uses some petroleum products, these are passed along as higher costs of doing business. Thus while the weight of gasoline in the CPI is only 3.4%, meaning that a 2% increase in gasoline prices would raise the CPI only 0.07% on a direct basis, a \$1/bbl. increase in petroleum prices actually raises the CPI by 0.2%.

Finally, one cannot ignore the fact that the prices of alternative sources of fuel are also climbing rapidly. Coal prices are expected to double during the next few years, due to a combination of sharply higher labor costs, higher transportation costs, and increased environmental and safety regulations. Natural gas prices will probably triple by 1980; even this represents no guarantee that production will be any higher then than it is now. Alternative sources of oil, such as the North Sea and offshore drilling in the U. S., are likely to cost as much as OPEC oil by the time sharply escalating construction costs have been considered. The world is running out of cheap fuel somewhat faster than even the pessimists had imagined two years ago, and hence OPEC is not likely to have to face the problem of increased competition from cheaper sources of fuel.

3) The recent patterns of worldwide industrial commodity prices also indicate significant increases in those areas during the 1975.3 - 1976.4 period. These prices have already started to rise in spite of a 15% annual rate decline in the world index of industrial production during the previous two quarters. Such increases are undoubtedly a precursor of strong worldwide



demand and a possible resumption of shortages next year. The U. S., Germany and Japan have all moved toward significantly easier monetary and fiscal policies during the past six months, which will result in strong surges in demand by next year. Second, costs of production for basic metals will begin to rise rapidly when economic growth once again turns positive. We expect, for example, that the price of fabricated steel, copper and aluminum products will rise approximately 20%, 8% and 19% respectively during 1975 and 1976. This will be caused by higher fuel costs, which we have already discussed, higher labor costs, which we discuss next, and the high costs of meeting environmental standards. Third, the lingering fear of another Middle East outbreak has probably caused some speculative activity on a worldwide level.

4) During each previous postwar recovery, long-term interest rates have either been steady or falling. However, this time we expect them to rise approximately 200 basis points from mid-1975 to the end of 1976. This is due not only to the quickening rate of inflation, but also the \$80 billion Federal budget deficit expected for fiscal 1976. Demand for loans in the private sector will also increase along with the recovery, but this is normal; the abnormal factors are the continuing huge deficit -- even more unusual in recovery than in recession -- and the return to higher rates of inflation. The effect of higher interest rates raises prices both directly, through higher mortgage rates in the CPI, and indirectly, through higher costs of doing business in general. We estimate that a 200 basis-point increase in long-term rates will raise the CPI by 1.5%.

5) The cost of environmental controls represents another major cause of inflation during the next two years, as the ratio of incremental investment



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for pollution control purposes is now nearing its peak because most of the current regulations must be implemented by 1977. In a number of studies which we did for the EPA and CEQ, we estimated that environmental controls would raise prices 2% during 1976, the peak year for such purchases. These results were obtained using the EPA's own estimates of costs, which a number of industry sources have suggested are understated. By comparison, the increase in prices expected from this source in 1975 is just about 1%.

6) Due to the Pension Reform Act of 1974, many companies will have to increase their contributions to pension funding considerably. We do not have any precise figures in this area, and we understand that the IRS regulations, although they have been issued, are subject to so many ambiguities that it will be years before the exact contribution requirements have been established. Even so, some rough guidelines can already be calculated, and we have estimated that this new law increases labor costs by approximately 1% per year.

7) The increase in wage rates will continue at approximately a 10% rate even if the economy remains sluggish and even if the unemployment rate remains above 9%. In order to reach this conclusion, we need to dispense with what is usually called the Phillips curve.

The tradeoff between full employment and price stability is usually known as the Phillips curve, named after Professor A. W. Phillips who introduced this concept in 1958 (58). The basic theory behind this concept centers around the dynamics of the labor market. When the economy is at full employment, most new job opportunities can be filled only by hiring individuals away from their present employment by offering them



increased wages. Furthermore, those workers who stay on their present jobs will find it easy to bargain for higher wages on the threat of moving to other positions. As the unemployment rate begins to increase, employers find that they can hire a greater proportion of their workers from the ranks of the unemployed; in that case they need not offer more than the going wage. Thus as unemployment increases, wage bargains diminish in size.

In addition to all this, wage bargains also contain an element reflecting previous increases in the cost of living. In other words, the Phillips curve is three-dimensional rather than two-dimensional; wage rates are related both to the lagged rate of unemployment and the lagged change in consumer prices. However, this still does not invalidate the argument that for a given level of inflation, higher unemployment will result in smaller wage increases.

So far there is nothing wrong with the argument, and in fact as the unemployment rate fluctuates between 4% and 6% we have noticed a definite pattern for wage bargains to vary accordingly during the past twenty years. However, the argument breaks down, or perhaps we should say flattens out, when the unemployment rate rises so high that virtually all positions in the labor force can be filled by hiring from the ranks of the unemployed. Given the present institutional structure of the labor market and unemployment compensation insurance, virtually no worker will accept employment at less than his previous wage. Furthermore, no union leader can maintain his position if he settles for wage increases which are less than recent increases in the cost of living. Thus regardless of how high the unemployment rate goes, the lower boundary to wage bargains will be set by the recent average rise in the CPI. In other words, the reduction in wage increases due to higher unemployment flattens out with unemployment over 8%.



8) The U. S. economy is faced with a serious slowdown in the rate of growth of productivity. This trend is a continuation of events which have occurred during the past two years, largely as a result of decreasing R & D expenditures and declines in productive investment. For the period 1947 to 1966, the officially published BLS series on output/manhour increased at an average annual rate of 2.9%. By comparison, this figure grew at a rate of only 1.4% for the period from 1966 to 1974.

This particular comparison may be unfair in the sense that both 1947 and 1966 were full employment years while 1974 was a recession year. This is a valid argument since productivity invariably declines during recession years, as changes in employment lag changes in output. Thus we have estimated what labor productivity would be in 1977 if it increased at the same rate that it had in previous postwar recoveries.

Let us assume that productivity increases at a 3.1% rate for the tenquarter period 1975.3 to 1977.4; this is the average increase during postwar recoveries. This is substantially higher than we expect; but even if we give this argument the benefit of the doubt, we still find that productivity would have increased only 1.7% for the period 1966-1977, down from 2.9% for the earlier postwar period.

Yet these figures overstate the true increases in productivity because they understate the estimate of manhours which forms the denominator of the <u>output</u> ratio. If one simply calculates a man-hour index based on all employees, it can easily be determined that the actual growth in productivity since 1966 has been 0.6% lower than the published figures. This indicates that productivity has risen no more than 0.8% per year for the period 1966-1974, and would rise no more than 1.1% per year for the period 1966-1977 even if productivity were to show a strong upward swing in the forthcoming recovery.

Chase Econometric Associates, Inc.

> A number of factors have contributed to this decline in productivity. First, the ratio of fixed investment to GNP in constant prices has been gradually decreasing over the postwar period. In the early postwar years, the ratio was 16.8%, in the mid-1950's it was 15.7%, in the mid-1960's it had declined to 14.6%, and in the latest investment "boom" it was only 14.4%. This decline has been most substantial in the primary goods industries -iron and steel, nonferrous metals, fabricated metals, paper, chemicals, and petroleum. It has been due to lower expected rates of return, which are tied directly to lower profit margins, to higher interest rates, and to the three credit crunches of the past ten years. Clearly monetary policy must share part of the blame for the decline in the ratio of investment to GNP.

Second, an increasing part of total investment has been spent for meeting pollution, safety, and other environmental restrictions. The official EPA figures undoubtedly understate the true magnitude of expenditures for pollution control, since they represent only "incremental" costs, i.e., those expenditures which were made over and above improvements in facilities which would have occurred anyhow. It is not always possible to determine whether a new plant was built directly in response to new legislation or would have been constructed in any case, and the EPA figures undoubtedly err on the low side. In any case, using their figures we calculate that the level of nonpollution control investment in 1975 will actually be below that of 1970.

Plant and Equipment Spending, Billions of 1958 Dollars

<u>Total</u>		Pollution Control	Other	
1970	77.2	0.6	76.6	
1971	76.7	1.1	75.6	
1972	83.7	2.0	81.7	
1973	94.4	3.3	91.1	
1974	94.1	6.6	87.5	
1975 ^e	83.2	7.8	75.4	

e = estimated



On the industry level, the EPA figures indicate that over 20% of total plant and equipment spending represents purchases for pollution abatement in the nonferrous metals, paper, and steel industries; the figure is over 10% for the petroleum, chemicals, and stone, clay and glass industries, and is 9% for electric utilities. We should also point out that these figures do not take account of premature retirements due to pollution controls; one estimate (not EPA's) is that two-thirds of the non-captive iron foundry industry capacity was shut down by pollution controls.

Third, the rate of productivity has declined because of the sharp decrease in Federal spending on research and development. This percentage has declined from a peak of 3.0% in the 1964-1967 period to its 1974 level of 2.3%. This point is discussed in detail in the main text of this report.

It has also been suggested that shifts in the age-sex composition of the labor force have retarded the rate of growth of productivity during the past ten years. According to this hypothesis, the increasing number of secondary workers in the labor force has resulted in a lower rate of growth of productivity because these workers have less training and experience. However, when we tried to measure this effect on the rate of technological progress adjusted for cyclical swings, we found no significant relationship. Instead we determined that the lower rates of growth in productive capital stock and the decline in the proportion of GNP spent for research and development were the primary factors for the sharp decrease in productivity during the past ten years.



THE RECESSION OF 1978

The growth in real GNP over 6% will be finished by the end of 1976. This fact by itself occasions no cause for alarm; we have never had a period in the postwar economy when real GNP grew at an average rate of over 6% for more than six consecutive quarters. However, sometimes the pattern of economic activity settles down to an equilibrium growth rate, usually about 4%, while other times it evolves into another recession. While the Federal government has at its command very powerful tools to mitigate the swings in economic activity, all indications point to the fact that fiscal and monetary policy will contribute to the next recession rather than retarding it. We point out that this would represent behavior which has been consistent in every single postwar recession.

The major strands of our recession scenario are as follows:

1) The rate of inflation will continue to climb until it returns to the double-digit range. We have already discussed how these factors will operate in the 1975-76 period in some detail; other factors contributing to a higher rate of inflation are discussed below.

2) Monetary policy will tighten dramatically after the 1976 election. As a result we expect another severe credit crunch and new peaks for both shortand long-term interest rates.

3) Fiscal policy will switch from stimulative to restrictive in 1977. The tax cuts of 1975 and 1976 will not be renewed, greater restraints will be put on government spending, and an overhaul of the social security system will result in greatly increased taxes and some reduction in benefits after adjusting for inflation.



4) Sporadic shortages will develop throughout the economy. These are not likely to be caused by inadequate amounts of capacity in the basic materials industries, but rather by shortages of electric power. Insufficient power supplies will lead to serious interruptions of production schedules for those industries which depend heavily on electric power. Thus shortages of basic materials may occur even though sufficient capacity exists to handle normal levels of demand.

5) The existence of sporadic shortages will recall the tumultous events of the 1973-74 period of shortages; that will cause businesses to stockpile excessive inventories of key materials. This speculative increase in demand will intensify the inflationary spiral, thus encouraging additional buying in an attempt to beat further price increases. Furthermore, these rapid price hikes will increase the probability of wage and price controls, which will in turn lead to upward jockeying of price lists by firms so that they are not caught in an administration imposed cost-price squeeze.

We now discuss each of these points except the first in greater detail.

As evidence continues to mount that the rate of inflation is likely to remain in the 7 to 8% range, the Federal Reserve System will case increasingly nervous glances in the direction of tighter monetary policy. While it is hard to imagine the Fed moving in this direction before the 1976 elections, it requires very little imagination to see this move taking place shortly thereafter. It is likely that by the end of next year the Fed will move to restrict supplies of credit being used for "inflationary" purposes.

As is usually the case when such events occur, the sector which will be most adversely affected is housing. Thus we expect housing starts to



decline from a level of 1.6 million starts in 1976 to 1.3-1.4 million in 1977 and 1.1-1.2 million in 1978. Similarly, substantial declines are expected in sales of consumer durables, especially automobiles.

