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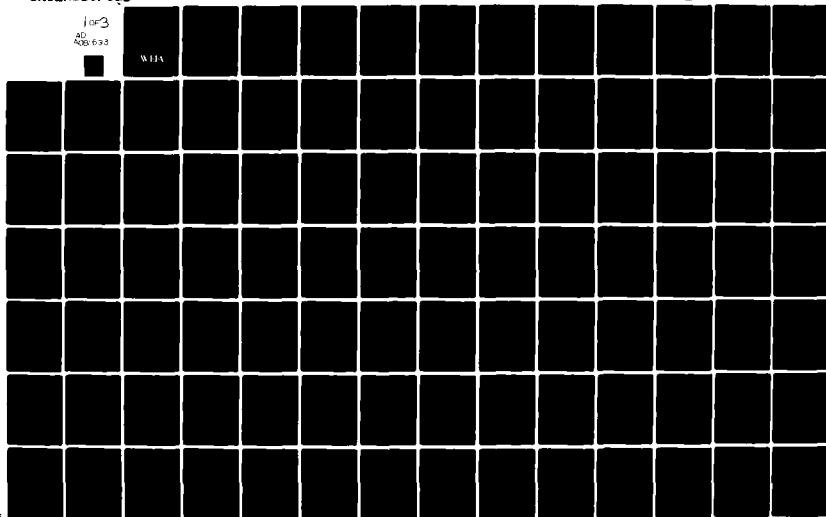
WHARTON ECONOMETRIC FORECASTING ASSOCIATES PHILADELPH--ETC F/6 5/9
FINAL REPORT FOR OFFICE OF NAVAL RESEARCH CONTRACT N00014-76-C--ETC(U)
JUL 79 M L WACHTER, C KIM N00014-76-C-0782

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FINAL REPORT

FOR

OFFICE OF NAVAL RESEARCH

CONTRACT N00014-76-C-0732

JULY 1979

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FINAL REPORT

FOR

OFFICE OF NAVAL RESEARCH

CONTRACT N00014-76-C-0782 - Volume II

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Volume II

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by
Michael L. Wachter
Choongsoo Kim

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APPENDIX I

WHARTON ANNUAL LABOR FORCE MODEL EQUATIONS

1. Civilian Noninstitutional Population

1.

$$NPCN\& = (NPT\& * (1.0 - R\& / 100.)) - (W\& * NLM)$$

Where

R& = Percentage of a group's total population institutionalized,

W& = Ratio of Armed Forces of that group to the total Armed Forces,
and

& = M16.17, M18.19, M20.24, M25.29, M30.34, M35.39, M40.44,
M45.49, M50.54, M55.59, M60.64, M65.69, M70+, F16.17,
F18.19, F20.24, F25.29, F30.34, F35.39, F40.44, F45.49,
F50.54, F55.64, F65.70, F70+

2. Armed Forces, Male, Ages 16 to 17

$$NLMM16.19 = NPTM16.17 * WM16.17 + NPTM18.19 * WM18.19$$

3. Civilian Noninstitutional Population:

Male, Ages 16 to 19,

$$NPCNM16.19 = NPCNM16.17 + NPCNM18.19;$$

Male, ages 25 to 34,

$$NPCNM25.34 = NPCNM25.29 + NPCNM30.34;$$

Male, ages 35 to 44,

$$NPCNM35.44 = NPCNM35.39 + NPCNM40.44;$$

Male, ages 45 to 54,

$$NPCNM45.54 = NPCNM45.49 + NPCNM50.54;$$

Male, ages 55 to 64,

$$NPCNM55.64 = NPCNM55.59 + NPCNM60.64$$

Male, ages 65 and over,

$$NPCNM65+ = NPCNM65.64 + NPCNM70+;$$

Female, Ages 16 to 19,

$$\text{NPCNF16.19} = \text{NPCNF16.17} + \text{NPCNF18.19};$$

Female, Ages 25 to 34,

$$\text{NPCNF25.34} = \text{NPCNF25.29} + \text{NPCNF30.34};$$

Female, ages 35 to 44,

$$\text{NPCNF35.44} = \text{NPCNF35.39} + \text{NPCNF40.44};$$

Female, Ages 45 to 54,

$$\text{NPCNF45.54} = \text{NPCNF45.49} + \text{NPCNF50.54};$$

Female, ages 55 to 64,

$$\text{NPCNF55.64} = \text{NPCNF55.59} + \text{NPCNF60.64};$$

Female, ages 65 and over,

$$\text{NPCNF65+} = \text{NPCNF65.69} + \text{NPCNF70+}.$$

4. Civilian Noninstitutional Population, Total, Male, Ages 16 and over

$$\begin{aligned} \text{NPCNM16+} &= \text{NPCNM16.19} + \text{NPCNM20.24} + \text{NPCNM25.34} + \\ &\quad \text{NPCNM35.44} + \text{NPCNM45.54} + \text{NPCNM55.64} + \\ &\quad \text{NPCNM65+}; \end{aligned}$$

5. Civilian Noninstitutional Population, Total, Female, Ages 16 and over,

$$\begin{aligned} \text{NPCNF16+} &= \text{NPCNF16.19} + \text{NPCNF20.24} + \text{NPCNF25.34} + \\ &\quad \text{NPCNF35.44} + \text{NPCNF45.54} + \text{NPCNF55.64} + \\ &\quad \text{NPCNF65+}. \end{aligned}$$

6. Civilian Noninstitutional Population, Total, Ages 16 and Over

$$\text{NPCN16+} = \text{NPCNM16+} + \text{NPCNF16+}$$

7. Civilian Resident Population, Total (Age 16 and over) (Millions) = NPC16+

$$\text{NPC16+} = \text{NPT16+} - \text{NLM}$$

8. Civilian Resident Population, Male, Ages 16 and over (Millions)

$$\text{NPCM16+} = \text{NPTM16+} - \text{WM16+} * \text{NLM}$$

where WM16+ = Ratio of Males in the Armed Forces to Total Armed Forces

9. Civilian Resident Population, Female, Age 16 and Over (Millions)

$$\text{NPCF16+} = \text{NPTF16+} - \text{WF16+} * \text{NLM}$$

where WF16+ = Ratio of Males in the Armed Forces to Total Armed Forces

10. Civilian Resident Population, Total, Ages 16 and Over (Millions)

$$\text{NPC16+} = \text{NPCM16+} + \text{NPCF16+}$$

11. School Enrollment Male, Ages 16 to 17 (Millions)

$$\frac{\text{NPSM16.17}}{\text{NPCNM16.17}} = \frac{0.6623}{(3.2581)} + \frac{0.4382}{(3.7706)} * \text{MWR}$$

$$- \frac{0.5984}{(-3.3820)} * (\text{NLMM16.19} / \text{NPCNM16.19})$$

$$+ \frac{0.1218}{(0.6189)} * Y$$

$$\bar{R}^2 = 0.665$$

$$\text{SEE} = .0217$$

$$\text{DW} = 1.364$$

Mean of DV = 0.8858

Sample Period: 1955 to 1976

Equation is solved for NPSM16.17 for forecasting

$$\begin{aligned} Y = & (\text{YPD}/\text{NCF}) / (0.438 * (\text{YPD}(-1) / \text{NCF}(-1))) \\ & + 0.219 * (\text{YPD}(-2) / \text{NCF}(-2)) + 0.146 * \\ & (\text{YPD}(-3) / \text{NCF}(-3)) + 0.110 * (\text{YPD}(-4) / \\ & \text{NCF}(-4)) + 0.087 * (\text{YPD}(-5) / \text{NCF}(-5)) \end{aligned}$$

12. School Enrollment, Male, Ages 18 to 19 (Millions)

$$\frac{NPSM18.19}{NPCNM18.19} = \begin{matrix} -.7951 & + & .5812 & * & MWR \\ (-1.4645) & & (2.0879) \end{matrix}$$

$$+ \begin{matrix} .1135 & * & NPSRM16.17W(-1) & + & .9054 & * & Y \\ (.2682) & & & & (2.2801) \end{matrix}$$

$$+ \begin{matrix} .5183 & * & (NLMINDTT / 1000. & * & (NPCNM16.19 \\ (.3801) \end{matrix}$$

$$+ \begin{matrix} NPCNM20.24)) & + & 0.0070 & * & NRUTM16.19 \\ & & (.7641) \end{matrix}$$

$$- \begin{matrix} 0.1138 & * & NRUTM25.54W \\ (-.4809) \end{matrix}$$

$$\bar{R}^2 = 0.547$$

$$SEE = 0.0362$$

$$DW = 1.493$$

Mean of DV = .5122

Sample Period: 1955 to 1976

Equation is solved for NPSM18.19 for forecasting

$$NPSRM16.17W = ((NPSM16.17/3.) + (NPSM16.17(-1) \\ * 2.(3.)) / NPCNM16.17$$

$$Y = (YPD/NCF) / (0.438 * (YPD(-1) / NCF(-1)) + 0.219 * \\ (YPD(-2) / NCF(-2)) + 0.146 * (YPD(-3) / NCF(-3)) + \\ 0.110 * (YPD(-4) / NCF(-4)) + 0.087 * (YPD(-5) / NCF(-5)))$$

13. School Enrollment, Male, Age 24 (Millions)

$$\frac{NPSM20.24}{NPCNM20.24} = \frac{-0.2019}{(-1.5727)} + \frac{.34R}{(4.2)}$$

$$+ \frac{.3046}{(3.6378)} * NPS(-1) + \frac{.1871}{(1.5350)} * Y$$

$$+ .7549 * (NLM1000 * (NPCNM16.19$$

$$(1.9565)$$

$$+ NPCNM20.24)) \frac{.436}{.442} * LOG(ED)$$

$$\bar{R}^2 = .917$$

$$.0121$$

$$DW = 2.280$$

$$\text{Mean of DV} = 0.2544$$

Sample Period: 1955 to 197

Equation is solved for NPSM forecasting.

$$ED = GVPSOED / (NPT00.04 + NPT10.14 + NPCN16.19$$

$$+ NPCN20.24$$

$$NPSRM18.19W = ((NPSM18.19 / 3.118.19(-1) * 2./3.)) / NPCNM18.19$$

$$Y = (YPD/NCF) / (0.438 * (YPCF(-1)) + 0.219 *$$

$$(YPD(-2) / NCF(-2)) + 0.1(-3) / NCF(-3)) +$$

$$0.110 * (YPD(-4) / NCF(-4) * (YPD(-5) / NCF(-5)))$$

14. School Enrollment, Female, Ages 16 to 19 (Millions)

$$\frac{NPSF16.19}{NPCNF16.19} = \begin{matrix} 0.4095 & + & 0.2841 * MWR \\ (4.9158) & & (2.6034) \end{matrix}$$

$$\begin{matrix} - & 0.0007 * NPFR15.19(-1) \\ & (-1.2994) \end{matrix}$$

$$\begin{matrix} + & 0.0150 * NRUTF16.19 & - & 0.0173 * NRUTM25.54 \\ & (4.8232) & & (-3.1811) \end{matrix}$$

$$\bar{R}^2 = 0.909$$

$$SEE = 0.0157$$

$$DW = 1.000$$

Mean of DV = 0.6119

Sample Period: 1955 to 1976

Equation is solved for NPSF16.19 for forecasting.

15. School Enrollment, Female, Ages 20 to 24 (Millions)

$$\begin{aligned}
 \frac{\text{NPSF20.24}}{\text{NPCNF20.24}} = & \frac{0.1532}{(6.3713)} + \frac{0.1574}{(3.2406)} * \text{MWR} \\
 & - \frac{0.0003}{(-2.6480)} * \text{NPFR20.24}(-1) + \frac{0.1070}{(3.6646)} * \text{LOG(ED)} \\
 & + \frac{0.0025}{(2.3540)} * \text{NRUTF20.24}
 \end{aligned}$$

$$\bar{R}^2 = 0.976$$

$$\text{SEE} = 0.0069$$

$$\text{DW} = 2.464$$

Mean of DV = 0.1244

Sample Period: 1955 to 1976

Equation is solved for NPSF20.24 for forecasting.

$$\begin{aligned}
 \text{ED} = & \text{GVPSOED} / (\text{NPT00.04} + \text{NPT05.09} + \text{NPT10.14} + \text{NPCN16.19} \\
 & + \text{NPCN20.24} + \text{NPT15})
 \end{aligned}$$

16. School Enrollment Rates (Fractions)

$$\text{NPSR\&} = ((\text{NPS\&} / 3) + (2 * \text{NPS\&}(-1) / 3)) / \text{NPCN\&}$$

where & = M16.17, M18.19, M20.24, F16.19, F20.24

17. School Enrollment, Male, Ages 16 to 19 (Millions)

$$\text{NPSM16.19} = \text{NPSM16.17} + \text{NPSM18.19}$$

18. School Enrollment Rate, Male, Ages 16 to 19 (Fraction)

$$\begin{aligned} \text{NPSRM16.19} = & (\text{NPSM16.19} / 3) + (2 * \text{NPSM16.19}(-1) / 3) \\ & / \text{NPCNM16.19} \end{aligned}$$

19. Labor Force Participation Rate, Male, Ages 16 to 19 (Fraction)

$$\text{LOG}(\text{NRLTM16.19}) = 0.4346 - 0.0347 * \text{NRUTM25.54W}$$

$$(2.2513)(-3.8103)$$

$$- 1.0152 * \text{NPSRM16.19} - 8.0964 * (\text{NLM} / \text{NPCN16+})$$

$$(-4.9413) \quad (-4.4667)$$

$$\bar{R}^2 = 0.538$$

$$\text{SEE} = 0.0293$$

$$\text{DW} = 0.591$$

Mean of DV = -0.5683

Sample Period: 1954 to 1976

Equation is solved for NRLTM16.19 for forecasting

$$\text{NRUTM25.54W} = .667 * \text{NRUTM25.54} + .333 * \text{NRUTM25.54}(-1)$$

20. Labor Force Participation Rate, Male, Ages 20 to 24 (Fraction)

$$\text{LOG}(\text{NRLTM20.24}) = 0.0734 - 0.0032 * (.667 * \text{NRUTM25.54})$$

(2.0214) (-1.5695)

$$+ .333 * \text{NRUTM25.54}(-1) + 0.0737 *$$

(-2.9648)

$$* \text{LY} - 0.3294 * \text{NPSRM20.24}$$

(-4.3145)

$$- 2.4428 * (\text{NLM} / \text{NPCN16+})$$

(-3.6356)

$$\bar{R}^2 = 0.916$$

$$\text{SEE} = 0.0058$$

$$\text{DW} = 1.596$$

$$\text{Mean of DV} = -0.1547$$

Sample Period: 1954 to 1976

Equation is solved for NRLTM20.24 for forecasting

$$\text{LY} = \text{LOG}((0.8145 * \text{YPDPC} + 0.6634 * \text{YPDPC}(-1) +$$

$$0.5404 * \text{YPDPC}(-2) + 0.4401 * \text{YPDPC}(-3)) / 2.4584)$$

21. Labor Force Participation Rate, Male, Ages 25 to 34 (Fraction)

$$\text{LOG}(\text{NRLTM25.34}) = 0.0742 - 0.0013 * (.667 * \text{NRUTM25.54} + (6.1831)(-2.6969)$$

$$.333 * \text{NRUTM25.54}(-1)) - 0.0022 * \text{RPW} - (-4.2490)$$

$$0.0170 * \text{LY} \\ (-2.3466)$$

$$\bar{R}^2 = 0.931$$

$$\text{SEE} = 0.0021$$

$$\text{DW} = 1.233$$

Mean of DV: -0.0327

Sample Period: 1954 to 1976

Equation is solved for NRLTM25.34 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

$$\text{LY} = \text{LOG}((0.8145 * \text{YPDPC} + 0.6634 * \text{YPCPC}(-1) + 0.5404 * \text{YPDPC}(-2) + 0.4401 * \text{YPDPC}(-3)) / 2.4584)$$

22. Labor Force Participation Rate, Male, Ages 35 to 44 (Fraction)

$$\text{LOG}(\text{NRLTM35.44}) = 0.0421 - 0.0016 * (.667 * \text{NRUTM25.54} +$$

$$(6.2390)(-6.0822)$$

$$.333 * \text{NRUTM25.54}(-1)) - .0005 * \text{RPW}$$

$$(-1.6102)$$

$$- .0425 * \text{LY}$$

$$(-10.4448)$$

$$\bar{R}^2 = 0.979$$

$$\text{SEE} = 0.0012$$

$$\text{DW} = 1.299$$

$$\text{Mean of DV} = -0.0291$$

Sample Period: 1954 to 1976

Equation is solved for NRLTM35.44 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) /$$

$$\text{NPCN16+}$$

$$\text{LY} = \text{LOG} (0.8145 * \text{YPDPC} + 0.6634 * \text{YPDPC}(-1) +$$

$$0.5404 * \text{YPDPC}(-2) + 0.4401 * \text{YPDPC}(-3))$$

$$/2.4584)$$

23. Labor Force Participation Rate, Male, Ages 45 to 54 (Fraction)

$$\text{LOG}(\text{NRLTM45.54}) = 0.1171 - 0.0032 * (.667 * \text{NRUTM25.54} + \\ (9.0358) (-6.0867)$$

$$.333 * \text{NRUTM25.54}(-1)) - 0.0021 * \text{RPW} \\ (-3.7393)$$

$$- 0.0708 * \text{LY} \\ (-9.0749)$$

$$\bar{R}^2 = 0.981$$

$$\text{SEE} = 0.0023$$

$$\text{DW} = 1.827$$

$$\text{Mean of DV} = -0.0527$$

Sample Period: 1954 to 1976

Equation is solved for NRLTM45.54 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \\ \text{NPCN16+}$$

$$\text{LY} = \text{LOG}((0.8145 * \text{YPDPC} + 0.6634 * \text{YPDPC}(-1) + \\ 0.5404 * \text{YPDPC}(-2) + 0.4401 * \text{YPDPC}(-3)) / 2.4584)$$

24. Labor Force Participation Rate, Male, Ages 55 to 64 (Fraction)

$$\text{LOG}(\text{NRLTM55.64}) = 0.3655 - 0.0094 * (667 * \text{NRUTM25.54} +$$

$$(6.1501) (-3.9610)$$

$$.333 * \text{NRUTM25.54}(-1)) - 0.0071 * \text{RPW}$$

$$(-2.8001)$$

$$- 0.2100 * \text{LY}$$

$$(-5.8657)$$

$$\bar{R}^2 = 0.959$$

$$\text{SEE} = 0.0103$$

$$\text{DW} = 0.980$$

$$\text{Mean of DV} = -0.1752$$

Sample Period: 1954 to 1976

Equation solved for NRLTM55.64 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16} +$$

$$\text{LY} = \text{LOG}(0.8145 * \text{YPDPC} + 0.6634 * \text{YPDPC}(-1) + 0.5404$$

$$* \text{YPDPC}(-2) + 0.4401 * \text{YPDPC}(-3)) / 2.4584)$$

25. Labor Force Participation Rate, Male, Ages 65 and Over (Fraction)

$$\text{LOG}(\text{NRUTM65+}) = -0.1060 - 0.0184 * (.667 * \text{NRUTM25.54} + .333 * (-0.6363)(-3.3949)$$

$$\text{NRUTM25.54}(-1) + 0.0186 * \text{RPW} - 0.2812 * \text{LY} \\ (1.0068) \quad (-1.3962)$$

$$+ 0.8657 * \text{LOG}(\text{NRLTM65+}(-1)) \\ (8.5414)$$

$$\bar{R}^2 = 0.990$$

$$\text{SEE} = 0.0203$$

$$\text{DW} = 2.236$$

$$\text{Mean of DV} = -1.2391$$

Sample Period: 1954 to 1976

Equation is solved for NRLTM65+ for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

$$\text{LY} = \text{LOG}(0.8145 * \text{YPDPC} + 0.6634 * \text{YPDPC}(-1) + 0.5404 * \text{YPDPC}(-2) + 0.4401 * \text{YPDPC}(-3)) / 2.4584$$

26. Labor Force Participation Rate, Female, Ages 16 to 19 (Fraction)

$$\text{LOG(NRLTF16.19)} = -3.8285 + 0.9340 \text{ LOG(WW)} \\ (-3.0822) \quad (3.7520)$$

$$- 0.0939 * \text{NPFR}(-1) - 2.3346 * \text{NPSRF16.19} \\ (-3.1143) \quad (-4.8475)$$

$$\bar{R}^2 = 0.923$$

$$\text{SEE} = 0.0251$$

$$\text{DW} = 1.112$$

$$\text{Mean of DV} = -0.8693$$

Sample Period: 1954 to 1976

Equation is solved for NRLTF16.19 for forecasting

$$\text{WW} = .667 * \text{W} + .333 * \text{W}(-1)$$

$$\text{W} = ((\text{WRCPVS} * \text{NEETPV}) - (\text{TSCSTTS} - \text{TXCSTP\$})) / (\text{NEETPV} \\ * \text{PDCE} / 100.)$$

27. Labor Force Participation Rate, Female, Ages 20 to 24 (Fraction)

$$\text{LOG}(\text{NRLTF20.24}) = \begin{matrix} -1.3831 & + & 0.2280 * \text{LOG}(\text{WW}) \\ (-3.5450) & & (3.2383) \end{matrix}$$

$$\begin{matrix} - 0.1342 * \text{NPFR}(-1) \\ (-8.9510) \end{matrix}$$

$$\bar{R}^2 = 0.983$$

$$\text{SEE} = 0.0165$$

$$\text{DW} = 1.057$$

$$\text{Mean of DV} = -0.6539$$

Sample Period: 1954 to 1976

Equation is solved for NRLTF20.24 for forecasting

$$\text{WW} = .667 * \text{W} + .333 * \text{W}(-1)$$

$$\text{W} = ((\text{WRCPV\$} * \text{NEETTPV}) - (\text{TSCSTT\$} - \text{TSCSTP\$})) / (\text{NEETTPV} * \text{PDCE} / 100.)$$

28. Labor Force Participation Rate, Female, Ages 25 to 34 (Fraction)

$$\text{LOG(NRLTF25.34)} = -1.0731 + 0.1536 * \text{LOG(WW)} - 0.1949 * \text{NPFR}(-1)$$

$$(-1.3043) \quad (1.0349) \quad (-6.1629)$$

$$\bar{R}^2 = 0.952$$

$$\text{SEE} = 0.0349$$

$$\text{DW} = 0.578$$

Mean of DV = -0.8912

Sample Period: 1954 to 1976

Equation is solved for NRLTF25.34 for forecasting

$$\text{WW} = .667 * W + .333 * W(-1)$$

$$W = ((\text{WRCPVS} * \text{NEETTPV}) - (\text{TXCSTTS} - \text{TXCSTPS})) / (\text{NEETTPV} * \text{PDCE} / 100.)$$

29. Labor Force Participation Rate, Female, Ages 35 to 44 (Fraction)

$$\text{LOG(NRLTF35.44)} = -4.1483 + 0.747 * \text{LOG(WW)} -$$

$$(-48.2812) \quad (38.6392)$$

$$- 0.0813 * \text{NPFR9}$$

$$(-9.9692)$$

$$\bar{R}^2 = 0.986$$

$$\text{SEE} = 0.0118$$

$$\text{DW} = 1.141$$

$$\text{Mean of DV} = -0.7485$$

Sample Period: 1954 to 1976

Equation is solved for NRLTF35.44 for forecasting

$$\text{NPFR9} = (\text{NPFR}(-9) + \text{NPFR}(-10) + \text{NPFR}(-11)) / 3.0$$

$$\text{WW} = .667 * \text{W} + .333 * \text{W}(-1)$$

$$\text{W} = ((\text{WRCPV\$} * \text{NEETTPV}) - (\text{TXCSTTS} - \text{TXCSTP\$})) / (\text{NEETTPV} * \text{PDCE}$$

$$/ 100.)$$

30. Labor Force Participation Rate, Female, Ages 45 to 54 (Fraction)

$$\text{LOG(NRLTF45.54)} = -4.8360 + 0.9019 * \text{LOG(WW)} - 0.1101 * \text{NPRR19}$$

$$(-4.7850) \quad (3.7972) \quad (-1.8233)$$

$$\bar{R}^2 = 0.849$$

$$\text{SEE} = 0.0298$$

$$\text{DW} = 0.367$$

Mean of DV = -0.6813

Sample Period: 1954 to 1976

Equation is solved for NRLTF45.54 for forecasting

$$\text{NPFR19} = (\text{NPFR}(-19) + \text{NPFR}(-20) + \text{NPFR}(-21)) / 3.0$$

$$\text{WW} = .667 * W + .333 * W(-1)$$

$$W = ((\text{WRCPVS} * \text{NEETPV}) - (\text{TXCSTTS} - \text{TXCSTPS})) / (\text{NEETPV} * \text{PDCE} / 100.)$$

31. Labor Force Participation Rate, Female, Ages 55 to 65 (Fraction)

$$\text{LOG}(\text{NRLTF55.64}) = -3.5759 + 0.6098 * \text{LOG}(\text{WW}) - 0.1629 * \text{NPFR29}$$

$$(-23.2850) \quad (19.8403) \quad (-9.6903)$$

$$\bar{R}^2 = 0.954$$

$$\text{SEE} = 0.0212$$

$$\text{DW} = 1.091$$

Mean of DV = -0.9424

Sample Period: 1954 to 1976

Equation is solved for NRLTF55.64 for forecasting

$$\text{NPFR29} = (\text{NPFR}(-29) + \text{NPFR}(-30) + \text{NPFR}(-31)) / 3.0$$

$$\text{WW} = .667 * \text{W} + .333 * \text{W}(-1)$$

$$\text{W} = ((\text{WRCPVS} * \text{NEETTPV}) - (\text{TXCSTTS} - \text{TXCSTPS})) / (\text{NEETTPV} * \text{PDCE} / 100.)$$

32. Labor Force Participation Rate, Female, Ages 65 and Over (Fraction)

$$\text{LOG(NRLTF65+)} = -1.1499 - 0.0310 * \text{RPW} \\ (-7.7693)(-8.0166)$$

$$\bar{R}^2 = 0.743$$

$$\text{SEE} = 0.0417$$

$$\text{DW} = 1.113$$

$$\text{Mean of DV} = -2.3343$$

Sample Period: 1954 to 1976

Equation is solved for NLTF65+ for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

33. Unemployment Rate, Male, Ages 16 to 19 (Percent)

$$\text{LOG}(\text{NRUTM16.19}) = \begin{matrix} -1.6102 \\ (-1.3387) \end{matrix} + \begin{matrix} 0.3761 \\ (6.7071) \end{matrix} * \text{LOG}(\text{NRUTM25.54}) +$$

$$\begin{matrix} 1.0542 \\ (3.2043) \end{matrix} * \text{LOG}(\text{RPW})$$

$$\bar{R}^2 = 0.703$$

$$\text{SEE} = 0.0937$$

$$\text{DW} = 0.500$$

$$\text{Mean of DV} = 2.6747$$

Sample Period: 1954 to 1976

Equation is solved for NRUTM16.19 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

34. Unemployment Rate, Male, Ages 20 to 24 (Percent)

$$\text{LOG}(\text{NRUTM20.24}) = -3.7337 + 0.8147 * \text{LOG}(\text{NRUTM25.54}) + (-3.6665)(17.590)$$

$$1.3367 * \text{LOG}(\text{RPW}) \\ (4.7989)$$

$$\bar{R}^2 = 0.934$$

$$\text{SEE} = 0.0794$$

$$\text{DW} = 0.978$$

Mean of DV = 2.0982

Sample Period: 1954 to 1976

Equation is solved for NRUTM20.24 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

35. Unemployment Rate, Male, Ages 25 to 34 (Percent)

$$\text{LOG}(\text{NRUTM25.34}) = 1.9444 + \sum_{i=0}^3 a_i * \text{LOG}(\text{NEHT}(-i) / \text{NEHT}(-1-i))$$

(14.7644) <1, 4, FAR>

i	a _i	t-Statistic
0	-16.1178	-5.1241
1	-12.0884	-5.1241
2	-8.0589	-5.1241
3	-4.0295	-5.1241
SUM	-40.2946	

$$\bar{R}^2 = 0.535$$

$$\text{SEE} = 0.2510$$

$$\text{DW} = 0.356$$

Mean of DV = 1.3252

Sample Period: 1954 to 1976

Equation is solved for NRUTM25.34 for forecasting

36. Unemployment Rate, Male, Ages 25 to 34, Alternate Equation (Percent)

$$\begin{aligned} \text{LOG}(\text{NRUTM25.34}) &= 1.9870 + \sum_{i=0}^3 a_i * \text{LOG}(\text{NEHT}(-i) / \text{NEHT}(-1-i)) \\ (15.4864) & \quad <1, 4, \text{FAR}> \\ &+ \sum_{i=0}^3 b_i * \text{LOG}(\text{NLCM25.34}(-i) / \text{NLCM25.34}(-1-i)) \\ & \quad <1, 4, \text{FAR}> \end{aligned}$$

i	a	t-Statistic	b	t-Statistic
0	-18.6226	-5.5762	1.8391	1.7246
1	-13.9670	-5.5762	1.3793	1.7246
2	-9.3113	-5.5762	0.9196	1.7246
3	-4.6557	-5.5762	0.4598	1.7246
SUM	-46.5565		4.5978	

$$\bar{R}^2 = 0.575$$

$$\text{SEE} = 0.2399$$

$$\text{DW} = 0.461$$

Mean of DV = 1.3252

Sample Period: 1954 to 1976

Equation is solved for NRUTM25.34 for forecasting

To use set ALTE NRUTM25.34 1 in solution.

37. Unemployment Rate, Male, Ages 35 to 44 (Percent)

$$\text{LOG}(\text{NRUTM35.44}) = 1.7470 + \sum_{i=0}^3 d_i * \text{LOG}(\text{NEHT}(-i) / \text{NEHT}(-1-i))$$

(17.9168) <1, 4, FAR>

i	d _i	t-Statistic
0	-17.6002	-7.5572
1	-13.2002	-7.5572
2	-8.8001	-7.5572
3	-4.4001	-7.5572
SUM	-44.0005	

$$\bar{R}^2 = 0.718$$

$$\text{SEE} = 0.1858$$

$$\text{DW} = 0.501$$

Mean of DV = 1.0708

Sample Period: 1954 to 1976

Equation is solved for NRUTM35.44 for forecasting

38. Unemployment Rate, Male, Ages 45 to 54 (Percent)

$$\text{LOG}(\text{NRUTM45.54}) = 1.8158 + \sum_{i=0}^3 a_i * \text{LOG}(\text{NEHT}(-i) / \text{NEHT}(-1-i))$$

(19.4369) <1, 4, FAR>

i	a _i	t-Statistic
0	-18.4860	-8.2850
1	-13.8645	-8.2850
2	-9.2430	-8.2850
3	-4.6215	-8.2850
SUM	-46.2151	

$$\bar{R}^2 = 0.755$$

$$\text{SEE} = 0.1780$$

$$\text{DW} = 0.494$$

Mean of DV = 1.1055

Sample Period: 1954 to 1978

Equation is solved for NRUTM45.54 for forecasting

39. Unemployment Rate, Male, Ages 55 to 64 (Percent)

$$\text{LOG}(\text{NRUTM55.64}) = \begin{matrix} 6.8357 & + & 0.8115 & * & \text{LOG}(\text{NRUTM25.54}) \\ (8.3511) & & (21.2645) \end{matrix}$$

$$\begin{matrix} -1.7972 & * & \text{LOG}(\text{RPW}) \\ (-8.0275) \end{matrix}$$

$$\bar{R}^2 = 0.960$$

$$\text{SEE} = 0.0638$$

$$\text{DW} = 1.803$$

Mean of DV = 1.2459

Sample Period: 1954 to 1976

Equation is solved for NRUTM55.64 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

40. Unemployment Rate, Males, Ages 65 and Over (Percent)

$$\text{LOG}(\text{NRUTM65+}) = 2.2688 + 0.6320 * \text{LOG}(\text{NRUTM25.54})$$

(2.3420) (13.9915)

$$- 0.4610 * \text{LOG}(\text{RPW})$$

(-1.7399)

$$\bar{R}^2 = 0.900$$

$$\text{SEE} = 0.0755$$

$$\text{DW} = 1.957$$

Mean of DV = 1.3353

Sample Period: 1954 to 1976

Equation is solved for NRUTM65+ for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

41. Unemployment Rate, Female, Ages 16 to 19 (Percent)

$$\begin{aligned} \text{LOG}(\text{NRUTF16.19}) = & -3.2326 + 0.1447 * \text{LOG}(\text{NRUTM25.54}) \\ & (-1.7506) \quad (1.6810) \\ & + 1.5757 * \text{LOG}(\text{RPW}) \\ & (3.1198) \end{aligned}$$

$$\bar{R}^2 = 0.318$$

$$\text{SEE} = 0.1439$$

$$\text{DW} = 0.377$$

Mean of DV = 2.6793

Sample Period: 1954 to 1976

Equation is solved for NRUTF16.19 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

42. Unemployment Rate, Female, Ages 20 to 24 (Percent)

$$\text{LOG}(\text{NRUTF20.24}) = -5.0239 + 0.4009 * \text{LOG}(\text{NRUTM25.54})$$

(-3.5743) (6.1184)

$$+ 1.8232 * \text{LOG}(\text{RPW})$$

(4.7426)

$$\bar{R}^2 = 0.718$$

$$\text{SEE} = 0.1095$$

$$\text{DW} = 0.432$$

Mean of DV = 2.0924

Sample Period: 1954 to 1976

Equation is solved for NRUTF20.24 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

43. Unemployment Rate, Female, Ages 25 to 34 (Percent)

$$\text{LOG}(\text{NRUTF25.34}) = -2.6612 + 0.4494 * \text{LOG}(\text{NRUTM25.54})$$

$$(-2.8279) \quad (10.2434)$$

$$+ 1.0792 * \text{LOG}(\text{RPW})$$

$$(4.1929)$$

$$\bar{R}^2 = 0.843$$

$$\text{SEE} = 0.0733$$

$$\text{DW} = 1.254$$

Mean of DV = 1.8016

Sample Period: 1954 to 1976

Equation is solved for NRUTF25.34 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

44. Unemployment Rate, Females, Ages 35 to 44 (Percent)

$$\begin{aligned} \text{LOG}(\text{NRUTF35.44}) &= -0.9221 + 0.5150 * \text{LOG}(\text{NRUTM25.54}) \\ &\quad (-0.8899) \quad (10.6602) \\ &\quad + 0.5097 * \text{LOG}(\text{RPW}) \\ &\quad (1.7984) \end{aligned}$$

$$\bar{R}^2 = 0.838$$

$$\text{SEE} = 0.0807$$

$$\text{DW} = 1.441$$

$$\text{Mean of DV} = 1.5429$$

Sample Period: 1954 to 1976

Equation is solved for NRUF35.44 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

45. Unemployment Rate, Female, Ages 45 to 54 (Percent)

$$\begin{aligned} \text{LOG}(\text{NRUTF45.54}) = & -1.0170 + 0.6049 * \text{LOG}(\text{NRUTM25.54}) \\ & (-1.4252) \quad (18.1793) \\ & + 0.4477 * \text{LOG}(\text{RPW}) \\ & (2.2937) \end{aligned}$$

$$\bar{R}^2 = 0.938$$

$$\text{SEE} = 0.0556$$

$$\text{DW} = 2.198$$

Mean of DV = 1.3284

Sample Period: 1954 to 1976

Equation is solved for NRUTF45.54 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

46. Unemployment rate, Females, Ages 55 to 64 (Percent)

$$\text{LOG}(\text{NRUTF55.64}) = -0.7301 + 0.6708 * \text{LOG}(\text{NRUTM25.54})$$

$$(-0.6847) \quad (13.4934)$$

$$+ 0.3148 * \text{LOG}(\text{RPW})$$

$$(1.0796)$$

$$\bar{R}^2 = 0.891$$

$$\text{SEE} = 0.0831$$

$$\text{DW} = 1.531$$

Mean of DV = 1.2090

Sample Period: 1954 to 1976

Equation is solved for NRUTF55.64 for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

47. Unemployment Rate, Female, Ages 65 and Over (Percent)

$$\text{LOG}(\text{NRUTF65+}) = -5.1381 + 0.4239 * \text{LOG}(\text{NRUTM25.54})$$

$$(-2.900) \quad (5.1312)$$

$$+ 1.5915 * \text{LOG}(\text{RPW})$$

$$(3.2840)$$

$$\bar{R}^2 = 0.608$$

$$\text{SEE} = 0.1380$$

$$\text{DW} = 1.269$$

Mean of DV = 1.1607

Sample Period: 1954 to 1976

Equation is solved for NRUTF65+ for forecasting

$$\text{RPW} = .667 * \text{RP} + .333 * \text{RP}(-1)$$

$$\text{RP} = 100. * (\text{NPCN16.19} + \text{NPCN20.24} + \text{NPCN25.34}) / \text{NPCN16+}$$