None of this should be particularly surprising in view of what has occurred in 1966, 1970, and 1974. However, we believe that a new wrinkle will be added to the scenario this time. In previous credit crunches, many firms found it necessary to borrow increasing amounts from the banking system in view of rising costs and a slackening rate of demand. In the past, the banking system was able to provide the needed funds, which resulted in a very rapid expansion in loan demand in the later stages of cyclical expan-However, this time it is extremely unlikely that the banking system sion. will be able to meet another surge in loan demand. Many banks found themselves in the position of being dangerously over-loaned in 1974; some fairly large banks actually had loan/deposit ratios of over 100%. Thus the banking system will be unable to expand its loan portfolio yet another time unless it increases its capital base substantially. Yet this seems quite unlikely; the principal way of accomplishing this in time for the next recession would be through massive floatation of new equity. Yet most banks find that their stock is currently selling well under book value, and if our scenario is correct it spells further gloom and decline for the stock market. As a result the increase in bank loans will be rather limited in nature during the next three years.

This leaves only the fixed income security markets. The strain in these markets will be unprecedented, and as a result we will see new peaks in interest rates, even though the rate of inflation will probably not be quite as high as the 13% level reached for the CPI in the latter months of 1974. Thus during peak periods of monetary tightness, we expect that the



prime rate will reach 15% and long-term corporate bond yields will exceed 13%. Such unprecedented interest rates will clearly lead to a diminution in investment demand, which will be a major factor causing the plunge into recessionary waters.

The Federal budget deficit which we have predicted for 1978 is \$63 billion, which does not seem appreciably lower than current estimates. However, this deficit would decline to only \$30 billion if the economy were to continue on its 4% growth track during 1977 and 1978; once again, the large deficit is due primarily to a decline in taxable revenues and an increase in unemployment benefits and welfare payments. We mention this to point out that fiscal policy will actually turn somewhat restrictive after the elections. While this factor alone would not be sufficient to turn the economy around, it does represent a significant switch from the highly stimulatory budget deficits of 1975 and 1976.

The two major areas in which we expect changes are as follows. First, the tax cuts of 1975 and 1976 probably will not be renewed, since by the end of 1976 the unemployment rate will have declined to the 7.5% range and will outwardly appear to show signs of declining further. Second, the bankruptcy of the social security system will have to be handled with realism rather than promises. As a result of this, we expect the social security taxes rates to rise from 5.85% to 6.85% and the income base to rise from \$14,100 to \$19,500 in 1977. In addition, we have assumed that social security benefits will not receive another cost-of-living adjustment in 1977. These three changes will reduce the Federal budget deficit by approximately \$40 billion on an ex ante basis.



A minor factor in these calculations will be the decline in Federal government purchases in real terms in 1977 and 1978. However, this figure has been increasing only modestly during the past few years, as almost all of the increase in Federal spending has been due to inflation. Hence this amounts to less than \$10 billion in terms of reduced budget deficit.

We now turn to a different type of factor which will add to our recessionary woes in 1978, which is the shortage of electric power. The one major sector of the economy in which virtually everything has gone wrong during the past decade is the electric utility industry. Consider what has happened.

1) Despite consistent shortages in the form of brownouts ever since 1966 (except for recession years) the industry has been unable to increase capacity faster than the growth in demand. Since prices are regulated, the utilities cannot raise their margins and double their profits in one year like the steel industry did in 1974. At one time they might have been able to borrow the money they needed. However:

2) Utilities have been net borrowers -- investment has been greater than cash flow --since 1964. This period more or less coincides with sharply rising interest rates, distorted balance sheets, and more recently foregone dividends. Since we expect that interest rates will continue to rise rapidly in the next three years, utilities will be severely limited in the amount of outside financing which they can undertake.

3) While costs have risen rapidly for virtually all industries during the past year, utilities have been especially hard hit because of the increase in fuel prices. While they have in general been able to pass these costs



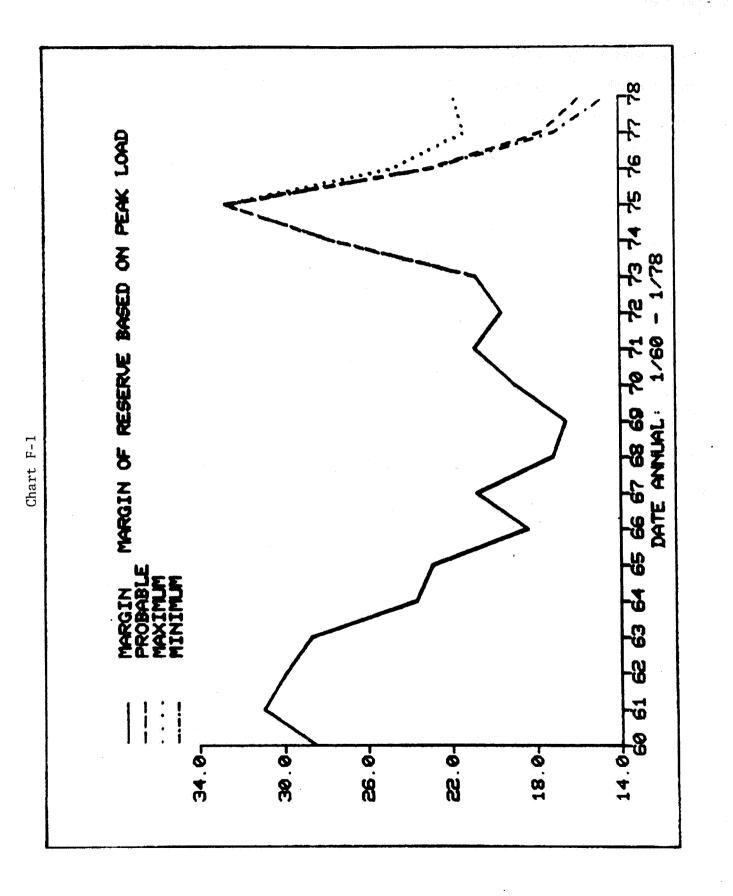
along, some public utility commissions are now busy at work determining how they can inhibit or prohibit utilities from passing all of the higher fuel costs along to consumers. If this practice becomes widespread, the cost squeeze is likely to intensify.

4) A sharp increase in prices for most commodities would result in a significant reduction in total demand and substitution through imports and other materials. However, none of these options exists in the short run for electric power. As we explain below, the sharp decline in power usage at the time of the Arab oil embargo was due primarily to psychological factors rather than higher prices.

5) Much of the increase in investment by the electric utility industry has been for pollution control equipment, which not only reduces capital spending for modernization and expansion but also reduces the efficiency of the power plants.

6) The rise in the reserve margin this year to an estimated 32.7%, which is the highest in at least fifteen years, will serve as a further disincentive for investment in electric utilities during the next few years. Thus by the time the excess capacity disappears, it will be too late to do anything about it, at least for the duration of this business cycle.

All of these reasons serve as contributing factors to the electric power shortages which is likely to occur at the peak of the next cycle in 1978. None of the disincentives to invest listed above are about to change in the next few months. Thus we are likely to be locked into the problem long before it actually surfaces, although the problem is already being actively discussed.



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If we take what we believe to be the most realistic combination of demand and capacity estimates, we find an unprecedented shortage of electricity by 1978. The reserve margin at peak load time would be only 15.8%, well below not only the 20.8% of 1973 but the 16.6% of 1969, the postwar low. Under this condition we would certainly have power shortages and a resultant slowdown in industrial production, substantial shortages, and another severe recession.

If the shortages of electric power are as severe as we have indicated, we are likely to see shortages in many basic raw materials which depend heavily on energy whether or not they have adequate capacity in place. Some of the problems may be solved by relying more heavily on imports of these commodities. However, if the U. S. is forced to go heavily to the import market, this is likely to set up a chain reaction of speculative hoarding among other nations of the world, which will worsen the situation. Even if the shortages caused by power interruptions would be only sporadic in nature, uncertainty about sources of supply will clearly lead to excessive inventory accumulation. Thus shortages of major materials are still a distinct possibility during 1977 and 1978, although for a different set of reasons than was the case in 1973 and 1974.

If all of these factors actually do occur, we are almost certain to have an intensification of the panic buying and speculation which occurred in 1973 and early 1974. Thus even if capacity is sufficient to handle normal peak demands, it will not be able to keep up with the short-term surge in speculative demand. These shortages will clearly exacerbate the situation, as firms will stockpile goods which they do not need just in case the materials are not available at a later time. We will thus have



an overaccumulation of inventories which will be similar, although probably more severe, than the stockpiling which occurred last year.

It is not particularly useful to speculate whether this combination of speculative buying and rapidly rising prices will bring another round of wage and price controls; that depends critically on the political nature of the President and Congress. Yet even if controls are not reimposed, most businessmen will be expecting them because of the renewed double-digit inflation. This sort of behavior occurred last fall, when the vast majority of businessmen expected reimposition of controls. Even though no such thing occurred, it contributed to inflation by causing businessmen to raise their prices before they became locked into fixed list prices which became unrealistic as uncontrolled costs continued to rise. Thus firms will raise their prices in anticipation of controls; this will worsen the inflationary spiral even more.

All these forces will cumulate in another major recession. While the exact magnitude is still somewhat hard to define, due both to problems of timing and incomplete information about how the Federal government will react, it is likely that GNP will decline for at least four quarters in a row and the unemployment rate will top 10%. If the recession were to be as severe as the one which is just now ending, the unemployment rate would rise to the 12% level. Even higher levels are possible if a badly confused President and Federal Reserve Board Chairman push the economy further in the wrong direction.



1980 AND BEYOND

Unlike many gloom and doom fanatics, we do not see the end of the world occurring in 1978, just another serious recession. The U. S. and world economies will recover sometime in 1979, just as they have recovered from the most recent recession. What happens after that depends critically on fiscal and monetary policy, and in particular the direction which they take with regard to capital spending.

Lying at the root of the recent recessionary problems has been an inability of the economy to generate increases in productivity. As a result, the real wage of the average worker declined almost 10% during the past two years and is now lower than it was in 1964. Frustrated, the worker has pushed for higher wages and tax relief. However, higher wages have immediately been dissipated into higher prices, while tax relief has come at the expense of investment through higher interest rates in capital markets. Since a higher nominal wage rate pushes the taxpayer into a higher marginal tax bracket, he has less purchasing power on balance even if wages and prices rise by the same amount.

The only way to break this vicious spiral is to return to the period when productivity rose approximately 3% a year, rather than the 1% per year average which has occurred since 1966. This can be accomplished by two major changes. First, we need to increase the ratio of investment to consumption and of investment to GNP. Second, we need to expand the production possibility frontier through greater knowledge, which can be accomplished primarily through increased spending for R & D. The major finding of this study has been to document the strong relationship between increased R & D spending and higher rates of increase in productivity.

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> Investment cannot prosper in an atmosphere where the tax climate encourages present consumption at the expense of capital formation. Yet this trend continues. The Tax Reduction Act of 1975 was a good example of this; of the \$22.8 billion in tax reduction, \$20 billion went to consumers while \$2.8 billion went to businesses. We do not consider this a balanced tax cut, although there is little doubt that increased fiscal stimulus was needed, largely to redress the imbalances caused by overly stringent monetary policy during most of 1974. However, obvious inequities such as double taxation, which are not found elsewhere in the industrialized world, need to be eliminated or completely revamped if we are to redirect the economy toward a higher area of investment.

> The case for higher R & D spending has been amply documented in the main text and does not need to be repeated here. However, we found in our results that private R & D has a much smaller effect in increasing the rate of technology, partially because it is designed toward increasing the profits of one particular company and hence does not contain valuable spillover effects. Thus a greater proportion of the total government budget devoted to R & D would, we believe, pay very substantial dividends in terms of increasing productivity and the real wage, hence raising real growth while reducing the rate of inflation.

At this point we cannot tell which of the two paths will be followed by the U. S. economy in the 1980's. In our standard forecast, which is contained on the following pages, we have opted for the most optimistic scenario, and have the unemployment rate returning to 6% by the end of the ten-year simulation period. However, there is clearly no guarantee that this will occur. If Congress decides to tilt the economy further in the direction of higher



ratios of private and public consumption to investment, we will undoubtedly find ourselves heading in the direction of zero per capita growth, and the U. S. will be reduced to the economic power of a somewhat larger Great Britain.

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REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

THE PRINCIPAL ASSUMPTIONS FOR THIS RUN ARE RECESSION IN 1978

VARIABLE NAME	1974 TABLE 1.	1975 •14 G	1976 Ross NA	1977 TIONAL	1978 PRODUCT	1979 IN CUR	1980 Rent Dol	1981 Lars (1982 PERCENT	1983 CHANGE	1984 • ANNUAL	RATES)
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TEN YEAR FORECA The Principal Assumptions for variable name	GROSS NATIONAL PRODUCT	CONSUMPTION EXPENDITURES Durable goods Nondurable goods Services	GROSS PRIVATE INVESTMENT FIXED INVESTMENT Nonresidential Structures Egultphent Residential Structures Nonrarm Farm Cmange in Inventories Nonrarm Farm	NET EXPORTS OF GOODS AND SERV Exports Imports	GOVERNMENT PURCHASES Pederal National defense Other State and Local	GEDSS NATTONAL PRODUCT	CONSUMPTION EXPENDITURES Durable 60005 Nondurable 60005 Services	FIXED INVESTMENT Nonresidential Structures Eguipment Residential Nonrar Farm Change in Inventories	EXPORTS Thports	GOVERNMENT PURCMASES Federal State and Local Add: Govt Output Originating	

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ATT RUDUCIBILITY OF THE ORIGINAL PAGE IS POOR THE PRINCIPAL ASSUMPTIONS FORETARED BY CHASE ECONOMETRICS. INC. ON MAY 23 1975 The Principal Assumptions for this run are recession in 1978

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NDIRECT BUBINESS TAXES 104.9 113.9 127.5 142.	154.2 16	6.6 182	199						
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STATE AND LOCAL EXPENDITURES 205.9 230.3 254.9 281.2	312.4 34	5.1 381.5	122.2	467.5	9.9.6	572.1	10.61	10.66	10.62
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EMPLOYMENT, ARMED FORCES EMPLOYMENT, CIVILIAN GOVERNMENT SELF EMPLOYED, INCL FARM EMPLOYMENT, MANUFACTURING EMPLOYMENT, CONSTRUCTION EMPLOYMENT OTHER PRIVATE NUMBER OF EMPLOYEES	45 0 45 40 40 40 40 40 40 40 40 40 40 40 40 40	40.20 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40.00 40	15.20 19.50 19.61 19.61 19.61 19.61 19.61 19.61 19.61 19.61 19.61	00000000000000000000000000000000000000	00000000000000000000000000000000000000	12 12 12 12 12 12 12 12 12 12 12 12 12 1	05 1 4 00 05 1 4 00 05 1 4 00 05 0 00 05 0 00 05 0 00 05 0 00 00 00 00 00 00 00 00 00 00 00 00 0		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 18.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 19.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.70 10.700	MG MG MG MG MG MG MG MG MG MG	-N30000 	0400000 0040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 040000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000 04000000	
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Appendix G

Simulations of the Macroeconomic Model for Increases in NASA R & D Spending of \$1.0 Billion, \$0.5 Billion, and \$0.1 Billion

In this appendix we present the complete simulations of the Chase Econometrics macroeconomic model under alternative hypotheses about NASA R & D spending. In each case we made proportional changes as follows:

1) We raised Federal government purchases of nondefense goods and services by \$1.0 (\$0.5, \$0.1) billion in 1958 dollars.

2) We adjusted the term for maximum output in the economy by proportional factors given in the text. In each case we used the two-year lag between R & D spending and any changes in γ . Thus the title "C56 changes lagged 2 yrs" refers to this fact. C56 indicates that the adjustment for maximum output in the economy is the 56th equation in the model. Altogether the model contains 125 stochastic equations and 105 exogenous variables. Each of the stochastic equations can be adjusted by changing the value of the constant term in that equation.

The summary statistics for each of these runs are given in Tables 4.2 -4.4. We have included the complete simulation results in this appendix so that the reader may compare any of the 465 variables in the model which are not given in these tables.

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TEN VEAR FORECAST PREPAR The Principal Assumptions for this Run 1974 1975 1 Table 1.1	GROSS NATIONAL PRODUCT	CONSUMPTION EXPENDITURES Automobiles and parts Otmer Durable Goods Nondurable Goods Services	GROSS PRIVATE INVESTMENT FIXED INVESTMENT Nonresidental Structures Equipment Residental Structures Nonfarm Change in Inventories Nonfarm	NET EXPORTS OF GOODS AND SERV Exports Imports	GOVERNMENT PURCHASES FEDERAL National defense Other State and Local	GNP IN 1958 DOLLAR3 Implicit GNP deflator Consumer Price Index WHSL Price Index WHSL Price Index (Indus Comm)	INDEX OF INDUS PROD, TOTAL Index of Indus Prod, MFG, Disposable Personal Income Corp Profits Before Tax Corp Profits After Tax	MONEY SUPPLY+NO TIME DEP (M1) Money Supply +TD =CD (M2) Money Supply With Time Dep	TREABURY BILL RATE, 91-DAY Commercial Paper Rate, 4-6 Mo Aa Corporate Rate, New ISSUES	INDEX OF CAPACITY UTILIZATION New Passenger Car Sales, Saar Total Private Housing Starts	UNEMPLOYMENT RATE Personal Savings rate Federal Govt Surplus or def

THE PRINCIPAL ASSUMPTIONS FOR THIS RUN ARE 1 BILLION - BASED ON MAY - C56 LAGGED 2 YRS

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		TABLE 1	. 2 A 0	THER M	AJOR ECI	DIMONO	INDICATO	RS (PE	RCENT CH	ANGE . A	NNUAL R	ATES)
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INDEX OF INDUS PROD. TOTAL				. •	. ÷	•	٠	6		- 🔶		
INDEX OF INDUS PROD.MFG.		-		-		n,	÷.					
DISPOSABLE PERSONAL INCOME	•	÷.				•	••	•	٠			
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NEW PASSENGER CAR SALES. SAAR		1.04	1.74	1.06								
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TEN YEAR FORECAST PREP. The principal assumptions for this ru 1974 1975 Table	FORECA NS FOR 1974	ST PREP THIS RU 1975 TABLE	ARED BY N ARE 1 1976 4.1	CHASE BILLIO 1977 Person	ECONOM N = BA 1978 AL INC	ETRICS. Sed on M 1979 Ome and	INC. ON AY - C5 1980 ITS DISI	JUN 2 6 LAGGE 1981 Positio	5 1975 D 2 475 1982 N	1983	1984	ANNUAL GROWTH 75180	IZED CO RATES.	MPOUND Years- 75-84	
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WAGE AND SALARY DISBURSEMENTS Manufacturing Construction Other Nonfarm Private	751.2 211.3 323.2	791.9 210.2 48.8 352.4	897.5 244.8 54.8 401.0	1011.7 279.0 61.1 456.8	1097.2 291.3 65.7 504.2	1185.3 306.0 72.9 545.8	1315.8 344.6 84.9 597.6	1458.6 388.6 95.4 654.4	1601.3 425.1 105.5 716.4	1751.7 458.6 117.7 782.6	1909.3 190.2 130.7 861.0	10.69 10.39 11.71	9.75	10°10°10°10°10°10°10°10°10°10°10°10°10°1	
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PERSONAL SOCIAL INSURANCE TAX PERSONAL TAX PAYMENTS DISPOSABLE PERSONAL INCOME	47.9 170.8 979.7	50.3 166.3 1074.7	55.6 198.5 1198.6	70.9 231.5 1328.9	79.0 260.2 1434.6	87.7 275.9 1554.2	98.7 297.6 1711.4	110.8 334.7 1875.8	123.2 371.8 2048.9	136°4 411°3 2233°9	150.8 454.7 2426.6	14.42 12.34 9.75	11.19 11.17 9.12	12.96 11.81 9.46	6-7
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ANNUAL GROWTH 75+80	3.24	N N N N N N N N N N N N N N N N N N N	8 4 4 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	8+07 3+97 3+17	000000 000000 000000 0000000 000000000		6.87	7.10	99999999 9999999 99999999 99999999 99999	6.41 7.64	7 • 92 6 • 98	6.36 ATE NOT
1984	1102.1	715.0 136.7 285.9 292.3	444 844 84 84 84 84 84 84 84 84 84 84 84	19.0 92.3 73.3	1989 1980 1980 1980 1980 1980 1980 1980		319.6	299.5 204.5 312.9 312.9	2000 2000 2000 2000 2000 2000 2000 200	365.1	433.3 442.4 428.5	460.6 GROWTH R
1983 Ars	1068.3	689.8 131.7 276.8 281.3	1111 121 121 121 121 121 121 121 121 12	18.7 90.0 71.3	1984 1986 1996 1996 1996 1996 1996 1996 1997 1997		301.8	285.2 198.2 298.8 312.5	4 t 200 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	345°6 436°4	202.6 209.7 398.9	437.1
5 1975 D 2 YRS 1982 NT DOLL	1028.0	661.6 126.0 267.1 268.5	411 971 972 972 972 970 970 970 970 970 970 970 970 970 970	18.0 88.0 70.0	179.0 63.2 39.6 23.7 115.7	GNP	286.3	272.1 192.3 285.1 296.6	0.000000000000000000000000000000000000	329.0	375°3 380°6 372°5	411.1
JUN ZI 6 LAGGEI 1981 CONSTAI	983.0	632.1 120.4 257.0 254.7	000-M04 000-M04 00-20-00 00-00-00 00-00-00 00-00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 00-00 000000	16.1 85.2 69.1	173.9 62.2 39.2 22.9 22.9	ORS FOR	272.3	260.0 186.5 272.2 282.3	50000000000000000000000000000000000000	314 •5 388 • 3	450 456 456 46	386.2
INC. DN AY - C5 1980 DUCT IN	925.6	600.7 112.4 241.0 241.0	111 2100 - Mu 900 - M	15.0 81.6 66.6	168.6 61.0 388.8 222.2 107.6	DEFLAT	259.6	248 259 259 259 259 259 259 259 259 259 250 250 250 250 250 250 250 250 250 250	98999999999999999999999999999999999999	300•1 366•3	328.4 330.8 327.1	363•1
TRICS. ED ON MJ 1979 Mål Proi	870.0	576.0 103.5 240.7 231.9	- 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	14.5 78.6 64.1	163.7 60.1 38.6 21.5 103.6	I PRICE	246.8	236.4 172.8 245.1 255.8	22222222222222222222222222222222222222	285.5	307.8 308.6 307.4	341.2
ECONOMET N = BASE 1978 S NATION	860.9	571.8 103.9 240.1 227.9	80000000000000000000000000000000000000	13.1 75.7 62.6	160.1 59.9 38.9 21.1 00.3 100.3	INPLICIT	231.3	221.7 164.4 229.0 240.1	222222222 22222222 222222222 222222222	271.7 329.0	287.1 285.9 287.8	321.1
CHASE BILLIO 1977 - Gros	870.8	571.4 109.2 238.5 223.6	00000000000000000000000000000000000000	12.6 73.3 60.8	158.0 60.6 71.0 71.0	97.4 2.2	213.8	205.1 154.7 212.0 222.3	2017 2017 2017 2017 2017 2017 2017 2017	254.4	265.1 261.3 267.4	302+3
RED BY 1 ARE 5 1976 E 2.1 -	835.6	551.3 103.2 229.4 218.7		10.6 70.8 60.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		199.0	189.8 145.0 197.5 202.9	201.0 2372.0 1775.1 175.1 2382.0 208.5 208.5 208.5 208.5	237.2 285.2	247.2 242.8 250.0	284.5
ST PREPAR THIS RUN 1975 1 TABLE	789.3	533.8 94.8 223.9 215.1	00000000000000000000000000000000000000	10.2 67.2 57.0	150 588. 198. 919. 84. 919. 84. 919. 84. 919. 84. 919. 84. 919. 919. 919. 919. 919. 919. 919. 91		186.2	176.3 135.0 183.3 187.2	1186 1186 1186 1186 1186 1198 1198 1198	250.0	230.5 226.0 233.4	266.7
FORECA VS FOR 1974	821.2	539.5 103.1 223.7 212.6	11 14 14 14 14 14 14 14 14 14 14 14 14 1	9.0 71.9 62.9	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		170.2	162.5 170.0 173.5	1100 1100 1100 1000 1000 1000 1000 100	195.0	211.8 206.8 215.0	250.8
TEN YEAR FORECAST PREPARED The Principal Assumptions for this Run Ar Variable Name Table 2 Table 2	GROSS NATIONAL PRODUCT	CONSUMPTION EXPENDITURES Durable Goods Nondurable Goods Services	GROSS PRIVATE INVESTMENT FIXED INVESTMENT NONRESIDENTIAL STRUCTURES Equipment Residential Structures Nonfarm Change in Inventories Nonfarm Farm	NET EXPORTS OF GOODS AND SERV Exports Imports	GOVERNMENT PURCHASES Federal National defense Other State and Local		GROSS NATIONAL PRODUCT	CONSUMPTION EXPENDITURES Durable Goods Nondurable Goods Services	FIXED INVESTMENT Nonresidential Structures Eguipment Residential Nonfarm Farm Change in inventories	EXPORTS Imports	GOVERNMENT PURCHASES Federal State and Local	ADDE GOVT OUTPUT ORIGINATING