48. Labor Force By Age Group and By Sex (Millions)

$$NLC\& = NRLT\& * NPCN\&$$

Where $\& = M16.19, M20.24, M25.34, M35.44, M45.54, M55.64,$
 $M65+, F16.19, F20.24, F25.34, F35.44, F45.54,$
 $F55.64, F65+$

$$NLC\& = NLCM\& + NLCF\&$$

Where $\& = 16.19, 20.24, 25.34, 35.44, 45.54, 55.64, 65+$

$$NLCM16+ = NLCM16.19 + NLCM20.24 + NLCM25.34 + NLCM35.44 +$$

$$NLCM45.54 + NLCM55.64 + NLCM65+$$

$$NLCF16+ = NLCF16.19 + NLCF20.24 + NLCF25.34 + NLCF35.44 +$$

$$NLCF45.54 + NLCF55.64 + NLCF65+$$

49. Labor Force, Total Ages 16 and Over (Millions)

$$NLC = NLCM16+ + NLCF16+$$

50. Number of Unemployed By Age-Sex Group (Millions)

$$NUT\& = NLC\& * NRUT\&$$

Where & = M16.19, M20.24, M25.34, M35.44, M45.54, M55.64, M65+

F16.19, F20.24, F25.34, F35.44, F45.54, F55.64, F65+

51. Number of Unemployed by Age Group and By Sex (Millions)

$$NUT\& = NUTM\& + NUTF\&$$

Where $\& = 16.19, 20.24, 25.34, 35.44, 45.54, 55.64, 65+$

$$NUTM16+ = NUTM16.19 + NUTM20.24 + NUTM25.34 + NUTM35.44 + \\ NUTM45.54 + NUTM55.64 + NUTM65+$$

$$NUTF16+ = NUTF16.19 + NUTF20.24 + NUTF25.34 + NUTF35.44 + \\ NUTF45.54 + NUTF55.64 + NUTF65+$$

52. Number of Unemployed (Millions)

$$NUT = NUTM16+ + NUTF16+$$

53. Labor Force Participation Rates, By Age and By Sex Group (Fractions)

$$NRLT\& = NLC\& / NPCN\&$$

Where & = M16+, F16+, 16.19, 20.24, 25.34, 35.44, 45.54, 55.64, 65+

54. Unemployment Rates by Age and Sex Group (Percent)

$$NRUT\& = 100. * NUT\& / NLC\&$$

Where & = M16+, F16+, 16.19, 20.24, 25.34, 35.44, 45.54, 55.64, 65+

55. Labor Force Participation Rate Total

$$NRLT = NLC / NPCN16+$$

56. Unemployment Rate, Total

$$NRUT = NUT / NLC$$

APPENDIX II

GLOSSARY OF MODEL VARIABLES
FOR THE WHARTON ANNUAL MODEL

JANUARY, 1979

THE GLOSSARY OF MODEL VARIANTS FOR
THE WHARTON ANNUAL AND INDUSTRY GUIDE

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
POPULATION	463	T	POPULATION, GROSS RATE, TOTAL, SIXTEEN YEARS AND OVER	PERCENT	TRANSFORMATION SCH 1.13
CAPITAL CONSUMPTION ADJUSTMENT, CORPORATE PROFITS AND IVA	467	F	CAPITAL CONSUMPTION ADJUSTMENT, CORPORATE PROFITS AND IVA	BILL CURRENT \$	SCH 1.13
CAPITAL CONSUMPTION ADJUSTMENT, PROPRIETORS' INCOME, FARM	468	F	CAPITAL CONSUMPTION ADJUSTMENT, PROPRIETORS' INCOME, FARM	BILL CURRENT \$	SCH 1.13
CAPITAL CONSUMPTION ADJUSTMENT, PROPRIETORS' INCOME, FARM	469	F	CAPITAL CONSUMPTION ADJUSTMENT, PROPRIETORS' INCOME, FARM	BILL CURRENT \$	SCH 1.13
DEPRECIATION RATE, FARM	417	F	DEPRECIATION RATE, FARM	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, COMMERCIAL & OTHER	418	F	DEPRECIATION RATE, COMMERCIAL & OTHER	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, LUMBER	419	F	DEPRECIATION RATE, LUMBER	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, FURNITURE	420	F	DEPRECIATION RATE, FURNITURE	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, STONE, CLAY & GLASS	421	F	DEPRECIATION RATE, STONE, CLAY & GLASS	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, PRIMARY METALS	422	F	DEPRECIATION RATE, PRIMARY METALS	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, FABRICATED METAL PRODUCTS	423	F	DEPRECIATION RATE, FABRICATED METAL PRODUCTS	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, ELECTRICAL MACHINERY	424	F	DEPRECIATION RATE, ELECTRICAL MACHINERY	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, NON-ELECTRICAL MACHINERY	425	F	DEPRECIATION RATE, NON-ELECTRICAL MACHINERY	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, AUTOMOBILE TRANSPORT & MISC MFG	426	F	DEPRECIATION RATE, AUTOMOBILE TRANSPORT & MISC MFG	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, MOTOR VEHICLES	427	F	DEPRECIATION RATE, MOTOR VEHICLES	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, INSTRUMENTS	428	F	DEPRECIATION RATE, INSTRUMENTS	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, FOOD & BEVERAGES	429	F	DEPRECIATION RATE, FOOD & BEVERAGES	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, TOBACCO	430	F	DEPRECIATION RATE, TOBACCO	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, TEXTILES	431	F	DEPRECIATION RATE, TEXTILES	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, APPAREL	432	F	DEPRECIATION RATE, APPAREL	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, PAPER	433	F	DEPRECIATION RATE, PAPER	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, PRINTING & PUBLISHING	434	F	DEPRECIATION RATE, PRINTING & PUBLISHING	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, CHEMICALS	435	F	DEPRECIATION RATE, CHEMICALS	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, PETROLEUM	436	F	DEPRECIATION RATE, PETROLEUM	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, RUBBER	437	F	DEPRECIATION RATE, RUBBER	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, LEATHER	438	F	DEPRECIATION RATE, LEATHER	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, MINTING	439	F	DEPRECIATION RATE, MINTING	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, COMMUNICATIONS	440	F	DEPRECIATION RATE, COMMUNICATIONS	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, TRANSPORTATION	441	F	DEPRECIATION RATE, TRANSPORTATION	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, UTILITIES	442	F	DEPRECIATION RATE, UTILITIES	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, RESIDENTIAL STRUCTURES, WHOLE HOMES	443	F	DEPRECIATION RATE, RESIDENTIAL STRUCTURES, WHOLE HOMES	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, RESIDENTIAL STRUCTURES, MULTIPLE UNIT	444	F	DEPRECIATION RATE, RESIDENTIAL STRUCTURES, MULTIPLE UNIT	PERCENT	WHARTON E.F.A.
DEPRECIATION RATE, RESIDENTIAL STRUCTURES, SINGLE UNITS	445	F	DEPRECIATION RATE, RESIDENTIAL STRUCTURES, SINGLE UNITS	PERCENT	WHARTON E.F.A.
CAPITAL CONSUMPTION ALLOWANCES WITH CAPITAL CONSUMPTION AND	446	T	CAPITAL CONSUMPTION ALLOWANCES WITH CAPITAL CONSUMPTION AND	BILL CURRENT \$	TRANSFORMATION SCH 1.9
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	447	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	448	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	449	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	450	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	451	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	452	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	453	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	454	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	455	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	456	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	457	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	458	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	459	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	460	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	461	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	462	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	463	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	464	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	465	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	466	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	467	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	468	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	469	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	470	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	471	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	472	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	473	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	474	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	475	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	476	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	477	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	478	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	479	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	480	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	481	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	482	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	483	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	484	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	485	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	486	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	487	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	488	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	489	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	490	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	491	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	492	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	493	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	494	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	495	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	496	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	497	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	498	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	499	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE
CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	500	T	CAP CON'S ALLOW, TOTAL, W/O CCA ADJ	BILL CURRENT \$	NEA WORKFILE

[illegible]

G L O S S A R Y O F M O D E L V A R I A T I O N S F O R
T H E W H A R T O N A N N U A L A N D I N D U S T R Y M O D E L

VARIABLE	NUMBER TYPE	D E S C R I P T I O N	U N I T S	S O U R C E
CEX	640 I	PERSONAL CONSUMPTION EXPENDITURES, SERVICES	HILL CURRENT \$	SCH 1.1
CESH	55 M	PERSONAL CONSUMPTION EXPENDITURES, HOUSING	HILL CONSTANT \$	SCH 2.7 - L04A
CESH	643 I	PERSONAL CONSUMPTION EXPENDITURES, HOUSING	HILL CURRENT \$	SCH 2.6 - L02A
CESD	58 M	PERSONAL CONSUMPTION EXPENDITURES, OTHER	HILL CONSTANT \$	SCH 2.7 - L040
CESD	646 I	PERSONAL CONSUMPTION EXPENDITURES, OTHER	HILL CURRENT \$	SCH 2.5
CESDSP/DP	1013 F	PERS CONS EXP, SVCS, FURN AND PAY BY FIN INTER - USING AGG OFFL	HILL CONSTANT \$	TRANSFORMATION
CESS	56 R	PERSONAL CONSUMPTION EXPENDITURES, HOUSEHOLD OPERATION	HILL CONSTANT \$	SCH 2.7 - L04A
CESS	644 I	PERSONAL CONSUMPTION EXPENDITURES, HOUSEHOLD OPERATION	HILL CURRENT \$	SCH 2.3
CEST	57 R	PERSONAL CONSUMPTION EXPENDITURES, TRANSPORTATION	HILL CONSTANT \$	SCH 2.7 - L050
CEST	645 I	PERSONAL CONSUMPTION EXPENDITURES, TRANSPORTATION	HILL CURRENT \$	SCH 2.3
CPATE	661 I	CORPORATE PROFITS WITH INVENTORY VALUATION & CAPITAL CONS ADJ	HILL CURRENT \$	SCH 1.13
CPATE	454 I	CORPORATE PROFITS AFTER TAX, TOTAL	HILL CURRENT \$	SCH 1.13
CPATE	450 I	CORPORATE PROFITS BEFORE TAX, TOTAL	HILL CURRENT \$	SCH 1.13
DTSAV	1051 I	ALL CAPS DOM & FOR TOTAL SCRAPPAGE, YEAR END	MILL VEHICLES	TRANSFORMATION
DTSAVEXP	1056 I	EXPECTED SCRAPPAGE OF CARS	MILLION VEHICLES	TRANSFORMATION
DTSAVEXP	796 F	IMPVY, CANADIAN AMERICAN AUTO AGREEMENT	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	1045 F	IMPVY, AUTO STRIKE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	673 F	IMPVY, 1970-1971 AUTO STRIKE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	444 F	IMPVY, CAPITAL CONSUMPTION ALLOWANCES, 1962 TAX LAW CHANGE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	820 F	IMPVY, DUCK STRIKES	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	825 F	IMPVY, CANADIAN EXPOSITION (1967 = 1, = 0 OTHERWISE)	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	519 F	IMPVY, CERTIFICATES OF DEPOSIT	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	520 F	IMPVY, FOR LIFTING OF REG D ON CDS	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	918 F	IMPVY, SHIFT IN TONAL PROD, VALUE ADDED WEIGHT, 47-64=1.	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	919 F	IMPVY, SHIFT IN TONAL PROD, VALUE ADDED WEIGHT, 67- 31.	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	675 F	IMPVY, USER COST, LONG AGREEMENT	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	419 F	IMPVY, PRODUCTIVITY	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	263 F	IMPVY, SECTOR PRICE, FURNITURE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	260 F	IMPVY, SECTOR PRICE, FOOD & BEVERAGES	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	261 F	IMPVY, SECTOR PRICE, TEXTILES	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	262 F	IMPVY, SECTOR PRICE, PAPER	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	971 F	IMPVY, FOR SPREAD BETWEEN LONG (FPMCS) & SHORT (FPMCPMS) RATES	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	672 F	IMPVY, STEEL STRIKE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	923 F	IMPVY, WORK STOPPAGES, FURNITURE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	422 F	IMPVY, WORK STOP, ROMANTO TRAUS EQUIPMENTAL NEG	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	920 F	IMPVY, WORK STOPPAGES, PAPER	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	424 F	IMPVY, WORK STOPPAGES, RUBBER	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	421 F	IMPVY, WORK STOPPAGES, WHEAT	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	126 F	TIME TRENDS	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	776 F	IMPVY, FOR IMPLEMENTATION OF MEDICARE AND MEDICAID	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	473 F	IMPVY, FOR ELIMINATING THE EXCISE TAX ON AUTOS	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	472 F	IMPVY, FOR THE MAKING CHANGES TO EXCISE TAX LAWS IN 1965	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	463 F	IMPVY, ADJUSTING RATE EFFECT OF 1964 TAX LAW CHANGE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	964 F	IMPVY, PERSONAL FEDERAL TAX SURCHARGE	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	965 F	IMPVY, OVER WITHDRAWING OF FEDERAL PERSONAL TAXES	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	966 F	IMPVY, FEMALE FORT OVER WITHDRAWING IN 1972	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	515 F	IMPVY, FEMALE FORT OVER WITHDRAWING IN 1972	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	965 F	IMPVY, FEMALE FORT OVER WITHDRAWING IN 1972	WHARTON F.F.A.	WHARTON F.F.A.
DTSAVEXP	965 F	IMPVY, FEMALE FORT OVER WITHDRAWING IN 1972	WHARTON F.F.A.	WHARTON F.F.A.

GLOSSARY OF MODEL VARIABLES FOR
THE CHARTER ANNUAL AND INDUSTRY MODEL

VARIABLE	UNIT TYPE	DESCRIPTION	UNIT	SOURCE
IN-TEMP-71	510 F	DIVIDEND FOR NEW LOW INCOME ALLOWANCE		WHARTON F.F.A.
IN-TEMP-71	510 F	DIVIDEND, TRANSITION YEAR FOR LITERIALIZED STANDARD DEDUCTION LAW		WHARTON F.F.A.
IN-TEMP-71	420 F	DIVIDEND, WAR		WHARTON F.F.A.
IN-TEMP-71	165 F	DIVIDEND, WAGE RATE, PRIMARY METALS		WHARTON F.F.A.
IN-TEMP-71	165 F	DIVIDEND, WAGE RATE, TOBACCO		WHARTON F.F.A.
IN-TEMP-71	475 F	DIVIDEND, SHIFT IN SHARE OF MULTI-UNIT HOUSING STARTS TO TOTAL		WHARTON F.F.A.
IN-TEMP-71	500 H	DIVIDEND SUPPLY, CURRENCY COMPONENT (DECEMBER)		WHARTON F.F.A.
IN-TEMP-71	507 H	COMMERCIAL BANKS, DEPOSITS, PRIVATE DEMAND (DECEMBER)		WHARTON F.F.A.
IN-TEMP-71	500 H	COMMERCIAL BANKS, DEPOSITS, TIME AND SAVINGS (DECEMBER)		WHARTON F.F.A.
IN-TEMP-71	521 T	DIVIDEND SUPPLY, EXTENDED, INCLUDING TOTAL TIME DEPOSITS		WHARTON F.F.A.
IN-TEMP-71	516 F	FREE RESERVES, MEMBER BANKS		WHARTON F.F.A.
IN-TEMP-71	520 T	RESERVED, NON-BORROWED		WHARTON F.F.A.
IN-TEMP-71	522 T	RESERVED RESERVES		WHARTON F.F.A.
IN-TEMP-71	512 F	INTEREST RATE, EFFECTIVE, ON PASSBOOK SAVINGS AT COMMERCIAL BANK		WHARTON F.F.A.
IN-TEMP-71	510 F	MAXIMUM RATE PAYABLE, \$100,000 & OVER NEGOTIABLE COIS		WHARTON F.F.A.
IN-TEMP-71	510 H	PRIME COMMERCIAL PAPER 4-6 MONTHS		WHARTON F.F.A.
IN-TEMP-71	511 H	BOND RATE, TOTAL		WHARTON F.F.A.
IN-TEMP-71	513 H	BOND RATE, INDUSTRIAL		WHARTON F.F.A.
IN-TEMP-71	515 H	BOND RATE, RAIL		WHARTON F.F.A.
IN-TEMP-71	516 H	BOND RATE, UTILITIES		WHARTON F.F.A.
IN-TEMP-71	517 F	DISCOUNT RATE, FEDERAL RESERVE BANK		WHARTON F.F.A.
IN-TEMP-71	400 F	INTEREST RATE, 3-MONTH EURO-DOLLARS		WHARTON F.F.A.
IN-TEMP-71	407 F	INTEREST RATE, HOME MORTGAGE, AVG EFFECTIVE, FOR NEWLY BUILT HOMES		WHARTON F.F.A.
IN-TEMP-71	423 F	EFFECTIVE RESERVE REQUIREMENT RATIO		WHARTON F.F.A.
IN-TEMP-71	450 H	U.S. TRADE LIQUIDITY, EXTERNAL CLAIMS HELD BY U.S. ON FOREIGNERS		WHARTON F.F.A.
IN-TEMP-71	424 H	U.S. TRADE LIQUIDITY, EXTERNAL LIABILITIES HELD BY FOREIGN ON US		WHARTON F.F.A.
IN-TEMP-71	127 T	GROSS NATIONAL PRODUCT		WHARTON F.F.A.
IN-TEMP-71	570 T	GROSS NATIONAL PRODUCT		WHARTON F.F.A.
IN-TEMP-71	1350 T	PER CAPITA REAL GROSS NATIONAL PRODUCT		WHARTON F.F.A.
IN-TEMP-71	1300 T	REAL OUTPUT PER PERSON, ALL INDUSTRIES		WHARTON F.F.A.
IN-TEMP-71	506 T	FEDERAL GOVT EXPENDITURES, TOTAL		WHARTON F.F.A.
IN-TEMP-71	500 T	STATE AND LOCAL GOVERNMENT EXPENDITURES, TOTAL		WHARTON F.F.A.
IN-TEMP-71	500 T	FED GOVT EXPEND, GRANTS-IN-AID TO STATE & LOCAL GOVERNMENTS		WHARTON F.F.A.
IN-TEMP-71	703 T	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL		WHARTON F.F.A.
IN-TEMP-71	505 T	FED GOVT EXPEND, PURCHASES OF GOODS & SERVICES, TOTAL		WHARTON F.F.A.
IN-TEMP-71	505 T	GOVERNMENT PURCHASES PER EMPLOYEE, FEDERAL		WHARTON F.F.A.
IN-TEMP-71	505 T	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL, DEFENSE		WHARTON F.F.A.
IN-TEMP-71	600 T	FED GOVT EXPEND, PURCHASES OF GOODS & SERVICES, NAT'L DEFENSE		WHARTON F.F.A.
IN-TEMP-71	600 T	GOVERNMENT PURCHASES OF GOODS AND SERVICES, FEDERAL, NONDEFENSE		WHARTON F.F.A.
IN-TEMP-71	702 T	FED GOVT EXPEND, PURCHASES OF GOODS & SERVICES, NONDEFENSE		WHARTON F.F.A.
IN-TEMP-71	550 T	STATE AND LOCAL GOVERNMENT PURCHASES OF GOODS & SERVICES		WHARTON F.F.A.
IN-TEMP-71	550 T	STATE AND LOCAL GOVERNMENT PURCHASES PER EMPLOYEE, STATE & LOCAL		WHARTON F.F.A.
IN-TEMP-71	550 T	STATE AND LOCAL GOVERNMENT PURCHASES, NON-DEFENSE, EDUCATION		WHARTON F.F.A.
IN-TEMP-71	550 T	STATE AND LOCAL GOVERNMENT PURCHASES, NON-DEFENSE, HEALTH, LABOR, & LEISURE		WHARTON F.F.A.
IN-TEMP-71	550 T	STATE AND LOCAL GOVERNMENT PURCHASES, NON-DEFENSE, HEALTH, LABOR, & LEISURE		WHARTON F.F.A.
IN-TEMP-71	550 T	STATE AND LOCAL GOVERNMENT PURCHASES, NON-DEFENSE, CIVILIAN SAFETY		WHARTON F.F.A.

THE COMPARTMENTAL ANNUAL AND INDUSTRY MODEL

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VARIABLE	NUMBER	DESCRIPTION	UNITS	SOURCE
GOVEXP	612	STAT GOVT EXPEND, PURCH, NON-DEFENSE, CIVILIAN SAFETY	WILL CURRENT \$	SCR 3.14
GOVEXP	934	STAT GOVT EXPEND, PURCH, NON-DEFENSE, OTHER	WILL CURRENT \$	TRANSFORMATION
GOVEXP	613	STAT GOVT EXPEND, PURCH, NON-DEFENSE, OTHER	WILL CURRENT \$	TRANSFORMATION
GOVEXP	610	GOVERNMENT PURCHASES OF GOODS AND SERVICES, TOTAL	WILL CURRENT \$	SCR 1.2
GOVEXP	614	GOVERNMENT PURCHASES OF GOODS AND SERVICES, TOTAL	WILL CURRENT \$	SCR 1.1
GOVEXP	501	FEDERAL GOVERNMENT RECEIPTS, TOTAL	WILL CURRENT \$	SCR 3.2
GOVEXP	504	STATE & LOCAL GOVERNMENT RECEIPTS, TOTAL	WILL CURRENT \$	SCR 3.4
GOVEXP	478	SUBSIDIES LESS CURRENT SURPLUS OF GOVERNMENT ENTERPRISES	WILL CURRENT \$	SCR 1.9
GOVEXP	479	FED GOVT EXPEND, SUBSIDIES LESS CURRENT SURPLUS, GOVT FMS	WILL CURRENT \$	SCR 3.2
GOVEXP	480	ST & LOCAL GOVT EXPEND, SUBSIDIES LESS CURRENT SURPLUS GOVT FMS	WILL CURRENT \$	SCR 3.4
GOVEXP	547	FEDERAL GOVT, SURPLUS (+) OR DEFICIT (-), NIA BASIS	WILL CURRENT \$	SCR 3.2
GOVEXP	475	ST & LOCAL GOVT, SURPLUS (+) OR DEFICIT (-), NIA BASIS	WILL CURRENT \$	SCR 3.4
GOVEXP	946	DISCARD FROM STOCK, RES HOUSING UNITS, MOBILE HOMES	THOUSANDS	TRANSFORMATION
GOVEXP	942	DISCARD RATE, HOUSING UNITS, MULTI-UNIT STRUCTURES	PERCENT	TRANSFORMATION
GOVEXP	929	DISCARD RATE, HOUSING UNITS, SINGLE UNIT STRUCTURES	PERCENT	TRANSFORMATION
GOVEXP	943	DISCARD FROM STOCK, HOUSING UNITS, MULTI-UNIT STRUCTURES	THOUSANDS	TRANSFORMATION
GOVEXP	940	DISCARD FROM STOCK, HOUSING UNITS, SINGLE UNIT STRUCTURES	THOUSANDS	TRANSFORMATION
GOVEXP	932	PENTAL HOUSING UNITS, VACANT, AS A OF YEAR-ROUND UNITS ON MARKET	PERCENT	HOUSING REP WILL
GOVEXP	740	PRIVATE NEW HOUSING UNITS STARTED, FARM AND NONFARM, TOTAL	THOUSANDS	CEPUS REP C-20
GOVEXP	742	PRIVATE NEW HOUSING UNITS STARTED, FARM	THOUSANDS	TRANSFORMATION
GOVEXP	945	MOBILE HOMES, MFG'S SHIPMENTS TO DEALERS	THOUSANDS	CONSTRUCT REV R-7
GOVEXP	741	NEW NON FARM PRIVATE HOUSING STARTS	THOUSANDS	TRANSFORMATION
GOVEXP	779	PRIVATE NEW HOUSING UNITS STARTED, FARM AND NONFARM, MULT. UNITS	THOUSANDS	TRANSFORMATION
GOVEXP	774	PRIVATE NEW HOUSING UNITS STARTED, FARM AND NONFARM, SINGLE UNIT	THOUSANDS	TRANSFORMATION
GOVEXP	944	NEW HOUSING UNITS STARTED, PUBLIC, MULTI-UNIT STRUCTURES	THOUSANDS	CENSUS REP C-20
GOVEXP	941	NEW HOUSING UNITS STARTED, PUBLIC, SINGLE UNIT STRUCTURES	THOUSANDS	TRANSFORMATION
GOVEXP	1436	INVESTMENT, NEW PLANT & EQUIPMENT, INCL FARM	WILL CURRENT \$	CENSUS REP C-20
GOVEXP	1434	INVESTMENT, NEW PLANT & EQUIPMENT, INCL FARM	WILL CURRENT \$	TRANSFORMATION
GOVEXP	567	INVESTMENT, NONRESIDENTIAL, STRUCTURES & EQUIPMENT, FARM	WILL CURRENT \$	TRANSFORMATION
GOVEXP	59	INVESTMENT, FIXED, TOTAL, FARM (RESIDENTIAL & NONRESIDENTIAL)	WILL CURRENT \$	TRANSFORMATION
GOVEXP	599	INVESTMENT, FIXED, TOTAL, FARM (RESIDENTIAL & NONRESIDENTIAL)	WILL CURRENT \$	TRANSFORMATION
GOVEXP	568	INVESTMENT, NONRESIDENTIAL, STRUCTURES & EQUIPMENT, FARM	WILL CURRENT \$	TRANSFORMATION
GOVEXP	1437	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), COMMERCIAL AND OTHER	WILL CURRENT \$	HFA-UNPUBLISHED
GOVEXP	540	INVESTMENT, COMMERCIAL & OTHER, INCL STAT DIFF OF NIA VS HFA-SEC	WILL CURRENT \$	HFA SFC SURVEY
GOVEXP	540	INVESTMENT, COMMERCIAL & OTHER, INCL STAT DIFF OF NIA VS HFA-SEC	WILL CURRENT \$	TRANSFORMATION
GOVEXP	602	INVESTMENT, COMMERCIAL & OTHER, INCL STAT DIFF OF NIA VS HFA-SEC	WILL CURRENT \$	TRANSFORMATION
GOVEXP	570	INVESTMENT, COMMERCIAL & OTHER, INCL STAT DIFF OF NIA VS HFA-SEC	WILL CURRENT \$	TRANSFORMATION
GOVEXP	1443	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, TOTAL	WILL CURRENT \$	TRANSFORMATION
GOVEXP	1440	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, TOTAL	WILL CURRENT \$	TRANSFORMATION
GOVEXP	1435	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	HFA SFC SURVEY
GOVEXP	1441	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	TRANSFORMATION
GOVEXP	604	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	TRANSFORMATION
GOVEXP	543	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	HFA SFC SURVEY
GOVEXP	604	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	TRANSFORMATION
GOVEXP	540	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	TRANSFORMATION
GOVEXP	604	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	HFA SFC SURVEY
GOVEXP	540	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	TRANSFORMATION
GOVEXP	541	INVESTMENT, NEW PLANT & EQUIPMENT (NIA-SEC), MANUFACTURING, DURABLES	WILL CURRENT \$	HFA SFC SURVEY

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VARIABLE	UNIT	DESCRIPTION	UNITS	SOURCE
IAE0033	61 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; PRIMARY METALS	BILL CONSTANT \$	TRANSFORMATION
IAE0034	576 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; PRIMARY METALS	BILL CURRENT \$	HEA SEC SURVEY
IAE0035	67 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; FARMICATED METAL	BILL CONSTANT \$	TRANSFORMATION
IAE0036	582 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; FARMICATED METAL	BILL CURRENT \$	HEA SEC SURVEY
IAE0037	63 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; NUMELEC MACHINE	BILL CONSTANT \$	TRANSFORMATION
IAE0038	578 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; NUMELEC MACHINE	BILL CURRENT \$	HEA SEC SURVEY
IAE0039	62 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; FLEC MACHINERY	BILL CONSTANT \$	TRANSFORMATION
IAE0040	577 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; FLEC MACHINERY	BILL CURRENT \$	HEA SEC SURVEY
IAE0041	65 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; SIC'S 372, 9+19+39	BILL CONSTANT \$	TRANSFORMATION
IAE0042	580 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; SIC'S 372, 9+19+39	BILL CURRENT \$	TRANSFORMATION
IAE0043	60 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; TRANS EQ, MOTOR VEH	BILL CONSTANT \$	TRANSFORMATION
IAE0044	579 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; TRANS EQ, MOTOR VEH	BILL CURRENT \$	HEA SEC SURVEY
IAE0045	70 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; INSTRUMENTS&PROD	BILL CONSTANT \$	TRANSFORMATION
IAE0046	585 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; INSTRUMENTS&PROD	BILL CURRENT \$	HEA SEC SURVEY
IAE0047	1180 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; MANUFACTURING, NONDURABLES	BILL CONSTANT \$	TRANSFORMATION
IAE0048	1182 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; MANUFACTURING, NONDURABLES	BILL CURRENT \$	HEA SEC SURVEY
IAE0049	71 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; FOOD&BEVERAGE	BILL CONSTANT \$	TRANSFORMATION
IAE0050	586 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; FOOD&BEVERAGE	BILL CURRENT \$	HEA SEC SURVEY
IAE0051	77 F	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; TOBACCO MFG	BILL CONSTANT \$	TRANSFORMATION
IAE0052	592 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; TOBACCO MFG	BILL CURRENT \$	HEA SEC SURVEY
IAE0053	72 R	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; TEXTILE MILL	BILL CONSTANT \$	TRANSFORMATION
IAE0054	587 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; TEXTILE MILL	BILL CURRENT \$	HEA SEC SURVEY
IAE0055	78 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; APPAREL&PROD	BILL CONSTANT \$	TRANSFORMATION
IAE0056	593 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; APPAREL&PROD	BILL CURRENT \$	HEA SEC SURVEY
IAE0057	73 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; PAPER & PROD	BILL CONSTANT \$	TRANSFORMATION
IAE0058	588 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; PAPER & PROD	BILL CURRENT \$	HEA SEC SURVEY
IAE0059	595 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; PRINTING&PROD	BILL CONSTANT \$	TRANSFORMATION
IAE0060	79 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; CHEMICALS	BILL CURRENT \$	HEA SEC SURVEY
IAE0061	589 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; PETROLEUM&CHEM	BILL CONSTANT \$	TRANSFORMATION
IAE0062	75 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; PETROLEUM&CHEM	BILL CURRENT \$	HEA SEC SURVEY
IAE0063	590 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; RUBBER&PLASTIC	BILL CONSTANT \$	TRANSFORMATION
IAE0064	76 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; RUBBER&PLASTIC	BILL CURRENT \$	HEA SEC SURVEY
IAE0065	591 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; LEATHER&PROD	BILL CONSTANT \$	TRANSFORMATION
IAE0066	70 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MFG, DUR; LEATHER&PROD	BILL CURRENT \$	HEA SEC SURVEY
IAE0067	596 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MINING	BILL CONSTANT \$	TRANSFORMATION
IAE0068	60 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), MINING	BILL CURRENT \$	HEA SEC SURVEY
IAE0069	575 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, COMMUNICATIONS	BILL CONSTANT \$	TRANSFORMATION
IAE0070	63 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, COMMUNICATIONS	BILL CURRENT \$	HEA SEC SURVEY
IAE0071	598 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, TRANSPORTATION	BILL CONSTANT \$	TRANSFORMATION
IAE0072	61 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, TRANSPORTATION	BILL CURRENT \$	HEA SEC SURVEY
IAE0073	596 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CONSTANT \$	TRANSFORMATION
IAE0074	62 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CURRENT \$	HEA SEC SURVEY
IAE0075	597 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CONSTANT \$	TRANSFORMATION
IAE0076	1530 W	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CURRENT \$	HEA SEC SURVEY
IAE0077	1454 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CONSTANT \$	TRANSFORMATION
IAE0078	651 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CURRENT \$	HEA SEC SURVEY
IAE0079	603 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CONSTANT \$	TRANSFORMATION
IAE0080	604 T	INVESTMENT, NEW PLANT&EQUIP (HEA-SEC), REGULATED, PUBLIC UTILITY	BILL CURRENT \$	HEA SEC SURVEY

SUMMARY OF MODEL VARIABLES FOR
THE CONSTRUCTION, ANNUAL AND INDUSTRY MODEL

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
IA00	602	I	INVESTMENT, FIXED, NONRESIDENTIAL	HILL CONSTANT \$	SCH 1.2
IA01	605	I	INVESTMENT, FIXED, NONRESIDENTIAL	HILL CURRENT \$	SCH 1.1
IA02	601	I	INVESTMENT, FIXED, RESIDENTIAL	HILL CONSTANT \$	SCH 1.2
IA03	603	I	INVESTMENT, FIXED, RESIDENTIAL	HILL CURRENT \$	SCH 1.1
IA04	700	F	INVESTMENT, FIXED, RESIDENTIAL, PRODUCERS' DURABLE EQUIPMENT	HILL CONSTANT \$	SCH 1.2
IA05	671	I	INVESTMENT, FIXED, RESIDENTIAL, PRODUCERS' DURABLE EQUIPMENT	HILL CURRENT \$	SCH 1.1
IA06	571	F	INVESTMENT, FIXED, RESIDENTIAL, FARM STRUCTURES	HILL CONSTANT \$	SCH 1.2
IA07	572	I	INVESTMENT, FIXED, RESIDENTIAL, FARM STRUCTURES	HILL CURRENT \$	SCH 1.1
IA08	600	I	INVESTMENT, FIXED, RESIDENTIAL, NONFARM STRUCTURES	HILL CONSTANT \$	SCH 1.2
IA09	601	I	INVESTMENT, FIXED, RESIDENTIAL, NONFARM STRUCTURES	HILL CURRENT \$	SCH 1.1
IA10	705	R	CONCEPTUAL DIFF. NIA RES INVESTMENT VS. VALUE PUT IN PLACE	HILL CONSTANT \$	SCH 1.2
IA11	704	F	CHANGE IN BUSINESS INVENTORIES, FARM	HILL CONSTANT \$	SCH 1.2
IA12	707	I	CHANGE IN BUSINESS INVENTORIES, NONFARM	HILL CONSTANT \$	SCH 1.2
IA13	777	I	CHANGE IN BUSINESS INVENTORIES, NONFARM, MANUFACTURING	HILL CONSTANT \$	TRANSFORMATION
IA14	481	R	CHANGE IN BUSINESS INVENTORIES, NONFARM, NON-MFG & NON-AUTO	HILL CONSTANT \$	TRANSFORMATION
IA15	45	I	CHANGE IN BUSINESS INVENTORIES, TOTAL	HILL CURRENT \$	SCH 1.2
IA16	606	R	CHANGE IN INVENTORIES OF (REALERS') NEW AND USED AUTOS	HILL CONSTANT \$	SCH 1.1
IA17	709	I	INVESTMENT, GROSS PRIVATE DOMESTIC	HILL CURRENT \$	SCH 1.2
IA18	607	I	INVESTMENT, GROSS PRIVATE DOMESTIC	HILL CURRENT \$	SCH 1.1
IA19	920	R	FPP INDUSTRIAL PRODUCTION INDEX, TOTAL	1967 = 100.	FRR G.12.3
IA20	921	R	FPP INDUSTRIAL PRODUCTION INDEX, MANUFACTURING	1967 = 100.	FRR G.12.3
IA21	923	R	FPP INDUSTRIAL PRODUCTION INDEX, MANUFACTURING, DURABLES	1967 = 100.	FRR G.12.3
IA22	924	R	FPP INDUSTRIAL PRODUCTION INDEX, MANUFACTURING, NONDURABLES	1967 = 100.	FRR G.12.3
IA23	925	R	FPP INDUSTRIAL PRODUCTION INDEX, MINING	1967 = 100.	FRR G.12.3
IA24	922	R	FPP INDUSTRIAL PRODUCTION INDEX, MINING AND UTILITIES	1967 = 100.	FRR G.12.3
IA25	926	R	FPP INDUSTRIAL PRODUCTION INDEX, UTILITIES	1967 = 100.	FRR G.12.3
IA26	700	F	INVESTMENT TAX CREDIT RATE, FARM	PERCENT	TRANSFORMATION
IA27	1038	F	INVESTMENT TAX CREDIT RATE, COMMERCIAL + OTHER	PERCENT	TRANSFORMATION
IA28	600	F	INVESTMENT TAX CREDIT RATE, LUMBER	PERCENT	TRANSFORMATION
IA29	605	F	INVESTMENT TAX CREDIT RATE, FURNITURE	PERCENT	TRANSFORMATION
IA30	602	F	INVESTMENT TAX CREDIT RATE, STONE, CLAY + GLASS	PERCENT	TRANSFORMATION
IA31	577	F	INVESTMENT TAX CREDIT RATE, PRIMARY METALS	PERCENT	TRANSFORMATION
IA32	603	F	INVESTMENT TAX CREDIT RATE, FABRICATED METAL PRODUCTS	PERCENT	TRANSFORMATION
IA33	604	F	INVESTMENT TAX CREDIT RATE, NONELECTRICAL MACHINERY	PERCENT	TRANSFORMATION
IA34	670	F	INVESTMENT TAX CREDIT RATE, ELECTRICAL MACHINERY	PERCENT	TRANSFORMATION
IA35	671	F	INVESTMENT TAX CREDIT RATE, NON-AUTO TRANS EQUIP + BIRD + MISC MFG	PERCENT	TRANSFORMATION
IA36	601	F	INVESTMENT TAX CREDIT RATE, MOTOR VEHICLES	PERCENT	TRANSFORMATION
IA37	606	F	INVESTMENT TAX CREDIT RATE, INSTRUMENTS	PERCENT	TRANSFORMATION
IA38	607	F	INVESTMENT TAX CREDIT RATE, FOOD + BEVERAGE	PERCENT	TRANSFORMATION
IA39	603	F	INVESTMENT TAX CREDIT RATE, TOBACCO	PERCENT	TRANSFORMATION
IA40	604	F	INVESTMENT TAX CREDIT RATE, TEXTILES	PERCENT	TRANSFORMATION
IA41	606	F	INVESTMENT TAX CREDIT RATE, APPAREL	PERCENT	TRANSFORMATION
IA42	609	F	INVESTMENT TAX CREDIT RATE, PAPER	PERCENT	TRANSFORMATION
IA43	606	F	INVESTMENT TAX CREDIT RATE, PETROLEUM + FUEL OILING	PERCENT	TRANSFORMATION
IA44	601	F	INVESTMENT TAX CREDIT RATE, CHEMICALS	PERCENT	TRANSFORMATION
IA45	601	F	INVESTMENT TAX CREDIT RATE, PETROLEUM	PERCENT	TRANSFORMATION
IA46	602	F	INVESTMENT TAX CREDIT RATE, RUBBER	PERCENT	TRANSFORMATION