TEN YEA The principal assumpti	R FORECA ONS FOR	ST PREPAR THIS RUN	ЗЕD ВΥ АРЕ •	CHASE SBILLIO	ECONOME N - BASI	TRICS. ED ON M	INC. DN	JUN 2 6 LAGGE	5 1975 D 2 YRS			
VARIABLE NAME	1974 ABLE 2.1	1975 A GR	1976 055 nat	1977 IONAL P	1978 RODUCT	1979 IN CONS'	1980 FANT DO	1981 LLARS	1982 (PERCENT	1983 Change -	1984 ANNUAL	RATES)
GROSS NATIONAL PRODUCT	-2.1	-3.9	5.9	4.2	-1.1	1.1	6.4	6.2	9.7	3.9	3.2	
CONSUMPTION EXPENDITURES	Ň				.1.	۲.	4.3					
DURARLE GOODS	•	-8-1			-4.8		8.7	•		•	۰	
NONDURABLE GOODS Services	2.2	- ~-	5 F N	4 V 0 V	• • • •		0.4	μ.Ω 0.►	¢ ⊅	N 3 • •	м с • м и	
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GROSS PRIVATE INVESTMENT		5 a.	52.5	8° 1				13.9				
FIXED INVESTRENT NONDESTDENTIAL					a n	•	÷.	•	•		•	
STRUCTURES	• •				ů m	ه. ه بب ک			• •		• .	
EQUIPMENT		14	• •	-		i m	ŝ	• .•				
RESIDENTIAL STRUCTURES	-27-0	-17.5	26.6		= 1 4 ° 4	36.4	29.8	0	ອ ອີ		10 ° 1	
			c.	0	2		5	•	n.		•	
EXPORTS	7.9	-9.6	1° 1°	3.6	Б.	3.7	0 ° 0	1.1	n n	5.5	5°2	
IMPORTS	•	6								٠		
GOVERNMENT PURCHASES		8 • •	2.8	2.5		2.2	3.0		2.9	3 • 0	2.0	
FEDERAL National Strengt	•		•	1+3		a 1			1.7			
NALLONAL DEFENSE Differ	0 40 9 4 9 4 1		M	• • • •			- 14 - 14			- 0 - 1		
STATE AND LOCAL	2.8			- N - H - H	2.0	1 1 1 1 1 1	80 1 10 1 10	• .•	- 10 - 10 - 10	60 1 11	2.4	
	TABLE	2.2A .	I HHL	CIT PRI	CE DEFL	ATORS F	OR GNP	(PERCE	NT CHANGE	N N	L RATES	
GROSS NATIONAL PRODUCT	10.3	9.4	6 ° 9	7.4	8.2	6.7	5*5	4.9	5.1	5.4	5.9	
CONSUMPTION EXPENDITURES			7.7	8.1					4.7			
DURABLE GOODS	-		7.4	6.7			٠		J. T			
NONDURABLE GOODS	6 . 7 7 . 0			1. 1. 1.	0 0 0	0.4		0.0 10.5		90 S S S U	4 U	
DERVICED	•	•				•	•			•	•	
FIXED INVESTMENT		13.0	7.8	20 - - 0		រក ហ	•			10 I 10 I		
NONRESIDENTIAL	•	n. 0			2 4 2 4	• •	9 - 4		«	ی ک	•	
	10.2	15.2	2 2 2 2		0 • •)	4	1	8.1	- .	
RESIDENTIAL	•			٠					7.6	•		
NONFARM	ċ	-	100	۰		٠				•		
FARM Flaves the flave of the		•		•	N 0	• .		•		• .		
2	5	•	•		•	•		•	1	•		
EXPORTS	29.5	6. 2	7.8	7.2	9 9		5.0	80 (c 17)	4 . 1		-0 (-0 (
IMPORTS							•					
GOVERNMENT PURCHASES					۰	•				. e i		
FEDERAL State and Local	11.2	141 - D 	7.1	0.0	9 9 9 7 9 7	6 • 4 9 • 9	7 • 4 9 • 4	9.9		0.1.	4 .	
ADD: GOVT DUTPUT DRIGINALING	5	9	6.7	2 ° 9	6.2	6.3	6 • 4	6 e 4	6 • 4	6.3	5. 4	
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THE PRINCIPAL ASSUMPTIO BLE NAME National Product Reciation (cca), total	a w	PRF 15 RU 975 RU 69 9 28 9 28 9	RED ARE 1976 LATI 663.	ASE 1110 2.0 2.9	2 0 5	TRICS ED ON 1979 AL IN 2147.	A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C A C C C A C C C C C C C C C C C C C C C C C C C C	JUN 6 LAG 1981 PERS 2677. 219.	5 1975 1982 1982 AL INC 2943.1 244.1	1983 HE 3225. 271.	984 24	330 M 0 ZCI •	IZED RATE 80=8 10 • 0 11 • 0	75 80UN 10.1	
•	76.7 42.8 78.0	83.7 45.3 1341.0	90.7 48.8 1524.3	99.1 52.8 1710.1	108.6 57.2 1825.0	118.4 61.7 1967.6	130.2 67.8 2205.6	144.5 75.2 2457.3	160.8 83.2 2699.0	179.0 92.0 2954.0	199.4 101.5 3222.2	9.25 8.40 10.46	11.24 10.63 9.94	10+12 9+38 10+22	
INDIRECT BUSINESS TAXES Business transfer payments Statistical discrepancy Subsidies Less Burpluses National Tnorme	126.9	1 38°F	153.8	170.7 6.4 1.9 1.9	185.0 6.8 =6.8 =2.8	199.3 7.2 •4.9 •3.3	217.7	230.6 8.0 8.0 8.0 8.0 8.0	260.8 8.60.8 8.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7.4 7	N 84 84 84 84 84 84 84 84 84 84 84 84 84 8	M 00 M 00	0-0 0 30000 4 30000 4	4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
WHAZ 0	214 214 214 214 214 214 214 214 214 214	1 100 000 100 100 100 100 100 100 100 1		1 1 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		40 TAN 004	100 N N N N N N N N N N N N N N N N N N		NN M	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 48 NO96 901 NCN 011 MH		01010-00 01-010-00		
PERSONAL INCOME	1150.5	1240.6 TABLI 1101.7	1395.9 E 3.2 -	1559.4 - NATIO	1693.5 NAL INC	1828.6 Ome by 1762.8	2007.4 TYPE OF	2208.8 TNCOME 2206.0	2418.7	2642.7	2876.1 2902.3	10.10	10.01 80.01	9.78	
TION OF EMPLOYEES and Salaries ate tary tary tary tary tary tary tary tabor income r Labor income	50000000000000000000000000000000000000	80000000000000000000000000000000000000	000000000 00000000 00000000	100 0110 0110 0110 0110 0110 0110 0110	840 840 140 140 140 140 140 140 140 140 140 1	0-000000000000000000000000000000000000	55401451 112250445 11220	1220 1220 1220 1220 1220 1220 1220 1220	10000000000000000000000000000000000000	40000000000000000000000000000000000000	000000000 000000000 000000000000000000	2000000	NFNF6N63		
PROPRIETORS INCOME Business and professional Farm Rental income of Persons	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	88.0 57.6 57.6 57.6 57.6 57.6 57.6 57.6 57.6	80 20 20 20 20 20 20 20 20 20 20 20 20 20	944 2000 2000 2000 2000 2000 2000 2000 2	99. 90. 90. 90. 90. 90. 90. 90. 90. 90.	100.4 665.5 54.9 51.1	102 105 105 105 105 105 105 105 105 105 105	111.4 75.2 36.2 34.0	116.9 79.5 37.4 35.5	123.4 84.7 38.7 37.1	141.5 91.5 18.7 18.7	4 • • • • • • • • • • • • • • • • • • •	5 4 4 9 4 4 7 4 4 7 4 7 4 7 4 7 4 7 4 7 4 7 4 7	4 - 4 9 - 7 9 - 7	
CORPORATE PROFITS AND IVA PROFITS REFORE TAX MANUFACTURING FINANCIAL OTHER PROFITS TAX LIABILITY PROFITS AFTER TAX DIVIDENDS UNDISTRIBUTED PROFITS INENTORY VALUATION ADJ NET INTEREST		00000000000000000000000000000000000000		144 144 144 144 144 144 144 144 144 144	11 12 12 12 12 12 12 12 12 12 12 12 12 1		11 16 16 16 16 16 16 16 16 16 16 16 16 1	0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	NN944480944	100 100 100 100 100 100 100 100 100 100	1000 1000 1000 1000 1000 1000 1000 100	214 200 200 200 200 200 200 200 200 200 20	110.04 111.05 111.05 111.05 111.05 100.09 100.09 100.09 100.09 100.09 100.09 100.09 100.09 100.09 100.09 100.09 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00000000	111 111 111 111 111 111 111 111 111 11	

THE PRINCIPAL ASSUMPTIONS FOR Variable Name 1974	FORECA NS FOR 1974	ST PREP THIS RU 1975 Table	ARED BY N ARE • 1976 4•1 ••	CHASE 581LLIO 1977 PERSON	ECONOME N = BASI 1978 AL INCO	TRICS+ ED ON MJ 1979 He and]	INC - DN AY - CS 1980 ITS DISI	JUN 2 6 LAGGE 1981 Positio	5 1975 D 2 785 1982 N	1983	1984	ANNUAL GROWTH 75-80	IZED CO RATES. 80-84	MPOUND Yearge
PERSONAL INCOME	1150.5	1240.6	1395.9	1559.4	1693.5	1828.6	2007.4	2208.8	2418.7	2642.7	2876.1	10.10	9.41	9.78
WAGE AND SALARY DISBURSEMENTS Manufacturing	751.2	791.3	896.8 244.2 244.2	1011.1	96	1184.5 306.0	1315•0 345•5	1458.2 390.5	1601.2	1751.6	1007.2 1964		9.74	10.26
CONSTRUCTION Other Nonfarm Private Fabu	323.2	352.5		26.9		NIS .	- - - - - - - - - - - - - - - - - - -	25.0	3 3 1			90	N 31 1	3 .
COVERNMENT Other target	158.8	173.4						ůr.	10.		ñ		,	
			•	2	•				•	2		1		
PROPRIETORS INCOME Business and Professional Farm	93•0 51•8 31•8	85 85 86 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	89.9 53.6 26.4	97.4 66.2 31.2	99°3 66°5 32°7	100.4 66.5 33.9	105.3 70.3 35.0	111.4 75.2 36.2	116.9 79.5 37.4	123.4 84.7 38.7	131.5 91.5 40.0	4.37 2.34 9.32	5.71 6.81 3.39	000 00 00 00 00 00 00 00 00 00 00 00 00
RENTAL INCOME OF PERSONS	26.5	27.3		÷						-	୍ଷ	ŝ	- in	<u> </u>
DIVIDENDS Personal interest income	32.7	34.8	38.8	43.3 158.6	179.1	46.5 194.3	207.6	56.7	63.7 244.7	69.7 267.0	76.0	7.41 11.99	11.14	9.05 10.52
TRANSFER PAYHENTS	139.8	176.3	- 7	ີ້	ີ່ຄື							- e0 *	- NI 	9.1
OLD-AGE AND HFALTH BENEFITS Unemployment insurance	69.8 7.1	83.7	ŝ	0.0	8	22.2	21.	58.	68.	83.	00		93	- 1
VETERANS BENEFITS DTHER	16.1	18.8	21.1	23. E 67. 3	26.2	29.4	32.6	94.9	39.6	43.4	47.0	11.71	9.9	10.74
PERSONAL SOCIAL INSURANCE TAX Personal tax payments	47.9 170.8	50.3 166.2	55.6 198.3	70.8	78.9	87.6 275.6	98.6 297.4	110.7	123.2	136.4	150.7	14.42	11.18	12.95 11.80
DISPOSABLE PERSONAL INCOME	7.979	1074.3	1197.9	1328.1	1433.5	1552.9 1	109.9	1874.2	2046.8	2231.3	9.1242	9.74	60*6	444
PERSONAL OUTLAYS Consumption Expenditures Interest Paid by Consumers Transfers to Foreigners	902.7 876.7 25.0 1.0	967.8 941.0 26.0	1075.6 1046.6 28.2	1203.8 1171.9 31.0	1302.3 1267.7 33.7	1399 1 1362 1 36 2	45 25 465 465 465 465 465 465 465 465 465 46	1688.3 1643.5 43.8 43.8	1850.2 1800.5 48.8	2022.5 1967.4 54.2	2202.7 2141.9 59.9	9.99.9 9.69 9.75 9.02 9.02	9.74 9.75 1.00 1.1 00	9999 9999 9999
PERSONAL SAVING	77.0	106.5	122.3	124.3	131.2	153.8	177.0	186.0	196.6	208.8	218.9	10.71	5,45	8.33
DISPOSABLE INCOME 19585	602.8	609.3	630.9	647.5	646.7	656.8	688.2	720.9	752.2	782.3	808.5	2.46	4.11	3.19
PERSONAL SAVINGS RATE	7.9	6°6	10.2	9.4	9.2	6 •6	10.4	6.6	9.6	9 . 4	0.6	.97	-3,34	9¢
	TABLE	4.2	ADDITIO	NAL EXO	GENDUS	VARIABLE	S USED	IN INC	OME DET	ERMINAT	NOI			
TO WAGES. MFG. Construction	0.10	42.1	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	57.5		- 0 N	P. 3		5		20.2	201	3.0	
GUPPLEMENTS. OTHER PRIV NONFRM Supplements. Farm Supplements. Government	39.5 .5 19.9	22.7		28 .0 28 .0 28.0	9	76.7 1.2 33.3	86 - N 9 - N 9 - N 9 - N 9 - N	101 1 4 29 2	1.5	1.6	151.5	14.00	14.45	10.79

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									6.	-21			02								
MPOUND Years	11.64	10.82 8.01 8.01 13.62	8.95	4040.00		10 10		.00		10.78	177 177 177 177 177 177 177 177 177 177	10.62	10.57 9.61 6.55	*00*		-1-38)		<u> </u>	P IP	0
IZED CO RATES. Bomb4	11.23	10.90 13.27 8.26 11.45	8.45	9.25 8.32 10.83	00	401		*00*		10.40	11.69	10.66	10.63 10.04 5.85	-6.79		000		0	00		<u>.</u>
ANNUAL GROWTH 75100	12.35	10.77 12.03 7.82 15.41	9.38			M (1) I	n 0 ∩ →	#00 *		11.10	4 M 1 4 M 1 7 4 6 7 4 6 7 6 8	10.61	10.54 9.26 7.19	+0.0 +		-2.47			20	1.7	z
1984	749.8	308 99 19 29 29 29 29 29 29 29 29 29 29 29 29 29	778.5	287.6 176.9 110.7	00	ທໍ່ອໍ່ເ		-28.7		576.7	145 145 145 145 145 145 145 145 145 145	572.1	527.4 53.9 .1 9.3	4.7		• 1 8 0		5.60	2.0	- 3	3
1983 Res	679.2	281.2 88.8 44.9 264.4	1.9.17	1996 F	m.m.		NOOF	-39.9	ITURES	527.3	130.0 14.6 239.9 32.8 110.0	519.6	479.5 49.1 6.8 8.8	7.7		160			2.2	~~	
5 1975 D 2 YRS 1982 PENDITU	614.2	254.7 79.4 41.5 238.6	661.6	3000			MADE	-47.4	EXPEND	478.2	117.0 219.5 29.5 99.6	467.5	431.0 44.0 8.1 8.0	10.7	ŝ	081	1 - 1 1 - 1	n ==	2.2	- 0	
JUN 2 6 LAGGE 1981 AND EX	554.1	229.4	609.3	O O O O	3.0	ຄຸ້ຄຸ	80 M 2 M 80 M 2 M 80 M	-55-2	PTS AND	432+5	105.1 205.1 200.3 26.3 89.1	422.2	89.5 40.5 40.4 1.9	10.4	VARIABLI	• 180 • 180	20.0	5 0	2.2	- 2	
INC. ON AV	480.8	204.1 60.7 85.2 189.8	562.8	201.9	30		1 40 P M	-73.0	T RECEI	388.2	10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.0000 10.0000 10.0000 10.0000 10.0000 10.0000 10.00000 10.00000 10.00000000	381.5	352.0 36.7 .1 7.4	6.7	POLICY		4 ÷		2.2	~ 5	•
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ECONOME N = BAS 1978 L GOVER	414.5	186.6 46.1 30.7 151.2	479.0	1095		। জন্ম।	N J OM	-64.4	OCAL GO	318.5	73.4 754.5 154.9 64.9	312.4	298°5 M 0 • 1 0 • 2 0 • 2 0 • 2 • 2 0 • 2 0 • 2 0 • 2 0 • 2 0 • 2 0 • 2 0 • 2 0 • 2 0 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2 • 2	6. I	OTHER	204	N	å -	ុំ	n m	1
CHASE 581LLIO 1977 FEDERA	387.4	168.3 55.1 28.6 135.4	443.5	50 M M 4	e m		ກ່ວະທ	-56.1	E AND L	290.3	6 4 7 8 9 6 4 7 8 9 6 4 9 8 7	281.2	260.5	1 6 .	5 . 3 en	100 100 100 100 100 100 100 100 100 100	un e		<u>,</u> ,	- 00	•
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ST PREP THIS RU 1975 Table	273.6	122.4 34.4 24.1 92.7	359.5	132.7 87.9 44.8				-85.9	LE 5.2	229.3	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	230.3	213.5	-1.0		-204	225.0				•
FORECA NS FOR 1974	1.195	131.3 49.1 22.0 88.7	299.1	116.9 78.7 38.2	6.9	21.4		-8.1	TABL	207.7	39.5 6.7 104.9 12.8 43.8	205.9	192.3 20.2 5.0 5.0	1.8				53.	2. 2. 2. 2.	8 8 8	•
TEN YEAR FORECAST PREP THE PRINCIPAL ASSUMPTIONS FOR THIS RU 1974 1975 1491E	FEDERAL GOVERNMENT RECEIPTS	PERSONAL INCOME TAXES Corporate profits taxes Indirect Husiness taxes Contributions for social insur	FEDERAL GOVERNMENT EXPENDITURE	PURCHASES OF GOODS AND SERVICE National defense Other Toanseed Davments	AGE AND HEALTH BE	UNEMPLOYMENT INSURANCE Other Domestic	TO FOREIGNERS (NET) Grants-In-AID NET INTEREST PAID Subsidies Less Current SurpLus	SURPLUS OR DEFICIT (=)	•	STATE AND LOCAL GOVT RECEIPTS	PERSONAL INCOME TAXES Corporate profits taxes Indirect Business taxes Contributions for social insur Federal Grants-in-aid	STATE AND LOCAL EXPENDITURES	PURCHASES OF GOODS AND SERVICE Transfer Payments Net interest Paid Current Surplus of Govt Enterp	SURPLUS OR DEFICIT (+)		BASE PERSONAL INCOME TAX RATE Base corporate income tax rate	CHANGE IN SOCIAL SECTAX ANTE Change IN Soc Sec Income Base	FERSUNAL SOCIAL INSURANCE TAX	CIVILIAN GOVERNMENT EMPLOYMENT Number of men in Armed Forcfs	PROGRESS PAYMENTS, DOD Investment in Govt Structures	

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1983	142.0 326.5 10.7 696.5 157.9	468.5 1165.0 1322.9 863.2	5.19 4.41	6.54 9.54 8.54 8.54 8.54 8.54 8.54 8.54 8.54 8	7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		167.8 168.8 1.00 1.00 1.70	233.7 233.7 658.9 231.6 231.6	1.53 121.22 217.3 255.6	4.30 396.9 94.91	8.66 3.8.66 1.9.7 1.9.16 *
5 1975 D 2 YRS 1982	131.3 312.1 10.0 546.7 149.1	443.4 1090.1 1239.3 804.9	5.10 4.16	9.54 9.55 9.55 9.55 9.55 9.55 9.55 9.55	7.61		161.2	200 200 200 200 200 200 200 200 200 200	1.53 116.28 212.3 250.8	4.00 379.7 89.39	8.47 36.0 128.97
JUN 25 6 LAGGEI 1981 SUPPLY	121.5 296.1 594.9 140.3	417.3 1012.2 1352.5 738.5	5.57	6 - 7 6 - 7 6 - 7 6 - 7 6 - 1 0	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Sa	152.4	205.2 212.6 372.9	1.1.20 207.6 245.6	3.70 362.4 83.79	8.32 34.1 122.60
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TRICS. ED DN M 1979 IABLES S OF TH	102.3 263.4 89.1 487.4 122.7	2653.8 853.8 976.0 5976.0 587.3 ZTEREST	8.28 10.31	8.05 9.33 9.62 10.98	0000NF	ETARY II	134.6 137.6 1.00 1.00		1.53 101.01 197.0 235.3	3.21 328.2 72.59	8.04 30.1 109.77
ECONOME N = BASI 1978 ARY VAR MPONENT	94.6 254.5 445.4 113.9	349.0 794.5 908.4 531.2	8.59 12.04	9.64 11.07 11.55 12.38	10.58 10.87 11.22 10.55 10.21	HER MON	131.4 132.4 1.00 1.00 1.00	1 • 31 166 • 7 439 • 5 183 • 9 289 • 3	1.53 96.04 191.0 230.9	3.10 313.2 66.96	8.09 27.9 102.92
CHASE 1 5BILLI01 1977 MONET	85.7 251.4 5.2 415.9 105.1	338.0 755.0 860.1 491.5 1ABLE 6	7.98 10.34	9.33 10.84 11.30	11.02 11.02 11.73 11.07 11.07 10.02	3 01	128.2 129.2 1.00 1.00	1.03 157.3 394.1 179.3 252.4	1.42 95.28 188.1 232.0	3.01 301.8 61.20	9.01 26.2 90.87
КЕD ВҮ АRE - 1976 -	78.3 242.0 387.5 96.3	320.2 707.7 804.1 449.5	6.98 7.92	7.82 8.87 9.12 9.77	10 10 11 08 08 08 08 08 08 08 08 08 08 08 08	ABLE 6.	123 1 124 1 • 92 • 92 • 92	140.7 140.7 154.0 254.0 245.5	1.40 82.00 167.3 212.3	3.00 275.1 51.85	7.80 23.9 87.20
T PREP HIS RU 1975	71.0 223.4 251.9 351.8 89.8	294 . t 646 . 2 395 . 5 395 . 5	6.20 6.09	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4	0 M M Q • • • • • • • • • • • • • • •	127.6 323.1 323.1 145.5 211.1	1.49 66.25 135.1 181.4	3.25 244.9 44.46	7.90 21.4
FORECAS IS FOR 1 1974	214.9 214.0 317.9	278.9 596.8 677.2 359.0	7.82	7.87 9.83 10.18 10.80	8 8 9 9 8 9 8 9 9 9 9 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		106.6 108.8 2.05 1.8 6 5.05	13123 3123 3123 3123 3123 3123 3123 312	2.16 54.12 109.9 162.0	2.10	7.19 20.2 77.95
TEN YEAR FORECAS The principal assumptions for t 1974 1974	CURRENCY Demand deposits Govt demand deposits Consumer time deposits Certificates of deposits	MONEY SUPPLY (EXCL.TD) Money Supply (inc. cons. Td) Money Supply (incl. all Td) Thrift deposits	DISCOUNT RATE (NY FED RES) Federal fund rate	TREASURY BILL RATE-91 DAY Commercial Paper Rate-44-6 mo Primary 890ay CD Rate-NYC Bank Prime Commercial Bank Rate	AAA CORPORATE RATE,NEW ISSUES Aa utility bond rate aa corporate rate.new issues aa industrial bond rate mortgage rate		NON-BORROWED MONETARY BASE Monetary Base Borrowed Reserves Excess Reserves Free Reserves	INDEX OF CREDIT RATIONING BUS.LOANS AT LARGE COMM BANKS ALL NON-BUS. LOANS.ADJUSTED INV IN MUN + OTHER SECURITIES TOTAL INV OF COMMERCIAL BANKS	TREAS DEP AT FED RES BANKS Treas. Sec. at foreign banks Treas bills outstanding Treas bonds +notes outstanding	VOLUME OF CORPORATE ISSUES Total Corp Bonds Outstanding Non=Bank Commercial Paper	BANK RELATED COMMERCIAL PAPER Federal funds volume. 46 Banks Federal Agency debt