THE GLOSSARY OF MODEL VARIETIES FOR
THE GUADALUPA AMERICAN INDUSTRY MODEL

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
INVEST	695	F	INVESTMENT TAX CREDIT RATE, LEATHER	PERCENT	TRANSFORMATION
INVEST	676	F	INVESTMENT TAX CREDIT RATE, MINING	PERCENT	TRANSFORMATION
INVEST	699	F	INVESTMENT TAX CREDIT RATE, COMMUNICATIONS	PERCENT	TRANSFORMATION
INVEST	697	F	INVESTMENT TAX CREDIT RATE, TRANSPORTATION	PERCENT	TRANSFORMATION
INVEST	698	F	INVESTMENT TAX CREDIT RATE, UTILITIES	PERCENT	TRANSFORMATION
INVEST	452	R	INVESTMENT VALUATION ADJUSTMENT, CORPORATE PROFITS	BILL CURRENT \$	SCH 1.13
INVEST	456	R	INVESTMENT VALUATION ADJUSTMENT, NONFARM PROFITS	BILL CURRENT \$	SCH 1.13
INVEST	1018	T	STOCK, CONSUMER DURABLES	BILL CONSTANT \$	TRANSFORMATION
INVEST	1019	T	STOCK, CONSUMER DURABLES	BILL CURRENT \$	TRANSFORMATION
INVEST	670	T	STOCK, AUTOS AND PARTS	BILL CONSTANT \$	TRANSFORMATION
INVEST	1000	T	STOCK, RESIDENTIAL HOUSING UNITS, TOTAL, INCL. MOBILE HOMES	THOUSANDS	TRANSFORMATION
INVEST	977	R	STOCK, RESIDENTIAL HOUSING UNITS, MULTI-UNIT STRUCTURES	THOUSANDS	TRANSFORMATION
INVEST	990	T	STOCK, RESIDENTIAL HOUSING UNITS, MOBILE HOMES	THOUSANDS	TRANSFORMATION
INVEST	970	R	STOCK, RESIDENTIAL HOUSING UNITS, ONE-UNIT STRUCTURES	THOUSANDS	TRANSFORMATION
INVEST	996	R	PERCENT OF OWNER OCCUPIED DWELLINGS TO TOTAL HOUSING STOCK	PERCENT	TRANSFORMATION
INVEST	991	T	PERCENT OF SINGLE UNIT DWELLINGS TO TOTAL OWNER OCC. HOUSING STOCK	PERCENT	TRANSFORMATION
INVEST	1342	T	CAPITAL STOCK, FARM	BILL CONSTANT \$	TRANSFORMATION
INVEST	302	T	CAPITAL STOCK, COMMERCIAL & OTHER	BILL CONSTANT \$	TRANSFORMATION
INVEST	375	T	CAPITAL STOCK, LUMBER	BILL CONSTANT \$	TRANSFORMATION
INVEST	376	T	CAPITAL STOCK, FURNITURE	BILL CONSTANT \$	TRANSFORMATION
INVEST	373	T	CAPITAL STOCK, STONE, CLAY & GLASS	BILL CONSTANT \$	TRANSFORMATION
INVEST	368	T	CAPITAL STOCK, MANUFACTURING, DURABLE, PRIMARY METALS	BILL CONSTANT \$	TRANSFORMATION
INVEST	370	T	CAPITAL STOCK, FABRICATED METAL PRODUCTS	BILL CONSTANT \$	TRANSFORMATION
INVEST	370	T	CAPITAL STOCK, ELECTRICAL MACHINERY	BILL CONSTANT \$	TRANSFORMATION
INVEST	369	T	CAPITAL STOCK, ELECTRICAL MACHINERY	BILL CONSTANT \$	TRANSFORMATION
INVEST	372	T	CAPITAL STOCK, PEG, RUB, NONAUT. TRANS. EQUIPMENT, MISC. MFG.	BILL CONSTANT \$	TRANSFORMATION
INVEST	371	T	CAPITAL STOCK, MOTOR VEHICLES	BILL CONSTANT \$	TRANSFORMATION
INVEST	377	T	CAPITAL STOCK, INSTRUMENTS	BILL CONSTANT \$	TRANSFORMATION
INVEST	378	T	CAPITAL STOCK, FOOD & BEVERAGES	BILL CONSTANT \$	TRANSFORMATION
INVEST	380	T	CAPITAL STOCK, TOBACCO	BILL CONSTANT \$	TRANSFORMATION
INVEST	379	T	CAPITAL STOCK, TEXTILES	BILL CONSTANT \$	TRANSFORMATION
INVEST	385	T	CAPITAL STOCK, APPAREL	BILL CONSTANT \$	TRANSFORMATION
INVEST	380	T	CAPITAL STOCK, PAPER	BILL CONSTANT \$	TRANSFORMATION
INVEST	387	T	CAPITAL STOCK, PRINTING & PUBLISHING	BILL CONSTANT \$	TRANSFORMATION
INVEST	381	T	CAPITAL STOCK, CHEMICALS	BILL CONSTANT \$	TRANSFORMATION
INVEST	382	T	CAPITAL STOCK, PETROLEUM	BILL CONSTANT \$	TRANSFORMATION
INVEST	383	T	CAPITAL STOCK, RUBBER	BILL CONSTANT \$	TRANSFORMATION
INVEST	386	T	CAPITAL STOCK, LEATHER	BILL CONSTANT \$	TRANSFORMATION
INVEST	387	T	CAPITAL STOCK, TIMBER	BILL CONSTANT \$	TRANSFORMATION
INVEST	390	T	CAPITAL STOCK, COMMUNICATIONS	BILL CONSTANT \$	TRANSFORMATION
INVEST	388	T	CAPITAL STOCK, TRANSPORTATION	BILL CONSTANT \$	TRANSFORMATION
INVEST	390	T	CAPITAL STOCK, UTILITIES	BILL CONSTANT \$	TRANSFORMATION
INVEST	683	T	STOCK, NONFARM RESIDENTIAL STRUCTURES	BILL CONSTANT \$	TRANSFORMATION
INVEST	421	T	INVENTORY STOCK, TOBACCO	BILL CONSTANT \$	SCH 5.10
INVEST	450	R	INVENTORY STOCK, NONFARM, MANUFACTURING, TOTAL	BILL CONSTANT \$	SCH 5.10
INVEST	451	R	INVENTORY STOCK, NONFARM, MANUFACTURING, & NON-AUTO	BILL CONSTANT \$	TRANSFORMATION
INVEST	453	R	INVENTORY STOCK, (TOTALS) NEW AND USED AUTOS	BILL CONSTANT \$	TRANSFORMATION

GLOSSARY OF MODEL VARIABLES FOR
THE QUANTIFICATION ANALYSIS AND INDUSTRY MODEL

VARIABLE	CURRENT TYPE	DESCRIPTION	UNITS	SOURCE
KA-SAL-004V	1037 W	U.S. CAPS IN USE, TOTAL, YEAR END	MILL VEHICLES	TRANSFORMATION
KA-SAL-004V	304 T	STOCK OF REAL WEALTH	MILL CONSTANT \$	TRANSFORMATION
KA-SAL-004V	942 T	PERSONAL DISPOSABLE INCOME, NORMAL	MILL CURRENT \$	TRANSFORMATION
KA-SAL-004V	1020 T	STOCK OF PERSONAL SAVINGS	YEARS	TRANSFORMATION
LA-004V	750 F	TAX LIFE, INVESTMENT, FARM	YEARS	TRANSFORMATION
LA-004V	1040 F	TAX LIFE, INVESTMENT, COMMERCIAL & OTHER	YEARS	TRANSFORMATION
LA-004V	750 F	TAX LIFE, INVESTMENT, LUMBER	YEARS	TRANSFORMATION
LA-004V	735 F	TAX LIFE, INVESTMENT, FURNITURE	YEARS	TRANSFORMATION
LA-004V	732 F	TAX LIFE, INVESTMENT, STONE, CLAY & GLASS	YEARS	TRANSFORMATION
LA-004V	733 F	TAX LIFE, INVESTMENT, PRIMARY METALS	YEARS	TRANSFORMATION
LA-004V	729 F	TAX LIFE, INVESTMENT, FABRICATED METAL PRODUCTS	YEARS	TRANSFORMATION
LA-004V	728 F	TAX LIFE, INVESTMENT, ELECTRICAL MACHINERY	YEARS	TRANSFORMATION
LA-004V	731 F	TAX LIFE, INVESTMENT, NONMETAL TRANS EQUIP + ORD + MISC MFG	YEARS	TRANSFORMATION
LA-004V	730 F	TAX LIFE, INVESTMENT, MOTOR VEHICLES	YEARS	TRANSFORMATION
LA-004V	736 F	TAX LIFE, INVESTMENT, INSTRUMENTS	YEARS	TRANSFORMATION
LA-004V	737 F	TAX LIFE, INVESTMENT, FOOD & BEVERAGES	YEARS	TRANSFORMATION
LA-004V	703 F	TAX LIFE, INVESTMENT, TOBACCO	YEARS	TRANSFORMATION
LA-004V	704 F	TAX LIFE, INVESTMENT, TEXTILES	YEARS	TRANSFORMATION
LA-004V	705 F	TAX LIFE, INVESTMENT, APPAREL	YEARS	TRANSFORMATION
LA-004V	706 F	TAX LIFE, INVESTMENT, PAPER	YEARS	TRANSFORMATION
LA-004V	707 F	TAX LIFE, INVESTMENT, CHEMICALS	YEARS	TRANSFORMATION
LA-004V	708 F	TAX LIFE, INVESTMENT, PETROLEUM	YEARS	TRANSFORMATION
LA-004V	709 F	TAX LIFE, INVESTMENT, RUBBER	YEARS	TRANSFORMATION
LA-004V	710 F	TAX LIFE, INVESTMENT, LEATHER	YEARS	TRANSFORMATION
LA-004V	726 E	TAX LIFE, INVESTMENT, MINING	YEARS	TRANSFORMATION
LA-004V	709 F	TAX LIFE, INVESTMENT, COMMUNICATIONS	YEARS	TRANSFORMATION
LA-004V	707 F	TAX LIFE, INVESTMENT, TRANSPORTATION	YEARS	TRANSFORMATION
LA-004V	708 F	TAX LIFE, INVESTMENT, UTILITIES	YEARS	TRANSFORMATION
LA-004V	1188 T	AVG. MILES PER GALLON, CITY & HWY DRVG, NEW CARS	MPG	TRANSFORMATION
LA-004V	1048 T	ALL CARS TOTAL	MILES/GALLON	TRANSFORMATION
LA-004V	1186 F	ALL CARS TOTAL	MILES PER GAL	TRANSFORMATION
LA-004V	1187 F	ALL CARS TOTAL	MILES PER GAL	TRANSFORMATION
LA-004V	1160 F	ALL CARS TOTAL	THOUSANDS	TRANSFORMATION
LA-004V	1326 F	ALL CARS TOTAL	\$ PER HOUR	TRANSFORMATION
LA-004V	1055 T	REAL EFFECTIVE FINESTOCK WAGE	YEARS	TRANSFORMATION
LA-004V	942 F	AVERAGE AGE OF THE STOCK OF CARS	MILLIONS	TRANSFORMATION
LA-004V	967 F	NUMBER OF U.S. FAMILIES, CENSUS DEFINITION	THOUSANDS	TRANSFORMATION
LA-004V	905 F	UNEMPLOYMENT RATE, RESTRICTIONAL HOUSING UNITS, INC. UNEMPLOYED	PERCENT	TRANSFORMATION
LA-004V	953 F	NUMBER OF U.S. UNEMPLOYED INDIVIDUALS, CENSUS DEFINITION	THOUSANDS	TRANSFORMATION
LA-004V	1301 F	EMPLOYEES OF GOV. PAYROLLS, CONTRACT CONSTRUCTION	THOUSANDS	TRANSFORMATION
LA-004V	1347 T	EMPLOYEES OF GOV. PAYROLLS, CONTRACT CONSTRUCTION	THOUSANDS	TRANSFORMATION
LA-004V	224 T	EMPLOYEES OF GOV. PAYROLLS, CONTRACT CONSTRUCTION	THOUSANDS	TRANSFORMATION
LA-004V	1300 T	EMPLOYEES OF GOV. PAYROLLS, CONTRACT CONSTRUCTION	THOUSANDS	TRANSFORMATION
LA-004V	830 T	EMPLOYEES OF GOV. PAYROLLS, CONTRACT CONSTRUCTION	THOUSANDS	TRANSFORMATION
LA-004V	220 T	EMPLOYEES OF GOV. PAYROLLS, CONTRACT CONSTRUCTION	THOUSANDS	TRANSFORMATION
LA-004V	223 T	EMPLOYEES OF GOV. PAYROLLS, CONTRACT CONSTRUCTION	THOUSANDS	TRANSFORMATION

GLOSSARY OF MODEL VARIABLES FOR
THE CURRENT ANNUAL AND INDUSTRY MODEL

VARIABLE	UNIT	DESCRIPTION	UNIT	SOURCE
NETTIN	435 T	EMPLOYEES ON AGRICULTURAL PAYROLLS, MANUFACTURING	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	433 T	EMPLOYEES ON AGRICULTURAL PAYROLLS, MANUFACTURING, DURABLES	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	1450 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & ACCESSORIES	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	332 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & WOOD PRODUCTS	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	333 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & FURNITURE	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	330 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & GLASS PROD	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	326 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & METAL INDUSTRIES	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	331 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & ELECTRICAL	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	328 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & MACHINERY, EXC ELECTRICAL	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	327 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & SUPPLIES	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	1443 R	EMPLOYEES ON DRYAG PAY, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	329 R	EMPLOYEES ON DRYAG PAY, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	1451 R	EMPLOYEES ON DRYAG PAY, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	330 R	EMPLOYEES ON DRYAG PAY, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	430 T	EMPLOYEES ON AGRICULTURAL PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	336 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	302 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	337 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	303 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	334 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	304 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	339 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	300 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	301 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	425 R	EMPLOYEES ON AGRICULTURAL PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	1332 T	EMPLOYEES ON AGRICULTURAL PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	226 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	225 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	1305 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	1306 R	EMPLOYEES ON DRYAG PAYROLLS, MFG, DUR, DURABLE & OTHER TRAN EQUIP	THOUSANDS	EMPLOYEARN-U.S.
NETTIN	224 R	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 16 - 19 YEARS OLD	THOUSANDS	EMPLOYEARN - JAN
NETTIN	1357 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 16 - 19 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1358 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 16 - 19 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1359 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 20 - 24 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1360 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 25 - 34 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1361 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 35 - 44 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1362 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 45 - 54 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1363 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 55 - 64 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1364 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 65 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1371 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 16 - 19 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1351 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 16 - 19 YEARS OLD	MILLIONS	TRANSFORMATION
NETTIN	1362 T	CIVILIAN LABOR FORCE, EMPLOYED, AGRICULTURE, 20 - 24 YEARS OLD	MILLIONS	TRANSFORMATION

THE GLOSSARY OF INDUSTRIAL AND AGRICULTURAL VARIETALS FOR THE CANNABIS INDUSTRY

QUANTITY	UNIT TYPE	DESCRIPTION	UNITS	SOURCE
1201	T	CIV NONINSTITUTIONAL POPULATION, AGES 16-19	MILLIONS	RLS
1300	T	CIVILIAN INSTITUTIONAL POPULATION, AGES 16-19	MILLIONS	TRANSFORMATION
1292	T	CIV NONINSTITUTIONAL POPULATION, AGES 20-24	MILLIONS	RLS
1293	T	CIV NONINSTITUTIONAL POPULATION, AGES 25-34	MILLIONS	RLS
1294	T	CIV NONINSTITUTIONAL POPULATION, AGES 35-44	MILLIONS	RLS
1295	T	CIV NONINSTITUTIONAL POPULATION, AGES 45-54	MILLIONS	RLS
1296	T	CIV NONINSTITUTIONAL POPULATION, AGES 55-64	MILLIONS	RLS
1297	T	CIV NONINSTITUTIONAL POPULATION, AGES 65 & OVER	MILLIONS	RLS
160	T	CIVILIAN RESIDENT POPULATION, TOTAL (AGE 16 AND OVER)	MILLIONS	CUR POP REP P-25
131	F	BIRTH RATE BY AGE OF MOTHER, TOTAL	BIRTHS PER 1000	MIN VITAL STAT
1324	F	BIRTH RATE BY AGE OF MOTHER, AGES 15 - 19	BIRTHS PER 1000	MIN VITAL STAT
1325	F	BIRTH RATE BY AGE OF MOTHER, AGES 20 - 24	MILLIONS	MR OF LABOR STAT
1107	H	SCHOOL ENROLLMENT, FEMALES, AGES 16-19	MILLIONS	MR OF LABOR STAT
1108	H	SCHOOL ENROLLMENT, FEMALES, 20-24	MILLIONS	MR OF LABOR STAT
1109	H	SCHOOL ENROLLMENT, MALES, 16-17	MILLIONS	MR OF LABOR STAT
1109	H	SCHOOL ENROLLMENT, MALES, AGES 16-19	MILLIONS	MR OF LABOR STAT
1105	H	SCHOOL ENROLLMENT, MALES, 18-19	MILLIONS	MR OF LABOR STAT
1106	H	SCHOOL ENROLLMENT, MALES, AGES 20-24	MILLIONS	MR OF LABOR STAT
1192	T	SCHOOL ENROLLMENT RATE, FEMALES, AGES 16-19	PERCENT	TRANSFORMATION
1193	T	SCHOOL ENROLLMENT RATE, FEMALES, AGES 20-24	PERCENT	TRANSFORMATION
1190	T	SCHOOL ENROLLMENT RATE, MALES, AGES 16-17	PERCENT	TRANSFORMATION
1200	T	SCHOOL ENROLLMENT RATE, MALES, AGES 16-19	PERCENT	TRANSFORMATION
1190	T	SCHOOL ENROLLMENT RATE, MALES, AGES 18-19	PERCENT	TRANSFORMATION
1191	T	SCHOOL ENROLLMENT RATE, MALES, AGES 20-24	PERCENT	TRANSFORMATION
946	T	TOTAL POPULATION INCLUDING ARMED FORCES OVERSEAS (JULY 1)	MILLIONS	CUR POP REP P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 16-17	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 18-19	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 20 TO 24	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 25 TO 29	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 30 TO 34	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 35 TO 39	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 40 TO 44	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 45 TO 49	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 50 TO 54	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 55 TO 59	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 60 TO 64	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 65 TO 69	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 70 TO 74	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 75 TO 79	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 80 TO 84	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 85 TO 89	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 90 TO 94	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 95 TO 99	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 100 TO 104	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 105 TO 109	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 110 TO 114	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 115 TO 119	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 120 TO 124	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 125 TO 129	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 130 TO 134	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 135 TO 139	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 140 TO 144	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 145 TO 149	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 150 TO 154	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 155 TO 159	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 160 TO 164	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 165 TO 169	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 170 TO 174	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 175 TO 179	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 180 TO 184	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 185 TO 189	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 190 TO 194	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 195 TO 199	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 200 TO 204	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 205 TO 209	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 210 TO 214	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 215 TO 219	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 220 TO 224	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 225 TO 229	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 230 TO 234	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 235 TO 239	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 240 TO 244	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 245 TO 249	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 250 TO 254	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 255 TO 259	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 260 TO 264	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 265 TO 269	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 270 TO 274	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 275 TO 279	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 280 TO 284	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 285 TO 289	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 290 TO 294	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 295 TO 299	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 300 TO 304	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 305 TO 309	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 310 TO 314	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 315 TO 319	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 320 TO 324	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 325 TO 329	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 330 TO 334	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 335 TO 339	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 340 TO 344	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 345 TO 349	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 350 TO 354	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 355 TO 359	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 360 TO 364	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 365 TO 369	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 370 TO 374	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 375 TO 379	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 380 TO 384	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 385 TO 389	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 390 TO 394	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 395 TO 399	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 400 TO 404	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 405 TO 409	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 410 TO 414	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 415 TO 419	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 420 TO 424	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 425 TO 429	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 430 TO 434	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 435 TO 439	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 440 TO 444	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 445 TO 449	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 450 TO 454	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 455 TO 459	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 460 TO 464	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 465 TO 469	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 470 TO 474	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 475 TO 479	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 480 TO 484	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 485 TO 489	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 490 TO 494	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 495 TO 499	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 500 TO 504	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 505 TO 509	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 510 TO 514	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 515 TO 519	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 520 TO 524	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 525 TO 529	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 530 TO 534	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 535 TO 539	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 540 TO 544	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 545 TO 549	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 550 TO 554	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 555 TO 559	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 560 TO 564	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 565 TO 569	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 570 TO 574	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 575 TO 579	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 580 TO 584	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 585 TO 589	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 590 TO 594	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 595 TO 599	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 600 TO 604	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 605 TO 609	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 610 TO 614	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 615 TO 619	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 620 TO 624	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 625 TO 629	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 630 TO 634	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 635 TO 639	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 640 TO 644	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 645 TO 649	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 650 TO 654	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 655 TO 659	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 660 TO 664	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 665 TO 669	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 670 TO 674	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 675 TO 679	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 680 TO 684	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 685 TO 689	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 690 TO 694	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 695 TO 699	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 700 TO 704	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 705 TO 709	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 710 TO 714	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 715 TO 719	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 720 TO 724	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 725 TO 729	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 730 TO 734	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 735 TO 739	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 740 TO 744	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 745 TO 749	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 750 TO 754	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 755 TO 759	MILLIONS	CENSUS P-25
1508	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 760 TO 764	MILLIONS	CENSUS P-25
1509	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 765 TO 769	MILLIONS	CENSUS P-25
1500	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 770 TO 774	MILLIONS	CENSUS P-25
1501	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 775 TO 779	MILLIONS	CENSUS P-25
1502	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 780 TO 784	MILLIONS	CENSUS P-25
1503	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 785 TO 789	MILLIONS	CENSUS P-25
1504	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 790 TO 794	MILLIONS	CENSUS P-25
1505	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 795 TO 799	MILLIONS	CENSUS P-25
1506	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 800 TO 804	MILLIONS	CENSUS P-25
1507	F	TOTAL POP., INCL. ARMED FORCES OVERSEAS, FEMALE, AGES 805 TO 80		

THE GLOSSARY OF NATIONAL ACCOUNTS FOR
THE QUARTERLY ANNUAL AND INDUSTRIAL MODEL

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
PCE1	653	I	IMPLICIT DEFATOR, PERSONAL CONSUMP	1972 = 100.	SCH 7.12 - L016
PCE1C	555	H	IMPL DEF, PERSONAL CONSUMP EXPEND, NONDURABLE GOODS	1972 = 100.	SCH 7.12 - L023
PCE1CND	1110	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1007	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1133	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	550	H	IMPLICIT DEFATOR, PERSONAL CONSUMP EXPEND, NONDURABLES, FOOD	1972 = 100.	SCH 7.12 - L017
PCE1CND	1109	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1006	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1132	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	556	H	IMPL DEF, PERSONAL CONSUMP EXPEND, NONDURABLES, GASOLINE & OIL	1972 = 100.	SCH 7.12 - L027
PCE1CND	1111	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1008	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1134	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	557	H	IMPL DEF, PERS CONSP EXPEND, NONDUR, OTHER (FUEL OIL + OTHER)	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1112	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1009	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1135	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	650	I	IMPLICIT DEFATOR, PERSONAL CONSUMP EXPEND, SERVICES, HOUSING	1972 = 100.	SCH 7.12 - L037
PCE1CND	558	H	IMPL DEF, PERSONAL CONSUMP EXPEND, SERVICES, HOUSING	1972 = 100.	SCH 7.12 - L038
PCE1CND	1113	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1000	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1136	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	561	H	IMPL DEF, PERSONAL CONSUMP EXPEND, SERVICES, OTHER	1972 = 100.	SCH 7.12 - L060
PCE1CND	1116	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1003	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1137	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	559	H	IMPL DEF, PERSONAL CONSUMP EXPEND, SERVICES, HSOLD OPERATION	1972 = 100.	SCH 7.12 - L043
PCE1CND	1114	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1001	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1137	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	560	H	IMPL DEF, PERSONAL CONSUMP EXPEND, SERVICES, TRANSPORTATION	1972 = 100.	SCH 7.12 - L050
PCE1CND	1115	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1002	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1138	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	305	I	IMPLICIT DEFATOR, GROSS NATIONAL PRODUCT	1972 = 100.	SCH 7.1
PCE1CND	560	H	IMPL DEF, GOVT PURCHASES OF GOODS & SERVICES, FEDERAL	1972 = 100.	SCH 7.1
PCE1CND	1119	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1005	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1142	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	565	H	IMPL DEF, GOVT PURCHASES OF GOODS & SERVICES, STATE & LOCAL	1972 = 100.	SCH 7.1
PCE1CND	1120	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1007	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1143	I	IMPORTED FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	654	I	IMPLICIT DEFATOR, GOVERNMENT PURCHASES OF GOODS & SERVICES	1972 = 100.	SCH 7.1
PCE1CND	562	H	IMPL DEF, GOVERNMENT PURCHASES OF GOODS & SERVICES	1972 = 100.	SCH 7.1
PCE1CND	1117	I	DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION
PCE1CND	1004	I	FST, DOMESTIC FINAL DEMAND DEFATOR	INDEX = 1972=100	TRANSFORMATION

ACCOUNT	NUMBER	TYPE	D E S C R I P T I O N	U N I T S	S O U R C E
EXPENSES	1140	I	IMPORTED FUEL OF "A" AND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	960	R	EXPLICIT DEFULATOR, FIXED INVESTMENT, RESIDENTIAL	1972 = 100.	SCH 7.1
EXPENSES	1114	I	DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	780	F	IMPORTED FUEL, FIXED INVEST, RESIDENTIAL, PRODUCTS, OUR EQUIP	1972 = 100.	SCH 7.1
EXPENSES	573	F	EXPLICIT DEFULATOR, FIXED INVEST, RESIDENTIAL, FARM STRUCTURES	1972 = 100.	SCH 7.1
EXPENSES	1095	I	FST, DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1101	I	IMPORTED FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	569	I	EXPLICIT DEFULATOR, FIXED INVEST, RESIDENTIAL, HOMEARM STRUCTURES	1972 = 100.	SCH 7.1
EXPENSES	940	R	EXPLICIT DEFULATOR, INVESTMENT, RES, HOMEARM, MOBILE HOMES	1972=100	SCH 7.15
EXPENSES	1153	R	FST, DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	121	R	EXPLICIT DEFULATOR, GROSS DOMESTIC PRODUCT, GENERAL GOVERNMENT	1972 = 100.	SCH 7.5
EXPENSES	908	R	EXPLICIT DEFULATOR, NATIONAL INCOME	1972 = 100.	SCH 7.6
EXPENSES	823	E	AIR TRAVEL DEFULATOR, DOMESTIC PASSENGER SERVICE	1972 = 100.	TRANSFORMATION
EXPENSES	822	F	AIR TRAVEL DEFULATOR, INTERNATIONAL PASSENGER SERVICE	1972 = 100.	TRANSFORMATION
EXPENSES	563	I	EXPLICIT DEFULATOR, U.S. EXPORTS OF GOODS AND SERVICES	1972 = 100.	SCH 7.1
EXPENSES	873	I	EXPLICIT DEFULATOR, U.S. EXPORTS, SERVICES AND DEFENSE	1972 = 100.	TRANSFORMATION
EXPENSES	1155	R	EXPLICIT DEFULATOR FOR SERVICES PLUS OTHER	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1125	I	DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1102	I	FST, DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1148	I	IMPORTED FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	872	I	EXPLICIT DEFULATOR, U.S. MERCHANDISE EXPORTS, SCHEDULE A, TOTAL	1972 = 100.	TRANSFORMATION
EXPENSES	845	R	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	1122	I	DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1099	I	FST, DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1145	I	IMPORTED FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	844	R	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	1121	I	DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1098	I	FST, DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1104	I	IMPORTED FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	846	R	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	1120	I	DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1101	I	FST, DOMESTIC FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	1147	I	IMPORTED FUEL DEMAND DEFULATOR	INDEX= 1972=100	TRANSFORMATION
EXPENSES	795	F	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	120	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	821	F	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	916	F	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	900	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	905	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	902	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	903	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	904	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	905	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	906	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	907	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	908	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	909	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	910	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	911	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	912	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	913	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	914	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	915	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	916	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	917	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	918	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	919	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION
EXPENSES	920	I	EXPLICIT DEFULATOR, U.S. DOMESTIC EXPORTS, CRUDE MATERIALS	1972 = 100.	TRANSFORMATION

THE GLOSSARY OF MODEL VARIABLES FOR THE CHARTER OF ANNUAL AND INDUSTRY MODEL

VARIABLE	NUMBER TYPE	DESCRIPTION	UNITS	SOURCE
TECH13	863 F	U.S. MERCHANDISE EXPORTS, FMD-USE, AUTOMOTIVE VEHICLES & PARTS	BILL CURRENT \$	SCR ROP 3-035
TECH14	1001 F	U.S. INT'L TRANSACTIONS, UNILATERAL TRANSFERS EXCL MTL GRANTS, NET	BILL CURRENT \$	SCR ROP 2-35
TECH15	790 F	WORLD TRADE, VOLUME	1972 = 100.	TRANSFORMATION
TECH16	87 T	U.S. IMPORTS OF GOODS AND SERVICES	BILL CONSTANT \$	SCR 1-2
TECH17	630 T	U.S. IMPORTS OF GOODS AND SERVICES	BILL CURRENT \$	SCR 1-1
TECH18	910 F	U.S. IMPORTS, ADJ FACTOR FOR PERCENTS WHEN TRANS(NIA)	BILL CURRENT \$	TRANSFORMATION
TECH19	912 F	U.S. IMPORTS, CONCEPTUAL DIFF BETWEEN CENSUS & ROP MERCHANDISE	BILL CURRENT \$	TRANSFORMATION
TECH20	801 T	U.S. IMPORTS, DIRECT OFFENSE EXPENDITURES	BILL CONSTANT \$	TRANSFORMATION
TECH21	621 F	U.S. IMPORTS, DIRECT OFFENSE EXPENDITURES	BILL CURRENT \$	SCR ROP 1-19
TECH22	917 T	U.S. IMPORTS, MERCHANDISE, ADJUSTED EXCLUDING MILITARY	BILL CONSTANT \$	TRANSFORMATION
TECH23	913 T	U.S. IMPORTS, MERCHANDISE, ADJUSTED EXCLUDING MILITARY	BILL CURRENT \$	SCR ROP 1-1A
TECH24	632 T	U.S. IMPORTS, SERVICES, TOTAL	BILL CONSTANT \$	TRANSFORMATION
TECH25	1165 T	IMPORTS: SERVICES PLUS OTHER: CONSTANT DOLLARS	CONSTANT DOLLARS	TRANSFORMATION
TECH26	1166 T	IMPORTS: SERVICES PLUS OTHER: CURRENT DOLLARS	CURRENT DOLLARS	TRANSFORMATION
TECH27	633 T	U.S. IMPORTS, SERVICES, TOTAL	BILL CURRENT \$	TRANSFORMATION
TECH28	830 R	U.S. IMPORTS, SERVICES, PAYMENTS OF INCOME ON US INVEST ABROAD	BILL CURRENT \$	TRANSFORMATION
TECH29	1005 F	U.S. IMPORTS, SVCS, INVESTMENT PAY, REINVESTED EARNINGS	BILL CURRENT \$	SCR ROP 1-29
TECH30	620 F	U.S. IMPORTS, SERVICES, OTHER	BILL CURRENT \$	TRANSFORMATION
TECH31	843 R	U.S. IMPORTS, SERVICES, TRANSPORTATION, OTHER	BILL CURRENT \$	SCR ROP 1-22
TECH32	841 R	U.S. IMPORTS, SERVICES, TRANSPORTATION, PASSENGER FARES	BILL CURRENT \$	SCR ROP 1-21
TECH33	840 R	U.S. IMPORTS, SERVICES, TRAVEL	BILL CURRENT \$	SCR ROP 1-20
TECH34	631 T	U.S. GENERAL MERCHANDISE IMPORTS, SCHEDULE A SECTIONS, TOTAL	BILL CONSTANT \$	TRANSFORMATION
TECH35	619 T	U.S. GENERAL MERCHANDISE IMPORTS, SCHEDULE A SECTIONS, TOTAL	BILL CURRENT \$	FT990 - TABLE 6A
TECH36	936 R	U.S. GENERAL IMPORTS, SCHED A, FOOD, BEVERAGES, AND TOBACCO	BILL CONSTANT \$	TRANSFORMATION
TECH37	629 T	U.S. GENERAL IMPORTS, SCHED A, FOOD, BEVERAGES AND TOBACCO	BILL CURRENT \$	TRANSFORMATION
TECH38	837 R	U.S. GEN IMPORTS, SCHED A SECTIONS, CRUDE MATERIALS EXCEPT FUEL	BILL CONSTANT \$	TRANSFORMATION
TECH39	915 T	U.S. GENERAL IMPORTS, SCHED A, MINERAL FUELS & LUBRICANTS, ETC.	BILL CURRENT \$	TRANSFORMATION
TECH40	911 T	U.S. GENERAL IMPORTS, SCHED A, MIN FUEL/LUM, OTHER REFINED PRODUCTS	BILL CONSTANT \$	FT990 - TABLE 6A
TECH41	910 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, OTHER REFINED PRODUCTS	BILL CURRENT \$	TRANSFORMATION
TECH42	890 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, COAL, COKE, ETC.	BILL CURRENT \$	TRANSFORMATION
TECH43	906 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, COAL, COKE, ETC.	BILL CONSTANT \$	TRANSFORMATION
TECH44	1171 T	IMPORTS: FUELST OTHER REFINED PRODUCTS + OTHER FUELS: CONSTANT \$	CONSTANT DOLLARS	TRANSFORMATION
TECH45	1172 T	IMPORTS: FUELST OTHER REFINED PRODUCTS + OTHER FUELS: CURRENT \$	CURRENT DOLLARS	TRANSFORMATION
TECH46	886 T	U.S. GEN IMPORTS, SCHED A, MINERAL FUEL/LUM, COAL, COKE, ETC.	BILL CURRENT \$	FT-150
TECH47	907 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, PETROLEUM, CRUDE	BILL CONSTANT \$	TRANSFORMATION
TECH48	887 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, PETROLEUM, CRUDE	BILL CURRENT \$	FT-150
TECH49	908 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, RESIDUAL FUEL OILS	BILL CONSTANT \$	TRANSFORMATION
TECH50	888 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, RESIDUAL FUEL OILS	BILL CURRENT \$	FT-150
TECH51	909 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, CAS, NATURAL & WEG'D	BILL CONSTANT \$	TRANSFORMATION
TECH52	889 T	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, CAS, NATURAL & WEG'D	BILL CURRENT \$	FT-150
TECH53	630 T	U.S. GENERAL IMPORTS, SCHED A SECTIONS, MANUFACTURED GOODS	BILL CONSTANT \$	TRANSFORMATION
TECH54	618 T	U.S. GENERAL IMPORTS, SCHED A SECTIONS, MANUFACTURED GOODS	BILL CURRENT \$	TRANSFORMATION
TECH55	838 R	U.S. GEN IMPORTS, SCHED A, MANUFACTURED GOODS MINUS FMD-USE AUTO	BILL CONSTANT \$	TRANSFORMATION
TECH56	800 F	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, OTHER REFINED	MILLIONS BARRELS	TRANSFORMATION
TECH57	876 F	U.S. GEN IMPORTS, SCHED A, MIN FUEL/LUM, COAL, COKE, ETC.	MILLIONS TONS	TRANSFORMATION
TECH58	877 F	U.S. GEN IMPORTS, MINERAL FUEL/LUM, CRUDE PETROLEUM	MILLIONS BARRELS	TRANSFORMATION
TECH59	878 F	U.S. GEN IMPORTS, MINERAL FUEL/LUM, REFINED, RESIDUAL FUEL OIL	MILLIONS BARRELS	TRANSFORMATION

THE GLASSARY OF "MODEL VARIANTS FOR THE PRODUCTION ANNUAL AND INDUSTRY MODEL

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNIT	SOURCE
TOUGTS	870	F	U.S. GFC IMPORTS, SCHED A, WITH FUEL/BLUR, NATURAL GAS	BILL CUBIC FEET	AMERICAN GAS ASS
TOUGTS	867	F	U.S. MERCHANDISE IMPORTS, END-USE, AUTOMOTIVE VEHICLES & PARTS	BILL CURRENT \$	SCR HUP 3-DAG
TOUGTS	816	F	U.S. MERCHANDISE IMPORTS, END-USE, AUTOS & PARTS, FROM CANADA	BILL CURRENT \$	SCR HUP 3-DAS
TOUGTS	898	F	RATIO, CANADIAN IMPORTED AUTOS TO TOTAL AUTOM PART CONSUMPTION	RATIO	TRANSFORMATION
TOUGTS	617	F	U.S. MERCHANDISE IMPORTS, END-USE, AUTOPARTS, EXCEPT CANADIAN	BILL CURRENT \$	TRANSFORMATION
TOUGTS	899	F	RATIO, NON-CANADIAN IMPORTED AUTOS TO TOTAL AUTOPART CONSUMPTION	RATIO	TRANSFORMATION
TOUGTS	465	F	TRANSFER PAYMENTS, BUSINESS	BILL CURRENT \$	SCR 1.9
TOUGTS	543	F	FED GOVT EXPEND, TRANSFER PAYMENTS, TOTAL	BILL CURRENT \$	SCR 3.2
TOUGTS	542	F	FED GOVT EXPEND, TRANSFER PAYMENTS, TO FOREIGNERS	BILL CURRENT \$	SCR 3.2
TOUGTS	1175	F	FEDERAL GOVT EXPENDITURES, TRANSFER PAYMENTS, TO PERSONS	BILL CURRENT \$	SCR 3.2
TOUGTS	492	F	FED GOVT EXPEND, TRANSFER PAYMENTS, TO PERSONS	BILL CURRENT \$	SCR 3.2
TOUGTS	1010	F	FED GOVT EXPEND, TRANSFER PAY, TO PERSONS, FOOD STAMP BENEFITS	BILL CONSTANT \$	TRANSFORMATION
TOUGTS	1177	F	FED GOVT EXPEND, TRANSFERS TO PER, MIL RETIRE + VETERAN BENEFIT	BILL CONSTANT \$	TRANSFORMATION
TOUGTS	1174	F	FED GOVT EXPEND, TRANSFER PAY, OTHER*	BILL CONSTANT \$	TRANSFORMATION
TOUGTS	1015	F	FED GOVT EXPEND, TRANSFER PAY, TO PERSONS, MEDICARE	BILL CONSTANT \$	TRANSFORMATION
TOUGTS	1176	F	FED GOVT EXPEND, TRANSFER TO PERSONS, SOC SEC BENEFITS	BILL CONSTANT \$	TRANSFORMATION
TOUGTS	1179	F	ST & LOCAL GOVT EXPENDITURES, TRANSFER PAYMENTS TO PERSONS	BILL CURRENT \$	SCR 3.4
TOUGTS	495	F	STANDARD GOVT EXPENDITURES, TRANSFER PAYMENTS TO PERSONS	BILL CURRENT \$	SCR 2.1
TOUGTS	540	F	PERSONAL TRANSFER PAYMENTS TO FOREIGNERS, NET	BILL CONSTANT \$	TRANSFORMATION
TOUGTS	497	F	TRANSFER PAYMENTS TO PERSONS, TOTAL	BILL CURRENT \$	SCR 2.1
TOUGTS	498	F	TRANSFER PAYMENTS TO PERSONS, GOVT UNEMPLOYMENT INSURANCE	BILL CONSTANT \$	TRANSFORMATION
TOUGTS	491	F	TRANSFER PAYMENTS TO PERSONS, GOVT UNEMPLOYMENT INSURANCE	BILL CURRENT \$	SCR 2.1
TOUGTS	464	F	INDIRECT BUSINESS TAXES AND MONTAX LIABILITY	BILL CURRENT \$	SCR 1.9
TOUGTS	471	F	FEDERAL GOVT RECEIPTS, INDIRECT BUSINESS TAX & MONTAX ACCRUALS	BILL CURRENT \$	SCR 1.2
TOUGTS	951	F	IMPLICIT TAX RATE, FEDERAL, NON GAS TAX BUS TAX COLLECTIONS	PERCENT	TRANSFORMATION
TOUGTS	807	F	FED GOVT RECEIPTS, IND BUS TAX & MONTAX, EXCISE TAXES, GASOLINE	BILL CURRENT \$	TRANSFORMATION
TOUGTS	1173	F	FED GOVT REC, INDIRECT BUSINESS TAXES, ENERGY BILL RECEIPTS	BILL CURRENT \$	WHARTON F.F.A.
TOUGTS	476	F	STANDARD RECEIPTS, INDIRECT BUSINESS TAX AND MONTAX ACCRUALS	BILL CURRENT \$	SCR 3.4
TOUGTS	950	F	IMPLICIT TAX RATE, ST & LOCAL, NON GAS TAX BUS TAX COLLECTIONS	PERCENT	TRANSFORMATION
TOUGTS	403	F	STANDARD RECEIPTS, IND BUS TAX & MONTAX, SALES TAXES, GASOLINE	BILL CURRENT \$	TRANSFORMATION
TOUGTS	402	F	FEDERAL GOVT RECEIPTS, CORPORATE PROFITS TAX ACCRUALS	BILL CURRENT \$	SCR 3.2
TOUGTS	404	F	STATE & LOCAL GOVT RECEIPTS, CORPORATE PROFITS TAX ACCRUALS	BILL CURRENT \$	SCR 3.4
TOUGTS	460	F	CORPORATE PROFITS TAX LIABILITY, TOTAL	BILL CURRENT \$	SCR 1.13
TOUGTS	535	F	PERSONAL TAX AND MONTAX LIABILITY, TOTAL	BILL CURRENT \$	SCR 2.1
TOUGTS	523	F	FEDERAL GOVT RECEIPTS, PERSONAL TAX AND MONTAX RECEIPTS	BILL CURRENT \$	SCR 3.2
TOUGTS	511	F	ST & LOCAL GOVT RECEIPTS, PERSONAL TAX & MONTAX RECEIPTS	BILL CURRENT \$	SCR 3.4
TOUGTS	496	F	FEDERAL GOVT RECEIPTS, CONTRIBUTIONS FOR SOCIAL INSURANCE	BILL CURRENT \$	SCR 3.2
TOUGTS	1170	F	FED GOVT REC, CONTRIB FOR SOCIAL INS, TOTAL LESS OASDI CONTRIB	BILL CURRENT \$	TRANSFORMATION
TOUGTS	1160	F	FED GOVT REC, CONTRIB FOR SOCIAL INS, TOTAL, OASDI	BILL CURRENT \$	TRANSFORMATION
TOUGTS	502	F	STANDARD GOVT RECEIPTS, CONTRIBUTIONS FOR SOCIAL INSURANCE	BILL CURRENT \$	SCR 3.4
TOUGTS	505	F	CONTRIBUTIONS FOR SOCIAL INSURANCE, PERSONAL	BILL CURRENT \$	SCR 2.1
TOUGTS	506	F	RATIO, EMPLOYEE CONTRIBUTIONS FOR SOC. INS, TO TOTAL	PERCENT	TRANSFORMATION
TOUGTS	501	F	CONTRIBUTIONS FOR SOCIAL INSURANCE, TOTAL	BILL CURRENT \$	SCR 1.9
TOUGTS	500	F	PERSONAL FEDERAL TAXES, VALUE OF TOTAL INDIVIDUAL DEDUCTIONS	BILL CURRENT \$	INCOME STATE-FORE
TOUGTS	961	F	PERSONAL TAXES, VALUE OF TOTAL INDIVIDUAL DEDUCTIONS	BILL CURRENT \$	INCOME STATE-FORE
TOUGTS	954	F	PERSONAL TAXES, VALUE OF ITEMIZED DEDUCTIONS PER INDIVIDUAL RETURN	BILL CURRENT \$	TRANSFORMATION
TOUGTS	961	F	PERSONAL TAXES, VALUE OF TOTAL INDIVIDUAL STANDARD DEDUCTIONS	BILL CURRENT \$	TRANSFORMATION

THE BUREAU OF ECONOMIC ANALYSIS AND INDUSTRY MODEL

VARIABLE	UNIT TYPE	DESCRIPTION	UNITS	SOURCE
TAXPERS01	950 F	PERS FED TAXES, VALUE OF STANDARD DEDUCTIONS PER INDIVIDUAL RETURN	THOU CURRENT \$	TRANSFORMATION
TAXPERS02	508 M	PERSONAL FEDERAL TAXES, TOTAL NUMBER OF INDIVIDUAL EXEMPTIONS	MILLIONS	INCOME STAT-FORE
TAXPERS03	513 F	PERSONAL FEDERAL TAXES, VALUE OF AN INDIVIDUAL EXEMPTION	THOU CURRENT \$	INCOME STAT-FORE
TAXPERS04	954 M	PERSONAL FEDERAL TAXES, TOTAL INDIVIDUAL RETURNS	MILLIONS	INCOME STAT-FORE
TAXPERS05	957 T	PERSONAL FED TAXES, INDIVIDUAL RETURNS WITH ITEMIZED DEDUCTIONS	MILLIONS	TRANSFORMATION
TAXPERS06	956 T	PERS FED TAXES, INDIVIDUAL RETURNS W/ STD DEDUCT/NO GROSS INCOME	MILLIONS	INCOME STAT-FORE
TAXPERS07	514 M	PROPORTION OF TAXABLE INCOME TAXED AT THE 1ST BRACKET RATE	RATIO	INCOME STAT-FORE
TAXPERS08	517 M	PROPORTION OF TAXABLE INCOME TAXED AT THE 2ND BRACKET RATE	RATIO	INCOME STAT-FORE
TAXPERS09	518 M	PROPORTION OF TAXABLE INCOME TAXED AT THE 3RD BRACKET RATE	RATIO	INCOME STAT-FORE
TAXPERS10	519 M	PROPORTION OF TAXABLE INCOME TAXED AT THE 4TH BRACKET RATE	RATIO	INCOME STAT-FORE
TAXPERS11	520 M	PROPORTION OF TAXABLE INCOME TAXED AT THE 5TH BRACKET RATE	RATIO	INCOME STAT-FORE
TAXPERS12	521 M	PROPORTION OF TAXABLE INCOME TAXED AT THE 6TH BRACKET RATE	RATIO	INCOME STAT-FORE
TAXPERS13	522 M	PROPORTION OF TAXABLE INCOME TAXED AT THE 7TH BRACKET RATE	RATIO	INCOME STAT-FORE
TAXPERS14	962 M	PROPORTION OF TAXABLE INCOME TAXED AT 8 & OVER BRACKET RATE	RATIO	TRANSFORMATION
TAXPERS15	499 F	WASI, MAXIMUM TAXABLE INDIVIDUAL WAGES AND SALARIES	THOU CURRENT \$	SOC SEC BULLETIN
TAXPERS16	498 E	WASI, RATIO/NUMBER OF EMPLOYEES WHO CONTRIBUTE/TOTAL EMPLOYEES	RATIO	SOC SEC BULLETIN
TAXPERS17	1004 F	TAX RATE, IND BUS TAXES, COMM'L & OTHER, EXCL GAS TAXES	PERCENT	TRANSFORMATION
TAXPERS18	474 J	TAX RATE, INDIRECT BUSINNESS, FEDERAL	PERCENT	TRANSFORMATION
TAXPERS19	1009 F	TAX RATE, INDIRECT BUS TAXES, MFG, MINING, PETROLEUM	PERCENT	TRANSFORMATION
TAXPERS20	1005 E	TAX RATE, INDIRECT BUS TAXES, MINING	PERCENT	TRANSFORMATION
TAXPERS21	477 T	TAX RATE, INDIRECT BUSINNESS, STATE	PERCENT	TRANSFORMATION
TAXPERS22	973 F	PROPERTY TAX RATE, OWNER OCCUPIED RESIDENTIAL STRUCTURES	PERCENT	TRANSFORMATION
TAXPERS23	083 F	TAX RATE, CORPORATE PROFITS, FEDERAL	PERCENT	TRANSFORMATION
TAXPERS24	485 F	TAX RATE, CORPORATE PROFITS, STATE	PERCENT	TRANSFORMATION
TAXPERS25	725 E	EFFECTIVE CORP. TAX RATE, FARM	PERCENT	TRANSFORMATION
TAXPERS26	1439 F	EFFECTIVE CORP. TAX RATE, COMMERCIAL & OTHER	PERCENT	TRANSFORMATION
TAXPERS27	709 F	EFFECTIVE CORP. TAX RATE, FURNITURE	PERCENT	TRANSFORMATION
TAXPERS28	710 F	EFFECTIVE CORP. TAX RATE, STONE, CLAY & GLASS	PERCENT	TRANSFORMATION
TAXPERS29	707 F	EFFECTIVE CORP. TAX RATE, PRIMARY METALS	PERCENT	TRANSFORMATION
TAXPERS30	708 F	EFFECTIVE CORP. TAX RATE, FABRICATED METAL PRODUCTS	PERCENT	TRANSFORMATION
TAXPERS31	704 F	EFFECTIVE CORP. TAX RATE, ELECTRICAL MACHINERY	PERCENT	TRANSFORMATION
TAXPERS32	703 F	EFFECTIVE CORP. TAX RATE, ELECTRICAL MACHINERY	PERCENT	TRANSFORMATION
TAXPERS33	706 F	EFFECTIVE CORP. TAX RATE, NONAUTO TRAVEL EQUIP+INSTRUMENT+MISC MFG	PERCENT	TRANSFORMATION
TAXPERS34	705 F	EFFECTIVE CORP. TAX RATE, MOTOR VEHICLES	PERCENT	TRANSFORMATION
TAXPERS35	711 F	EFFECTIVE CORP. TAX RATE, INSTRUMENTS	PERCENT	TRANSFORMATION
TAXPERS36	712 F	EFFECTIVE CORP. TAX RATE, FOOD & BEVERAGES	PERCENT	TRANSFORMATION
TAXPERS37	718 F	EFFECTIVE CORP. TAX RATE, TOBACCO	PERCENT	TRANSFORMATION
TAXPERS38	713 F	EFFECTIVE CORP. TAX RATE, TEXTILES	PERCENT	TRANSFORMATION
TAXPERS39	719 E	EFFECTIVE CORP. TAX RATE, APPAREL	PERCENT	TRANSFORMATION
TAXPERS40	714 F	EFFECTIVE CORP. TAX RATE, PAPER	PERCENT	TRANSFORMATION
TAXPERS41	721 F	EFFECTIVE CORP. TAX RATE, PRINTING & PUBLISHING	PERCENT	TRANSFORMATION
TAXPERS42	715 F	EFFECTIVE CORP. TAX RATE, CHEMICALS	PERCENT	TRANSFORMATION
TAXPERS43	716 F	EFFECTIVE CORP. TAX RATE, PETROLEUM	PERCENT	TRANSFORMATION
TAXPERS44	717 F	EFFECTIVE CORP. TAX RATE, RUBBER	PERCENT	TRANSFORMATION
TAXPERS45	720 F	EFFECTIVE CORP. TAX RATE, LEATHER	PERCENT	TRANSFORMATION
TAXPERS46	711 F	EFFECTIVE CORP. TAX RATE, OTHER	PERCENT	TRANSFORMATION
TAXPERS47	724 F	EFFECTIVE CORP. TAX RATE, COMMUNICATIONS	PERCENT	TRANSFORMATION

THE SUMMARY OF MODFL VARIABLES FOR THE CHARTER ANNUAL AND INDUSTRY MODFL

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VARIABLE	NUMBER TYPE	DESCRIPTION	UNITS	SOURCE
EXPENSE1	722 F	EFFECTIVE CORP. TAX RATE, TRANSPORTATION	PERCENT	TRANSFORMATION
EXPENSE2	723 F	EFFECTIVE CORP. TAX RATE, UTILITIES	PERCENT	TRANSFORMATION
EXPENSE3	533 F	TAX RATE, PERSONAL INCOME, FEDERAL	PERCENT	TRANSFORMATION
EXPENSE4	970 F	EFFECTIVE PERSONAL INCOME TAX RATE, HOMEOWNERS	PERCENT	TRANSFORMATION
EXPENSE5	980 F	EFFECTIVE PERSONAL INCOME TAX RATE, LANDLORDS	PERCENT	TRANSFORMATION
EXPENSE6	534 F	TAX RATE, PERSONAL INCOME, STATE	PERCENT	TRANSFORMATION
EXPENSE7	1004 F	EFFECTIVE PERS INC TAX RT, ALL STATES WITH INCOME TAX	PERCENT	TRANSFORMATION
EXPENSE8	524 F	PERSONAL INCOME TAX RATE AT 1ST BRACKET	PERCENT	PECHMAN - IRS
EXPENSE9	525 F	PERSONAL INCOME TAX RATE AT 2ND BRACKET	PERCENT	PECHMAN - IRS
EXPENSE10	526 F	PERSONAL INCOME TAX RATE AT 3RD BRACKET	PERCENT	PECHMAN - IRS
EXPENSE11	527 F	PERSONAL INCOME TAX RATE AT 4TH BRACKET	PERCENT	PECHMAN - IRS
EXPENSE12	528 F	PERSONAL INCOME TAX RATE AT 5TH BRACKET	PERCENT	PECHMAN - IRS
EXPENSE13	529 F	PERSONAL INCOME TAX RATE AT 6TH BRACKET	PERCENT	PECHMAN - IRS
EXPENSE14	530 F	PERSONAL INCOME TAX RATE AT 7TH BRACKET	PERCENT	PECHMAN - IRS
EXPENSE15	531 F	PERSONAL INCOME TAX RATE AT 8TH BRACKET	PERCENT	PECHMAN - IRS
EXPENSE16	532 F	PERSONAL INCOME TAX RATE AT 9TH BRACKET	PERCENT	PECHMAN - IRS
EXPENSE17	501 F	TAX RATE, SOCIAL INSURANCE, FEDERAL	PERCENT	TRANSFORMATION
EXPENSE18	503 F	TAX RATE, SOCIAL INSURANCE, STATE	PERCENT	TRANSFORMATION
EXPENSE19	409 F	LAST TAX RATE, SUM OF EMPLOYER AND EMPLOYEE	PERCENT	SOC SEC RULLTIN
EXPENSE20	1043 F	UNIT COST, COST OF OPERATING NEW CARS, TOTAL	\$/MILE	TRANSFORMATION
EXPENSE21	1044 F	UNIT COST, CAPITALIZED PURCHASE COST OF NEW CARS	\$/MILE	TRANSFORMATION
EXPENSE22	1045 F	UNIT COST, OPERATING COST OF NEW CARS, GASOLINE	\$/MILE	TRANSFORMATION
EXPENSE23	1046 F	UNIT COST, OPERATING COST OF NEW CARS, OTHER	\$/MILE	TRANSFORMATION
EXPENSE24	775 F	USER COST OF CAPITAL, FARM		TRANSFORMATION
EXPENSE25	1045 F	USER COST OF CAPITAL, COMMERCIAL & OTHER		TRANSFORMATION
EXPENSE26	750 F	USER COST OF CAPITAL, LUMBER		TRANSFORMATION
EXPENSE27	751 F	USER COST OF CAPITAL, FURNITURE		TRANSFORMATION
EXPENSE28	752 F	USER COST OF CAPITAL, STONE, CLAY & GLASS		TRANSFORMATION
EXPENSE29	753 F	USER COST OF CAPITAL, PRIMARY METALS		TRANSFORMATION
EXPENSE30	754 F	USER COST OF CAPITAL, FABRICATED METAL PRODUCTS		TRANSFORMATION
EXPENSE31	755 F	USER COST OF CAPITAL, NONELECTRICAL MACHINERY		TRANSFORMATION
EXPENSE32	756 F	USER COST OF CAPITAL, ELECTRICAL MACHINERY		TRANSFORMATION
EXPENSE33	757 F	USER COST OF CAPITAL, MOTOR VEHICLES		TRANSFORMATION
EXPENSE34	758 F	USER COST OF CAPITAL, INSTRUMENTS		TRANSFORMATION
EXPENSE35	759 F	USER COST OF CAPITAL, FOOD & BEVERAGES		TRANSFORMATION
EXPENSE36	760 F	USER COST OF CAPITAL, TOBACCO		TRANSFORMATION
EXPENSE37	761 F	USER COST OF CAPITAL, TEXTILES		TRANSFORMATION
EXPENSE38	762 F	USER COST OF CAPITAL, APPAREL		TRANSFORMATION
EXPENSE39	763 F	USER COST OF CAPITAL, PAPER		TRANSFORMATION
EXPENSE40	764 F	USER COST OF CAPITAL, PRINTING & PUBLISHING		TRANSFORMATION
EXPENSE41	765 F	USER COST OF CAPITAL, CHEMICALS		TRANSFORMATION
EXPENSE42	766 F	USER COST OF CAPITAL, PETROLEUM		TRANSFORMATION
EXPENSE43	767 F	USER COST OF CAPITAL, RUBBER		TRANSFORMATION
EXPENSE44	768 F	USER COST OF CAPITAL, LEATHER		TRANSFORMATION
EXPENSE45	769 F	USER COST OF CAPITAL, JEWELRY		TRANSFORMATION
EXPENSE46	770 F	USER COST OF CAPITAL, COMMUNICATIONS		TRANSFORMATION
EXPENSE47	771 F	USER COST OF CAPITAL, TOTAL (EXCL HOME MFG)		TRANSFORMATION
EXPENSE48	772 F	USER COST OF CAPITAL, TOTAL (EXCL HOME MFG)		TRANSFORMATION

THE SUMMARY OF MODEL VARIABLES FOR THE QUARTERLY ANNUAL AND INDUSTRY MODEL

VARIABLE	UNIT	TYPE	DESCRIPTION	UNIT	SOURCE
UNEMPLOY	772	I	USER COST OF CAPITAL, TRANSPORTATION		TRANSFORMATION
UNEMPLOY	773	I	USER COST OF CAPITAL, UTILITIES		TRANSFORMATION
UNEMPLOY	991	I	USER COST, RESIDENTIAL HOUSING UNITS, MONTHLY HOUSES		TRANSFORMATION
UNEMPLOY	972	I	USER COST, OWNER OCCUPIED RESIDENTIAL HOUSING UNITS		TRANSFORMATION
UNEMPLOY	992	I	USER COST, RES HOUSING UNITS, LANDOWN - OWNED		TRANSFORMATION
UNEMPLOY	507	F	FEDERAL GOVERNMENT EXPENDITURES		TRANSFORMATION
UNEMPLOY	669	F	FEDERAL GOVERNMENT LESS DISBURSEMENTS		SCH 1.9
UNEMPLOY	570	F	STRUCTURAL GOVT EXPENDITURES, WAGE ACCRUALS LESS DISBURSEMENTS		SCH 3.2
UNEMPLOY	200	I	EMPLOYEE COMPENSATION, ALL INDUSTRIES		SCH 3.4
UNEMPLOY	192	I	EMPLOYEE COMPENSATION, AGRICULTURE, FORESTRY AND FISHERIES		SCH 1.15
UNEMPLOY	196	I	EMPLOYEE COMPENSATION, COMMERCIAL & OTHER, INCL REST OF WORLD		NEA WORKFILE
UNEMPLOY	197	I	EMPLOYEE COMPENSATION, GOVERNMENT ENTERPRISES		TRANSFORMATION
UNEMPLOY	199	I	EMPLOYEE COMPENSATION, GOVT & GOVT ENTERPRISES, FEDERAL		NEA WORKFILE
UNEMPLOY	42	H	GROSS DOMESTIC PRODUCT (GDP), GENERAL GOVERNMENT (SAME AS OUTPUT)		SCH 1.8
UNEMPLOY	290	I	GROSS DOMESTIC PRODUCT (GDP), GENERAL GOVERNMENT (SAME AS OUTPUT)		SCH 1.7
UNEMPLOY	191	I	EMPLOYEE COMPENSATION, GOVT&GOVT ENTERPRISES, STRUCTURAL		NEA WORKFILE
UNEMPLOY	194	I	EMPLOYEE COMPENSATION, MANUFACTURING		NEA WORKFILE
UNEMPLOY	195	I	EMPLOYEE COMPENSATION, MANUFACTURING, DURABLE GOODS INDUSTRIES		NEA WORKFILE
UNEMPLOY	176	I	EMPLOYEE COMPENSATION, MFG, DUR- LUMBER & WOOD PROD, FURNITURE		NEA WORKFILE
UNEMPLOY	173	I	EMPLOYEE COMPENSATION, MFG, DUR- STONE, CLAY AND GLASS PRODUCTS		NEA WORKFILE
UNEMPLOY	169	I	EMPLOYEE COMPENSATION, MFG, DUR- PRIMARY METALS INDUSTRIES		NEA WORKFILE
UNEMPLOY	174	I	EMPLOYEE COMPENSATION, MFG, DUR- FARRICATED METAL PRODUCTS		NEA WORKFILE
UNEMPLOY	171	I	EMPLOYEE COMPENSATION, MFG, DUR- MACHINERY, EXCEPT ELECTRICAL		NEA WORKFILE
UNEMPLOY	170	I	EMPLOYEE COMPENSATION, MFG, DUR- ELECTRICAL MACHINERY		NEA WORKFILE
UNEMPLOY	178	I	EMPLOYEE COMPENSATION, MFG, DUR- NONAUTO TRANS, EQUIP&MISC MFG		TRANSFORMATION
UNEMPLOY	172	I	EMPLOYEE COMPENSATION, MFG, DUR- TRANS EQ, MOTOR VEH & EQUIP		NEA WORKFILE
UNEMPLOY	177	I	EMPLOYEE COMPENSATION, MFG, DUR- INSTRUMENTS AND PRODUCTS		NEA WORKFILE
UNEMPLOY	190	I	EMPLOYEE COMPENSATION, MANUFACTURING, NONDURABLE GOODS INDS		NEA WORKFILE
UNEMPLOY	179	I	EMPLOYEE COMPENSATION, MFG, NONDUR- FOOD AND KINDRED PROD		NEA WORKFILE
UNEMPLOY	185	I	EMPLOYEE COMPENSATION, MFG, NONDUR- TOBACCO MANUFACTURES		NEA WORKFILE
UNEMPLOY	180	I	EMPLOYEE COMPENSATION, MFG, NONDUR- TEXTILE MILL PRODUCTS		NEA WORKFILE
UNEMPLOY	181	I	EMPLOYEE COMPENSATION, MFG, NONDUR- APPAREL & OTHER TEXTILE PROD		NEA WORKFILE
UNEMPLOY	184	I	EMPLOYEE COMPENSATION, MFG, NONDUR- PAPER AND ALLIED PRODUCTS		NEA WORKFILE
UNEMPLOY	182	I	EMPLOYEE COMPENSATION, MFG, NONDUR- PRINTING AND PUBLISHING		NEA WORKFILE
UNEMPLOY	183	I	EMPLOYEE COMPENSATION, MFG, NONDUR- CHEMICALS AND ALLIED PROD		NEA WORKFILE
UNEMPLOY	184	I	EMPLOYEE COMPENSATION, MFG, NONDUR- PETROLEUM & RELATED INDS		NEA WORKFILE
UNEMPLOY	187	I	EMPLOYEE COMPENSATION, MFG, NONDUR- RUBBER & MISC PLASTICS PRODUCTS		NEA WORKFILE
UNEMPLOY	188	I	EMPLOYEE COMPENSATION, MFG, NONDUR- LEATHER AND LEATHER PRODUCTS		NEA WORKFILE
UNEMPLOY	194	I	EMPLOYEE COMPENSATION, REGULATED, COMMUNICATIONS		NEA WORKFILE
UNEMPLOY	195	I	EMPLOYEE COMPENSATION, REGULATED, ELECTRIC, GAS & SANITARY SVCS		NEA WORKFILE
UNEMPLOY	201	I	COMPENSATION PER EMPLOYEE PER WK, ALL INDUSTRIES		CURRENT \$/WEEK
UNEMPLOY	192	H	COMPENSATION PER EMPLOYEE PER WK, AGRICULTURE, FORESTRY&FISHERIES		CURRENT \$/WEEK
UNEMPLOY	193	H	COMPENSATION PER EMPLOYEE PER WK, COMMERCIAL & OTHER		CURRENT \$/WEEK
UNEMPLOY	194	H	COMPENSATION PER EMPLOYEE PER WK, GOVT & GOVT ENTERPRISES		CURRENT \$/WEEK
UNEMPLOY	195	H	COMPENSATION PER EMPLOYEE PER WK, GOVERNMENT BUS, FEDERAL		CURRENT \$/WEEK

THE GLOSSARY OF MODEL VARIABLES FOR
INDUSTRY MODIFI

VARIABLE	NUMBER	TYPE	DESCRIPTION	UNITS	SOURCE
XVGEF025	14	N	GROSS PRODUCT ORIG MFG, DURABLES FURNITURE AND FIXTURES	HILL CONSTANT \$	NEA WORKFILE
XVGEF026	277	I	VALUE ADDED, W/ INT MFG, DUR FURNITURE & FIXTURES	HILL CURRENT \$	NEA WORKFILE
XVGEF027	19	N	CONSTANT \$ GPOI MFG, DUR STONE, CLAY & GLASS	HILL CONSTANT \$	NEA WORKFILE
XVGEF028	278	I	CURRENT \$ GPOI MFG, DUR STONE, CLAY & GLASS	HILL CURRENT \$	NEA WORKFILE
XVGEF029	20	N	GROSS PRODUCT ORIG MFG, DURABLES PRIMARY METAL INDUSTRIES	HILL CONSTANT \$	NEA WORKFILE
XVGEF030	279	I	VALUE ADDED, W/ INT MFG, DUR PRIMARY METALS	HILL CURRENT \$	NEA WORKFILE
XVGEF031	21	N	GROSS PRODUCT ORIG MFG, DURABLES FABRICATED METAL PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF032	280	I	VALUE ADDED, W/ INT MFG, DUR FABRICATED METAL PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF033	22	N	CONSTANT \$ GPOI MFG, DUR MACHINERY, EXCEPT ELECTRICAL	HILL CONSTANT \$	NEA WORKFILE
XVGEF034	281	I	CURRENT \$ GPOI MFG, DUR MACHINERY, EXCEPT ELECTRICAL	HILL CURRENT \$	NEA WORKFILE
XVGEF035	23	N	CONSTANT \$ GPOI MFG, DUR ELECTRICAL MACHINERY	HILL CONSTANT \$	NEA WORKFILE
XVGEF036	282	I	VALUE ADDED, W/ INT MFG, DUR ELECTRICAL MACHINERY	HILL CURRENT \$	NEA WORKFILE
XVGEF037	24	N	GROSS PRODUCT ORIG MFG, DUR NONAUTO TRANS EXORDINANCE=372.9+19	HILL CONSTANT \$	NEA WORKFILE
XVGEF038	283	I	VALUE ADDED, W/ INT MFG, DUR NONAUTO TRANS EXORDINANCE	HILL CURRENT \$	NEA WORKFILE
XVGEF039	265	I	GROSS PROD ORIG MFG, DUR NONAUTO TRANS+ORD+MISC MF=372.9+19+39	HILL CONSTANT \$	TRANSFORMATION
XVGEF040	284	I	VALUE ADDED, W/ INT MFG, DUR NONAUTO TRANS+ORD+MISC MF=372.9+19+39	HILL CURRENT \$	TRANSFORMATION
XVGEF041	25	N	CONSTANT \$ GPOI MFG, DUR MOTOR VEHICLES & EQUIP.	HILL CONSTANT \$	NEA WORKFILE
XVGEF042	285	I	CURRENT \$ GPOI MFG, DUR MOTOR VEHICLES & EQUIP.	HILL CURRENT \$	NEA WORKFILE
XVGEF043	26	N	GROSS PRODUCT ORIG MFG, DURABLES INSTRUMENTS AND RELATED PROD	HILL CONSTANT \$	NEA WORKFILE
XVGEF044	286	I	VALUE ADDED, W/ INT MFG, DUR INSTRUMENTS & PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF045	27	N	CONSTANT \$ GPOI MFG, DUR MISCELLANEOUS MFG.	HILL CONSTANT \$	NEA WORKFILE
XVGEF046	287	I	CURRENT \$ GPOI MFG, DUR MISCELLANEOUS MFG.	HILL CURRENT \$	NEA WORKFILE
XVGEF047	1002	I	CONSTANT \$ GPOI MANUFACTURING, NONDURABLE GOODS	HILL CONSTANT \$	NEA WORKFILE
XVGEF048	129	I	CURRENT \$ GPOI MANUFACTURING, NONDURABLE GOODS	HILL CURRENT \$	NEA WORKFILE
XVGEF049	7	N	CONSTANT \$ GPOI MFG, DURABLES FOOD & KINDRED PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF050	288	I	VALUE ADDED, W/ INT MFG, DURABLES FOOD & KINDRED PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF051	8	N	CONSTANT \$ GPOI MFG, DURABLES TOBACCO	HILL CONSTANT \$	NEA WORKFILE
XVGEF052	289	I	CURRENT \$ GPOI MFG, DURABLES TOBACCO	HILL CURRENT \$	NEA WORKFILE
XVGEF053	9	N	CONSTANT \$ GPOI MFG, DURABLES TEXTILE MILL PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF054	290	I	VALUE ADDED, W/ INT MFG, DURABLES TEXTILE MILL PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF055	10	N	CONSTANT \$ GPOI MFG, DURABLES APPAREL & RELATED PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF056	291	I	CURRENT \$ GPOI MFG, DURABLES APPAREL & RELATED PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF057	11	N	CONSTANT \$ GPOI MFG, DURABLES PAPER & ALLIED PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF058	292	I	VALUE ADDED, W/ INT MFG, DURABLES PAPER & ALLIED PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF059	12	N	CONSTANT \$ GPOI MFG, DURABLES PRINTING & PUBLISHING	HILL CONSTANT \$	NEA WORKFILE
XVGEF060	293	I	CURRENT \$ GPOI MFG, DURABLES PRINTING & PUBLISHING	HILL CURRENT \$	NEA WORKFILE
XVGEF061	13	N	GROSS PRODUCT ORIG MFG, DURABLES CHEMICALS AND ALLIED PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF062	294	I	VALUE ADDED, W/ INT MFG, DURABLES CHEMICALS & PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF063	14	N	CONSTANT \$ GPOI MFG, DURABLES PETROLEUM & RELATED INDUSTRIES	HILL CONSTANT \$	NEA WORKFILE
XVGEF064	295	I	CURRENT \$ GPOI MFG, DURABLES PETROLEUM & RELATED INDUSTRIES	HILL CURRENT \$	NEA WORKFILE
XVGEF065	15	N	GROSS PRODUCT ORIG MFG, DURABLES RUBBER & MISC PLASTICS PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF066	296	I	VALUE ADDED, W/ INT MFG, DURABLES RUBBER & MISC PLASTICS PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF067	16	N	CONSTANT \$ GPOI MFG, DURABLES LEATHER & LEATHER PRODUCTS	HILL CONSTANT \$	NEA WORKFILE
XVGEF068	297	I	CURRENT \$ GPOI MFG, DURABLES LEATHER & LEATHER PRODUCTS	HILL CURRENT \$	NEA WORKFILE
XVGEF069	17	N	CONSTANT \$ GPOI TOTAL MANUFACTURING	HILL CONSTANT \$	TRANSFORMATION
XVGEF070	298	I	VALUE ADDED, W/ INT MFG, DURABLES TOTAL MANUFACTURING	HILL CURRENT \$	TRANSFORMATION
XVGEF071	18	N	CONSTANT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CONSTANT \$	NEA WORKFILE
XVGEF072	299	I	CURRENT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CURRENT \$	NEA WORKFILE
XVGEF073	19	N	CONSTANT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CONSTANT \$	NEA WORKFILE
XVGEF074	300	I	CURRENT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CURRENT \$	NEA WORKFILE
XVGEF075	20	N	CONSTANT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CONSTANT \$	NEA WORKFILE
XVGEF076	301	I	CURRENT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CURRENT \$	NEA WORKFILE
XVGEF077	21	N	CONSTANT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CONSTANT \$	NEA WORKFILE
XVGEF078	302	I	CURRENT \$ GPOI MFG, DURABLES TOTAL MANUFACTURING	HILL CURRENT \$	NEA WORKFILE

THE CHARTER OF MODEL VARIETIES FOR
THE CHARTER OF ANNUAL AND INDUSTRY MODEL

VARIABLE	FORMER TYPE	DESCRIPTION	UNIT	SOURCE
AVG1111P	3 H	CONSTANT & GROSS MINING, COAL	HILL CONSTANT \$	HFA WORKFILE
AVG1111S	3 H	CONSTANT & GROSS MINING, CRUDE PETROLEUM & NATURAL GAS	HILL CONSTANT \$	HFA WORKFILE
AVG1111T	3 H	CONSTANT & GROSS MINING, NON-METALLIC MINERALS	HILL CONSTANT \$	HFA WORKFILE
AVG1111V	45 H	GROSS PRODUCT PRICE DUMMY INDUSTRIES, INVENTORY VALUATION ADJ	HILL CONSTANT \$	BY DEFINITION=0
AVG1111W	35 H	GROSS PRODUCT PRICE DUMMY INDUSTRIES, IMPORTS OF GOODS & SERVICES	HILL CONSTANT \$	BY DEFINITION=0
AVG1111X	287 T	CONSTANT & GROSS COMMUNICATIONS, TOTAL	HILL CURRENT \$	HFA WORKFILE
AVG1111Y	289 T	CURRENT & GROSS COMMUNICATIONS, TOTAL	HILL CURRENT \$	HFA WORKFILE
AVG1111Z	289 T	CURRENT & GROSS TRANSPORTATION, TOTAL	HILL CURRENT \$	HFA WORKFILE
AVG1111A	289 H	CONSTANT & GROSS TRANSPORTATION, RAILROADS	HILL CONSTANT \$	HFA WORKFILE
AVG1111B	29 H	CONSTANT & GROSS TRANSPORTATION, LOCAL & HIGHWAY PASSENGER	HILL CONSTANT \$	HFA WORKFILE
AVG1111C	30 H	CONSTANT & GROSS TRANSPORTATION, MOTOR FREIGHT & WAREHOUSING	HILL CONSTANT \$	HFA WORKFILE
AVG1111D	31 H	CONSTANT & GROSS TRANSPORTATION, WATER	HILL CONSTANT \$	HFA WORKFILE
AVG1111E	32 H	CONSTANT & GROSS TRANSPORTATION, AIR	HILL CONSTANT \$	HFA WORKFILE
AVG1111F	33 H	CONSTANT & GROSS TRANSPORTATION, PIPELINES, ETC, NATURAL GAS	HILL CONSTANT \$	HFA WORKFILE
AVG1111G	34 H	CONSTANT & GROSS TRANSPORTATION, TRANSPORTATION SERVICES	HILL CONSTANT \$	HFA WORKFILE
AVG1111H	35 H	CONSTANT & GROSS ELECTRIC, GAS & SANITARY SERVICES	HILL CURRENT \$	HFA WORKFILE
AVG1111I	288 T	GROSS PRODUCT ORIGINATING, REST OF THE WORLD	HILL CURRENT \$	HFA WORKFILE
AVG1111J	1154 T	CONSTANT & GROSS ALL INDUSTRIES, TOTAL	HILL CURRENT \$	HFA WORKFILE
AVG1111K	502 T	CONSTANT & GROSS SERVICES, TOTAL	HILL CURRENT \$	HFA WORKFILE
AVG1111L	133 T	CONSTANT & GROSS WHOLESALE & RETAIL TRADE, TOTAL	HILL CURRENT \$	HFA WORKFILE
AVG1111M	34 H	GROSS PRODUCT ORIGINATING, WHOLESALE & RETAIL TRADE, RETAIL	HILL CURRENT \$	HFA WORKFILE
AVG1111N	37 H	GROSS PRODUCT ORIGINATING, WHOLESALE & RETAIL TRADE, WHOLESALE	HILL CURRENT \$	HFA WORKFILE
AVG1111O	457 H	DIVIDEND INCOME, TOTAL	HILL CURRENT \$	SCR 1.13
AVG1111P	462 F	PROPRIETORS' INCOME, FARM, WITH IVA & CAPITAL CONSUMPTION ADJ	HILL CURRENT \$	SCR 1.13
AVG1111Q	460 F	TOTAL PAID BY CONSUMERS	HILL CURRENT \$	SCR 2.1
AVG1111R	467 T	INTEREST PAID, BY GOVERNMENT (NET) AND CONSUMERS	HILL CURRENT \$	TRANSFORMATION
AVG1111S	469 T	FED GOVT EXPEND, INTEREST PAID, NET, TOTAL	HILL CURRENT \$	SCR 3.2
AVG1111T	469 F	FED GOVT EXPEND, INTEREST PAID, TO FOREIGNERS	HILL CURRENT \$	SCR 3.4
AVG1111U	469 F	SECTORAL GOVT EXPENDITURES, INTEREST PAID, NET, TOTAL	HILL CURRENT \$	SCR 1.10
AVG1111V	463 T	NATIONAL INCOME, WITH CAPITAL CONSUMPTION ADJUSTMENTS	HILL CURRENT \$	SCR 1.13
AVG1111W	460 H	INCOME, MORTGAGE, ROYALTY, WITHOUT IVA & CCA ADJUSTMENTS	HILL CURRENT \$	TRANSFORMATION
AVG1111X	461 T	PERSONAL INCOME, TOTAL	HILL CURRENT \$	SCR 2.1
AVG1111Y	460 T	DISPOSABLE PERSONAL INCOME	HILL CURRENT \$	SCR 2.1
AVG1111Z	306 T	DISPOSABLE PERSONAL INCOME	HILL CURRENT \$	SCR 2.1
AVG1111A	1016 T	DISPOSABLE PERSONAL INCOME, EXCLUDING IMPUTATIONS	CONSTANT \$	TRANSFORMATION
AVG1111B	1017 T	DISPOSABLE PERSONAL INCOME, EXCLUDING IMPUTATIONS	HILL CURRENT \$	TRANSFORMATION
AVG1111C	536 T	PERSONAL OUTLAYS	HILL CURRENT \$	SCR 2.1
AVG1111D	1328 T	DISPOSABLE PERSONAL INCOME, PER CAPITA	THOU CONSTANT \$	SCR 2.1
AVG1111E	537 T	PERSONAL SAVINGS	HILL CURRENT \$	SCR 2.1
AVG1111F	536 H	SAVINGS RATE, PERSONAL	PERCENT	SCR 2.1
AVG1111G	512 T	TAXABLE INCOME, IVA	HILL CURRENT \$	TRANSFORMATION
AVG1111H	413 F	CANADA, INDEX OF INDUSTRIAL PRODUCTION, TOTAL	1972 = 100	TRANSFORMATION
AVG1111I	429 F	CANADA, CONSUMER PRICE INDEX	1972 = 100	TRANSFORMATION
AVG1111J	410 F	FRANCE, INDEX OF INDUSTRIAL PRODUCTION, TOTAL	1972 = 100	TRANSFORMATION

THE CLASSIFICATION OF VAPOR-FLAME DETECTORS

Variable	Number	Type	C F S C R T P T I O N	Units	Source
Z100C	A30 F	FRANCE, CONSUMER PRICE INDEX		1972 = 100.	TRANSFORMATION
Z101C	A35 F	GERMANY, INDEX OF INDUSTRIAL PRODUCTION, TOTAL		1972 = 100.	TRANSFORMATION
Z102C	A31 F	GERMANY, CONSUMER PRICE INDEX		1972 = 100.	TRANSFORMATION
Z110C	A10 F	ITALY, INDEX OF INDUSTRIAL PRODUCTION, TOTAL		1972 = 100.	TRANSFORMATION
Z111C	A32 F	ITALY, CONSUMER PRICE INDEX		1972 = 100.	TRANSFORMATION
Z112C	A18 F	JAPAN, INDEX OF INDUSTRIAL PRODUCTION, TOTAL		1972 = 100.	TRANSFORMATION
Z113C	A34 F	JAPAN, CONSUMER PRICE INDEX		1972 = 100.	TRANSFORMATION
Z114C	A19 F	MEXICO, INDEX OF INDUSTRIAL PRODUCTION, TOTAL		1972 = 100.	TRANSFORMATION
Z115C	A36 F	MEXICO, CONSUMER PRICE INDEX		1972 = 100.	TRANSFORMATION
Z116C	A20 F	INDIA, CONSUMER PRICE INDEX		1972 = 100.	TRANSFORMATION
Z117C	A17 F	UNITED KINGDOM, INDEX OF INDUSTRIAL PRODUCTION, TOTAL		1972 = 100.	TRANSFORMATION
Z118C	A33 F	UNITED KINGDOM, CONSUMER PRICE INDEX		1972 = 100.	TRANSFORMATION
Z119C	A21 F	WEIGHTED AVERAGE, INDUSTRIAL PRODUCTION INDEX IN 7 COUNTRIES		1972 = 100.	TRANSFORMATION
Z120C	A22 F	WEIGHTED AVERAGE, CPI IN 7 COUNTRIES, ADJ FOR EXCHG RATES (TRAVEL WT)		1972 = 100.	TRANSFORMATION