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TEN YEA The Principal Assumpti Variable Name	TEN YEAR FORECAST PRE Assumptions for this r 1974 1975 Table 7.1		ARED 87 N ARE . 1976 - PERSO	CHASE 581LLIO 1977 Nal con	ECONOME N = BAS 1978 Sumptio	TRICS+ ED DN M 1979 N Expen	INC. DN AY - C5 1980 DITURES	JUN 21 6 LAGGEL 1981 IN CURF	5 1975 D 2 YRS 1982 Rent Dol	1983 LARS	1984	ANNUAL GROUTH 75-80	IZED COM RATES.Y	190UND 15+843= 75+843
NET PURCHASES OF NEW CARS Net Purchases of Used Cars Morile Homes Tires and auto parts Automobiles and parts	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	M 4 5 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 5 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5	49.8 3.7 17.1 72.W	4400 447 46 44 46 47 46 47 46 47 46 47 46 47 46 47 46 47 46 47 46 47 46 47 46 47 46 47 46 47 46 46 46 46 46 46 46 46 46 46 46 46 46	484 484 484 484 484 484 484 484 484 484	57 57 6 7 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7 8 7	6 4 6 9 4 6 6 9 6 4 6 9 6 6 6 9 6 6 6 9 6 6 6 9 6 6 9 6 6 9 6 6 9 6 6 9 6 7 9 6 7 9 6 7 9 6 7 9 6 7 9	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	70.9 5.3 11.8 17.8 104.8	73.9 55.55 128.22 138.42	12.23 8.36 15.78 9.57 19.57	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	9.687 8.87 8.59 9.59
MAJOR HOUSEHULD APPLIANCES Furniture and furnishings Other Consumer Durarles Total Durable Goods	27.7 31.2 19.1 127.5	27.1	28.8 32.7 23.6 129.7	31.6 38.9 26.1 168.9	32°2 40°6 28°2 170°7	32.9 42.7 30.2 178.8	36.1 28.3 23.3 202.5	36.9 36.9 26.9 26.9 26.9 26.9	42.0 61.1 240.5 242.4	45.0 67.1 44.2 261.0	48.2 73.3 47.9 279.4	5.95 9.01 9.61	7.44 9.95 8.39	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
FOOD AND BEVERAGES CLOTHING AND SHOES GAS AND OIL Other consumer nondurables Total nondurable goods	1044 1044 1044 1044 1044 1044 1044 1044	207.0 78.1 86.8 410.4	222 222 222 222 222 222 222 222 222 22	259.5 93.3 107.1 505.8	285.3 98.2 48.9 117.3 549.8	308.0 103.5 51.1 127.6 590.1	112.4 112.7 153.8 150.5 641.0	363.9 122.8 155.5 155.5 699.7	395.7 133.1 61.7 171.1 761.6	430.2 143.6 143.6 187.2 827.1	467.4 153.9 70.7 202.7 894.8	10.05 7.61 6.72 10.19	8 4 4 8 8 • • • • • • • • • • • • • • • • • •	9 N 0 N 3 7 0 0 0 0 0 0 0 0 0 0 0 0
		138.5 59.3 28.9 175.9 128.9	151 64 64 64 64 194 64 194 64 194 64 194 64 194 64 194 64 194 194 194 194 194 194 194 194 194 19	167.4 71.1 333.6 233.6 297.6	180.9 78.3 237.2 547.2	192 192 192 192 192 192 192 192 192 192	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1000000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 1000000	0000 0000 0000 0000	264 - 2 1164 - 2 8455 - 2 879 - 3	800000 • • • • • • • • • • • • • • • • •	8-94 9-07 11-87 10-02	888 88 88 88 88 88 88 88 88 88 88 88 88	
TABLE T.2 PE CONSUMPTION DEF NET PURCHASES OF NEW CARS NET PURCHASES OF USED CARS MORILE HOMES TIRES AND AUTO PARTS AUTOMOBILES AND PARTS	DEFLATORS. DEFLATORS. 29.5 3.9 3.9 4.1.8	11 10 10 10 10 10 10 10 10 10 10 10 10 1	110 N 12 N 13 N 14 N	CNDI CNDI 34 34 44 44 44 44 44 44 44 44 44 44 44		A A A A A A A A A A A A A A A A A A A	100 100 100 100 100 100 100 100		Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	1 1 1 1 1 1 1 1 1 1 1 1 1 1		81 11 12 14 14 14 14 14 14 14 14 14 14	24 24 24 24 24 24 24 24 24 24 24 24 24 2	0.4 k 0.4 0.4 k 0.4 k 0.
MAJOR HOUSEHOLD APPLIANCES Furniture and furnishings Other consumer durahles Total durable goods	25.2 22.9 13.8 103.8	21.5	22.8 22.3 14.0 102.9	23.6 23.6 14.4 109.4	22.9 24.3 14.4 104.8	22.522.522.65	25.9	25.8 28.8 16.1 123.3	27.1 31.0 17.0 129.6	28.8 33.1 17.9 136.1	30.7 35.3 18.6 142.2	1.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	5.00	N N N N N N N N N N N N N N N N N N N
FOOD AND BEVERAGES Clothing and Shoes GAS and oil Other consumer nondurables Total Nondurable Goods	110 540 252 252 252 252 252 252 252 252 252 25	117.7 54.9 54.8 251.5	119.6 56.4 256.4 256.4 256.4	124.7 58.7 58.5 268.3 268.3	124.9 58.0 27.0 59.7 269.6	128.9 58.9 276.4 270.5	125.2 61.1 28.1 62.8 62.8 27.2	120 66 76 76 76 76 76 76 76 76 76 76 76 76	133.7 67.1 30.2 69.1 500.0	137.9 69.9 31.2 72.1 311.1	142.5 72.5 72.5 74.5 821.5	1000 1000 1000 1000 1000 1000 1000 100	N4N4M N4N4 NM4N NM4N NM4N NM4N NM4 NM5 NM5 NM5 NM5 NM5 NM5 NM5 NM5 NM5 NM5	N M M M N
HOUSING SEPVICES Household operation Transportation Services Other Consumer Services Total Services	N 9000000000000000000000000000000000000	100.7 39.1 19.1 82.6 241.5	104.6 39.6 19.1 82.5 245.9	109.1 20.3 21.8 251.2	111.8 20.9 20.9 81.0 254.7	113.4 41.2 81.4 81.4 81.4 81.4 81.4 81.4 81.4 81.4	116 216 20 20 20 20 20 20 20 20 20 20 20 20 20	101 20 20 20 20 20 20 20 20 20 20 20 20 20	127.1 44.1 22.9 27.3 291.3	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	137.2 27.7 224.1 311.5	001550 000100 000100 0000 0000 0000 000	0.44 0.44 0.44 0.44 0.44 0.44 0.44 0.44	04-00 8 N 0 10 9 N N N N
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TFN YEAR FORECAST PI The Principal Assumptions for this (974 1971) Labor Force, Employment Tabor	R FORECAST PR DNS FOR THIS 1974 1975 • Employment abl		RED 64 ARE • 1976 UNEMPL 0 • 1 • -	CHASE E 5BILLION 1977 0YMENT.	CONOME - BAS 1978 Hours Ent An	RICS. D 07 M 1979 ND WAGI UNEMPI	NC. DN 7 - C5 1980 5. AND 07 MENT	JUN 21 6 LAGGE 1981 LABOR	5 1975 D 2 Yrs 1982 Costs A	1983 ND PROD	1984 UCTIVITY	ANNUAL GROWTH 75-80	12ED COH Rates.1 80+84	HPOUND VEARGE 75584	
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NEW CARS USED CARS Mobile Homes Tires and Parts Automobiles and Parts	117.5 122.6 123.9 119.2	129.6 139.6 140.9 131.9	141 155.0 1455.0 1455.0 1455.0		159.1 166.2 157.9 158.1	166.9 175.1 164.1 160.0 165.1	173.4 181.8 170.8 171.1	178.7 188.0 177.1 169.9 176.8	181.00 194.0 195.0 191.0 191.0 191.0 191.0	196 199 199 191 181 181 185 185 185 185 185 185 185 18	190.5 199.0 199.0 190.8	0.0000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.000000	030NN M080N NMMMN	22000 22000 22002
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FOOD Apparel commodities Gas and Oil Other Nondurables Total Nondurables	161.7 136.1 158.9 151.0	142.4 142.9 157.9 157.9	192.0 150.3 167.1 170.4 175.7	208.1 159.8 173.0 182.3 188.5	228 1669 1960 206 206 206 206 206 206 206 206 206 2	248.6 177.5 186.5 210.8 218.5	266.7 184.5 191.5 223.6 231.2	201.0 191.5 191.5 242.6 242.6	800 100 100 100 100 100 100 100 100 100	311.9 205.5 211.9 259.7 265.8	212 2 212 2 272 2 272 1 278 1 278 1	999 99 99 99 99 99 99 99 99 99 99 99 99	0.0 M M O A	
RENT Utilities Transportation Services Other Services Total Services	140°0 141°9 155°3 1585°3	137.6 151.7 150.7 212.9	145.0 163.1 159.2 238.6 180.5	153.4 176.3 168.1 275.3 197.9	161.8 191.4 177.6 309.5 214.8	169.7 206.3 187.0 337.5 230.2	177.3 220.2 195.8 357.4 243.9	184.5 232.6 205.2 275.8 257.9	191.5 2443.1 2163.1 216.4 2173.4	193.8 253.1 229.5 299.5 290.5	2006.7 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5 264.5	5.27 5.37 5.37 10.92	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 7 6 6 6 6	1900- 1900-
CONSUMER PRICE INDEX	147.7	161.0	173.8 Table 1	188.4 1.2	204.8 Other P	219.2 Rice va	231.5 Riables	243.2	255.5	268.9	283.7	7.52	5.21	6 . 48
GOVT TRANSFERS.MEDICAL INSURAN Wage and Price Control VBL. Prices Peceived by Farmers	11.6 1.3 185.9	13.7 0 179.3	15.7 0 192.2	21.15	25.7 0 221.5	30°3 236°3 236°3	32.2 .0 249.9	33.8 256.8	35.5 .0 262.5	37.3 271.1	38.8 .0 279.8	18.56 .00* 6.87	4.75 .00* 2.87	12.20 .00* 5.07
WPI.FOOD WPI.REFINED PETROLEUM PRODUCTS WPI.METALS AND METAL PRODUCTS WPI.MACHINERY + TRANSPOR. FOUI WPI.OTHER WPI.INDUSTRIAL COMMODITIES WPI.ALL COMMODITIES	177.4 273.9 171.9 136.8 154.8 154.8 1554.8 1554.8	1997 1997 1977 1977 1979 1979 1970 1970	2007 1007 1007 1007 1007 1007 1007 1007	221.6 269.2 216.9 179.9 199.1 205.5	245.0 245.0 245.0 195.0 195.0 2210.1	266 266 266 266 266 266 266 266 266 266	55000050 000500 0005000 0005000 0005000 0005000	0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.0440 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400 0.04400000000	40000000000000000000000000000000000000	1000000 100000 1000000 1000000 10000000 1000000	4444 4444 4444 4444 4444 4444 4444 4444 4444	80.9996 80.03030 80.03030 80.09040	4000200 0000200 0000200	80 40 40 40 80 50 60 40 80 50 60 60
			TABLE 1	1.3	VARIOUS	CAPITA	L STOCK	ø						
NEW CAR REGISTRATIONS Producers durable equipment total private nonres structure manufacturing sector other private sector (obe-sec)	138.7 1119.8 825.6 477.5 912.8	132.6 142.7 8444.6 490.5 931.7	130.8 163.1 163.1 163.1 1949.8 949.6	135.3 1211.2 882.0 510.6 978.6	137.4 1252.6 905.3 529.1 529.1	136.7 1270.7 927.3 534.8 1024.8	140.4 1301.0 951.7 541.0 1049.8	147.6 1364.0 980.7 563.0 1087.8	154.7 1445.6 1014.6 598.0 1134.2	161.2 1534.9 1054.7 639.4	167.0 1627.1 1099.0 683.7 1240.6	2000 2000 2000 2000 2000 2000 2000 200	2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0014M 90018 N3NMM
RESIDENTIAL CONSTRUCTION Inventories, constant prices	1425.4	1456.6	1500.8	1548.2 519.5	1-6121	1618.7 514.8	511.9	1776.1 543.7	589.2	1920.0 633.5	1981.5 674.2 674.2	3.04 88 Rate Not	4.03 7.13 Calcula	3.47 3.61 7ED

					<u>G-28</u>						
MPOUND Years- 75-84	10.18	9.54 9.45 9.45 9.09 10.10	22222222222222222222222222222222222222	••32 9•60 9•77	9,94 8,94 10,04 10,54	V • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6 • 6 •	4400 4400 4400 400 400 400 400 400 400	5.87 7.48 7.48	00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.61	4 1 0 0 4 4 1 0 0 0 4
12ED CO RATES. 80-84	10-02	100 100 100 100 100 100 100 100 100 100	111111 11111 11111 11111 11111 11111 1111	20.42 8.33 8.23	10.14 9.25 8.32 10.89 10.69	4 N N N N 9 4 N N N 9 4 N N N 9 4 N N N 9 4 N N 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5.94 6.22 9.07 11.44	4.00	3.39 1.05 1.60	905 905 90 90 90 90 90 90 90 90 90 90 90 90 90	-10.15 -3.28 -00*
ANNUAL GROW71	10.33	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	101111 101111 101111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 1011 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 10111 101111 101111 101111 101111 101111 10111 10111 10	-14.30 10.65 11.04	100 100 100 100 100 100 100 100 100 100	N96799 1997 1997 1997 1997	3 M 6 4 9 6 6 4 9 6 7 8 6 9 6 7 8 6 9 6 7 8 9 6 7 8 9 6 7 9 7 9 6 7 9	5.78 7.54 7.54	1.54	1.24	1.01 1.01 4.41E NOT
1984	3516+6	2138. 3 109. 0 170. 9 898. 9 959. 5		337.4 334.0 334.0	81 281 285 206 200 200 200 200 200 200 200 200 200	1092.8 321.7 285.9 307.7 291.4	169.5 169.1 2418.2 278.2 163.4	492.1 1237.1 1403.8	7.36 8.43 7.79	81.67 12.94 1.92	6 • 0 9 • 1 6 28 • 4 6 28 • 4
1983	3219.6	1964.5 104.5 157.3 829.8 873.4	2000 2000 2000 2000 2000 2000 2000 200	2.0 311.6 309.5	740°7 261°4 163°3 163°1 479°5	1061.4 303.5 270.5 289.5 271.8	163.0 162.6 2229.1 251.55 149.1	468.5 1165.0 1322.9	4 - 4 5 - 5 7 - 7 7 - 7	82.04 12.76 1.99	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
5 1975 D 2 Yrs 1982 Lahs	2938.1	1798.0 98.2 144.2 763.4 792.2	44 44 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	289.8 289.8 287.1	670.5 239.5 157.6 157.6 431.2 431.2	1022.6 287.3 256.6 275.2 257.5	155.5 155.0 2045.0 228.3 136.6	443.4 1090.1 1239.3	6.08 7.02 7.42	81.92 12.46 2.04	7.1 9.7 46.5
JUN 2 6 LAGGE 1981 ENT DOL	2672.7	1641.6 92.55 132.0 700.8 715.2	4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 -	268.1 267.5	608.5 219.0 139.1 79.9 389.5 5470RS	979 1 272 9 263 9 264 5 265 0	146.6 145.7 145.7 1872.6 211.0 127.5	417.3 1012.2 1152.5	5.80 6.73 7.62	81.14 12.12 2.14	4.9 10.0 54.5
INC. ON AY CS 1980 IN CURR	2400+5	1491.2 84.5 117.9 641.5 647.3	₩₩₩ ₩₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩₩ ₩	1.6 245.1 243.4	552.6 200.5 128.5 72.0 352.0 352.0	923.4 231.8 231.8 231.9 233.9	134•6 132•8 1708•5 180•5	389.8 929.5 1061.1	6.44 7.47 8.31	78.60	9 - 2 10 - 4 172 - 1
TRICS. Ed on M 1979 Roduct	2145.5	1361.1 72.9 105.9 590.2 592.1	N 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	224.4	502.7 184.1 119.1 65.0 318.6 ECONOM	866 25 25 25 26 26 26 26 26 26 26 26 26 26 26 26 26	124.9 122.5 1552.0 1552.0 141.1 87.8	365.8 853.3 976.0	8.04 9.32 9.56	75.98 9.73 1.73	6 6 6 7 6 7 6 7 6 7 6 7 6 7 7 7 7 7 7 7
ECONOME N = BAS 1978 Ional P	1989.0	1266.8 69.7 101.1 549.6 546.5	200 200 200 200 200 200 200 200 200 200	205.9	458.5 169.9 110.9 19.9 288.5 288.5 288.5	221.3 221.5 221.6 221.6 210.5	127.3 125.4 1432.7 141.7 188.0	349.0 794.5 908.5	9.62 11.06 11.21	77.64 9.70 1.14	8 6 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
CHASE 191LLIO 1977 0SS NAT	1859.9	1171.0 72.3 96.6 505.6 296.5	2000 2000 2000 2000 2000 2000 2000 200	-3.0 186.6 189.5	417.6 157.1 153.4 253.4 250.5	869.6 213.9 288.4 205.1 196.6	131.0 129.7 1327.2 164.0 101.1	338.0 755.0 860.2	9.31 10.82 11.71	81.34 10.74 1.37	12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14
ARED HY N ARE . 1976 1 GR	1660.8	1045.7 62.6 86.9 452.9 443.3	2338.9 1238.9 160.7 162.4 162.4 7,7 7,7 7,7 7,7 7,7 7,7 7,7 7,7 7,7 7,	-3.6 168.1 171.6	379.6 143.6 95.5 48.1 236.1 236.1	833.9 199.1 173.9 181.6 181.6	121.5 120.2 141.0 141.0	320.2 707.8 804.1	7.80 8.86 11.07	80.04 9.66 1.60	8.1 10.2 178.2
AST PREP. THIS RUI 1975 TABLE 1.	1468.5	940 440 440 440 440 440 440 440 440 440	111 111 111 111 111 111 111 111 111 11	147.5 147.7	345.1 131.8 87.9 43.9 213.9 213.9 7AB	788.4 186.2 161.1 170.2 170.9	110.5 1073.8 110.0	294.4 646.2 736.0	6.16 6.73 9.96	76.89 7.91 1.24	0 0 in 0 in
FORECAST NS FOR TH 1974 1	1397.4	876.7 49.7 380.2 369.0	111 111 111 111 111 111 111 111 111 11	2.1 140.2 138.1	100.5 110.9 110.9 198.2 192.3	821.2 170.2 147.7 160.1 153.8	124 174 979 1409 1409 1409 1609 1609	278.9 596.8 677.2	7.87 9.83 9.45	86.14 9.00 1.34	100 100 100 100 100
TEN YEAR FORECAST PRE The Principal Assumptions for This R 1974 1975 Table 1	GROSS NATIONAL PRODUCT	CONSUMPTION EXPENDITURES AUTOMPBILES AND PARTS Other Durable Goods Nondurable Goods Services	GROSS PRIVATE INVESTMENT FIXED INVESTMENT NONRESIDENTIAL STRUCTURES EQUIPMENT Residential Structures Nonfarm Change in Inventories Nonfarm	NET EXPORTS OF GOODS AND SERV Exports Imports	GOVERNMENT PURCHASES Federal National defense Other State and local	GNP IN 1958 DOLLARS Implicit GNP DEFLATOR CONSUMER PRICE INDEX WHSL PRICE INDEX+ TOTAL WHSL PRICE INDEX+ TOTAL	INDEX OF INDUS PROD. TOTAL Index of Indus Prod. Heg. Disposable Personal Income Corp Profits before tax Corp Profits After tax	MONEY SUPPLY+ND TIME DEP (M1) Money Supply +td =CD (M2) Money Supply With time dep	TREASURY BILL RATE, 91—DAY Commercial Paper Rate, 4—6 Mo Aa Corporate Rate, New Issues	INDEX OF CAPACITY UTILIZATION New Passenger Car Sales, Saar Total Private Housing Starts	UNEMPLOYMENT RATE Personal Savings Rate Federal Govt Surplus or def