APPENDIX III

WHARTON ANNUAL MODEL

CONTROL SOLUTION

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

PAGE 1

TABLE 1.00 SELECTED INDICATORS

LINE	VAR LABEL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GDP\$	1 GROSS NATIONAL PRODUCT (CUR \$)	2105.7	212108.1	2492.2	2754.9	3044.6	3335.5	3628.3	3975.3	4328.6	4682.8	5031.3
2	GDP\$	1 X CHANGE	11.61	9.6	8.0	10.5	10.5	9.6	8.8	9.6	8.9	8.2	7.4
3	GDP	1 GROSS NATIONAL PRODUCT (72 \$)	1384.2	14116.7	1438.5	1487.2	1540.4	1595.7	1626.5	1684.4	1740.5	1791.5	1835.8
4	GDP	1 X CHANGE	3.91	2.3	1.5	3.4	3.6	2.9	2.6	3.6	3.3	2.9	2.5
5	GDP	1 GROSS NAT. PROD. DEFL. (1972=100.0)	152.1	162.9	173.2	185.2	197.7	210.4	223.1	236.0	248.7	261.4	274.1
6	GDP	1 X CHANGE	7.41	7.1	6.3	6.9	6.7	6.4	6.0	5.8	5.4	5.1	4.8
7	POP	1 POPULATION (MILLIONS)	210.51	220.31	222.24	224.29	226.43	228.60	230.79	232.98	235.17	237.33	239.48
8	POP	1 X CHANGE	0.81	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9
9	LABOR	1 LABOR FORCE (MILLIONS)	100.32	102.74	104.84	106.46	107.98	109.50	110.89	112.27	113.69	115.17	116.55
10	LABOR	1 X CHANGE	3.01	2.4	2.0	1.5	1.4	1.4	1.3	1.2	1.3	1.3	1.2
11	LABOR	1 PARTICIPATION RATE	63.01	63.6	64.0	64.1	64.3	64.5	64.7	64.9	65.1	65.3	65.5
12	LABOR	1 X CHANGE	1.31	0.9	0.6	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4
13	EMPLOY	1 EMPLOYMENT (MILLIONS)	94.26	96.38	97.73	99.67	101.42	102.94	104.33	105.89	107.51	109.10	110.48
14	EMPLOY	1 X CHANGE	4.11	2.3	1.4	2.0	1.8	1.5	1.4	1.5	1.5	1.5	1.3
15	WAGE	1 WAGE RATE PER WEEK, ALL INDUSTRIES	265.11	286.1	306.2	330.2	355.7	382.6	410.3	440.6	471.5	503.4	536.7
16	WAGE	1 X CHANGE	8.21	7.9	7.0	7.8	7.7	7.6	7.3	7.3	7.0	6.8	6.6
17	PROD	1 PRODUCTIVITY - ALL INDUSTRIES	14.686	14.699	14.719	14.921	15.189	15.404	15.590	15.907	16.189	16.421	16.616
18	PROD	1 X CHANGE	-0.21	0.1	0.1	1.4	1.8	1.4	1.2	2.0	1.8	1.4	1.2
19	PROD	1 PRODUCTIVITY - ALL MANUFACTURING	8.0421	8.231	8.387	8.659	8.950	9.184	9.404	9.698	9.969	10.219	10.461
20	PROD	1 X CHANGE	2.51	2.1	1.9	3.2	3.4	2.6	2.4	3.1	2.8	2.5	2.4
21	REAL	1 REAL PER CAPITA GNP (THOU 72 \$)	6.3351	6.430	6.473	6.630	6.803	6.937	7.048	7.230	7.401	7.548	7.666
22	REAL	1 X CHANGE	3.01	1.5	0.7	2.4	2.6	2.0	1.6	2.6	2.4	2.0	1.6
23	REAL	1 REAL PER CAP DISP INC (THOU 172 \$)	4.4131	4.510	4.594	4.677	4.772	4.854	4.933	5.045	5.157	5.259	5.350
24	REAL	1 X CHANGE	3.31	2.4	1.7	1.8	2.0	1.7	1.6	2.3	2.2	2.0	1.7
25	CORPORATE	1 CORPORATE PROFITS BEFORE TAXES	202.61	212.1	221.6	265.8	303.2	333.0	353.9	399.8	440.4	472.7	499.2
26	CORPORATE	1 X CHANGE	16.51	4.7	5.4	18.9	14.1	9.8	6.3	13.0	10.1	7.3	5.6
27	BOND	1 BOND RATE (%)	9.061	9.79	9.64	9.75	9.91	9.31	9.04	8.78	8.56	8.35	8.30
28	PRIME	1 PRIME COMMERCIAL PAPER RATE (%)	8.101	10.01	8.63	8.71	8.16	7.73	7.23	7.18	7.02	6.89	6.85
29	MONEY	1 MONEY SUPPLY	976.21	1081.3	1150.0	1273.3	1407.1	1537.8	1711.2	1871.5	2042.0	2215.8	2388.3
30	MONEY	1 X CHANGE	10.81	8.7	8.4	10.7	10.5	10.7	9.8	9.4	9.1	8.5	7.8
31	UNEMPLOYMENT	1 UNEMPLOYMENT RATE (%)	6.051	6.19	6.78	6.38	6.08	5.99	5.91	5.69	5.43	5.28	5.20
32	SAVINGS	1 SAVINGS RATE (%)	5.431	6.04	6.53	6.33	6.44	6.41	6.37	6.51	6.60	6.56	6.49
33	SURPLUS	1 SURPLUS OR DEFICIT, FEDERAL (CUR \$)	-31.01	-40.6	-64.5	-56.5	-43.9	-37.2	-34.1	-22.2	-11.2	-8.4	-11.4
34	SURPLUS	1 SURPLUS OR DEF, STATE & LOC (CUR \$)	27.11	22.9	23.2	24.8	26.2	28.4	29.4	31.8	32.3	31.4	33.6
35	COMPEN.	1 COMPEN. TO EMPLOYEES TO NAT. INCOME	76.41	76.8	77.3	76.6	75.8	75.6	75.7	75.1	74.8	74.9	75.3
36	PROFITS	1 PROFITS TO NATIONAL INCOME	11.91	11.4	11.1	11.9	12.3	12.3	12.0	12.4	12.5	12.4	12.2

A PRODUCT OF WHARTON FFA, INC., 1624 MARKET ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 2.00 GROSS NATIONAL PRODUCT (CURRENT AND 725)

LINE VAR LABEL	1979	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1											
2											
3											
4 GNPS	2105.7	2130.1	2492.2	2754.9	3048.6	3335.5	3628.1	3975.3	4328.6	4682.8	5031.3
5 GNPS	11.6	9.6	8.0	10.5	10.5	9.6	8.8	9.6	8.9	8.2	7.4
6											
7 CES	1336.5	1465.4	1592.2	1752.1	1920.7	2096.3	2277.5	2477.3	2683.9	2898.7	3114.7
8 CES	10.8	9.6	8.7	10.0	9.6	9.1	8.6	8.6	8.3	8.0	7.5
9											
10 CEDS	195.8	209.7	225.1	247.3	269.4	290.5	311.6	336.4	365.0	391.5	415.0
11 CEDS	9.8	7.1	7.3	9.8	9.0	7.8	7.3	8.6	7.9	7.2	6.0
12											
13 CENS	523.9	572.1	616.3	670.9	726.4	783.7	841.8	905.3	971.1	1038.7	1106.8
14 CENS	9.4	9.2	7.7	8.9	8.3	7.9	7.4	7.5	7.3	7.0	6.5
15											
16 CESS	616.8	683.6	750.8	833.9	924.9	1022.1	1124.0	1233.6	1347.8	1468.4	1593.7
17 CESS	12.3	10.8	9.8	11.1	10.9	10.5	10.0	9.4	8.3	9.0	8.5
18											
19 INTS	345.7	361.9	377.0	436.7	507.1	563.6	619.4	701.9	779.6	845.9	899.0
20 INTS	16.1	4.7	4.2	15.8	16.1	11.1	9.9	13.3	11.1	8.5	6.3
21											
22 IRFS	320.7	350.7	368.3	420.9	483.8	537.1	589.8	666.0	739.0	802.5	855.0
23 IRFS	16.5	6.7	5.0	14.3	15.0	11.0	9.8	12.9	11.0	8.6	6.4
24											
25 IRFHS	222.8	247.4	261.7	295.3	332.0	369.7	409.2	453.7	502.0	553.1	604.1
26 IRFHS	16.8	11.3	5.8	12.8	12.4	11.4	10.7	10.9	10.7	10.2	9.2
27											
28 IRFRS	106.3	103.3	106.6	125.6	151.8	167.4	180.6	212.3	237.0	249.4	251.0
29 IRFRS	15.7	-2.9	3.2	17.8	20.9	10.3	7.9	17.5	11.6	5.2	0.6
30											
31 IBITS	17.0	11.2	8.7	15.8	23.3	26.5	29.6	35.9	40.6	43.4	43.9
32											
33 TABS	-9.9	6.1	11.8	6.8	4.8	7.0	2.0	2.0	3.5	3.5	3.8
34											
35 TEHS	206.4	253.0	281.7	311.7	344.8	380.0	413.3	459.6	510.4	562.6	615.3
36 TEHS	17.6	22.6	11.4	10.6	10.6	10.2	8.8	11.2	11.0	10.2	9.4
37											
38 TMB3	216.3	246.9	269.9	304.9	340.0	373.0	411.4	457.6	506.9	559.1	611.5
39 TMB3	15.9	14.2	9.3	13.0	11.5	9.7	10.3	11.2	10.8	10.3	9.4
40											
41 GVPFS	433.4	474.7	511.2	559.3	612.0	668.6	724.4	794.0	861.6	934.8	1013.9
42 GVPFS	10.0	9.5	7.7	9.4	9.4	9.2	9.1	8.9	8.5	8.5	8.5
43											
44 GVPFS	153.3	167.8	180.9	197.7	215.3	233.6	252.7	272.5	293.0	314.0	337.5
45 GVPFS	5.7	9.5	7.8	9.3	8.9	8.5	8.2	7.8	7.5	7.4	7.2
46											
47 GVPFS	280.1	306.9	330.3	361.6	396.7	435.0	476.7	521.5	568.7	620.0	676.4
48 GVPFS	12.5	9.6	7.6	9.5	9.7	9.6	9.6	9.4	9.0	9.0	9.1

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 2.00 GROSS NATIONAL PRODUCT (CURRENT AND 72S)

LINE	VAR	LAUFL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1			-----CONSTANT 72 DOLLARS-----											
2														
3														
4	GNP	I	GROSS NATIONAL PRODUCT--	1384.2	1416.7	1438.5	1487.2	1540.4	1585.7	1626.5	1684.4	1740.5	1791.5	1835.8
5	GNP	I	X CHANGE	3.9	2.3	1.5	3.4	3.6	2.9	2.6	3.6	3.3	2.9	2.5
6														
7	CE	I	PERSONAL CONSUMPTION EXPENDITURES--	888.9	910.9	928.1	957.3	985.6	1013.2	1040.6	1073.6	1107.4	1141.0	1172.6
8	CE	I	X CHANGE	3.6	2.5	2.0	3.0	3.0	2.8	2.7	3.2	3.1	3.0	2.8
9														
10	CD	I	DURABLE GOODS--	143.3	148.7	147.4	153.0	158.8	163.6	168.1	175.3	182.1	188.1	192.4
11	CD	I	X CHANGE	4.0	1.0	1.9	3.8	3.8	3.0	2.8	4.3	3.9	3.3	2.3
12														
13	CEN	I	NONDURABLE GOODS--	337.9	346.7	353.1	362.8	371.0	378.9	386.4	395.6	405.8	415.5	425.3
14	CEN	I	X CHANGE	2.3	2.6	1.8	2.7	2.2	2.1	2.0	2.4	2.5	2.5	2.3
15														
16	CES	I	SERVICES--	407.6	419.4	428.5	441.4	455.8	470.7	485.0	502.7	519.9	537.3	554.9
17	CES	I	X CHANGE	4.7	2.9	2.2	3.0	3.2	3.3	3.2	3.4	3.4	3.4	3.3
18														
19	IRI	I	GROSS PRIVATE DOMESTIC INVESTMENT--	210.8	202.7	198.4	210.9	227.8	236.8	244.3	260.6	273.7	281.8	284.8
20	IRI	I	X CHANGE	7.8	-3.8	-3.1	7.4	8.0	3.9	3.2	6.7	5.0	3.0	1.0
21														
22	IRF	I	FIXED INVESTMENT--	199.6	196.0	191.5	202.2	215.6	223.5	230.2	244.2	256.0	263.7	267.1
23	IRF	I	X CHANGE	6.5	-1.8	-2.3	5.6	6.6	3.7	3.0	6.1	4.8	3.0	1.3
24														
25	IRFH	I	NONRESIDENTIAL--	140.1	144.5	143.3	150.0	157.2	163.7	170.0	177.6	185.9	194.0	200.8
26	IRFH	I	X CHANGE	7.9	3.2	-0.8	4.7	4.8	4.2	3.8	4.5	4.6	4.3	3.5
27														
28	IRFR	I	RESIDENTIAL STRUCTURES--	59.3	51.5	48.2	52.2	58.4	59.8	60.2	66.6	70.1	69.7	66.3
29	IRFR	I	X CHANGE	3.2	-13.5	-6.5	8.4	12.0	2.4	0.7	10.5	5.3	-0.6	-4.8
30														
31	IMIT	I	CHANGE IN BUSINESS INVENTORIES--	11.1	6.7	4.9	8.7	12.2	13.2	14.1	16.3	17.7	18.2	17.6
32														
33	THH	I	NET EXPORTS OF GOODS AND SERVICES--	9.7	21.1	26.7	25.8	25.8	26.4	23.6	23.2	23.4	23.3	23.4
34														
35	TEB	I	EXPORTS--	108.3	125.3	132.7	138.2	144.1	149.7	154.1	162.7	172.1	181.2	189.7
36	TEB	I	X CHANGE	10.2	15.8	5.9	4.2	4.2	3.9	2.9	5.5	5.8	5.3	4.7
37														
38	THB	I	IMPORTS--	98.6	104.2	106.0	112.5	118.3	123.3	130.6	139.5	148.7	157.9	166.3
39	THB	I	X CHANGE	11.1	5.8	1.7	6.1	5.1	4.2	5.9	6.8	6.6	6.2	5.3
40														
41	GVPT	I	GOV'T PURCH OF GOODS AND SERVICES--	274.9	282.1	286.3	293.3	301.2	309.3	318.1	327.0	336.1	345.4	355.0
42	GVPT	I	X CHANGE	2.1	2.6	1.5	2.4	2.7	2.7	2.8	2.8	2.8	2.8	2.8
43														
44	GVFP	I	FEDERAL--	100.1	102.9	104.7	107.0	109.4	111.8	114.3	116.8	119.4	122.1	124.8
45	GVFP	I	X CHANGE	-1.5	2.9	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
46														
47	GVPS	I	STATE AND LOCAL--	174.8	179.1	181.6	186.3	191.8	197.5	203.8	210.2	216.6	223.3	230.3
48	GVPS	I	X CHANGE	4.3	2.5	1.4	2.6	3.0	3.0	1.2	3.1	3.1	3.1	3.1

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TABLE 3.10 PERSONAL CONSUMPTION EXPENDITURES

		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
	I T E M											
	-----CURRENT DOLLARS-----											
1	PERSONAL CONSUMPTION EXPENDITURES	1336.5	1465.4	1592.2	1752.1	1920.7	2096.3	2277.5	2477.3	2683.9	2898.7	3114.7
2	DURABLE GOODS	195.8	209.7	225.1	247.3	269.4	290.5	311.6	338.4	365.0	391.5	415.0
3	AUTOS AND PARTS	89.1	92.0	98.0	110.2	120.6	129.3	136.9	148.8	160.7	172.6	182.1
4	FURNITURE AND HOUSEHOLD EQUIP.	77.1	84.3	89.9	97.3	105.7	114.7	124.8	135.8	146.8	156.7	166.5
5	OTHER DURABLE GOODS	29.6	33.4	36.4	39.8	43.1	46.4	49.9	53.8	57.9	62.2	66.4
6	NONDURABLE GOODS	523.9	572.1	616.3	670.9	726.4	783.7	841.8	905.3	971.1	1038.7	1106.0
7	FOOD AND BEVERAGES	268.9	290.0	308.0	334.9	362.2	390.6	419.9	451.3	483.3	515.9	548.6
8	CLOTHING AND SHOES	88.1	96.4	104.5	113.8	123.3	132.9	142.8	153.3	164.1	175.1	186.1
9	GASOLINE AND OIL	50.3	56.6	62.7	68.7	73.6	77.9	81.6	85.2	89.1	93.2	97.1
10	OTHER NONDURABLE GOODS	116.6	128.9	140.4	153.5	167.3	182.2	197.6	215.5	234.6	254.5	274.2
11	SERVICES	616.0	683.6	750.8	833.9	924.9	1022.1	1124.0	1233.6	1347.8	1468.4	1593.7
12	HOUSING	207.0	230.7	252.0	278.2	308.0	340.2	373.2	407.4	442.2	478.1	515.1
13	HOUSEHOLD OPERATION SERVICES	91.9	101.1	110.0	121.0	132.0	143.7	156.0	169.3	183.5	196.5	210.6
14	TRANSPORTATION SERVICES	52.7	59.3	65.0	72.2	79.7	87.0	96.1	104.9	114.4	124.7	135.0
15	OTHER SERVICES	265.1	292.5	323.0	362.5	405.2	450.5	498.6	552.0	608.5	669.1	733.0
16	-----CONSTANT 72 DOLLARS-----											
17	PERSONAL CONSUMPTION EXPENDITURES	888.9	910.9	929.1	957.3	985.6	1013.2	1040.6	1073.6	1107.4	1141.0	1172.6
18	DURABLE GOODS	143.3	144.7	147.4	153.0	158.8	163.6	168.1	175.3	182.1	188.1	192.4
19	AUTOS AND PARTS	61.1	58.1	58.1	61.2	64.0	65.4	66.0	68.6	71.0	72.9	73.5
20	FURNITURE AND HOUSEHOLD EQUIP.	60.0	62.6	64.2	65.8	68.2	70.7	73.9	77.5	80.8	83.7	86.4
21	OTHER DURABLE GOODS	22.3	24.0	25.1	25.9	26.7	27.4	28.2	29.2	30.3	31.5	32.6
22	NONDURABLE GOODS	337.9	346.7	353.1	362.0	371.0	378.9	386.4	395.6	405.4	415.5	425.3
23	FOOD AND BEVERAGES	165.0	164.9	164.1	168.7	172.5	176.0	179.4	182.9	186.4	190.2	194.0
24	CLOTHING AND SHOES	70.0	74.1	77.6	80.3	82.7	85.2	87.7	90.6	93.6	96.7	99.8
25	GASOLINE AND OIL	27.9	29.4	30.6	31.1	31.0	30.6	30.1	29.5	29.2	28.9	28.6
26	OTHER NONDURABLE GOODS	75.1	78.4	80.9	82.8	84.8	87.1	89.3	92.6	94.1	96.6	102.8
27	SERVICES	407.6	419.4	428.5	441.4	455.8	470.7	486.0	502.7	519.9	537.3	554.9
28	HOUSING	146.5	150.7	152.6	156.2	161.3	166.9	172.5	178.2	183.8	189.6	195.4
29	HOUSEHOLD OPERATION SERVICES	58.4	60.1	61.4	63.2	65.3	67.5	69.8	72.4	75.0	77.7	80.4
30	TRANSPORTATION SERVICES	30.2	35.8	36.7	37.8	38.9	40.0	41.0	42.1	43.3	44.5	45.6
31	OTHER SERVICES	160.6	172.8	177.8	184.2	190.3	196.4	202.8	210.1	217.6	225.6	233.5

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TABLE 3.20 PERSONAL CONSUMPTION EXPENDITURES, GROWTH RATES

LINE VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	-----CURRENT DOLLARS-----											
2	I PERSONAL CONSUMPTION EXPENDITURES	10.01	9.6	8.7	10.0	9.6	9.1	8.6	8.8	8.3	8.0	7.5
3	CES											
4	I DURABLE GOODS	9.81	7.1	7.3	9.8	9.0	7.8	7.3	8.6	7.9	7.2	6.0
5	CEDS	9.41	3.2	7.4	11.5	9.4	7.2	5.9	8.6	8.1	7.4	5.5
6	CEDAS	8.11	9.4	6.6	8.3	8.7	8.5	8.8	7.8	7.8	7.0	6.3
7	CEDFS	15.51	12.9	9.1	9.1	8.3	7.8	7.4	7.9	7.7	7.3	6.7
8	CEDDS											
9	I NONDURABLE GOODS	9.41	9.2	7.7	8.9	8.3	7.9	7.4	7.5	7.3	7.0	6.5
10	CENS	9.61	7.8	6.5	8.4	8.1	7.9	7.5	7.5	7.1	6.7	6.3
11	CENFS	8.11	9.6	8.1	9.0	8.3	7.8	7.4	7.4	7.0	6.7	6.3
12	CENAS	8.41	12.4	10.8	9.6	7.1	5.9	4.7	4.4	4.6	4.6	4.2
13	CENGS	10.11	10.8	8.9	9.3	9.0	8.9	8.4	9.1	8.9	8.5	7.7
14	CENDAS											
15	I SERVICES	12.31	10.8	9.8	11.1	10.9	10.5	10.0	9.8	9.3	9.0	8.5
16	CES	12.21	11.4	9.6	10.1	10.7	10.4	9.7	9.2	8.5	8.1	7.7
17	CFSH	12.61	10.1	8.8	10.0	9.1	8.9	8.6	8.5	7.9	7.5	7.2
18	CES	12.31	12.4	9.6	11.1	10.4	10.1	9.5	9.2	9.1	9.0	8.1
19	CFS	11.01	10.3	10.4	12.3	11.8	11.2	10.7	10.7	10.2	10.0	9.5
20	CES											
21	-----CONSTANT 72 DOLLARS-----											
22	I PERSONAL CONSUMPTION EXPENDITURES	3.61	2.5	2.0	3.0	3.0	2.8	2.7	3.2	3.1	3.0	2.8
23	CES											
24	I DURABLE GOODS	4.01	1.0	1.9	3.8	3.8	3.0	2.8	4.3	3.9	3.3	2.3
25	CEDS	1.81	-0.8	0.0	5.3	4.5	2.2	0.9	3.9	3.4	2.7	0.8
26	CEDAS	4.11	4.4	2.5	2.6	3.5	3.8	4.5	4.9	4.3	3.6	3.2
27	CEDFS	10.31	7.8	4.7	3.2	2.8	2.8	2.7	3.7	3.9	3.8	3.4
28	CEDDS											
29	I NONDURABLE GOODS	2.31	2.4	1.8	2.7	2.2	2.1	2.0	2.4	2.5	2.5	2.3
30	CENS	-0.01	-0.1	-0.5	2.8	2.2	2.0	1.9	1.9	2.0	2.0	2.0
31	CENFS	5.11	5.9	4.6	3.5	3.1	3.0	2.9	3.4	3.4	3.3	3.2
32	CENAS	4.81	5.3	4.1	1.7	-0.3	-1.2	-1.8	-1.7	-1.2	-0.9	-1.1
33	CENGS	4.31	4.4	3.2	2.4	2.4	2.7	2.6	3.6	3.6	3.7	3.2
34	CENDAS											
35	I SERVICES	4.71	2.9	2.2	3.0	3.2	3.3	3.2	3.4	3.4	3.4	3.3
36	CES	4.41	2.9	1.3	2.3	3.2	3.5	3.4	3.3	3.2	3.1	3.1
37	CFSH	5.01	3.0	2.1	3.0	3.3	3.4	3.4	3.7	3.6	3.6	3.5
38	CES	10.91	4.8	2.4	3.2	2.8	2.7	2.5	2.7	2.9	2.9	2.5
39	CFS	3.51	2.5	2.9	3.6	3.3	3.2	3.2	3.6	3.6	3.6	3.5
40	CES											
41	CES											

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TABLE 3.30 AUTOMOBILE CONSUMPTION

LINE	VAR LABEL	I T E M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1		AUTOMOBILES (MILLION VEHICLES)											
2		1											
3	3AMRDVAV	B RETAIL SALES	11.32	10.79	10.55	11.46	11.94	12.10	12.23	12.65	12.93	13.06	12.90
4	4SAMRDVAV	B STOCK IN USE (END OF YEAR)	103.10	105.00	106.70	109.81	112.57	115.23	117.76	120.27	122.64	124.91	126.46
5	5NNRA	B NEW REGISTRATIONS	11.02	10.51	10.27	11.14	11.60	11.76	11.88	12.28	12.55	12.68	12.52
6	6DISAV	I ACTUAL SCRAPPAGE	8.90	8.60	8.50	8.11	8.84	9.10	9.35	9.78	10.18	10.40	10.56
7	7DISAVEXP	I EXPECTED SCRAPPAGE	8.99	9.19	9.37	9.54	9.72	9.86	9.90	9.96	10.12	10.34	10.57
8	8NAVRAGE	I AVERAGE AGE OF THE STOCK (YEARS)	5.44	5.47	5.50	5.49	5.46	5.43	5.41	5.40	5.38	5.38	5.39
9		PERSONAL CONSUMPTION EXPENDITURES (BILLION 1972 \$)											
10		1											
11		2											
12		3											
13	13CEDA	I AUTOS AND PARTS	61.11	58.11	58.11	61.2	64.0	65.4	66.0	68.6	71.0	72.9	73.5
14	14CEDAVN	B NEW CARS	36.11	32.8	31.8	33.9	35.6	36.4	36.6	38.2	39.5	40.5	40.5
15	15CEDAVR+T	B RECREATIONAL VEH. & TRUCKS	8.4	8.5	9.2	9.0	10.3	10.6	10.7	11.2	11.6	12.0	12.0
16	16CEDAVU	B NET USED CARS	8.81	8.7	8.7	8.5	8.7	8.9	8.9	9.1	9.3	9.6	9.8
17	17CEDAP	B TIRES, TUBES & PARTS	7.81	8.1	8.4	9.0	9.4	9.6	9.8	10.1	10.4	10.8	11.1
18		PERSONAL CONSUMPTION EXPENDITURES (BILLION CURRENT \$)											
19		1											
20		2											
21		3											
22	22CEDAS	I AUTOS AND PARTS	89.11	92.0	90.8	110.2	120.6	129.3	136.9	148.0	160.7	172.6	182.1
23	23CEDAVNS	I NEW CARS	50.11	48.8	50.1	56.7	62.1	66.0	69.2	75.0	80.5	85.7	88.9
24	24CEDAVR+T	I RECREATIONAL VEH. & TRUCKS	11.61	12.7	14.6	16.7	18.8	20.5	22.0	24.8	26.7	29.0	30.5
25	25CEDAVUS	I NET USED CARS	17.01	18.9	21.1	22.0	23.4	25.0	26.5	28.7	31.1	33.7	36.5
26	26CEDAPS	I TIRES, TUBES & PARTS	10.41	11.6	13.0	14.8	16.4	17.7	19.2	20.7	22.4	24.2	26.2
27		NEW CAR OPERATING COSTS (DOLLARS PER MILE)											
28		1											
29		2											
30		3											
31	31UCCEDANCS	I TOTAL	0.218	0.232	0.245	0.259	0.272	0.285	0.299	0.315	0.332	0.350	0.368
32	32UCCEDANCS	I CAPITALIZED PURCHASE COST	0.0851	0.093	0.099	0.106	0.112	0.117	0.121	0.127	0.134	0.141	0.148
33	33UCCEDANCS	I GASOLINE	0.0861	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
34	34UCCEDANCS	I OTHER	0.0871	0.094	0.100	0.108	0.116	0.124	0.132	0.141	0.149	0.158	0.166
35		NUMBER OF PERSONS (MILLIONS)											
36	37NPTLD	B LICENSED DRIVERS	141.21	144.3	147.2	149.9	152.5	154.9	157.2	159.4	161.8	164.1	166.2
37	38NPTNNA	E NONAUTU COMMUTERS	14.41	14.3	14.2	14.1	14.0	13.9	13.8	13.7	13.6	13.5	13.4
38		FUEL CONSUMPTION											
39		1											
40		2											
41	41CENG	B CONSUMPTION, GASOLINE AND OIL	27.91	29.4	30.6	31.1	31.0	30.6	30.1	29.5	29.2	28.9	28.6
42	42MPV	B ANNUAL MILES DRIVEN PER CAR (THOU)	10.551	10.73	10.90	10.96	11.06	11.16	11.25	11.35	11.50	11.66	11.77
43	43MPG	I MILES PER GALL NEW CAR AVE	14.251	15.14	16.24	17.79	19.34	20.88	21.64	22.04	22.24	22.44	22.55
44	44MPGC	E NEW CARS, CITY DRIVING	11.291	12.01	12.90	14.16	15.42	16.68	17.32	17.68	17.86	18.04	18.22
45	45MPGH	E NEW CARS, HIGHWAY DRIVING	20.951	22.22	23.78	25.92	28.05	30.15	31.11	31.52	31.75	31.99	32.23
46	46MPGAVG	I AVERAGE, ALL CARS	12.811	13.05	13.38	13.84	14.47	15.23	16.09	16.99	17.89	18.76	19.58
47		UNIT PUR PRICE, NEW CARS (1972 \$)											
48	48CFDVAW+T/VN	E RATIO, CEDAVR+T TO CEDAVN	4.6491	4.703	4.761	4.766	4.823	4.874	4.865	4.927	5.011	5.102	5.178
49	49RACEDAVN	E RATIO, CEDAVN TO TOTAL CARS SOLD	23.181	25.95	28.86	28.96	29.06	29.16	29.26	29.36	29.46	29.56	29.66
50	50RACEDAVN	E RATIO, CEDAVN TO TOTAL CARS SOLD	0.6031	0.640	0.6332	0.6204	0.6184	0.6164	0.6144	0.6124	0.6104	0.6084	0.6064
51	51RACEDAVN	E RATIO, CENG TO CENGAVG	0.3285	0.3361	0.3442	0.3462	0.3482	0.3502	0.3522	0.3542	0.3562	0.3582	0.3602

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TABLE 3.40 AUTOMOBILE CONSUMPTION, GROWTH RATES

LINE	VAN LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1		AUTOMOBILES (MILLION VEHICLES)											
2	3 SAMRRDAV	8 RETAIL SALES-----	1.31	-4.6	-2.2	8.6	4.2	1.4	1.1	3.4	2.2	1.0	-1.3
3	4 KSAMRRDAV	8 STOCK IN USE (END OF YEAR)-----	2.11	1.8	1.7	2.8	2.5	2.4	2.2	2.1	2.0	1.9	1.6
4	5 NHRA	8 NEW REGISTRATIONS-----	1.31	-4.6	-2.2	8.5	4.1	1.4	1.1	3.4	2.2	1.0	-1.2
5	6 DISAV	1 ACTUAL SCRAPPAGE-----	1.71	-3.4	-1.2	-4.6	9.0	2.9	2.8	4.5	4.1	2.2	1.6
6	7 DISAVEXP	1 EXPECTED SCRAPPAGE-----	2.71	2.3	1.9	1.8	2.0	1.4	0.4	0.6	1.6	2.2	2.2
7	8 NAVRAGE	1 AVERAGE AGE OF THE STOCK (YEARS)-----	-0.21	0.4	0.6	-0.2	-0.5	-0.5	-0.3	-0.3	-0.2	-0.1	0.3
9		PERSONAL CONSUMPTION EXPENDITURES (BILLION 1972 \$)											
10		1 AUTOS AND PARTS-----	1.01	-4.8	0.0	5.3	4.5	2.2	0.9	3.9	3.4	2.7	0.8
11	13 CEDAVM	8 NEW CARS-----	0.31	-0.1	-3.1	6.5	5.1	2.1	0.6	4.4	3.6	2.5	-0.1
12	14 CEDAVRAT	8 RECREATIONAL VEH & TRUCKS-----	4.61	1.4	8.1	6.9	5.5	2.5	0.9	4.7	3.9	2.9	0.2
13	15 CEDAVU	8 NET USED CARS-----	3.01	-0.2	0.0	-2.4	1.8	2.0	0.8	2.2	2.5	2.4	2.8
14	16 CEDAP	8 TIRES, TUBES & PARTS-----	2.91	3.1	4.1	7.3	4.1	2.6	2.5	2.7	3.1	3.4	3.3
15		PERSONAL CONSUMPTION EXPENDITURES (BILLION CURRENT \$)											
16	21 CEDAS	1 AUTOS AND PARTS-----	9.41	3.2	7.4	11.5	9.4	7.2	5.9	8.6	8.1	7.4	5.5
17	22 CFDAVNS	1 NEW CARS-----	8.41	-2.7	2.7	13.2	9.4	6.4	4.8	8.4	7.4	6.4	3.7
18	23 CEDAVRATS	1 RECREATIONAL VEH & TRUCKS-----	13.61	9.2	15.4	14.2	12.5	9.1	7.2	10.7	9.6	8.4	5.4
19	24 CEDAVUS	1 NET USED CARS-----	9.41	11.6	11.7	3.9	6.4	7.1	6.1	8.0	8.3	8.6	8.3
20	25 CEDAPS	1 TIRES, TUBES & PARTS-----	9.51	11.6	11.7	14.4	10.4	8.4	8.2	8.1	8.1	8.2	7.9
21		NEW CAR OPERATING COSTS (DOLLARS PER MILE)											
22	30 UCCEDANCSS	1 TOTAL-----	6.81	6.4	5.5	5.4	5.1	4.8	4.9	5.4	5.5	5.5	5.2
23	31 UCCEDANCSS	1 CAPITALIZED PURCHASE COST-----	11.71	8.7	7.1	6.5	5.6	4.6	3.7	4.8	5.2	5.4	5.3
24	32 UCCEDANCSS	1 GASOLINE-----	-2.81	0.4	-0.8	-1.6	-1.2	-0.9	2.8	4.2	4.7	4.4	4.3
25	33 UCCEDANCSS	1 OTHER-----	7.61	7.3	7.0	7.5	7.3	7.1	6.8	6.3	5.9	5.8	5.6
26		NUMBER OF PERSONS (MILLIONS)											
27	36 NPILD	8 LICENSED DRIVERS-----	2.41	2.2	2.0	1.9	1.7	1.6	1.5	1.5	1.5	1.5	1.2
28	37 NPITNA	8 NONAUTO COMMUTERS-----	-0.71	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
29		FUEL CONSUMPTION											
30	41 CENG	8 CONSUMPTION, GASOLINE AND OIL-----	4.81	5.3	4.1	1.7	-0.3	-1.2	-1.8	-1.7	-1.2	-0.9	-1.1
31	42 MPV	8 ANNUAL MILES DRIVEN BY ONE CAR-----	1.91	1.7	1.5	0.6	0.9	0.9	0.8	0.9	1.3	1.4	0.9
32	43 MPG	1 MILES PER GAL NEW CAR AVE-----	6.21	6.3	7.3	9.5	8.7	8.0	3.6	1.8	0.9	0.9	0.9
33	44 MPGC	1 NEW CARS, CITY DRIVING-----	6.21	6.4	7.0	9.8	8.9	8.2	3.8	2.1	1.0	1.0	1.0
34	45 MPGH	1 NEW CARS, HIGHWAY DRIVING-----	6.01	6.1	7.0	9.0	8.2	7.5	3.2	1.3	0.7	0.7	0.7
35	46 MPGAVG	1 AVERAGE, ALL CARS-----	1.21	1.9	2.6	3.4	4.5	5.3	5.6	5.6	5.3	4.9	4.4
36	50 PUCEDAVN	1 UNIT PUR PRICE, NEW CARS (1972 \$)	2.71	0.7	1.2	0.1	1.2	1.1	-0.2	1.3	1.7	1.8	1.5

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TABLE 4.10 FIXED INVESTMENT (CURRENT \$)

LINE	VAR LABEL	I.T.E.M.	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	IRFS	I FIXED INVESTMENT	328,731	350,71	368,34	420,90	483,04	537,11	589,82	665,99	738,98	802,47	855,04
2													
3	IRFNS	I NONRESIDENTIAL INVESTMENT	222,181	247,43	261,74	295,31	332,00	369,69	409,19	453,67	502,00	551,06	604,07
4													
5	IAGGS	I NONRESIDENTIAL INVEST EXCL IHA	166,181	186,82	204,21	232,26	262,19	293,79	326,79	362,37	402,59	445,07	488,63
6													
7	IAGS	I FARM	13,911	15,95	15,92	19,37	23,10	27,40	31,86	35,11	38,80	42,29	45,67
8	IAGS	I MINING	4,771	5,49	6,25	7,46	8,77	9,86	10,72	11,05	13,43	15,65	17,81
9	IAGS	I TOTAL MANUFACTURING	67,661	76,37	83,14	93,71	105,17	116,59	128,25	141,51	156,66	172,21	187,05
10													
11	IAMFDS	I DURABLE GOODS	31,441	36,73	40,69	46,19	51,61	56,39	61,28	67,77	75,30	82,39	88,74
12													
13	IAMFD24S	I LUMBER	1,411	1,62	1,70	1,95	2,28	2,66	2,98	3,35	3,76	4,24	4,72
14	IAMFD25S	I FURNITURE	0,291	0,32	0,35	0,41	0,44	0,47	0,53	0,58	0,64	0,70	0,77
15	IAMFD32S	I STONE, CLAY AND GLASS	2,231	2,45	2,78	3,10	3,52	4,37	4,72	5,01	5,42	5,95	6,60
16	IAMFD33S	I PRIMARY METALS	6,411	7,53	8,41	9,63	10,52	11,44	12,41	13,68	15,06	16,04	16,79
17	IAMFD34S	I FABRICATED METAL PRODUCTS	2,561	2,90	3,06	3,50	3,84	4,25	4,66	5,04	5,46	5,84	6,31
18	IAMFD35S	I NONELECTRICAL MACHINERY	4,671	7,85	8,64	9,72	10,98	12,17	13,31	14,79	16,49	18,20	19,79
19	IAMFD36S	I ELECTRICAL MACHINERY	3,531	4,27	4,67	5,47	6,24	6,89	7,50	8,16	9,08	10,10	11,09
20	IAMFD37S	I MOTOR VEHICLES	4,691	5,66	6,51	7,20	7,53	7,45	7,84	9,01	10,30	11,22	11,59
21	IAMFD37SP2S	I MONAUTO TRANS EQ + ORD + MISC	2,121	2,65	2,90	3,34	3,80	4,25	4,67	5,15	5,71	6,38	7,05
22	IAMFD38S	I INSTRUMENTS	1,331	1,48	1,66	1,88	2,16	2,43	2,67	3,00	3,36	3,73	4,03
23													
24	IAMFNS	I NONDURABLE GOODS	36,021	39,64	42,84	47,52	53,57	60,20	66,97	73,73	81,36	89,82	98,31
25													
26	IAMFN20S	I FOOD AND BEVERAGES	4,731	5,11	5,52	6,10	6,37	6,73	7,42	8,46	9,68	11,03	12,55
27	IAMFN21S	I TOBACCO	9,261	9,29	9,31	9,36	9,40	9,45	9,51	9,56	9,62	9,69	9,76
28	IAMFN22S	I TEXTILES	1,021	1,12	1,24	1,44	1,68	1,90	2,08	2,29	2,50	2,69	2,84
29	IAMFN23S	I APPAREL	9,401	9,43	9,48	9,55	9,62	9,70	9,79	9,90	1,01	1,13	1,25
30	IAMFN24S	I PAPER	3,871	4,66	5,13	5,69	6,16	6,73	7,38	8,27	9,12	10,30	11,51
31	IAMFN25S	I PRINTING AND PUBLISHING	1,111	1,19	1,32	1,46	1,63	1,83	2,05	2,32	2,62	2,95	3,29
32	IAMFN26S	I CHEMICALS	7,171	8,32	9,27	10,64	12,06	13,92	15,86	17,56	19,48	22,04	24,26
33	IAMFN29S	I PETROLEUM	15,331	16,46	16,88	18,66	21,13	23,67	25,95	27,98	29,93	31,97	34,27
34	IAMFN30S	I RUBBER	1,951	1,87	2,07	2,36	2,93	3,32	3,70	4,20	4,83	5,42	5,94
35	IAMFN31S	I LEATHER	0,171	0,19	0,22	0,25	0,26	0,30	0,33	0,35	0,38	0,41	0,43
36													
37	IANGIS	I TRANSPORTATION	8,321	8,67	9,06	10,20	10,81	11,45	12,57	14,10	15,96	18,27	20,72
38													
39	IANGIHDOS	I UTILITIES	28,941	32,62	36,22	40,36	44,97	50,29	55,92	62,11	68,86	76,12	84,02
40													
41	IANGCHDS	I COMMUNICATIONS	17,741	20,18	23,21	26,84	30,50	34,50	38,46	42,56	47,29	52,68	58,44
42													
43	IACDS	I COMMERCIAL AND OTHER	61,251	68,15	67,94	97,38	108,68	119,61	131,41	146,44	161,00	175,85	190,38
44	IACDS	I COMMERCIAL	25,081	27,54	30,40	34,33	38,87	43,71	49,01	55,14	61,58	68,26	74,93
45	INAS	I CONCEPTUAL DIFF, BEA VS NIA	56,201	60,62	57,54	63,05	69,80	75,90	82,40	91,30	99,41	107,59	115,44
46													
47	INFRS	I RESIDENTIAL STRUCTURES	106,341	103,28	106,59	125,58	151,84	167,42	180,43	212,31	236,98	249,40	250,97
48													
49	INFRNS	I NONFARM RESIDENTIAL STRUCTURES	103,141	99,71	102,61	121,17	146,98	162,08	174,78	205,93	230,05	241,84	242,85
50	INFRFS	I FARM RESIDENTIAL STRUCTURES	1,471	1,78	1,96	2,08	2,19	2,31	2,42	2,54	2,65	2,77	2,89
51	INFRFS	I RESIDENTIAL DURABLE EQUIP.	1,741	1,79	2,02	2,34	2,67	3,04	3,43	3,84	4,28	4,74	5,23