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR

THE PRINCIPAL ASSUMPTI	R FORECA	IN PREP THIS RU	ARED BY	CHASE 181LLIO	ECONOME N = BAS	TRICS. ED ON M	INC. ON AV - CS	JUN Z	5 1975 D 2 YRS			
VARIABLE NAME	1974 TABLE 1.	1975 1A 6	1976 ROSS NA	1977 TIONAL	1978 PRODUCT	1979 IN CUR	1980 Rent Doi	1981 Llars (1982 PERCENT	1983 Change	1984 ANNUAL	RATES)
GROSS NATIONAL PRODUCT	5°4	5.1	13.1	12.0	6.9	7.9	11.9	11.3	6°6	9.6	9•2	
CONSUMPTION EXPENDITURES			, .	- N.	٠			٠				
AUTOMORILES AND PARTS Dimerie Durarie goods	m,r			ю́ -	.÷ (. • .		. • •		
	12.5		10.3		60	4.1	8	2.6		8	- M (
SERVICES			•	n.				•	•	•	. 🖝 👘	
GROSS PRIVATE INVESTMENT			m	31	•		1					
FIXED INVESTMENT Nonvestdential	÷.,	`8	ະ.	ž ř		•		- -		• •	5 1	
STRUCTURES		3			• •	• •	يەر. م مېرى	• •	• •			
EGUIPMENT Desidential Structures	8.1 10.1	6 ° °	17.9	18.1	сі 4 м с і	2 • F	16.6	18.5	13.0	11.5		
		8	80							• •	• •	
EXPORTS Imports	39 • 6 43 • 5	5.5 2.5	13.8	11.0	10.3	9.0	6 6 6 6	20 20	8.1 7.3	7.5	8.4 7.9	
GOVERNMENT PURCHASES									٠		. ie	
FEDERAL	7°6	12.7	0.0	4 . 7 .	01 (00 1	м. Ю I	0- 1 80 1	6 i	2 r 6 d	С	м, 6-х	
NATIONAL DEFENSE Ature	n a	÷ 4		e -	- 0	::	: 2			e e	• •	
STATE AND LOCAL											•.÷	
		TABLE 1	45.	OTHER M	AJOR EC	ONDHIC	INDICAT	ORS (PE	RCENT C	HANGE -	NNUAL RI	ATES)
GNP IN 1958 DOLLARS				•								
IMPLICIT GNP DEFLATOR	8.	•	۰.	• .	۰.	.• .	•		•	. بە	٠	
CUNSUMEN FALCE INDEX TOTAL		10.2	5			 	- 1 - 0		1 5 • •	- N	- M - 9	
WHSL PRICE INDEX (INDUS COMM)	N		•	٠								
INDEX OF INDUS PROD. TOTAL	. ÷	•				_		٠		٠	۲	
INDEX OF INDUS PROD-MFG.	•	12.	ċ.	-	,e Mic	~				•	. 🖷 🗄	
DISPOSABLE PERSONAL INCOME Corp Profits before tax	8°4	-21.9	58-3 58-3	16.9	9.0 9.1 1 9.0	1 1 1 1 1	27.9	4°6 16°9	N A.	10.2	10.5	
CORP PROFITS AFTER TAX				m	N		ភ្លំ	ŝ		•		
SUPPL		٠						•				
MONEY SUPPLY +TD -CD (M2) Money Supply with time dep	11.2	0 10 0 10	00 00 00	5•1 6•1	0 0 0 0	N 0 60	6 • 6	0 M 9 0 9 0 9 0	1.2	 		
		TABL	E 1.28	0THÈ	R MÅJOR	ECONOM	IC INDI	CATORS	CACTUAL	CHANGE)	_	
TREASURY BILL RATE. 91-DAY	60	1.	୍କ •	ŝ	1	1.5	1.6	÷.	N.	3	Ċ.	
COMMERCIAL PAPER RATE: 4=6 MO AA Corporate Rate, new Issues	1.52	•3.05 •55	2.07	1.97		-1.74 -1.64	-1.84	75	67.	0 0 0 0	1.01	
INDEX OF CAPACITY UTILIZATION	•	~	-	5	1.	÷0	بو د	- in	~		11	
NEW PASSENGER CAR SALES. SAAR Total Private Housing Starts	-2.54	01-1-04	1.75	1.08	-1.04	5 0 M	1.51	68° • 06°	4 M M M M M M M M M M M M M M M M M M M	• 50° •	• 18	
UNEMPLOYMENT RATE				•			7				•	
PERSONAL SAVINGS RATE Federal Govt Surplus or def	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-77.4	7.3	= 8 23 • 2	N M 8 0 8	•17.8	• • •	17.7	10 10 10	N \$. 1	10.5	

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HPOUND YEARS- 75+84	3.69	9009 9009 9109 9109 9109 9109 9109 9109	NERFREDIOOO	74 74 74	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	6.26		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.80	7 . 28 6 . 98 6 . 98	6.25 ATED
IZED CO RATES. 80-84	4.30	р. 1976 1976 1976 1976		8 • 5 8 8 • 1 8 8 • 1 8 8 • 1 8 8	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5.48	0 10 - M	0.0 - 0 0.0 0.0 - 0.0 0.0 0.0 - 0.0 0.0	5.05	4°54 4014	6.13 CALCUL
ANNUAL GROWTH 75180	3.21	2.54 2.41 2.64 2.64 2.64 2.64 2.64 2.64 2.64 2.64	*********	8.07 3.15 1.15	N 100	6.89		00000000000000000000000000000000000000	6.42 7.64	7.33 7.94 6.97	6.36 Rate Not
1984	1092.8	707.9 134.7 283.1 290.0		19.5 92.3 72.8	10 10 10 10 10 10 10 10 10 10 10 10 10 1	321.7	NA AO O A M	M M M M M M M M M M M M M M M M M M M	365.6 459.1	434°1 4444°6 428°7	460.6 GROWTH
1983 ARS	1061.4	684.6 130.2 274.8 279.6		19.1 90.0 70.9	183.7 863.7 863.7 180.1 180.1	303.3	40 N N	90000000000000000000000000000000000000	346.1	403.2 411.2 398.9	437.1
5 1975 D 2 Yrs 1982 NT DOLL	1022.6	657.7 124.9 265.5 267.3		18.3 88.0 69.7	178.4		9 4 4 9 4 9 6	51000000000000000000000000000000000000	329.3	375.7 381.6 372.4	411
JUN Z 6 LAGGE 1981 CONSTA	1.079	629.4 119.6 255.9 253.9	~~~ 007~N0NM 007~N0N4 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~00%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N04 0~0%N00	16.3 85.2 68.9	173.4	272.9	8 Z Z Z	00000000000000000000000000000000000000	314.7 388.3	355.2 355.2 348.5	386.2
1NC+ 0N AY - C5 1980 DUCT IN	923.4	599.2 111.9 246.6 240.6		15•2 81•6 66•4	668.0 668.0 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0		1000	201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201100 201000 201000 201000 201000 201000 20100000000	300.2 366.3	328.4 331.1 326.9	363.1
TRICS. ED ON M 1979 NAL PRO	868.8	575.3 103.3 240.4 231.7		14.6 78.6 64.0	10 10 10 10 10 10 10 10 10 10 10 10 10 1	246.9	56 M 6	00000000000000000000000000000000000000	285.5	307.8 308.7 307.2	341.2
ECONOME N - 5AS 1978 S NATIO	860.0	571.3 103.8 239.8 227.7		13.1 75.7 62.6	159.7	171.14 231.3	600 60 60 60 60	M1000000000000000000000000000000000000	271.7 329.0	287.0 286.0 287.7	321.1
CHASE 181LLTO 1977 +- GROS	869.6	570.7 109.0 238.2 223.4	11 8187180 7187180 7187180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 719180 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 71000 710000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 70000 700000 700000 7000000	12.6 73.3 60.7	NOGON INGMANO	213.9	N 1 1 1 1 1	1000 000 000 000 000 000 000 000 000 00	254.4	265.0 261.4 267.3	302.3
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TEN YEAR FORECA: The principal assumptions for Variable name	PERSONAL INCOME	WAGE AND SALARY DISBURSEMENTS Manuearthotac	CONSTRUCTION	DTHER NONFARM PRIVATE	F ARM	OTHER LABOR INCOME	PROPRIETORS INCOME	BUSINESS AND PROFESSIONAL Farm		RENTAL INCOME OF PERSONS	PERSONAL INTEREST INCOME	TRANSFER PAYMENTS	OLD-AGE AND HEALTH BENEFITS	UNEMPLOYMENT INSURANCE	VETERANG BENEFIIS Other	PERSONAL SOCIAL INSURANCE TAX Dedsonal tay davments	Descent of stable	DISPOSABLE PERSONAL INCOME	PERSONAL OUTLAYS	CONSUMERTION EXTENDIOUS Interest Paid BY CONSUMERS Transfers to Forfigners	PERSONAL SAVING	DISPOSABLE INCOME 1958S	PERSONAL SAVINGS RATE		TO WAGES. MFG. Construction		SUPPLEMENTS. GOVERNMENT

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TEN YEAR FORECA The Principal Assumptions for Variable Name	FEDERAL GOVERNMENT RECEIPTS	PERSONAL INCOME TAXES Corporate Profits taxes Indirect Business taxes Contributions for social insur	FEDERAL GOVERNMENT EXPENDITURE	PURCHASES OF GOODS AND SERVICE NATIONAL DEFENSE OTHER TRANSFER PAYMENTS OLD-AGE AND HEALTH BENEFITS UETERANS BENEFITS UNERPOWENTI INSURANCE OTHER DOMESTIC TO FOREIGNERS (NET)	GRANTS-IN-AID Net Interest Paid Subsidies Less current SurpLus	SURPLUS OR DEFICIT (-)	STATE AND LOCAL GOVT RECEIPTS	ERSONAL INCOME TAXES ERSONAL INCOME TAXES ORPOPATE PROFITS TAXES NDIRECT BUSINESS TAXES ONTRIBUTIONS FOR SOCIAL INS EDERAL GRANTS-IN-AID	STATE AND LOCAL EXPENDITURES	PURCHASES OF GOODS AND SERVICE Transfer Pavments Net interest Paid Current Sumplus of Govt Enterp	SURPLUS OR DEFICIT (=)	BASE PERSONAL INCOME TAX RATE BASE CORPORATE INCOME TAX RATE CHANGE IN SOCIAL SEC TAX RATE CHANGE IN SOCIAL SEC TAX RATE CHANGE IN SOCIAL INSURANCE BASE PERSONAL SOCIAL INSURANCE TAX EMPLOYER SOCIAL INSURANCE TAX CIVILIAN GOVERNMENT EMPLOYMENT NUMBER OF MEN IN ARMED FORCES PROGRESS PAYMENTS, DOD INVESTMENT IN GOVT STRUCTURES

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5 1975 D 2 YRS 1982	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	443.4 1090.1 1239.3 809.3	5.10	6.08 7.02 8.24	00 00 00 00 00 00 00 00 00 00 00 00 00		100 100 100 100 100 100 100 100 100 100		1.53 116.28 212.3 250.8	4.00 379.7 89.39	8.47 36.0 128.97
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129.7 129.6 120.9 137.1	11555 1555 1555 1555 1555 1555 155 155	176.0 160.4 158.4 158.4	137.6 151.7 150.7 212.9	161.1	13.7	199 199 197 197 197 199 199 199 199 199		132.5 1142.6 844.6 490.4 931.6	1456.6 489.9
117.5 122.6 123.6 123.9	1000 1380 1380 1280 1280 1280 1280 1280 1280 1280 12	161.7 158.9 158.9 151.0	130.5 135.0 151.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9 155.9	147.7	11.6 1.3 185.9	273 273 273 273 273 273 273 273 273 273		138.7 1119.8 8255.6 477.5 912.8	1425.4 500.0
NEW CARS USED CARS Mobile Homes Tires and Parts Automobiles and Parts	APPLIANCES FURNITURE AND BEDDING OTHER DURABLE COMMODITIES Housemold Durables Consumer Durables Implicit defl. Fop Durables	FDOD APPAREL COMMODITIES Gas and Oil Other Nondurables Total Nondurables	RENT UTILITIES Transportation Services Other Services Total Services	CONSUMER PRICE INDEX	GOVT TRANSFERS,MEDICAL INSURAN Wage and Price control vel. Prices received by Farmers	WPI.FOOD WPI.REFINED PETROLEUM PRODUCTS WPI.METALS AND METAL PRODUCTS WPI.MACHINERY + TRANSPOR. FOUI WPI.OTHER WPI.INDUSTRIAL COMMODITIES WPI.ALL COMMODITIES		NEW CAR REGISTRATIONS Producers durable equipment total private nonres structure manufacturing sector other private sector (Obe-Sec)	RESIDENTIAL CONSTRUCTION Inventories, constant pricfs
	117.5 129.7 141.8 150.7 159.3 167.4 174.3 180.3 185.2 189.8 194.6 6.09 2.79 4.6 122.6 139.6 155.0 159.4 166.2 175.1 181.8 188.0 194.5 199.9 205.0 5.42 3.04 4.3 128.5 140.9 149.0 155.5 157.9 164.1 170.8 177.1 184.0 191.1 199.0 3.93 3.89 3.9 123.9 137.1 145.0 152.4 155.9 160.0 163.2 169.9 175.6 181.8 187.8 3.54 3.57 3.5 119.2 132.0 143.2 151.3 158.3 165.4 171.7 177.8 183.1 188.3 193.5 5.40 3.04 4.3	117.5 129.7 141.8 150.7 157.4 174.3 180.5 185.2 189.6 194.6 6.09 2.79 4.5 122.6 139.6 155.0 159.4 166.2 175.1 181.6 184.0 194.5 199.0 5.42 5.04 4.5 122.6 137.1 145.0 155.7 164.1 170.6 177.1 184.0 191.1 199.0 5.42 5.04 4.5 123.9 137.1 145.0 155.4 155.4 157.1 169.9 175.6 181.6 175.6 5.42 5.42 5.42 5.45 5.45 5.45 5.42 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.40 4.55 5.45 5.40 4.55 5.45 5.45 5.40 4.55 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5.45 5	117.5 129.7 141.8 150.7 159.3 167.4 174.3 180.3 185.2 189.6 994.6 6.09 2.79 4.45 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