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TABLE 4.20 FIXED INVESTMENT, GROWTH RATES

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	IMFS	I FIXED INVESTMENT	16.51	6.7	5.0	14.3	15.0	11.0	9.8	12.9	11.0	8.6	6.6
2													
3	IRFNS	I NONRESIDENTIAL INVESTMENT	16.01	11.3	5.8	12.8	12.4	11.4	10.7	10.9	10.7	10.2	9.2
4													
5	IAGGS	I NONRESIDENTIAL INVEST EXCL IBA	11.91	12.4	9.3	13.7	12.9	12.1	11.2	10.9	11.1	10.7	9.7
6													
7	IAGS	I FARM	9.71	14.7	-0.2	21.6	19.3	18.6	16.3	10.2	10.5	9.0	8.0
8	IAMS	I MINING	6.01	15.1	14.0	19.3	17.6	12.4	8.7	10.6	13.3	16.5	13.8
9	IAMFS	I TOTAL MANUFACTURING	12.11	13.2	8.9	12.7	12.2	10.9	10.0	10.3	10.7	9.9	8.6
10													
11	IAMFDS	I DURABLE GOODS	13.21	16.8	10.8	13.5	11.7	9.3	8.7	10.6	11.1	9.4	7.7
12													
13	IAMFD24S	I LUMBER	13.61	15.0	5.2	14.2	17.1	16.7	12.2	12.2	12.4	12.5	11.5
14	IAMFD25S	I FURNITURE	11.01	10.7	9.4	18.1	7.6	6.5	11.4	10.8	8.7	10.6	9.2
15	IAMFD32S	I STONE, CLAY AND GLASS	11.91	10.0	13.4	11.5	23.1	14.6	7.8	6.3	8.0	9.9	10.9
16	IAMFD33S	I PRIMARY METALS	12.01	17.6	11.6	14.5	9.2	8.8	8.4	10.3	10.0	6.6	4.6
17	IAMFD34S	I FABRICATED METAL PRODUCTS	12.01	13.2	5.6	14.1	9.8	10.6	9.7	8.2	8.3	7.0	8.1
18	IAMFD35S	I NONELECTRICAL MACHINERY	15.81	17.7	10.1	12.4	13.0	10.8	9.4	11.2	11.5	10.4	8.7
19	IAMFD36S	I ELECTRICAL MACHINERY	7.71	20.8	9.4	17.1	14.2	10.4	8.8	8.9	11.3	11.2	9.8
20	IAMFD37S	I MOTOR VEHICLES	15.51	20.8	15.0	10.6	4.6	-1.0	5.2	14.8	14.4	8.9	3.4
21	IAMFD37SP2S	I NONAUTO TRANS EQ + MISC	14.61	14.3	9.6	15.2	13.6	11.8	9.9	10.4	11.0	11.6	10.5
22	IAMFD38S	I INSTRUMENTS	12.11	10.5	12.7	13.2	14.9	12.4	10.1	12.0	12.7	10.5	8.0
23													
24	IAMFNS	I NONDURABLE GOODS	11.21	10.0	7.1	12.0	12.7	12.4	11.2	10.1	10.3	10.4	9.4
25													
26	IAMFN20S	I FOOD AND BEVERAGES	13.21	7.9	8.1	10.5	4.4	5.6	10.2	14.0	14.4	13.9	13.8
27	IAMFN21S	I TOBACCO	9.71	8.7	8.8	14.1	13.2	12.5	11.9	11.1	10.5	10.2	10.6
28	IAMFN22S	I TEXTILES	11.11	9.9	10.6	16.2	16.7	13.0	9.4	10.0	9.1	7.5	5.7
29	IAMFN23S	I APPAREL	8.11	7.9	12.0	14.5	12.6	12.8	12.8	13.6	12.5	11.7	10.4
30	IAMFN26S	I PAPER	15.21	20.4	9.9	11.0	13.7	14.1	12.2	10.2	12.9	11.8	10.5
31	IAMFN27S	I PRINTING AND PUBLISHING	9.61	7.8	10.9	10.8	11.2	12.2	12.2	13.0	13.2	12.4	11.6
32	IAMFN28S	I CHEMICALS	9.41	11.4	11.4	14.8	13.3	15.4	14.0	10.7	11.0	13.1	10.1
33	IAMFN29S	I PETROLEUM	10.61	7.3	2.6	10.5	13.3	12.0	9.6	7.8	7.0	6.8	7.2
34	IAMFN30S	I RUBBER	13.71	13.3	10.7	14.0	24.4	13.2	11.5	13.4	15.1	12.2	9.5
35	IAMFN31S	I LEATHER	7.81	11.1	13.6	15.4	5.3	12.0	10.1	8.4	7.9	6.9	5.7
36													
37	IARGTS	I TRANSPORTATION	20.01	4.2	4.5	12.5	6.0	6.0	9.8	12.1	13.2	14.5	13.5
38													
39	IARGU40S	I UTILITIES	12.21	12.7	11.0	11.4	11.4	11.8	11.2	11.1	10.9	10.5	10.4
40													
41	IARGC40S	I COMMUNICATIONS	14.81	13.8	15.0	15.6	13.6	13.1	11.5	10.7	11.1	11.4	10.9
42													
43	IACNS	I COMMERCIAL AND OTHER	25.31	8.5	-0.2	10.7	11.6	10.1	9.9	11.4	9.9	9.2	8.3
44	IACMS	I COMMERCIAL	9.01	10.0	10.4	12.9	13.2	12.4	12.1	12.5	11.7	10.6	9.8
45	IRAS	I CONCEPTUAL DIFF, BEA VS NIA	34.21	7.9	-5.1	9.6	10.7	8.7	8.6	10.8	8.9	8.2	7.3
46													
47	IIRFNS	I RESIDENTIAL STRUCTURES	15.71	-2.9	3.2	17.8	20.9	10.3	7.9	17.5	11.4	5.2	0.6
48													
49	IIRFNS	I NONFARM RESIDENTIAL STRUCTURES	16.01	-3.3	2.9	18.1	21.3	10.3	7.8	17.8	11.7	5.1	0.4
50	IIRFNS	I FARM RESIDENTIAL STRUCTURES	21.41	21.1	10.4	5.8	5.6	5.2	5.0	4.8	4.6	4.4	4.5
51	IIRFNS	I RESIDENTIAL DURABLE EQUIP.	18.41	2.7	13.1	15.6	14.1	13.7	12.8	12.1	11.4	10.8	10.2

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TABLE 5.10 FIXED INVESTMENT (1972 \$)

LINE	VAR LABEL	I T E M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	INF	FIXED INVESTMENT	199.61	196.01	191.46	202.20	215.61	223.54	230.23	244.22	256.01	263.66	267.13
2													
3	IBFM	NONRESIDENTIAL INVESTMENT	140.08	144.51	143.30	150.01	157.18	163.70	169.99	177.65	185.91	193.97	200.80
4													
5	IAAAG	NONRESIDENTIAL INVEST EXCL IBA	104.68	109.11	111.80	117.99	124.13	130.10	135.76	141.90	149.09	156.24	162.42
6													
7	IAAG	FARM	8.76	9.32	8.73	9.84	10.94	12.13	13.24	13.75	14.37	14.83	15.18
8	IANG	MINING	3.00	3.21	3.42	3.79	4.15	4.37	4.45	4.64	4.97	5.49	5.92
9	IAMF	TOTAL MANUFACTURING	42.49	44.60	45.51	47.60	49.79	51.63	53.28	55.41	58.02	60.40	62.17
10	IAMFD	DURABLE GOODS	19.80	21.45	22.28	23.46	24.43	24.97	25.46	26.54	27.88	28.90	29.50
11	IAMFD24	LUMBER	0.89	0.95	0.93	0.99	1.08	1.18	1.24	1.31	1.39	1.49	1.57
12	IAMFD25	FURNITURE	0.10	0.19	0.19	0.21	0.21	0.21	0.22	0.23	0.24	0.25	0.26
13	IAMFD32	STONE, CLAY AND GLASS	1.40	1.43	1.52	1.57	1.81	1.94	1.96	1.96	2.01	2.09	2.19
14	IAMFD33	PRIMARY METALS	4.03	4.40	4.60	4.89	4.98	5.07	5.15	5.36	5.58	5.63	5.58
15	IAMFD34	FABRICATED METAL PRODUCTS	1.61	1.70	1.68	1.78	1.82	1.88	1.93	1.97	2.02	2.05	2.10
16	IAMFD35	NON-ELECTRICAL MACHINERY	4.20	4.59	4.73	4.94	5.20	5.39	5.53	5.79	6.11	6.38	6.58
17	IAMFD36	ELECTRICAL MACHINERY	2.23	2.49	2.55	2.78	2.96	3.05	3.11	3.20	3.36	3.54	3.69
18	IAMFD37	MOTOR VEHICLES	2.95	3.31	3.57	3.66	3.56	3.30	3.26	3.53	3.61	3.93	3.85
19	IAMFD37SP2	NON-AUTO TRANS EQ + QRD + MISC	1.46	1.55	1.59	1.70	1.80	1.80	1.94	2.02	2.12	2.24	2.34
20	IAMFD38	INSTRUMENTS	0.84	0.86	0.91	0.96	1.02	1.08	1.11	1.17	1.25	1.31	1.34
21	IAMFN	NON-DURABLE GOODS	28.69	23.15	23.24	24.14	25.36	26.66	27.82	28.87	30.13	31.50	32.68
22	IAMFN20	FOOD AND BEVERAGES	2.98	2.98	3.02	3.10	3.02	2.94	3.08	3.31	3.59	3.87	4.17
23	IAMFN21	TUBACCO	0.17	0.17	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.24	0.25
24	IAMFN22	TEXTILES	0.64	0.66	0.68	0.73	0.80	0.84	0.87	0.90	0.93	0.94	0.94
25	IAMFN23	APPAREL	0.25	0.25	0.26	0.28	0.30	0.31	0.33	0.35	0.37	0.40	0.42
26	IAMFN26	PAPER	2.44	2.72	2.81	2.89	3.06	3.27	3.44	3.57	3.81	4.04	4.23
27	IAMFN27	PRINTING AND PUBLISHING	0.70	0.70	0.72	0.74	0.77	0.81	0.85	0.91	0.97	1.03	1.09
28	IAMFN28	CHEMICALS	4.71	4.86	5.07	5.41	5.71	6.16	6.59	6.88	7.22	7.73	8.06
29	IAMFN29	PETROLEUM	9.66	9.61	9.24	9.48	10.00	10.48	10.78	10.96	11.08	11.21	11.39
30	IAMFN30	RUBBER	1.04	1.09	1.13	1.20	1.39	1.47	1.54	1.64	1.79	1.90	1.97
31	IAMFN31	LEATHER	0.11	0.11	0.12	0.13	0.13	0.13	0.14	0.14	0.14	0.14	0.14
32													
33	IARGT	TRANSPORTATION	5.24	5.06	4.96	5.18	5.12	5.07	5.22	5.52	5.91	6.41	6.89
34													
35	IARGU9	UTILITIES	18.23	19.05	19.83	20.50	21.29	22.27	23.23	24.32	25.50	26.70	27.93
36													
37	IARGC48	COMMUNICATIONS	11.17	11.78	12.71	13.64	14.44	15.28	15.98	16.67	17.51	18.40	19.42
38													
39	IACH	COMMERCIAL AND OTHER	51.18	51.48	48.14	49.47	51.45	52.96	54.59	57.34	59.62	61.68	63.28
40	IACH	COMMERCIAL	15.77	16.08	16.64	17.44	18.40	19.36	20.36	21.59	22.81	23.94	24.91
41	INA	CONCEPTUAL DIFF, DEA VS NIA	35.40	35.40	31.50	32.03	33.05	33.61	34.23	35.75	36.82	37.74	38.37

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TABLE 5.10 FIXED INVESTMENT (1972 \$)

LINE	VAR LABEL	J	T	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	IRFR	1				57.51	51.5	48.2	52.2	58.4	59.8	60.2	66.4	70.1	69.7	66.3
2	IRFRN	1				57.41	49.3	45.9	49.0	56.0	57.3	57.6	63.8	67.2	66.7	63.3
3	IRFRF	2				0.81	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
4	IRFRF	2				1.31	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
5	IRFRNUN-MH	8				12.91	13.3	14.0	14.4	14.6	14.2	14.1	14.7	14.5	14.1	13.7
6																
7	HSPR	1				1982.	1655.	1500.	1668.	1951.	1993.	2038.	2229.	2417.	2394.	2235.
8	HSPRS1	8				1399.	1171.	1116.	1197.	1410.	1390.	1403.	1577.	1694.	1687.	1552.
9	HSPRSM	8				592.	484.	385.	471.	541.	603.	635.	652.	721.	727.	683.
10	HSPRSM	8				285.	250.	250.	336.	317.	402.	415.	483.	391.	367.	356.
11																
12	HSPUS1	1				1.	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
13	HSPUSM	1				0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
14																
15	KHUA	1				81.431	82.76	83.71	84.87	86.27	87.84	89.36	91.11	92.93	94.68	96.25
16	KHUI	1				54.141	55.19	55.98	56.84	57.72	58.96	60.01	61.23	62.56	63.86	65.03
17	KHUI	1				22.371	22.58	22.69	22.89	23.16	23.49	23.85	24.24	24.69	25.14	25.54
18	KHUM	1				4.921	4.99	5.03	5.14	5.20	5.39	5.49	5.64	5.68	5.68	5.67
19	KHUMH	1														
20																
21	HD10S1	1				318.	324.	331.	335.	340.	347.	353.	359.	366.	374.	382.
22	HD10S1	1				268.	269.	276.	273.	272.	271.	271.	272.	272.	273.	278.
23	HD10S1	1				184.	182.	205.	230.	259.	287.	313.	336.	353.	363.	367.
24	HD10S1	1														
25																
26	HD10S1	1				0.5951	0.592	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
27	HD10S1	1				1.2181	1.203	1.221	1.204	1.188	1.171	1.155	1.139	1.123	1.106	1.106
28	HD10S1	1														
29	HD10S1	1				93.021	93.64	94.45	95.02	95.33	95.41	95.52	95.34	95.03	94.78	94.49
30	HD10S1	1				5.001	4.75	4.29	3.98	3.65	4.10	4.14	4.12	4.15	4.92	5.50
31	HD10S1	1														
32	HD10S1	1														
33	HD10S1	1				72.601	72.71	72.89	73.03	73.16	73.26	73.31	73.40	73.44	73.45	73.46
34	HD10S1	1														
35	HD10S1	1														
36	HD10S1	1				91.701	91.71	91.75	91.71	91.77	91.62	91.61	91.56	91.68	91.83	91.97
37	HD10S1	1														
38	HD10S1	1				11.151	6.97	4.94	8.65	12.19	13.21	14.07	16.34	17.70	18.15	17.63
39	HD10S1	1				-0.701	-0.12	0.25	0.45	0.02	-0.17	0.05	0.17	0.13	0.10	0.10
40	HD10S1	1				-0.101	0.14	-0.05	0.17	0.10	0.37	0.52	0.57	0.52	0.53	0.58
41	HD10S1	1				6.501	2.96	2.55	4.59	6.33	6.50	6.49	7.72	8.56	8.65	8.44
42	HD10S1	1				5.841	3.70	2.19	3.44	5.73	6.52	7.01	7.88	8.49	8.67	8.51
43	HD10S1	1				11.851	6.80	4.69	8.20	12.17	13.18	14.02	16.17	17.57	18.05	17.53
44	HD10S1	1														

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TABLE 5.20 FIXED INVESTMENT, GROWTH RATES

LINE	VAR LABEL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	IBF	I FIXED INVESTMENT	6.51	-1.8	-2.3	5.6	6.6	3.7	3.0	6.1	4.8	3.0	1.3
2	INFM	I NONRESIDENTIAL INVESTMENT	7.91	3.2	-0.8	4.7	4.8	4.2	3.8	4.5	4.6	4.3	3.5
3	IAVAG	I NONRESIDENTIAL INVEST EXCL IBA	2.61	4.2	2.5	5.5	5.2	4.8	4.4	4.5	5.1	4.8	4.0
4													
5	IAAG	FARM	-7.61	6.3	-6.4	12.9	11.2	10.9	9.1	3.9	4.5	3.2	2.4
6	IAAG	MINING	-2.11	6.7	6.8	10.7	9.6	5.1	2.0	4.2	7.2	10.4	7.9
7	IAAG	TOTAL MANUFACTURING	3.61	5.0	2.0	4.6	4.6	3.7	3.2	4.0	4.7	4.1	2.9
8	IAAG	DURABLE GOODS	8.61	8.3	3.9	5.3	4.1	2.2	2.0	4.2	5.1	3.6	2.1
9	IAAG	LUMBER	5.01	6.6	-1.4	6.0	9.1	9.1	5.3	5.8	6.3	6.4	5.7
10	IAFD24	FURNITURE	2.61	2.6	2.6	9.6	0.3	-0.4	4.4	4.5	2.8	4.8	3.5
11	IAFD25	STONE, CLAY AND GLASS	3.41	2.0	6.3	3.5	14.8	7.2	1.2	0.2	2.2	4.0	5.1
12	IAFD32	PRIMARY METALS	4.21	9.0	4.7	6.3	1.8	1.8	1.7	3.9	4.1	0.9	-0.4
13	IAFD33	FABRICATED METAL PRODUCTS	3.51	5.0	-1.0	5.9	2.3	3.4	2.9	2.0	2.4	1.3	2.5
14	IAFD34	ELECTRICAL MACHINERY	7.01	9.2	3.2	8.3	5.3	3.6	2.6	4.8	5.4	4.5	3.1
15	IAFD35	NON-ELECTRICAL MACHINERY	6.71	12.0	7.8	2.6	-2.6	-7.4	-1.3	8.2	8.1	3.1	-2.0
16	IAFD371	MOTOR VEHICLES	5.91	6.0	2.7	6.9	5.9	4.5	3.1	4.0	4.9	5.7	4.8
17	IAFD372	NONAUTO TRANS & ORD & MISC	3.61	2.5	5.6	5.0	7.1	5.2	3.3	5.6	6.6	4.7	2.3
18	IAFD38	INSTRUMENTS	2.81	2.0	0.4	3.9	5.1	5.1	4.4	3.8	4.4	4.5	3.7
19	IAFD39	NONDURABLE GOODS	4.61	0.8	1.3	2.5	-2.7	-1.2	3.4	7.8	8.3	7.9	4.8
20	IAFD39	FOOD AND BEVERAGES	1.41	0.0	2.0	5.9	5.5	5.2	5.0	4.7	4.5	4.3	4.8
21	IAFD40	TOBACCO	2.71	1.9	3.7	7.9	8.7	5.7	2.7	3.7	3.2	1.4	0.1
22	IAFD41	TEXTILES	-0.11	0.0	5.0	6.3	5.0	5.5	5.8	7.0	6.4	5.8	4.7
23	IAFD42	APPAREL	6.51	11.6	3.1	3.0	5.9	6.7	5.2	3.9	6.8	5.9	4.7
24	IAFD43	PRINTING AND PUBLISHING	1.21	-0.1	4.0	2.8	3.6	4.9	5.3	6.6	7.1	6.5	5.7
25	IAFD44	CHEMICALS	1.11	3.3	4.4	6.5	5.6	8.0	6.9	4.3	4.9	7.1	4.3
26	IAFD45	PETROLEUM	2.21	-0.5	-3.8	2.5	5.6	4.8	2.9	1.4	1.2	1.1	1.4
27	IAFD46	RUBBER	5.11	5.1	3.8	5.8	15.9	5.9	4.6	6.9	8.9	6.3	3.8
28	IAFD47	LEATHER	-0.41	3.0	6.4	7.1	-1.9	4.8	3.3	2.2	2.0	1.3	0.2
29	IAFD48	TRANSPORTATION	10.91	-3.4	-2.0	4.4	-1.2	-0.9	3.0	5.7	7.1	8.4	7.5
30	IAFD49	UTILITIES	3.61	4.5	4.1	3.4	3.8	4.6	4.3	4.7	4.9	4.7	4.6
31	IAFD50	COMMUNICATIONS	6.11	5.5	7.8	7.3	5.9	5.8	4.6	4.3	5.1	5.3	5.1
32	IAFD51	COMMERCIAL AND OTHER	15.71	0.6	-6.5	2.7	4.0	2.9	3.1	5.0	4.0	3.4	2.6
33	IAFD52	COMMERCIAL	0.71	2.0	3.5	4.8	5.5	5.2	5.2	6.0	5.6	5.0	4.0
34	IAFD53	CONCEPTUAL DIFF, USA VS NIA	27.61	0.0	-11.0	1.7	3.2	1.7	1.9	4.4	3.0	2.5	1.7
35	IAFD54	RESIDENTIAL STRUCTURES	3.21	-13.5	-6.5	8.4	12.0	2.4	0.7	10.5	5.3	-0.6	-4.8
36	IAFD55	NONFARM	3.21	-14.1	-7.0	8.5	12.3	2.3	0.5	10.8	5.4	-0.8	-5.2
37	IAFD56	FARM	-9.21	8.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
38	IAFD57	RESIDENTIAL DURABLE EQUIP.	9.71	-2.4	7.7	7.2	6.7	6.3	5.9	5.6	5.3	5.0	4.8
39	IAFD58	ADDITIONS AND ALTERATIONS	-6.61	2.8	5.1	2.6	2.0	-2.9	-0.9	4.2	-1.3	-2.7	-2.4
40	IAFD59	PRIVATE HOUSING STARTS	-0.21	-16.5	-9.3	11.2	16.9	2.2	2.3	9.4	8.4	-1.0	-6.6
41	IAFD60	SINGLE UNIT	-0.21	-15.7	-4.8	7.3	17.7	-1.4	1.0	12.4	7.4	-1.6	-6.9
42	IAFD61	MULTIPLE UNIT	10.51	-18.3	-20.4	22.3	14.9	11.4	5.3	2.7	10.9	0.6	-6.0
43	IAFD62	PRIV NONFARM HOUSING STARTS	0.31	-16.7	-9.5	11.3	17.1	2.2	2.3	9.5	8.5	-1.0	-6.7
44	IAFD63	PRIV FARM HOUSING STARTS	-13.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	IAFD64	MOBILE HOMES	-4.21	-5.8	0.1	34.5	-5.8	52.2	-14.0	16.4	-19.0	-6.3	-2.4

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TABLE 6.10 IMPORTS AND EXPORT DEFICIENCIES

LINE	VAR LABEL	I	J	K	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
---CURRENT DOLLARS (BILL)---																
1	IMBGTEDND	I	TOTAL GOODS AND SERVICES													
2	IMBGTEDND	I	MERCHANDISE TOTAL, NOP BASIS													
3	IMBGTEDND	I	MERCH. DIFF BETWEEN GEN & BOP													
4	IMBGTEDND	I	MERCHANDISE, TOTAL													
5	IMBGTEDND	I	FOOD AND BEVERAGES													
6	IMBGTEDND	I	CRUDE MATERIALS EXPECT FUELS													
7	IMBGTEDND	I	FUELS													
8	IMBGTEDND	I	MANUFACTURED GOODS													
9	IMBGTEDND	I	MFG GOODS EXC AUTOS & PARTS													
10	IMBGTEDND	I	AUTOS AND PARTS													
11	IMBGTEDND	I	NONCANADIAN													
12	IMBGTEDND	I	SERVICES, TOTAL													
13	IMBGTEDND	I	REINVESTED EARNINGS													
14	IMBGTEDND	I	TRAVEL													
15	IMBGTEDND	I	TRANSP PASSENGER FARE													
16	IMBGTEDND	I	TRANSPORTATION, OTHER													
17	IMBGTEDND	I	OTHER													
18	IMBGTEDND	I	TRANSFER UNDER MILITARY AGENCY													
19	IMBGTEDND	I	DIFF BETWEEN BOP & NIA													
20	IMBGTEDND	I	INT PAID BY GOVT TO FOREIGNERS													
21	IMBGTEDND	I	BAL, ON CURRENT ACCOUNT													
---CONSTANT 1972 DOLLARS---																
22	IMBGTEDND	I	TOTAL GOODS AND SERVICES													
23	IMBGTEDND	I	MERCHANDISE TOTAL, NOP BASIS													
24	IMBGTEDND	I	MERCH. DIFF BETWEEN GEN & BOP													
25	IMBGTEDND	I	MERCHANDISE, TOTAL													
26	IMBGTEDND	I	FOOD AND BEVERAGES													
27	IMBGTEDND	I	CRUDE MATERIALS EXPECT FUELS													
28	IMBGTEDND	I	FUELS													
29	IMBGTEDND	I	MANUFACTURED GOODS													
30	IMBGTEDND	I	SERVICES, TOTAL													
31	IMBGTEDND	I	REINVESTED EARNINGS													
32	IMBGTEDND	I	TRAVEL													
33	IMBGTEDND	I	TRANSP PASSENGER FARE													
34	IMBGTEDND	I	TRANSPORTATION, OTHER													
35	IMBGTEDND	I	OTHER													
36	IMBGTEDND	I	TRANSFER UNDER MILITARY AGENCY													
---DEFINERS (1972=100)---																
37	PTMGT	I	TOTAL GOODS AND SERVICES													
38	PTMGT	I	MERCHANDISE TOTAL, NOP BASIS													
39	PTMGT	I	MERCH. DIFF BETWEEN GEN & BOP													
40	PTMGT	I	MERCHANDISE, TOTAL													
41	PTMGT	I	FOOD AND BEVERAGES													
42	PTMGT	I	CRUDE MATERIALS EXPECT FUELS													
43	PTMGT	I	FUELS													
44	PTMGT	I	MANUFACTURED GOODS													
45	PTMGT	I	SERVICES, TOTAL													
46	PTMGT	I	REINVESTED EARNINGS													
47	PTMGT	I	TRAVEL													
48	PTMGT	I	TRANSP PASSENGER FARE													
49	PTMGT	I	TRANSPORTATION, OTHER													
50	PTMGT	I	OTHER													
51	PTMGT	I	TRANSFER UNDER MILITARY AGENCY													
52	PTMGT	I	DIFF BETWEEN BOP & NIA													
53	PTMGT	I	INT PAID BY GOVT TO FOREIGNERS													
54	PTMGT	I	BAL, ON CURRENT ACCOUNT													
---ADDITIONAL---																
55	IMBGTEDND	I	TOTAL GOODS AND SERVICES													
56	IMBGTEDND	I	MERCHANDISE TOTAL, NOP BASIS													
57	IMBGTEDND	I	MERCH. DIFF BETWEEN GEN & BOP													
58	IMBGTEDND	I	MERCHANDISE, TOTAL													
59	IMBGTEDND	I	FOOD AND BEVERAGES													
60	IMBGTEDND	I	CRUDE MATERIALS EXPECT FUELS													
61	IMBGTEDND	I	FUELS													
62	IMBGTEDND	I	MANUFACTURED GOODS													
63	IMBGTEDND	I	SERVICES, TOTAL													
64	IMBGTEDND	I	REINVESTED EARNINGS													
65	IMBGTEDND	I	TRAVEL													
66	IMBGTEDND	I	TRANSP PASSENGER FARE													
67	IMBGTEDND	I	TRANSPORTATION, OTHER													
68	IMBGTEDND	I	OTHER													
69	IMBGTEDND	I	TRANSFER UNDER MILITARY AGENCY													
70	IMBGTEDND	I	DIFF BETWEEN BOP & NIA													
71	IMBGTEDND	I	INT PAID BY GOVT TO FOREIGNERS													
72	IMBGTEDND	I	BAL, ON CURRENT ACCOUNT													

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TABLE 6.20 IMPORTS & EXPORT DEFATORS, GROWTH RATES

LINE	VAR LABEL	TYPE M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	---	---	---	---	---	---	---	---	---	---	---	---	---
2	IMHS	---	15.9	14.2	9.3	13.0	11.5	9.7	10.3	11.2	10.8	10.1	9.4
3	IMHGTDDDS	---	15.9	11.6	8.6	12.9	11.9	10.1	9.7	11.1	10.4	10.1	9.0
4	IMHCS	---	-10.6	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	IMCGT3	---	16.6	11.7	8.0	13.2	12.1	10.4	9.8	11.3	10.5	10.2	9.1
6	IMCGT10+15	---	9.0	1.7	5.6	13.6	2.3	6.2	10.2	13.1	11.9	10.6	9.8
7	IMCGT2+95	---	18.0	4.9	7.4	14.6	18.1	10.9	7.0	9.7	7.4	5.6	6.7
8	IMCGT39	---	-2.2	10.0	15.6	16.7	13.0	11.7	10.9	10.2	9.9	9.7	9.5
9	IMCGT5.95	---	28.0	11.2	6.3	11.3	12.4	10.3	9.5	11.7	10.9	10.8	9.0
10	IMCGT5.9+UGT39	---	32.2	12.6	6.3	11.5	13.4	11.2	10.4	12.6	11.6	11.6	9.8
11	IMUGT39	---	13.8	5.0	6.5	10.6	8.5	6.3	5.0	7.7	7.1	6.5	4.5
12	IMUGT39S	---	12.7	2.0	7.3	9.6	7.6	5.4	4.0	6.7	6.1	5.4	3.4
13	IMUGT3CS	---	15.1	8.1	5.7	11.6	9.4	7.2	5.9	8.6	8.1	7.4	5.5
14	IMHSS	---	25.0	19.1	7.1	12.8	9.8	7.4	12.4	11.6	12.1	11.0	10.6
15	IMHSIFS	---	45.5	21.0	0.1	16.9	9.4	5.4	16.7	14.2	15.3	13.0	12.4
16	IMHSIFS	---	38.4	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	IMHSIFS	---	11.0	14.9	11.7	7.9	11.6	8.7	8.9	9.1	9.1	8.8	8.5
18	IMHSTRPS	---	15.0	21.3	13.9	10.1	8.0	7.0	6.6	7.3	8.0	7.9	7.9
19	IMHSTRPS	---	9.7	21.3	16.1	10.9	10.1	10.2	9.5	10.2	9.7	9.8	8.9
20	IMHSITS	---	11.4	12.2	11.5	9.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0
21	IMHDES	---	14.4	8.9	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---
24	IMH	---	11.1	5.8	1.7	6.1	5.1	4.2	5.9	6.8	6.6	6.2	5.5
25	IMHGTDD	---	9.8	1.9	-0.2	4.6	4.6	3.8	3.9	5.5	4.8	4.9	3.6
26	IMCGT	---	10.5	1.8	-0.3	4.8	4.8	4.0	3.9	5.6	4.9	4.9	3.6
27	IMCGT10+1	---	8.7	-1.1	-0.3	5.0	-5.0	-1.1	3.1	6.1	5.3	4.4	3.7
28	IMCGT2+4	---	14.7	-1.6	1.1	6.8	10.4	4.4	0.3	3.1	1.4	-0.0	1.0
29	IMCGT3	---	-6.0	9.7	8.7	9.4	6.8	6.0	5.7	5.0	4.7	4.5	4.3
30	IMCGT5.9	---	14.3	1.0	-2.0	3.6	5.5	4.2	3.7	5.9	5.1	5.3	3.6
31	IMHS	---	20.8	10.1	1.4	9.0	6.1	4.9	9.8	9.0	9.5	8.5	8.0
32	IMHDE	---	10.6	0.7	4.2	-3.4	-3.4	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3
33	---	---	---	---	---	---	---	---	---	---	---	---	---
34	PTMR	---	4.3	7.9	7.5	6.5	6.0	5.3	4.1	4.2	3.9	3.9	3.8
35	PTMCGT	---	5.5	9.7	9.0	8.0	7.0	6.2	5.7	5.3	5.3	5.1	5.3
36	PTMCGT	---	0.2	2.8	6.0	8.2	7.7	7.3	6.9	6.6	6.3	5.9	5.9
37	PTMCGT	---	-2.7	1.1	5.5	8.2	7.6	7.1	7.0	6.6	6.4	6.0	5.9
38	PTMCGTFC	---	4.3	5.0	6.6	8.3	7.3	6.2	6.6	6.3	6.2	5.9	5.8
39	PTMCGTFC	---	2.9	6.6	6.3	7.3	7.0	6.2	6.6	6.3	5.9	5.6	5.6
40	PTMCGTFC	---	4.1	7.6	6.4	6.7	5.8	5.4	5.0	5.0	5.0	5.0	5.0
41	PTMCGT3	---	12.0	10.2	8.5	7.4	6.5	5.8	5.5	5.5	5.4	5.3	5.2
42	PTMCGT3	---	8.0	11.4	12.3	10.0	8.0	6.0	5.5	5.4	5.3	5.2	5.1
43	PTMCGTMS	---	13.7	9.6	6.8	6.2	5.8	5.0	5.6	5.6	5.5	5.3	5.3
44	PTMCGTMS	---	3.4	8.2	5.6	3.5	3.5	2.3	2.3	2.3	2.3	2.3	2.3
45	PTMMS+DE	---	---	---	---	---	---	---	---	---	---	---	---
46	---	---	---	---	---	---	---	---	---	---	---	---	---
47	---	---	---	---	---	---	---	---	---	---	---	---	---
48	IMHS+OTM	---	12.6	14.5	5.3	8.6	5.8	4.7	9.5	8.8	9.3	8.3	7.9
49	IMHS+OTM	---	13.2	23.8	11.1	12.3	9.4	7.1	12.0	11.2	11.8	10.8	10.3

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TABLE 7.00 IMPORTS: FUELS DETAIL

LINE	VAR LABEL	J. I. E. M.	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1													
2	2 TMOG132	E MILLION TONS-----	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
3	3 TMOG132	E % CHANGE-----	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	4 TMOG132												
5	5 PUTMCG132V	E UNIT PRICE, \$/TON-----	51.45	56.19	59.50	62.77	66.22	69.87	71.71	77.76	82.04	86.55	91.31
6	6 PUTMCG132V	E % CHANGE-----	8.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
7	7 TMOG132S	I VALUE, BILL CURRENT \$-----	0.25	0.27	0.28	0.30	0.31	0.33	0.35	0.37	0.39	0.41	0.43
8	8 TMOG132S	I % CHANGE-----	10.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
9	9 TMOG132S	I UNIT VALUE INDEX, 1972=100-----	180.4	190.6	200.9	211.9	223.6	235.8	248.0	262.5	276.9	292.2	308.2
10	10 TMOG132S	I % CHANGE-----	8.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
11	11 TMOG132	I VALUE, BILL 728-----	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
12	12 TMOG132	I % CHANGE-----	1.3	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	13 TMOG132												
14	14 TMOG132												
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48	48 TMOG132												
49	49 TMOG132												
50	50 TMOG132												

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LINE	VAR LABEL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1		OTHER REFINED PRODUCTS											
2													
3	IMUG130T	E MILL BARRELS	302.01	314.0	325.0	331.5	338.1	348.9	351.8	358.8	368.0	373.3	380.8
4	IMUG130T	E X CHANGE	0.11	4.0	3.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
5	IMUG130T												
6	PUMCG130T	E UNIT PRICE, \$/BARREL	8.991	9.53	10.05	10.60	11.19	11.80	12.45	13.13	13.86	14.62	15.42
7	PUMCG130T	E X CHANGE	2.91	6.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
8	PUMCG130T												
9	IMCG130T	I VALUE, BILL CURRENT \$	2.711	2.99	3.27	3.51	3.78	4.07	4.38	4.71	5.07	5.46	5.87
10	IMCG130T	I X CHANGE	3.11	10.2	9.2	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
11	IMCG130T												
12	PUMCG130T	I UNIT VALUE INDEX, 1972=100	883.61	512.6	580.6	570.3	601.7	634.8	669.7	706.6	745.4	786.4	829.7
13	PUMCG130T	I X CHANGE	3.01	6.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
14	PUMCG130T												
15	IMCG130T	I VALUE, BILL 725	0.561	0.58	0.60	0.62	0.63	0.64	0.65	0.67	0.68	0.69	0.71
16	IMCG130T	I X CHANGE	0.11	4.0	3.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
17	IMCG130T												
18		NATURAL GAS											
19													
20	IMUG134	E BILL CUBIC FEET	190.01	1050.0	1400.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
21	IMUG134	E X CHANGE	-0.91	5.0	33.3	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	IMUG134												
23	PUMCG134	E UNIT PRICE, CTS/THOU CUBIC FEET	277.11	306.2	330.7	354.3	377.9	401.5	425.1	448.7	472.3	495.9	520.7
24	PUMCG134	E X CHANGE	10.01	10.5	6.0	7.1	6.7	6.2	5.9	5.6	5.3	5.0	5.0
25	PUMCG134												
26	IMCG134S	I VALUE, BILL CURRENT \$	2.771	3.22	4.63	6.38	6.80	7.23	7.65	8.08	8.50	8.93	9.37
27	IMCG134S	I X CHANGE	9.01	16.0	44.0	31.7	6.7	6.2	5.9	5.6	5.3	5.0	5.0
28	IMCG134S												
29	PUMCG134	I UNIT VALUE INDEX, 1972=100	592.21	654.4	706.8	757.2	807.7	858.1	908.6	959.0	1009.4	1059.9	1112.9
30	PUMCG134	I X CHANGE	10.01	10.5	8.0	7.1	6.7	6.2	5.9	5.6	5.3	5.0	5.0
31	PUMCG134												
32	IMCG134	I VALUE, BILL 725	0.471	0.49	0.66	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
33	IMCG134	I X CHANGE	-0.91	5.0	33.3	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	IMCG134												

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LINE		VAR LABEL	TABLE 8.10 EXPORTS AND EXPORT DEFATORS											
			I E M											
			1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	
---CURRENT DOLLARS (BILL)---														
1	TEBS	I TOTAL GOODS AND SERVICES	206.4	253.0	281.7	311.7	340.8	380.0	413.3	459.6	510.4	562.6	615.3	
2	TERG	I MERCHANDISE TOTAL, BOP BASIS	142.1	176.3	195.2	216.1	238.4	264.6	290.5	326.2	363.5	402.5	441.5	
3	TERGDS	E DIFF BETWEEN CENSUS & BOP	-0.6	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	
4	TERGDS	I MERCHANDISE TOTAL	141.6	175.9	194.8	215.7	238.0	264.2	290.1	325.8	363.1	402.1	441.1	
5	TERGDS	B FOOD & BEVERAGES	21.6	24.2	26.8	29.6	31.7	34.0	36.8	40.3	43.1	46.8	50.7	
6	TERGDS	B AGRIC EXP UNDER PL 480	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	
7	TERGDS	B CRUDE MATERIALS EXCEPT FUELS	14.9	19.5	19.9	21.5	23.4	26.0	28.7	31.7	34.8	37.8	40.8	
8	TERGDS	I FUELS	3.6	3.9	3.9	4.4	4.8	5.5	6.3	7.0	7.9	8.7	9.7	
9	TERGDS	I MANUFACTURED GOODS	99.5	128.2	144.2	160.2	178.2	198.7	218.3	246.7	277.4	308.6	339.9	
10	TERGDS	B NONAUTO NONAIRCRAFT MF GOODS	78.9	104.4	117.8	131.6	147.3	164.4	182.4	207.1	234.2	261.9	289.5	
11	TERGDS	E AUTOS & PARTS, END-USE	14.8	17.2	19.3	20.9	22.7	24.6	26.7	29.1	31.4	33.7	36.1	
12	TERGDS	E CIVIL AIRCRAFT & PARTS, END-USE	5.8	6.6	7.1	7.5	7.9	9.7	9.2	10.5	11.8	13.1	14.4	
13	TERGDS	I SERVICES TOTAL	66.0	77.2	86.1	94.9	105.4	114.1	121.2	131.5	144.7	157.6	171.0	
14	TERGDS	B RECEIPTS ON US INVEST ABROAD	39.7	47.7	53.0	59.2	65.4	69.6	71.9	76.6	84.1	90.8	97.7	
15	TERGDS	E REINVESTED EARNINGS	8.8	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	
16	TERGDS	B TRAVEL	7.1	8.1	9.0	9.7	10.9	11.8	12.9	14.1	15.5	17.1	18.8	
17	TERGDS	B TRANSPORT, PASSENGER FARES	1.5	1.6	1.9	2.1	2.5	2.9	3.3	3.8	4.3	4.9	5.5	
18	TERGDS	B TRANSPORTATION, OTHER	7.7	9.1	10.0	11.1	12.2	13.6	15.0	16.7	18.4	20.4	22.3	
19	TERGDS	E OTHER	10.0	10.6	11.4	12.8	14.4	16.2	18.2	20.3	22.4	24.5	26.7	
20	TERGDS	E TRANSFER UNDER US MIL AGENCY	8.2	9.0	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3	
21	TERGDS	E DIFF BETWEEN ROP & NIA	-1.2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	
---CONSTANT 1972 DOLLARS---														
22	TEH	I TOTAL GOODS AND SERVICES	108.3	125.3	132.7	138.2	149.1	149.7	154.1	162.7	172.1	181.2	189.7	
23	TEH	I MERCHANDISE TOTAL, BOP BASIS	73.5	83.1	85.4	89.0	92.4	96.7	100.2	106.6	112.8	119.1	124.7	
24	TEH	E DIFF BETWEEN CENSUS & BOP	-0.6	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	
25	TEH	I MERCHANDISE TOTAL	73.3	82.9	85.2	88.8	92.3	96.5	100.1	106.5	112.7	118.7	124.6	
26	TEH	B FOOD & BEVERAGES	11.5	12.9	14.1	14.9	15.1	15.4	15.9	16.5	16.8	17.6	18.4	
27	TEH	B CRUDE MATERIALS EXCEPT FUELS	7.5	7.7	7.1	7.2	7.2	7.5	7.8	8.0	8.3	8.5	8.8	
28	TEH	I FUELS	1.5	1.4	1.3	1.3	1.3	1.4	1.5	1.6	1.7	1.8	1.9	
29	TEH	I MANUFACTURED GOODS	52.8	60.9	62.8	65.5	68.6	72.2	74.9	80.4	85.9	91.1	95.5	
30	TEH	E SERVICES TOTAL	35.0	41.9	46.5	48.4	50.7	52.0	52.8	54.9	58.0	60.7	63.6	
31	TEH	E TRANSFER UNDER US MIL AGENCY	4.4	4.9	5.4	5.2	5.1	4.9	4.8	4.6	4.7	4.6	4.6	
---DEFATORS (1972=100)---														
32	PTEN	I TOTAL GOODS AND SERVICES	100.6	201.9	212.2	225.5	239.3	253.8	268.2	282.6	296.6	310.5	324.4	
33	PTEN	I MERCHANDISE TOTAL	100.6	212.2	228.5	242.8	258.0	273.8	289.9	306.0	322.1	337.9	354.0	
34	PTEN	B FOODS	100.6	187.1	190.2	198.6	209.2	220.5	231.9	244.6	256.4	266.3	276.1	
35	PTEN	B CRUDE MATERIALS	225.7	254.3	282.0	300.7	322.9	346.2	369.5	395.0	419.7	442.2	463.0	
36	PTEN	B FUELS	239.1	273.2	307.0	339.3	372.4	406.8	420.3	442.6	465.6	489.0	513.0	
37	PTEN	B MANUFACTURED GOODS	100.6	210.7	229.5	244.6	259.7	275.2	291.4	307.0	322.8	339.0	355.8	
38	PTEN	I SERVICES & DEFENSE	100.6	184.0	185.0	196.2	207.8	219.3	229.6	239.8	249.7	259.5	269.0	
---ADDENDUM---														
39	ZWAPCET	I CPTIMD AVE IN 7 COUNTRIES	102.3	174.7	188.9	199.6	215.7	229.6	244.5	260.4	277.3	295.2	314.4	
40	ZWAPCET	I FX RATE 7 COUNTRY MID AVE	110.5	112.0	111.5	111.5	111.5	111.5	111.6	111.6	111.6	111.6	111.6	
41	ZWAPCET	I IND PROD 7 COUNTRY MID AVE	127.5	134.6	141.7	148.0	154.5	161.4	168.5	175.9	183.7	191.8	200.3	
42	ZWAPCET	E WORLD TRADE, PRICE INDEX	225.7	242.6	259.3	278.2	297.3	316.3	336.6	358.2	380.6	404.1	428.3	
43	ZWAPCET	I EXP SERVICES & OTHER (1972 \$)	35.0	42.4	47.5	49.4	51.8	53.2	54.1	56.2	59.4	62.2	65.1	
44	ZWAPCET	I EXP SERVICES & OTHER (CURR \$)	64.8	77.1	86.9	96.0	106.8	115.8	123.2	131.8	147.3	160.5	174.2	
45	ZWAPCET	B EXP OFFICE SERVICES & OTHER	195.1	181.7	183.0	194.3	206.1	217.6	227.9	238.2	248.1	258.0	267.6	

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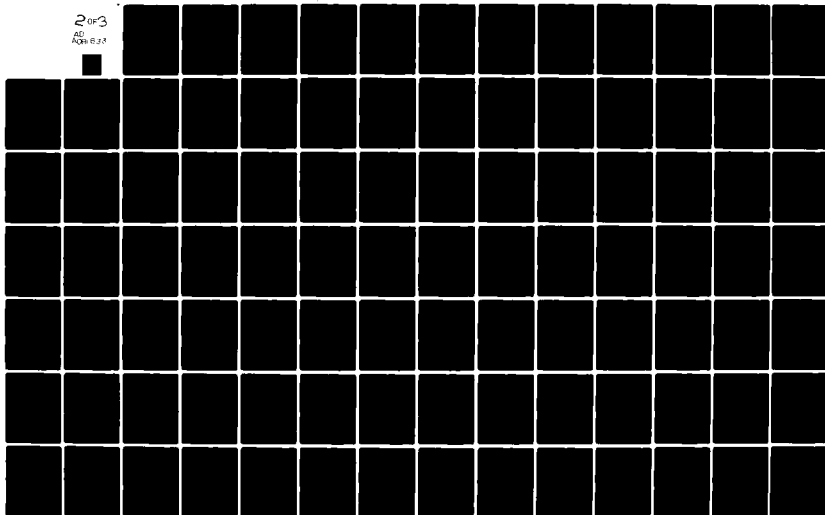
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WHARTON ECONOMETRIC FORECASTING ASSOCIATES PHILADELPH--ETC F/6 5/9
FINAL REPORT FOR OFFICE OF NAVAL RESEARCH CONTRACT N00014-76-C---ETC(U)
JUL 79 M L WACHTER, C KIM N00014-76-C-0782

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 8.20 EXPORTS AND EXPORT DEFATORS, GROWTH RATES

LINE	VAR LABEL	I	J	E	M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2	TEBS	1	---	---	---	17.61	22.6	11.4	10.6	10.6	10.2	8.8	11.2	11.0	10.2	9.4
3	TEBGTEDD3	1	---	---	---	17.91	24.0	10.7	10.7	10.3	11.0	9.8	12.3	11.4	10.7	9.7
4	TEBGS	1	---	---	---	-70.31	-29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	TECGD3	1	---	---	---	20.61	24.2	10.7	10.7	10.3	11.0	9.8	12.3	11.5	10.8	9.7
6	TECGD0.13	1	---	---	---	35.71	11.7	10.8	10.4	7.1	7.4	8.2	9.6	8.7	8.7	8.3
7	TECGDPL4803	1	---	---	---	-45.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	TECGD2443	1	---	---	---	19.11	15.8	1.9	8.3	8.5	11.2	10.4	10.5	9.7	8.7	7.9
9	TECGD35	1	---	---	---	-14.71	10.8	-0.9	11.5	9.8	14.8	13.6	12.4	11.8	11.2	10.8
10	TECGD5.93	1	---	---	---	18.91	28.9	12.5	11.1	11.2	11.5	9.9	13.0	12.4	11.3	10.1
11	TECGD5.9-1-2203	1	---	---	---	19.71	32.4	12.8	11.9	12.0	11.4	10.9	13.6	13.1	11.9	10.5
12	TEUG135	1	---	---	---	22.31	16.1	12.1	8.1	8.4	8.5	8.6	6.7	8.0	7.4	6.9
13	TEUG12203	1	---	---	---	2.11	14.1	7.3	5.6	5.1	22.7	-5.1	14.1	12.4	11.0	9.9
14	TEBS1	1	---	---	---	18.81	17.0	11.6	10.2	11.1	8.2	6.3	8.5	10.0	8.9	8.5
15	TEBS1F5	1	---	---	---	23.71	20.2	12.8	10.0	10.5	6.4	3.2	6.7	9.7	8.0	7.6
16	TEBS1F5F5	1	---	---	---	20.01	-13.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	TEBS1F5F5F5	1	---	---	---	16.01	-3.0	11.2	7.3	12.0	8.5	9.5	9.6	9.8	10.0	10.2
18	TEBS1F5F5F5F5	1	---	---	---	7.91	10.6	18.9	14.0	16.4	15.9	14.4	14.1	13.8	13.7	13.6
19	TEBS1F5F5F5F5F5	1	---	---	---	10.01	18.4	9.7	10.9	10.7	11.2	10.4	10.8	10.5	10.6	9.5
20	TEBS1F5F5F5F5F5F5	1	---	---	---	11.61	6.3	7.5	12.5	12.3	12.3	12.3	12.0	10.2	9.1	9.1
21	TEBS1F5F5F5F5F5F5F5	1	---	---	---	15.81	10.1	10.0	2.7	2.9	2.9	2.8	2.7	2.6	2.6	2.5
22	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
24	TEB	1	---	---	---	10.21	15.0	5.9	4.2	4.2	3.9	2.9	5.5	5.8	5.3	4.7
25	TEBGTEDD00	1	---	---	---	8.71	13.0	2.8	4.2	3.8	4.6	3.6	6.4	5.9	5.6	4.7
26	TECGD	1	---	---	---	10.71	13.2	2.8	4.2	3.9	4.6	3.7	6.4	5.9	5.6	4.7
27	TECGD0.1	1	---	---	---	26.31	12.5	8.9	5.8	1.6	1.9	2.9	3.9	1.9	4.6	4.4
28	TECGD2.4	1	---	---	---	17.31	2.8	-8.2	1.5	1.1	3.7	3.5	3.3	3.3	3.2	3.1
29	TECGD3	1	---	---	---	-23.01	-3.0	-11.8	0.9	0.0	1.8	7.2	6.7	6.3	5.9	5.6
30	TECGD5.9	1	---	---	---	8.21	15.3	3.2	4.2	4.7	5.2	3.8	7.2	7.0	6.9	4.9
31	TEBS	1	---	---	---	14.21	19.8	11.0	3.9	4.8	2.5	1.5	3.9	5.7	4.8	4.7
32	TEBDF	1	---	---	---	11.41	12.8	9.4	-3.1	-2.8	-2.5	-1.8	-1.7	-1.4	-1.3	-1.1
33	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
34	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
35	PTEN	1	---	---	---	6.71	5.9	5.1	6.2	6.1	6.1	5.7	5.4	5.0	4.7	4.5
36	PTEEGD	1	---	---	---	8.51	9.8	7.7	6.2	6.2	6.1	5.9	5.5	5.1	4.9	4.8
37	PTEEGDF	1	---	---	---	7.41	-0.7	1.7	4.4	5.4	5.4	5.1	5.5	4.8	3.9	3.7
38	PTEEGDCM	1	---	---	---	1.51	12.7	10.9	6.6	7.4	7.2	6.7	6.9	6.2	5.4	4.7
39	PTOFUEL	1	---	---	---	10.81	14.2	12.4	10.5	9.8	6.6	5.9	5.3	5.2	5.0	4.9
40	PTEEGDM	1	---	---	---	9.91	11.8	8.9	6.6	6.2	6.0	5.9	5.4	5.1	5.0	4.9
41	PTENSDNE	1	---	---	---	4.01	-2.4	0.5	6.1	5.9	5.5	4.7	4.4	4.1	3.9	3.7
42	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
43	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
44	ZMAPCET	1	---	---	---	12.81	7.6	8.2	5.6	8.1	6.5	6.5	6.5	6.5	6.5	6.5
45	REXWA	1	---	---	---	9.51	1.4	-0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	ZMAP7	1	---	---	---	5.61	5.6	5.3	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4
47	PTIMW	1	---	---	---	8.51	7.5	6.9	7.3	6.8	6.4	6.4	6.4	6.3	6.2	6.0
48	TEBS0TM	1	---	---	---	9.41	21.2	12.0	4.0	4.9	2.4	1.4	3.9	5.4	4.8	4.7
49	TEBS0TMS	1	---	---	---	12.71	18.9	12.8	10.5	11.2	8.4	6.5	8.6	10.1	8.9	8.6
50	PTMS0TMS	1	---	---	---	3.01	-1.8	0.7	6.2	6.1	5.6	4.7	4.5	4.2	4.0	3.7

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LINE VAR LABEL		TABLE 9.00 IP INDICES, CONSUMER AND WHOLESALE PRICE INDICES (1967=100)															
ITEM		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988					
CONSUMER PRICE INDICES																	
1																	
2	B ALL ITEMS	195.31	211.4	227.2	243.5	260.2	277.3	294.4	311.6	328.4	345.2	361.8					
3	PC																
4	PC																
5	B	7.61	6.2	7.5	7.2	6.9	6.6	6.2	5.8	5.4	5.1	4.8					
6	PCCF																
7	PCCF																
8	B	211.21	225.8	242.0	254.7	269.1	284.3	299.7	316.3	332.4	347.7	362.1					
9	PCF																
10	PCF																
11	B	9.91	6.9	7.2	5.3	5.7	5.7	5.4	5.5	5.1	4.6	4.1					
12	PCSR																
13	PCSR																
14	B	210.91	230.4	250.4	267.3	284.9	303.6	322.7	341.9	361.5	382.3	403.6					
15	PCF																
16	PCF																
17	B	8.51	9.3	8.7	6.8	6.6	6.6	6.1	5.9	5.7	5.8	5.6					
18	PCSR																
19	PCSR																
20	B	164.01	176.7	189.9	200.4	212.5	225.3	237.7	250.4	263.8	276.7	289.3					
21	PCF																
22	PCF																
23	B	6.81	7.7	7.5	5.6	6.0	6.0	5.5	5.4	5.4	4.9	4.2					
24	PCSR																
25	PCSR																
26	B	200.91	222.1	236.3	249.1	263.1	276.3	289.8	304.2	318.5	332.0	345.0					
27	PCF																
28	PCF																
29	B	7.61	6.3	6.4	5.4	5.6	5.0	4.9	5.0	4.7	4.2	3.9					
30	PCSR																
31	PCSR																
32	B	203.91	217.4	229.3	243.6	257.8	272.3	287.4	303.0	318.3	332.9	347.8					
33	PCF																
34	PCF																
35	B	7.21	6.6	5.5	6.2	5.8	5.6	5.6	5.4	5.0	4.6	4.5					
36	PCSR																
37	PCSR																
38	B	190.61	208.7	222.4	234.1	246.6	259.1	271.6	284.6	297.7	310.2	322.5					
39	PCF																
40	PCF																
41	B	7.71	7.3	6.6	5.2	5.4	5.0	4.8	4.8	4.6	4.2	4.0					
42	PCSR																
43	PCSR																
44	B	192.61	206.9	218.9	229.7	241.4	252.9	264.5	276.8	289.1	300.9	312.1					
45	PCF																
46	PCF																
47	B	7.61	7.0	6.2	4.9	5.1	4.8	4.6	4.7	4.4	4.1	3.7					
48	PCSR																
49	PCSR																
50	B	199.21	215.4	231.9	247.8	262.9	278.1	293.4	308.7	323.8	339.0	354.4					
51	PCF																
52	PCF																
53	B	7.91	8.2	7.6	6.9	6.1	5.8	5.5	5.2	4.9	4.7	4.6					
54	PCSR																
55	PCSR																
56	B	239.81	252.0	268.4	282.2	300.4	319.0	338.3	357.4	376.5	395.6	414.7					
57	PCF																
58	PCF																
59	B	11.71	5.2	6.5	5.1	6.5	6.2	6.0	6.8	6.1	4.9	4.0					
60	PCSR																
61	PCSR																
62	B	214.81	227.2	241.9	254.8	268.9	281.5	294.2	307.7	321.0	333.9	346.7					
63	PCF																
64	PCF																
65	B	6.51	5.8	6.4	5.3	5.5	4.7	4.5	4.6	4.3	4.0	3.8					
66	PCSR																
67	PCSR																
FRB INDUSTRIAL PRODUCTION INDEX																	
68																	
69	B TOTAL	144.91	151.3	154.5	160.5	167.3	173.4	178.7	186.0	193.4	200.1	205.6					
70	IP																
71	IP																
72	B	5.71	4.4	2.1	3.9	4.3	3.6	3.1	4.1	4.0	3.5	2.7					
73	IPMF																
74	IPMF																
75	B	145.81	152.3	155.8	161.3	168.0	173.9	179.0	186.2	193.4	199.9	205.1					
76	IPMF																
77	IPMF																
78	B	6.11	4.8	2.2	3.6	4.1	3.5	3.0	4.0	3.9	3.4	2.6					
79	IPMF																
80	IPMF																
81	B	139.11	146.6	149.5	155.4	162.8	168.9	173.8	181.5	189.0	195.4	199.8					
82	IPMF																
83	IPMF																
84	B	7.41	5.4	2.0	3.9	4.8	3.7	2.9	4.4	4.2	3.3	2.3					
85	IPMF																
86	IPMF																
87	B	154.51	160.5	164.8	169.8	175.8	181.1	186.7	193.0	199.7	206.4	212.8					
88	IPMF																
89	IPMF																
90	B	4.31	3.9	2.4	3.1	3.3	3.2	3.1	3.4	3.5	3.4	3.1					
91	IPMF																
92	IPMF																
93	B	141.11	143.5	145.4	154.2	162.7	169.6	175.7	184.3	193.2	201.8	209.3					
94	IPMF																
95	IPMF																
96	B	3.61	1.7	1.3	6.0	5.5	4.3	3.6	4.9	4.8	4.5	3.7					
97	IPMF																
98	IPMF																
99	B	123.71	124.3	123.7	130.8	137.2	142.1	145.9	152.4	158.7	164.8	169.1					
100	IPMF																
101	IPMF																
102	B	5.01	0.5	-0.8	5.7	4.9	3.6	2.6	4.5	4.1	3.6	2.8					
103	IPMF																
104	IPMF																
105	B	160.81	165.0	169.7	180.3	191.1	200.3	208.9	219.9	231.7	243.5	258.2					
106	IPMF																
107	IPMF																
108	B	2.51	2.9	2.8	6.3	6.0	4.8	4.3	5.3	5.4	5.1	4.4					

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AGE 20

TABLE 10.10 REAL OUTPUT (1972 \$)

LINE	VAR LABEL	I	T	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNP	I				1384.2	1416.7	1438.5	1487.2	1500.4	1585.7	1626.5	1684.4	1740.5	1791.5	1835.4
2																
3	XVGAG	B	AGRIC. FORESTRY AND FISHERIES			34.9	35.0	34.9	36.5	38.1	39.4	40.4	41.0	43.1	44.5	45.7
4																
5	XVGMG	I	MINING			20.0	21.6	22.0	22.9	23.9	24.8	25.4	26.5	27.5	28.4	29.2
6																
7	XVGMG10	B	METAL MINING			1.2	1.2	1.2	1.3	1.5	1.5	1.5	1.5	1.5	1.6	1.6
8	XVGMG11+12	B	COAL MINING			3.7	3.8	3.9	4.1	4.3	4.5	4.7	4.9	5.2	5.4	5.5
9	XVGMG13	B	CRUDE PETROLEUM AND NATURAL GAS			13.3	13.9	14.2	14.7	15.3	15.8	16.2	16.9	17.5	18.1	18.6
10	XVGMG14	B	MINING OF NONMETALLIC MINERALS			2.6	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.4	3.4
11																
12	XVGMF	I	MANUFACTURING			342.4	356.9	365.0	378.8	395.5	407.8	417.8	434.6	450.5	463.5	473.3
13																
14	XVGMFD	I	DURABLE GOODS			203.4	213.0	217.8	226.5	237.3	244.7	250.4	261.1	271.0	278.5	283.5
15	XVGMFH	I	NONDURABLE GOODS			139.0	143.9	147.2	152.3	158.1	163.0	167.4	173.5	179.5	185.0	189.8
16																
17	XVGRGT	I	TRANSPORTATION			53.1	53.7	53.5	55.2	57.3	59.1	60.5	62.8	65.0	66.9	68.5
18																
19	XVGRGCCB	B	COMMUNICATIONS			46.0	46.7	51.4	56.4	57.3	60.3	62.9	66.3	70.1	74.3	79.0
20																
21	XVGRGU9	H	UTILITIES			32.1	32.9	33.7	35.1	36.5	37.6	38.5	39.7	41.1	42.5	43.6
22																
23	XVGCD	I	COMMERCIAL AND OTHER			686.7	697.1	704.3	725.9	751.6	773.3	793.7	821.6	848.5	873.3	894.9
24																
25	XVGCM	I	COMMERCIAL			678.3	687.4	693.5	715.1	740.8	762.4	783.3	810.9	837.3	861.8	883.1
26	XVGCC	B	CONTRACT CONSTRUCTION			57.0	55.5	52.9	54.1	56.2	57.0	57.5	59.5	60.9	61.5	61.6
27	XVGFI	I	FINANCE, INSURANCE & REAL ESTATE			214.5	221.4	225.1	231.2	239.2	248.9	254.4	263.1	271.6	279.8	287.5
28	XVGFI65+6	B	REAL ESTATE & COMBINATIONS OFFICES			161.0	165.3	167.7	171.7	177.4	183.0	188.5	194.6	200.6	206.5	211.9
29	XVGFI65+6	B	OTHER FINANCE			53.6	56.2	57.4	59.5	61.8	63.9	66.0	68.5	70.9	73.4	75.6
30	XVGSV	B	SERVICES			168.9	167.3	169.8	175.7	182.5	188.6	194.7	202.2	209.7	217.0	223.9
31	XVGMH	I	WHOLESALE AND RETAIL TRADE			237.0	243.2	245.6	254.1	262.9	270.0	276.7	286.1	295.1	303.3	310.1
32	XVGMH52.9	B	RETAIL TRADE			142.0	145.6	146.4	151.1	156.0	160.0	163.8	169.1	174.2	178.4	182.7
33	XVGMH50+1	B	WHOLESALE TRADE			95.0	97.6	99.2	103.0	107.0	110.0	112.9	116.9	120.9	124.4	127.4
34	XVGMH	B	REST OF WORLD			8.4	9.6	10.9	10.8	10.8	10.8	10.4	10.7	11.2	11.5	11.8
35																
36	XVGCV	I	GOVERNMENT			168.3	170.9	173.8	176.5	180.2	183.6	187.3	191.1	194.6	198.1	201.6
37																
38	XVGCVG	B	GENERAL GOVERNMENT			149.9	152.9	156.4	158.5	161.5	164.4	167.6	170.7	173.7	176.8	179.9
39	XVGCVF	B	FEDERAL ENTERPRISES			8.9	8.6	8.3	8.5	8.7	8.8	9.0	9.2	9.4	9.5	9.6
40	XVGCVSE	B	STATE AND LOCAL ENTERPRISES			9.6	9.4	9.1	9.5	10.0	10.4	10.8	11.2	11.5	11.8	12.1
41																
42			DUMMY INDUSTRIES													
43																
44	XVGNTM	B	IMPORTS OF GOODS AND SERVICES			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	XVGNTVA	B	INVENTORY VALUATION ADJUSTMENT			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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TABLE 10.10 REAL OUTPUT (1972 \$)

LINE	VAR LABEL	I T F M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	XVCMF	I MANUFACTURING	342.4	356.9	365.0	378.8	395.5	407.8	417.8	434.6	450.5	463.5	473.3
2													
3	XVCMFD	I DURABLE GOODS	203.4	213.0	217.8	226.5	237.3	244.7	250.4	261.1	271.0	278.5	283.5
4													
5	XVCMFD24	B LUMBER	10.0	10.4	10.8	11.3	12.0	12.4	12.7	13.1	13.9	14.5	15.1
6	XVCMFD25	B FURNITURE	5.21	5.4	5.6	5.8	6.1	6.2	6.4	6.6	7.1	7.3	7.4
7	XVCMFD12	B STONE, CLAY AND GLASS	10.8	11.3	11.6	11.7	12.1	12.4	12.7	13.3	13.8	14.2	14.4
8	XVCMFD13	B PRIMARY METALS	20.8	21.8	22.2	22.8	23.8	24.2	24.8	25.5	26.9	27.4	27.7
9	XVCMFD14	B FABRICATED METAL PRODUCTS	21.0	21.9	22.4	23.2	24.1	24.7	25.2	26.1	26.9	27.4	27.7
10	XVCMFD15	B NONELECTRICAL MACHINERY	37.6	38.4	40.9	42.8	45.2	46.8	48.0	50.3	52.3	53.8	54.7
11	XVCMFD16	B ELECTRICAL MACHINERY	32.7	34.9	35.1	36.6	38.3	39.8	41.1	43.0	44.9	46.5	47.9
12	XVCMFD17	B MOTOR VEHICLES	34.8	35.4	36.5	38.2	40.2	41.7	42.8	45.0	46.9	48.4	49.4
13	XVCMFD18	B INSTRUMENTS	9.1	9.6	9.9	10.3	10.8	11.2	11.6	12.1	12.6	13.1	13.4
14	XVCMFD13SP2	I NONAUTO TRANS EQ + ORD + MISC	21.4	22.8	23.9	25.0	26.8	28.4	29.9	31.6	33.6	35.0	36.3
15	XVCMFD13SP1	B NONAUTO TRANS EQUIP + ORD	15.0	17.0	17.1	17.8	18.5	18.9	19.3	20.0	20.8	21.4	21.8
16	XVCMFD19	B MISCELLANEOUS MANUFACTURING	6.4	5.7	5.0	6.0	6.2	6.4	6.6	6.9	7.1	7.3	7.5
17													
18	XVCMFN	I NONDURABLE GOODS	139.0	143.9	147.2	152.3	158.1	163.0	167.4	173.5	179.5	185.0	189.8
19													
20	XVCMFN20	B FOOD AND BEVERAGES	32.7	33.5	33.5	34.4	35.3	36.1	36.9	37.7	38.5	39.3	40.0
21	XVCMFN21	B TOBACCO	4.9	5.0	5.1	5.3	5.4	5.6	5.8	6.0	6.3	6.6	6.8
22	XVCMFN22	B TEXTILES	10.0	10.4	10.5	10.9	11.4	11.8	12.1	12.5	12.9	13.3	13.6
23	XVCMFN23	B APPAREL	12.5	12.9	13.3	13.8	14.3	14.7	15.1	15.7	16.2	16.8	17.3
24	XVCMFN26	B PAPER	12.6	13.3	13.7	14.3	15.0	15.6	16.1	16.7	17.4	18.0	18.5
25	XVCMFN27	B PRINTING AND PUBLISHING	16.9	17.7	18.5	19.1	19.8	20.3	20.8	21.6	22.3	23.0	23.6
26	XVCMFN28	B CHEMICALS	27.2	28.1	28.8	29.9	31.3	32.5	33.6	35.1	36.6	38.0	39.3
27	XVCMFN29	B PETROLEUM	9.0	9.4	9.7	10.0	10.3	10.5	10.7	11.1	11.4	11.8	12.0
28	XVCMFN30	B RUBBER	10.7	11.1	11.5	12.0	12.6	13.1	13.5	14.2	14.8	15.3	15.7
29	XVCMFN31	B LEATHER	2.4	2.5	2.6	2.7	2.7	2.8	2.8	2.9	2.9	3.0	3.0
30													
31	XVCGT	I TRANSPORTATION	53.1	53.7	53.5	55.2	57.3	59.1	60.5	62.8	65.0	66.9	68.5
32													
33	XVCGT1	B LOCAL AND HIGHWAY PASSENGER	2.9	2.7	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.5
34	XVCGT12	B MOTOR FREIGHT AND WAREHOUSING	24.2	24.6	24.7	25.5	26.5	27.3	28.0	29.0	30.0	30.9	31.5
35	XVCGT10	B RAILROADS	9.8	9.9	9.9	10.1	10.5	10.7	10.9	11.2	11.6	11.8	12.0
36	XVCGT14	B WATER	3.3	3.3	3.3	3.3	3.4	3.5	3.6	3.7	3.8	4.0	4.1
37	XVCGT15	B AIR	9.9	10.2	10.2	10.7	11.3	11.8	12.3	12.8	13.4	14.0	14.4
38	XVCGT16	B PIPELINE	1.2	1.2	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.5	1.6
39	XVCGT17	B TRANSPORTATION SERVICES	1.8	1.8	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4

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TABLE 10-20 REAL OUTPUT, GROWTH RATES

LINE	VAR LABEL	I F M	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNP	I ALL INDUSTRIES	3.91	2.3	1.5	1.4	3.6	2.9	2.6	3.6	3.3	2.9	2.5
2	XVCAG	B AGRIC. FORESTRY AND FISHERIES	-9.01	0.4	-0.3	4.5	4.4	3.4	2.6	3.5	3.2	3.1	2.8
3	XVGMG	I MINING	4.01	3.5	2.1	3.9	4.7	3.4	2.5	4.2	3.8	3.4	2.7
4	XVGMG10	B METAL MINING	6.71	-0.5	3.4	7.0	9.2	5.8	-1.5	1.7	-0.1	1.1	1.1
5	XVGMG11	B COAL MINING	5.91	4.2	2.2	5.0	5.8	4.5	3.7	5.2	4.6	3.8	3.1
6	XVGMG12	B CRUDE PETROLEUM AND NATURAL GAS	4.31	4.6	2.1	3.6	4.0	2.9	2.5	4.2	3.9	3.5	2.7
7	XVGMG13	B MINING OF NONMETALLIC MINERALS	5.61	-1.3	1.9	2.7	4.1	3.4	2.7	4.4	4.0	3.3	2.8
8	XVGMF	I MANUFACTURING	6.21	4.2	2.3	3.8	4.8	3.1	2.5	4.0	3.6	2.9	2.1
9	XVGMFD	I DURABLE GOODS	6.61	4.7	2.3	4.0	4.8	3.1	2.3	4.3	3.8	2.8	1.8
10	XVGMFM	I NONDURABLE GOODS	5.81	3.5	2.3	3.5	3.8	3.1	2.7	3.7	3.5	3.1	2.6
11	XVGRGT	I TRANSPORTATION	2.21	1.2	-0.5	3.3	3.9	3.0	2.9	3.8	3.5	2.9	2.4
12	XVGRGCRB	B COMMUNICATIONS	9.41	6.1	5.4	9.8	1.6	5.3	4.2	5.4	5.8	5.9	6.4
13	XVGRGUH9	B UTILITIES	6.81	2.3	2.3	4.2	4.2	2.8	2.5	3.2	3.5	3.3	2.5
14	XVGRGN	I COMMERCIAL AND OTHER	4.01	1.8	1.0	3.1	3.5	2.9	2.6	3.5	3.3	2.9	2.5
15	XVGRGM	I COMMERCIAL	4.71	1.3	0.9	3.1	3.6	2.9	2.7	3.5	3.3	2.9	2.5
16	XVGRGC	B CONTRACT CONSTRUCTION	3.81	-4.0	-4.6	2.3	3.0	1.4	0.9	3.5	2.4	0.9	0.1
17	XVGRFI	I FINANCE, INSURANCE & REAL ESTATE	4.51	3.2	1.7	2.7	3.5	3.2	3.1	3.4	3.2	3.0	2.7
18	XVGRFI6500	B REAL ESTATE & COMBINATIONS OFFICES	5.11	2.7	1.5	2.4	3.3	3.1	3.0	3.3	3.1	2.9	2.6
19	XVGRFI6506	B OTHER FINANCE	3.01	4.9	2.1	3.7	3.8	3.4	3.3	3.8	3.6	3.4	3.0
20	XVGRSV	B SERVICES	6.21	-0.9	1.5	3.5	3.8	3.4	3.2	3.8	3.7	3.5	3.2
21	XVGRW	I WHOLESALE AND RETAIL TRADE	4.01	2.6	1.0	3.4	3.5	2.7	2.8	3.4	3.2	2.8	2.2
22	XVGRW52.9	B RETAIL TRADE	5.81	2.8	0.6	3.2	3.2	2.6	2.4	3.3	3.0	2.7	2.1
23	XVGRW50+1	B WHOLESALE TRADE	1.71	2.7	1.7	3.8	3.8	2.9	2.6	3.6	3.4	2.9	2.4
24	XVGRW	B REST OF WORLD	14.31	14.9	12.5	-0.9	0.4	0.4	-3.9	2.8	4.1	3.2	2.5
25	XVGGV	I GOVERNMENT	1.61	1.5	1.7	1.6	2.1	1.9	2.0	2.0	1.9	1.8	1.7
26	MRCGVG	B GENERAL GOVERNMENT	1.81	2.0	2.3	1.3	1.9	1.8	1.9	1.9	1.8	1.8	1.8
27	XVGGVFE	B FEDERAL ENTERPRISES	-2.81	-2.7	-3.7	2.1	2.5	1.9	1.7	2.2	2.0	1.3	0.8
28	XVGGVSE	B STATE AND LOCAL ENTERPRISES	1.71	1.5	-3.6	4.7	5.0	4.1	3.5	3.8	3.3	2.7	2.1

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TABLE 10.20 REAL OUTPUT, GROWTH RATES

LINE	VAR LABEL	I T E M	1979	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	AVGMF	1 MANUFACTURING	6.21	4.2	2.3	3.8	4.4	3.1	2.5	4.0	3.6	2.9	2.1
2	AVGMD	1 DURABLE GOODS	6.61	4.7	2.3	4.0	4.8	3.1	2.3	4.3	3.8	2.8	1.8
3	AVGMD24	1 LUMBER	8.01	4.0	3.8	4.7	5.7	3.5	2.3	3.4	3.6	4.7	3.9
4	AVGMD25	1 FURNITURE	5.81	4.1	3.6	2.7	4.8	3.5	2.3	3.2	3.9	2.7	1.6
5	AVGMD26	1 STONE, CLAY AND GLASS	5.01	4.7	2.4	1.3	3.1	2.5	2.3	4.6	3.9	2.8	1.9
6	AVGMD27	1 PRIMARY METALS	3.81	4.7	1.7	3.0	4.2	1.7	-0.8	2.1	1.8	-0.7	-1.7
7	AVGMD28	1 FABRICATED METAL PRODUCTS	9.51	4.6	2.2	3.4	4.2	3.5	1.7	3.7	3.0	2.1	1.1
8	AVGMD29	1 NONFABRICATED METAL PRODUCTS	7.71	5.0	3.6	4.7	5.5	3.5	2.7	4.7	4.1	2.9	1.7
9	AVGMD30	1 ELECTRICAL MACHINERY	8.51	6.6	0.7	4.1	4.8	3.9	3.4	4.6	4.3	3.6	3.0
10	AVGMD31	1 MOTOR VEHICLES	8.81	1.7	3.1	4.7	5.4	3.5	2.9	5.1	4.3	3.2	2.0
11	AVGMD32	1 INSTRUMENTS	4.81	5.5	2.6	4.2	5.0	3.7	3.2	4.7	4.2	3.5	2.7
12	AVGMD33	1 NONAUTO TRANS EQ + ORG + MISC	4.91	6.6	0.7	3.8	4.9	3.7	2.1	3.9	3.5	2.9	2.1
13	AVGMD34	1 NONAUTO TRANS EQUIP + ORG	5.51	7.0	0.6	3.9	3.9	2.2	2.0	3.9	3.5	2.9	2.0
14	AVGMD35	1 MISCELLANEOUS MANUFACTURING	3.11	5.5	1.1	3.4	4.1	3.2	2.9	4.0	3.6	2.9	2.3
15	AVGMF	1 NONDURABLE GOODS	5.81	3.5	2.3	3.5	3.8	3.1	2.7	3.7	3.5	3.1	2.6
16	AVGMF20	1 FOOD AND BEVERAGES	4.01	2.3	-0.0	2.7	2.8	2.3	2.0	2.3	2.2	2.0	1.8
17	AVGMF21	1 TOBACCO	3.41	2.2	1.5	3.1	3.5	3.1	2.8	4.5	4.6	4.2	3.5
18	AVGMF22	1 TEXTILES	4.61	3.6	1.6	4.0	4.2	3.2	2.6	3.0	3.3	2.7	2.2
19	AVGMF23	1 APPAREL	9.31	3.5	2.6	3.7	3.6	3.0	2.9	3.7	3.8	3.3	2.9
20	AVGMF24	1 PAPER	7.41	4.5	2.7	4.3	5.0	4.0	2.9	4.3	4.0	3.4	2.8
21	AVGMF25	1 PRINTING AND PUBLISHING	7.11	5.0	4.8	3.0	3.4	2.8	2.7	3.5	3.4	3.1	2.6
22	AVGMF26	1 CHEMICALS	6.51	3.4	2.7	3.8	4.5	3.9	3.3	4.6	4.3	3.8	3.3
23	AVGMF27	1 PETROLEUM	3.41	3.8	3.1	3.1	3.3	2.4	2.0	3.3	3.2	2.9	2.3
24	AVGMF28	1 RUBBER	3.11	3.4	3.7	4.7	5.1	3.8	3.2	4.7	4.2	3.5	2.7
25	AVGMF29	1 LEATHER	6.61	5.6	2.6	2.2	2.0	1.6	1.4	2.1	2.1	2.0	1.9
26	AVGRC	1 TRANSPORTATION	2.21	1.2	-0.5	3.3	3.9	3.0	2.5	3.8	3.5	2.9	2.4
27	AVGRC1	1 LOCAL AND HIGHWAY PASSENGER	-14.11	-6.4	-6.7	-1.2	-0.4	-0.8	-1.0	0.2	0.4	0.1	4.7
28	AVGRC2	1 MOTOR FREIGHT AND WAREHOUSING	4.41	1.7	0.1	3.3	3.9	3.0	2.6	3.8	3.4	2.7	2.1
29	AVGRC3	1 RAILROADS	0.31	0.5	-0.2	2.7	3.5	2.1	1.3	3.3	3.2	2.2	1.3
30	AVGRC4	1 WATER	4.81	1.0	-2.0	2.5	3.0	2.3	1.6	3.6	3.6	3.0	2.4
31	AVGRC5	1 AIR	3.71	2.8	0.2	4.9	5.1	4.5	4.0	4.7	4.5	4.0	3.8
32	AVGRC6	1 PIPELINE	-1.01	1.0	-2.2	5.5	5.2	4.1	3.8	4.9	4.4	3.9	3.2
33	AVGRC7	1 TRANSPORTATION SERVICES	5.21	1.8	-0.7	3.1	4.2	3.3	3.0	4.3	4.0	3.4	2.6

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LINE	VAR LABEL	I F M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNPPP	ALL INDUSTRIES	14.7	14.7	14.7	14.9	15.2	15.4	15.6	15.9	16.2	16.4	16.6
2													
3	XAGPP	FARM	10.5	11.1	11.4	11.0	12.2	12.6	12.9	13.4	13.0	14.4	14.9
4													
5	XMGPP	MINING	24.1	24.3	25.5	27.0	28.4	29.5	30.3	31.3	32.1	32.8	33.3
6													
7	XMFPF	MANUFACTURING	16.9	17.2	17.5	18.1	18.7	19.2	19.7	20.3	20.9	21.4	21.9
8													
9	XMFDPP	DURABLE GOODS	16.8	17.1	17.3	17.8	18.4	18.8	19.2	19.8	20.3	20.8	21.2
10													
11	XMFD28PP	LUMBER	15.0	15.5	16.1	16.4	17.2	17.5	17.7	18.1	18.8	19.3	19.7
12	XMFD25PP	FURNITURE	9.8	10.0	10.2	10.4	10.8	11.0	11.3	11.7	12.1	12.3	12.4
13	XMFD32PP	STONE, CLAY AND GLASS	15.6	15.7	15.8	16.0	16.5	16.8	17.2	17.8	18.2	18.4	18.7
14	XMFD31PP	PRIMARY METALS	16.6	17.1	17.4	17.7	18.2	18.3	18.3	18.7	18.9	19.0	19.0
15	XMFD18PP	FABRICATED METAL PRODUCTS	13.7	13.9	14.0	14.3	14.6	14.8	15.0	15.4	15.7	15.9	16.1
16	XMFD15PP	NON-ELECTRICAL MACHINERY	16.4	16.6	17.0	17.5	18.1	18.5	18.8	19.3	19.7	20.0	20.3
17	XMFD10PP	ELECTRICAL MACHINERY	16.0	16.4	16.4	17.0	17.7	18.3	18.9	19.7	20.4	21.1	21.7
18	XMFD371PP	MOTOR VEHICLES	36.1	35.8	36.5	37.7	39.0	40.7	42.0	43.9	45.0	47.5	49.1
19	XMFD3752PP	NON-AUTO TRAN EQ. & MISC. MFD	13.8	14.2	14.6	14.6	15.0	15.2	15.8	16.0	16.4	16.7	17.1
20	XMFD38PP	INSTRUMENTS	16.5	16.8	17.0	17.5	18.0	18.5	18.9	19.6	20.1	20.6	21.0
21													
22													
23	XMFNPP	NONDURABLE GOODS	17.0	17.4	17.8	18.4	19.2	19.8	20.4	21.1	21.9	22.5	23.1
24													
25	XMFN20PP	FOOD AND BEVERAGE	18.7	19.5	19.7	20.5	21.8	22.4	23.2	24.1	24.8	25.4	26.0
26	XMFN21PP	TOBACCO	69.7	71.5	72.7	75.4	78.7	82.0	85.3	90.0	95.1	100.2	104.9
27	XMFN22PP	TEXTILES	10.1	10.8	10.6	11.0	11.6	11.7	12.0	12.4	12.8	13.1	13.4
28	XMFN23PP	APPAREL	9.6	9.9	10.1	10.5	10.9	11.3	11.7	12.0	12.4	12.8	13.0
29	XMFN24PP	PAPER	17.9	18.4	18.7	19.3	20.1	20.8	21.4	22.2	23.1	23.9	24.7
30	XMFN27PP	PRINTING AND PUBLISHING	15.0	15.4	16.0	16.3	16.8	17.1	17.3	17.7	18.1	18.4	18.6
31	XMFN20PP	CHEMICALS	25.4	26.1	26.7	28.1	29.6	30.9	32.0	33.5	34.9	36.2	37.4
32	XMFN29PP	PETROLEUM	42.7	43.1	43.7	45.2	47.0	48.6	50.1	52.7	55.3	57.9	60.5
33	XMFN10PP	RUBBER	15.6	15.8	16.1	16.5	17.0	17.3	17.6	18.1	18.5	18.9	19.2
34	XMFN31PP	LEATHER	8.8	9.0	9.1	9.3	9.5	9.7	9.9	10.3	10.6	10.9	11.2
35													
36	XRGPP	REGULATED INDUSTRIES	27.9	28.3	29.0	30.3	31.2	32.1	33.0	34.0	34.9	35.8	36.9
37													
38	XRGTPP	TRANSPORTATION	19.7	19.6	19.5	20.0	20.5	20.9	21.3	21.8	22.2	22.8	23.6
39													
40	XRGCBPP	COMMUNICATIONS	36.8	38.7	40.9	42.9	44.1	46.3	48.3	50.2	51.8	53.8	56.5
41													
42	XRGH9PP	UTILITIES	41.9	42.2	43.5	45.7	47.8	49.3	50.5	51.9	53.9	56.0	57.9
43													
44	XGCPP	COMMERCIAL AND OTHER	13.9	13.7	13.6	13.6	13.7	13.8	13.9	14.2	14.3	14.5	14.6
45	XCCPP	CONTRACT CONSTRUCTION	13.6	12.7	12.1	11.9	12.0	12.1	12.1	12.5	12.7	12.7	12.7
46	XFI PP	FINANCE, INSURANCE & REAL ESTATE	45.3	45.1	44.6	44.1	44.4	45.1	45.9	46.8	47.7	48.5	49.2
47	XSVPP	SERVICES	10.5	10.1	10.0	9.9	10.0	10.1	10.1	10.2	10.3	10.4	10.5
48	XWPP	WHOLESALE AND RETAIL TRADE	12.4	12.4	12.4	12.6	12.8	12.9	13.0	13.3	13.5	13.6	13.7
49													
50	XGVPP	GOVERNMENT	10.8	10.7	10.6	10.7	10.8	10.8	10.9	10.9	10.9	11.0	11.0

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TABLE 11.20 REAL OUTPUT PER PERSON, % CHANGE

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNPPP	I ALL INDUSTRIES	-0.21	0.1	0.1	1.4	1.8	1.4	1.2	2.0	1.8	1.4	1.2
2	XAGPP	FARM	-10.81	5.0	2.9	4.1	3.3	2.7	2.6	3.7	3.6	3.6	3.6
4	XMGPP	MINING	1.01	0.5	5.1	5.8	5.3	3.6	2.7	3.5	2.6	2.0	1.6
6	XMGPP	MANUFACTURING	2.51	2.1	1.5	3.2	3.6	2.7	2.4	3.3	2.9	2.5	2.2
9	XMGPP	DURABLE GOODS	1.31	1.6	1.2	2.9	3.3	2.2	2.0	3.1	2.7	2.2	1.9
10	XMGPP	LUMBER	1.91	3.2	4.1	3.1	3.5	1.7	0.9	2.3	3.9	2.7	2.1
11	XMGPP	FURNITURE	1.01	1.9	2.3	2.2	3.4	2.4	2.6	3.5	3.5	1.5	0.8
12	XMGPP	STONE, CLAY AND GLASS	-2.01	0.4	0.6	1.5	2.8	2.1	2.1	3.3	2.2	1.5	1.3
13	XMGPP	PRIMARY METALS	-0.61	2.7	1.6	2.2	2.4	0.8	-0.1	2.0	1.1	0.4	0.2
14	XMGPP	FABRICATED METAL PRODUCTS	-1.01	1.7	0.6	1.9	2.3	1.4	1.4	2.5	1.9	1.5	1.5
15	XMGPP	NON-ELECTRICAL MACHINERY	2.91	2.1	1.4	3.1	3.5	1.9	1.8	2.6	1.9	1.5	1.5
16	XMGPP	ELECTRICAL MACHINERY	2.71	2.4	-0.0	3.8	4.0	3.5	3.3	3.9	3.6	3.4	3.2
17	XMGPP	MOTOR VEHICLES	0.51	-0.8	2.0	3.2	4.6	3.3	3.1	4.7	4.1	3.8	3.3
18	XMGPP	NON-AUTO TRANSPORT ORG & MISC MFD	0.41	2.6	0.5	2.5	2.5	1.9	2.0	2.8	2.4	2.2	2.0
20	XMGPP	INSTRUMENTS	-0.21	1.7	1.0	3.0	3.3	2.6	2.4	3.2	2.7	2.3	2.0
22	XMGPP	NON-DURABLE GOODS	4.21	2.8	2.0	3.6	3.9	3.3	3.0	3.7	3.4	3.0	2.7
24	XMGPP	FOOD AND BEVERAGE	3.31	4.0	1.2	4.0	4.6	4.4	3.8	3.6	3.0	2.6	2.1
25	XMGPP	TOBACCO	2.61	2.6	1.7	3.7	4.8	4.1	4.0	5.6	5.6	5.3	4.7
26	XMGPP	TEXTILES	3.21	2.9	2.1	3.9	3.8	2.9	2.4	3.5	3.0	2.6	2.2
27	XMGPP	APPAREL	0.01	2.7	2.4	3.8	4.0	3.7	3.8	4.6	4.5	4.5	4.3
28	XMGPP	PAPER	5.21	2.6	1.7	3.5	4.1	3.3	2.7	4.1	3.9	3.5	3.2
29	XMGPP	PRINTING AND PUBLISHING	5.71	2.9	3.6	2.1	2.7	1.9	1.6	2.2	1.9	1.6	1.2
30	XMGPP	CHEMICALS	5.41	2.7	2.3	5.2	5.3	4.4	3.7	4.7	4.2	3.7	3.3
31	XMGPP	PETROLEUM	2.51	0.9	1.4	3.5	4.0	3.4	3.4	4.9	4.8	4.8	4.4
32	XMGPP	RUBBER	1.11	1.6	1.6	3.0	2.9	1.9	1.6	2.8	2.3	1.9	1.4
33	XMGPP	LEATHER	2.91	2.5	0.7	2.0	2.3	2.3	2.5	3.2	3.1	3.1	3.0
35	XMGPP	REGULATED INDUSTRIES	3.11	1.6	2.4	4.5	2.9	3.1	2.7	3.1	2.7	2.4	3.2
37	XMGPP	TRANSPORTATION	1.71	-0.6	-0.6	2.7	2.7	1.9	1.7	2.5	1.6	0.7	1.3
39	XMGPP	COMMUNICATIONS	2.11	5.1	5.7	5.0	2.9	5.0	4.4	3.9	3.2	3.8	5.1
41	XMGPP	UTILITIES	3.51	0.8	3.0	5.0	4.8	3.1	2.4	2.7	1.9	3.8	3.4
43	XMGPP	COMMERCIAL AND OTHER	-0.21	-1.3	-0.8	0.0	1.1	0.8	0.7	1.6	1.3	1.0	0.6
44	XMGPP	CONTRACT CONSTRUCTION	-6.01	-6.8	-4.5	-1.7	1.1	0.1	0.1	3.1	1.7	0.3	-0.3
45	XMGPP	FINANCE, INSURANCE & REAL ESTATE	-0.51	-0.4	-1.3	-1.0	0.7	1.6	1.7	2.1	1.9	1.7	1.4
46	XMGPP	SERVICES	1.31	-4.3	-0.6	-0.5	0.7	0.5	0.4	1.1	1.0	0.8	0.5
47	XMGPP	WHOLESALE AND RETAIL TRADE	-0.21	-0.3	0.1	1.4	1.7	1.0	0.9	1.8	1.5	1.2	0.7
49	XMGPP	GOVERNMENT	-1.11	-0.4	-0.8	0.5	0.7	0.5	0.4	0.4	0.3	0.2	0.2

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TABLE 12.10 NOMINAL OUTPUT (CURRENT \$)

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNPS	2105.712108	2492.2	2754.9	3044.6	3335.5	3628.3	3972.3	4325.6	4682.0	5031.3	
2												
3	XVGSUMS	2103.512105	2489.2	2751.9	3041.6	3332.5	3625.3	3972.3	4325.6	4679.0	5028.4	
4	SDS	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	
5												
6	XVCGAGS	62.11	63.9	67.7	73.1	80.9	88.9	96.9	108.1	119.2	128.6	136.5
7												
8	XVGMGS	63.31	76.7	87.6	101.5	116.6	131.5	145.1	161.1	177.6	194.0	210.0
9												
10	XVGMFS	510.11	567.0	613.0	675.2	742.5	805.4	867.6	945.7	1023.9	1096.4	1169.6
11												
12	XVGMFDS	314.01	351.0	383.2	426.0	475.1	519.1	561.9	617.4	672.7	724.5	772.8
13	XVGMFDS24S	16.41	17.7	19.0	20.8	23.1	25.5	27.6	30.7	34.2	37.2	40.4
14	XVGMFDS25S	7.91	8.7	9.5	10.3	11.2	12.0	12.9	14.0	14.9	15.9	16.9
15	XVGMFDS12S	17.61	19.5	21.2	23.0	25.2	26.4	27.9	30.0	32.1	34.1	36.0
16	XVGMFDS13S	36.51	40.8	43.5	47.7	52.7	57.1	60.2	64.4	68.2	71.1	73.1
17	XVGMFDS14S	35.91	39.9	42.9	47.9	53.1	58.0	62.7	68.7	74.8	80.4	85.5
18	XVGMFDS15S	60.61	67.9	75.3	84.6	95.5	105.6	115.4	128.6	141.3	153.5	164.6
19	XVGMFDS16S	48.21	54.9	59.6	65.6	73.7	80.0	86.4	94.2	101.8	109.1	116.5
20	XVGMFDS17S	44.21	48.6	54.3	61.6	70.0	77.9	85.9	94.6	107.0	117.2	126.3
21	XVGMFDS18S	12.61	14.2	15.5	17.2	18.9	20.6	22.4	24.5	26.6	28.7	30.7
22	XVGMFDS19S	36.01	39.0	42.3	46.8	51.6	56.1	60.6	66.3	71.0	77.4	82.7
23	XVGMFDS20S	26.31	30.3	32.9	36.5	40.2	43.6	47.0	51.4	55.7	59.9	64.0
24	XVGMFDS21S	7.71	8.7	9.4	10.3	11.4	12.5	13.4	14.9	16.2	17.5	18.7
25												
26	XVGMFNS	196.21	216.7	229.9	246.4	267.3	286.3	305.7	328.3	351.2	373.9	396.8
27	XVGMFNS20S	44.21	47.9	50.0	52.2	54.5	57.1	59.7	62.9	66.2	69.7	73.5
28	XVGMFNS21S	6.01	6.6	7.0	7.5	8.1	8.7	9.3	10.0	10.7	11.4	12.1
29	XVGMFNS22S	14.01	15.4	16.4	17.9	19.3	21.1	22.8	24.6	26.5	28.4	30.1
30	XVGMFNS23S	15.31	16.8	17.9	19.4	21.1	22.7	24.4	26.1	27.9	29.7	31.4
31	XVGMFNS24S	20.11	22.0	24.6	26.6	29.0	31.6	34.2	37.0	39.9	42.8	45.8
32	XVGMFNS27S	29.11	27.9	29.7	32.7	35.6	38.7	42.0	45.6	49.4	53.3	57.4
33	XVGMFNS28S	40.01	44.5	47.2	51.3	55.2	58.7	62.2	67.0	71.6	76.0	80.2
34	XVGMFNS29S	13.31	14.8	15.7	17.4	18.9	20.3	21.6	23.1	24.7	26.1	27.5
35	XVGMFNS30S	15.01	16.6	17.8	19.5	21.1	23.0	24.8	27.0	29.0	31.0	32.9
36	XVGMFNS31S	3.11	3.4	3.6	3.9	4.2	4.4	4.7	5.0	5.3	5.5	5.8
37												
38	XVGCNS	1026.41	1120.6	1208.5	1341.0	1493.7	1646.3	1800.3	1979.7	2162.1	2346.7	2528.9
39												
40	XVGRGTS	77.71	82.9	87.2	93.1	99.9	107.1	114.6	123.3	132.7	143.2	153.4
41												
42	XVGRGUNS	52.91	58.1	64.4	72.1	79.7	87.0	95.1	104.6	114.4	123.9	132.6
43												
44	XVGRGCAS	55.41	59.8	64.4	72.0	74.7	80.2	85.3	91.6	98.7	106.4	115.1
45												
46	XVGGVS	255.61	275.4	296.2	323.1	353.0	386.1	420.5	459.1	497.1	538.6	582.2
47	XVGRGVS	226.61	245.4	265.6	289.2	315.9	344.3	374.7	407.6	441.6	478.3	517.5
48	XVGGVFS	15.41	15.0	16.2	17.9	19.0	21.6	23.5	26.0	28.7	31.4	33.6
49	XVGGVFS	13.51	14.1	14.3	16.1	18.1	20.2	22.2	24.5	26.8	29.0	31.1

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TABLE 12.20 NOMINAL OUTPUT, GROWTH RATES

LINE	VAR LABEL	I	I F M	1979	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNPS	I	ALL INDUSTRIES	11.61	9.6	8.0	10.5	10.5	9.6	8.8	9.6	8.9	8.2	7.4
2														
3	XVGSUMS	I	SUM OF NOMINAL OUTPUTS	11.71	9.6	8.0	10.6	10.5	9.6	8.8	9.6	8.9	8.2	7.4
4														
5	XVGCAGS	I	AGRIC, FORESTRY AND FISHERIES	10.41	2.8	6.0	8.0	10.6	9.9	9.0	11.6	10.2	8.0	6.1
6														
7	XVGMGS	I	MINING	27.31	21.3	14.4	15.6	14.9	12.0	10.3	11.1	10.2	9.3	8.1
8														
9	XVGMFS	I	MANUFACTURING	13.01	11.3	8.0	10.1	10.0	8.5	7.7	9.0	8.3	7.3	6.5
10														
11	XVGMFDS	I	DURABLE GOODS	15.41	11.8	9.2	11.4	11.3	9.3	8.2	9.9	9.0	7.7	6.7
12	XVGMFD243	I	LUMBER	15.31	7.7	7.7	9.2	11.4	10.1	8.3	11.2	11.4	8.8	8.6
13	XVGMFD253	I	FURNITURE	16.61	10.0	9.3	8.2	8.5	7.5	7.2	8.6	6.8	6.9	6.0
14	XVGMFD123	I	STONE, CLAY AND GLASS	20.11	10.4	8.8	10.4	7.9	4.9	5.4	7.6	7.1	6.3	5.6
15	XVGMFD133	I	PRIMARY METALS	7.31	11.7	6.8	9.5	10.6	8.3	5.4	6.9	6.0	4.2	2.8
16	XVGMFD143	I	FABRICATED METAL PRODUCTS	16.61	10.9	7.6	11.7	10.9	9.1	8.2	9.7	8.6	7.5	6.4
17	XVGMFD153	I	NONELECTRICAL MACHINERY	17.21	12.2	10.9	12.3	12.9	10.5	9.4	11.1	10.2	8.6	7.2
18	XVGMFD163	I	ELECTRICAL MACHINERY	10.71	13.7	8.6	11.8	10.6	8.6	8.0	9.0	8.1	7.2	6.7
19	XVGMFD173	I	MOTOR VEHICLES	17.31	9.9	11.9	13.3	13.7	11.3	10.2	12.3	11.0	9.5	8.0
20	XVGMFD183	I	INSTRUMENTS	8.91	12.7	9.2	10.8	10.4	8.9	8.5	9.7	8.5	7.0	7.1
21	XVGMFD17SP23	I	NONAUTO TRANS EQ + ORD + MISC	13.11	14.7	8.5	10.9	10.3	8.6	8.1	9.3	8.4	7.6	6.9
22	XVGMFD17SP13	I	NONAUTO TRANS EQUIP + ORD	13.61	15.3	8.5	11.1	10.1	8.3	7.9	9.3	8.4	7.6	6.9
23	XVGMFD193	I	MISCELLANEOUS MANUFACTURING	11.51	12.6	8.4	9.9	10.8	9.7	8.6	9.5	8.7	7.8	7.1
24														
25	XVGMFNS	I	NONDURABLE GOODS	9.31	10.5	6.1	8.1	7.6	7.1	6.8	7.4	7.0	6.4	6.1
26	XVGMFN203	I	FOOD AND BEVERAGES	7.91	8.5	4.3	4.4	4.5	4.7	4.6	5.2	5.4	5.2	5.5
27	XVGMFN213	I	TOBACCO	6.61	10.4	6.0	7.4	7.5	7.1	6.7	7.6	7.2	6.7	6.2
28	XVGMFN223	I	TEXTILES	8.51	10.0	7.0	9.0	8.7	8.4	7.9	8.2	7.7	6.9	6.0
29	XVGMFN233	I	APPAREL	12.61	9.3	6.5	8.7	8.4	7.9	7.5	7.0	6.9	6.3	5.8
30	XVGMFN263	I	PAPER	10.81	13.5	7.8	8.3	8.8	9.1	8.2	8.2	7.8	7.3	6.9
31	XVGMFN273	I	PRINTING AND PUBLISHING	11.81	11.3	6.4	10.0	9.0	8.7	8.4	8.7	8.3	8.0	7.7
32	XVGMFN283	I	CHEMICALS	9.91	11.2	6.0	8.6	7.7	6.3	6.1	7.6	6.9	6.1	5.6
33	XVGMFN293	I	PETROLEUM	7.21	11.0	6.6	10.3	8.8	7.1	6.3	7.3	6.5	5.7	5.4
34	XVGMFN303	I	RUBBER	6.21	10.5	6.9	10.0	9.3	7.8	7.5	8.9	7.7	6.8	6.3
35	XVGMFN313	I	LEATHER	9.31	9.6	4.8	7.9	7.6	6.5	5.9	6.1	5.5	5.0	5.0
36														
37	XVGCNS	I	COMMERCIAL AND OTHER	11.21	9.2	7.8	11.0	11.3	10.2	9.4	10.0	9.2	8.5	7.8
38														
39	XVGCNTS	I	TRANSPORTATION	9.91	6.7	5.2	6.8	7.2	7.2	7.0	7.6	7.7	7.9	7.2
40														
41	XVGCGR493	I	UTILITIES	12.91	9.8	10.8	11.9	10.6	9.2	9.2	10.0	9.3	8.3	7.0
42														
43	XVGCGR483	I	COMMUNICATIONS	12.21	7.8	7.7	11.9	3.7	7.3	6.3	7.4	7.8	7.8	8.1
44														
45	XVGGVS	I	GOVERNMENT AND GOV, ENTERPRISES	6.61	7.7	7.6	9.1	9.5	9.1	8.9	8.9	8.5	8.4	8.1
46														
47	WHGCVGS	I	GENERAL GOVERNMENT	9.01	8.3	8.2	8.9	9.2	9.0	8.8	8.8	8.3	8.3	8.2
48	XVGGVFS	I	FEDERAL ENTERPRISES	10.01	2.9	2.5	9.9	10.7	9.8	8.8	10.5	10.5	9.3	6.9
49	XVGGVFS	I	STATE AND LOCAL ENTERPRISES	1.71	4.3	1.7	11.9	12.8	11.5	10.2	10.2	9.1	8.3	7.3

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TABLE 13.10 EMPLOYMENT (THOUSANDS)

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NEHT	ALL INDUSTRIES	94256	96380	97733	99672	101410	102942	104312	105889	107512	109096	110484
2	NEHA	FARM	3310	3165	3066	3078	3111	3133	3133	3126	3115	3098	3075
3	NEETMG	MINING	862	888	863	848	842	841	839	845	855	867	876
5	NEETMF	MANUFACTURING	20266	20692	20849	20973	21145	21238	21251	21392	21538	21621	21600
6	NEETMFD	DURABLE GOODS	12074	12441	12573	12766	12888	13000	13038	13184	13327	13407	13393
7	NEETMFD24	LUMBER	647	672	670	680	694	706	717	726	738	752	766
8	NEETMFD25	FURNITURE	534	545	553	555	562	567	570	580	584	591	596
9	NEETMFD32	STONE, CLAY AND GLASS	692	721	733	732	735	736	736	746	758	772	786
10	NEETMFD33	PRIMARY METALS	1251	1276	1277	1287	1310	1322	1312	1314	1312	1297	1272
11	NEETMFD30	FABRICATED METAL PRODUCTS	1531	1575	1601	1624	1654	1671	1676	1695	1714	1723	1719
12	NEETMFD35	ELECTRICAL MACHINERY	2290	2354	2404	2442	2491	2530	2554	2606	2661	2696	2702
13	NEETMFD36	ELECTRICAL MACHINERY	2044	2127	2143	2150	2166	2175	2176	2190	2202	2207	2202
14	NEETMFD37	MOTOR VEHICLES	965	988	998	1013	1021	1023	1020	1025	1026	1020	1007
15	NEETMFD37SP2	NONAUTO TRANS EQ + ORD + MISC	1547	1607	1612	1632	1655	1664	1666	1684	1703	1715	1717
16	NEETMFD39	MISCELLANEOUS MANUFACTURING	437	444	451	461	473	480	482	490	496	499	498
17	NEETMFD39SP1	NONAUTO TRANS EQ + ORD	1110	1163	1161	1170	1182	1184	1183	1194	1207	1216	1219
18	NEETMFD39SP2	NONAUTO TRANS EQ	948	993	991	1002	1017	1021	1022	1035	1050	1062	1067
19	NEETMFD39SP3	ORDNANCE MANUFACTURING	162	169	170	168	165	163	161	160	157	154	153
20	NEETMFD39SP4	INSTRUMENTS	554	574	583	590	600	606	611	620	629	637	641
21	NEETMFD39SP5	NONDURABLE GOODS	1892	1923	1926	1927	1927	1927	1927	1927	1927	1927	1927
22	NEETMFD39SP6	FOOD AND BEVERAGES	1745	1719	1698	1677	1648	1615	1586	1566	1554	1546	1541
23	NEETMFD39SP7	TOBACCO	70	70	70	70	69	68	68	67	66	66	65
24	NEETMFD39SP8	TEXTILES	994	1000	996	997	1000	1003	1004	1007	1009	1011	1010
25	NEETMFD39SP9	APPAREL	1303	1313	1316	1314	1310	1301	1289	1278	1265	1250	1233
26	NEETMFD39SP10	PAPER	713	726	733	739	745	750	752	753	754	750	750
27	NEETMFD39SP11	PRINTING AND PUBLISHING	1125	1147	1160	1170	1190	1215	1202	1217	1235	1253	1270
28	NEETMFD39SP12	CHEMICALS	1069	1076	1079	1065	1058	1053	1048	1047	1048	1049	1049
29	NEETMFD39SP13	PETROLEUM	211	217	221	220	219	216	214	210	207	203	199
30	NEETMFD39SP14	RUBBER	680	701	715	727	743	757	768	783	797	810	818
31	NEETMFD39SP15	LEATHER	274	282	287	286	287	285	282	279	276	273	270
33	NEETMFD39SP16	REGULATED INDUSTRIES	4709	4782	4777	4844	4853	4884	4905	4961	5046	5133	5177
34	NEETMFD39SP17	TRANSPORTATION	2691	2741	2745	2760	2790	2820	2841	2876	2930	2993	3026
35	NEETMFD39SP18	UTILITIES	760	780	774	768	764	762	763	766	763	759	753
36	NEETMFD39SP19	COMMUNICATIONS	1250	1261	1257	1315	1298	1302	1300	1319	1351	1381	1398
38	NEETMFD39SP20	COMMERCIAL AND OTHERS	49497	50933	51058	51440	54748	55888	56975	58059	59178	60314	61817
39	NEETMFD39SP21	COMMERCIAL	44128	45528	46191	47639	48813	49819	50772	51722	52707	53700	54678
40	NEETMFD39SP22	CONTRACT CONSTRUCTION	4245	4370	4364	4539	4661	4722	4760	4779	4812	4841	4860
41	NEETMFD39SP23	FINANCE, INSUR, REAL ESTATE	4735	4906	5051	5243	5384	5471	5547	5619	5692	5768	5841
42	NEETMFD39SP24	SERVICES	16082	16648	16943	17472	18220	18730	19254	19774	20308	20856	21398
43	NEETMFD39SP25	WHOLESALE AND RETAIL TRADE	19064	19608	19781	20185	20548	20897	21211	21550	21895	22245	22578
44	NEETMFD39SP26	SELF-EMPLOYED WORKERS, NONAG	6279	6435	6697	6807	6917	7027	7137	7247	7357	7467	7577
45	NEETMFD39SP27	UNPAID FAMILY WORKERS, NONAG	478	470	470	470	470	470	470	470	470	470	470
46	NEETMFD39SP28	CONCEPTUAL DIFF, HH VS ESTAB	-1389	-1500	-1500	-1476	-1452	-1428	-1404	-1380	-1356	-1332	-1308
47	NEETMFD39SP29	GOVERNMENT	15612	15920	16320	16490	16718	16958	17230	17506	17779	18063	18319
48	NEETMFD39SP30	FEDERAL	2757	2770	2770	2776	2783	2791	2800	2810	2822	2834	2846
49	NEETMFD39SP31	STATE AND LOCAL	12854	13150	13550	13714	13936	14167	14431	14696	14957	15229	15492

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TABLE 13.20 EMPLOYMENT, GROWTH RATES

LINE	VAR LABEL	I T E M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NEHT	I ALL INDUSTRIES	4.11	2.3	1.4	2.0	1.8	1.5	1.4	1.5	1.5	1.5	1.3
2	NEHA	B FARM	2.01	-4.4	-3.1	0.4	1.1	0.7	0.0	-0.2	-0.4	-0.5	-0.7
3	NEHTMG	B MINING	3.81	3.0	-2.8	-1.8	-0.6	-0.2	-0.2	0.7	1.2	1.3	1.0
4	NEHTMG	B FARM	3.61	2.1	0.8	0.6	0.8	0.4	0.1	0.7	0.7	0.4	-0.1
5	NEHTMG	B MINING	5.21	3.0	1.1	1.1	1.4	0.9	0.3	1.1	1.1	0.6	-0.1
6	NEHTMG	B DURABLE GOODS	3.91	2.7	-0.4	1.6	2.1	1.8	1.5	1.3	1.7	1.9	1.8
7	NEHTMG	B LUMBER	4.71	2.2	1.3	0.5	1.1	0.7	0.6	1.7	0.6	1.3	0.8
8	NEHTMG	B FURNITURE	6.01	4.2	1.7	-0.1	0.3	0.2	0.0	1.3	1.7	1.3	0.5
9	NEHTMG	B STONE, CLAY AND GLASS	4.01	2.0	0.0	0.8	1.8	0.9	-0.7	0.1	-0.1	-1.1	-2.0
10	NEHTMG	B PRIMARY METALS	5.71	2.9	1.6	1.4	1.9	1.0	0.3	1.1	1.1	0.6	-0.2
11	NEHTMG	B FABRICATED METAL PRODUCTS	4.71	2.8	2.1	1.6	2.0	1.6	0.9	2.0	2.1	1.3	0.2
12	NEHTMG	B NONELECTRICAL MACHINERY	5.61	4.1	0.7	0.3	0.8	0.4	0.0	0.6	0.6	0.2	-0.3
13	NEHTMG	B ELECTRICAL MACHINERY	6.31	2.5	1.0	1.5	0.8	0.2	-0.3	0.4	0.1	-0.6	-1.3
14	NEHTMG	B MOTOR VEHICLES	4.51	3.9	0.3	1.2	1.4	0.6	0.1	1.1	1.1	0.7	0.1
15	NEHTMG	B NONAUTO TRANS ED + ORG + MISC	4.51	1.7	1.6	2.2	2.5	1.5	0.5	1.6	1.3	0.6	-0.3
16	NEHTMG	B MISCELLANEOUS MANUFACTURING	4.51	4.8	-0.2	0.8	1.0	0.2	-0.1	0.9	1.0	0.8	0.3
17	NEHTMG	B NONAUTO TRANS ED + ORG	4.51	4.8	-0.2	1.1	1.5	0.4	0.1	1.2	1.4	1.1	0.5
18	NEHTMG	B NONAUTO TRANS ED	4.51	4.6	0.1	-0.9	-1.9	-1.0	-1.4	1.0	-1.6	-1.6	-1.1
19	NEHTMG	B ORDNANCE MANUFACTURING	5.01	3.7	1.6	1.2	1.6	1.1	0.8	1.4	1.5	1.2	0.8
20	NEHTMG	B INSTRUMENTS	1.51	0.7	0.3	-0.1	-0.1	-0.2	-0.3	-0.1	0.1	0.0	-0.1
21	NEHTMG	B NONDURABLE GOODS	1.41	-1.5	-1.2	-1.2	-1.8	-2.0	-1.8	-1.3	-0.8	-0.5	-0.3
22	NEHTMG	B FOOD AND BEVERAGES	0.71	-0.4	-0.2	-0.6	-0.8	-1.0	-1.2	-1.0	-1.0	-1.1	-1.2
23	NEHTMG	B TOBACCO	1.31	0.6	-0.4	0.0	0.4	0.3	0.1	0.3	0.2	0.1	-0.1
24	NEHTMG	B TEXTILES	1.21	0.8	0.2	-0.1	-0.3	-0.6	-0.9	-0.9	-1.0	-1.1	-1.4
25	NEHTMG	B APPAREL	2.11	1.8	1.0	0.8	0.8	0.6	0.2	0.2	0.1	-0.1	-0.4
26	NEHTMG	B PAPER	1.41	2.0	1.2	0.9	0.7	0.9	1.0	1.3	1.4	1.5	1.4
27	NEHTMG	B PRINTING AND PUBLISHING	1.11	0.7	0.3	-1.3	-0.7	-0.5	-0.4	-0.1	0.1	0.1	-0.0
28	NEHTMG	B CHEMICALS	0.91	2.9	1.7	-0.4	-0.7	-1.0	-1.3	-1.5	-1.6	-1.8	-2.1
29	NEHTMG	B PETROLEUM	1.91	1.8	2.1	1.7	2.1	1.9	1.5	1.9	1.8	1.6	1.1
30	NEHTMG	B RUBBER	3.91	3.0	1.9	0.1	-0.3	-0.7	-1.1	-1.0	-1.0	-1.0	-1.1
31	NEHTMG	B LEATHER	2.61	1.5	-0.1	1.4	0.2	0.6	0.4	1.2	1.7	1.7	0.9
32	NEHTMG	B REGULATED INDUSTRIES	0.91	1.9	0.1	0.6	1.1	1.1	0.7	1.2	1.9	2.2	1.1
33	NEHTMG	B TRANSPORTATION	3.21	1.5	-0.7	-0.8	-0.6	-0.2	0.1	0.4	-0.4	-0.5	-0.9
34	NEHTMG	B UTILITIES	7.11	0.9	-0.3	4.6	-1.3	0.3	-0.1	1.4	2.5	2.1	1.3
35	NEHTMG	B COMMUNICATIONS	5.01	2.9	1.8	3.1	2.4	2.1	1.9	1.9	1.9	1.9	1.4
36	NEHTMG	B COMMERCIAL AND OTHER	5.11	3.2	1.5	3.1	2.5	2.1	1.9	1.9	1.9	1.9	1.8
37	NEHTMG	B COMMERCIAL	10.41	2.9	-0.1	4.0	2.7	1.3	0.8	0.4	0.7	0.6	0.4
38	NEHTMG	B CONTRACT CONSTRUCTION	5.01	3.6	3.0	3.8	3.7	1.6	1.4	1.3	1.3	1.3	1.3
39	NEHTMG	B FINANCE, INSUR, REAL ESTATE	4.91	3.5	2.1	4.0	3.1	2.8	2.8	2.7	2.7	2.7	2.6
40	NEHTMG	B SERVICES	4.21	2.8	0.9	2.0	1.8	1.7	1.5	1.6	1.6	1.6	1.5
41	NEHTMG	B WHOLESALE AND RETAIL TRADE	4.61	2.5	4.1	1.6	1.6	1.6	1.6	1.5	1.5	1.5	1.5
42	NEHTMG	B SELF-EMPLOYED WORKERS, NONAG	-2.61	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	NEHTMG	B UNPAID FAMILY WORKERS, NONAG	3.91	8.0	0.0	-1.6	-1.6	-1.7	-1.7	-1.7	-1.7	-1.8	-1.8
44	NEHTMG	B CONCEPTUAL DIFF, NH VS ESTAB	2.01	2.0	2.5	1.0	1.4	1.4	1.4	1.6	1.6	1.6	1.5
45	NEHTMG	B GOVERNMENT	1.11	0.5	0.0	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4
46	NEHTMG	B FEDERAL	3.11	2.3	3.0	1.2	1.6	1.7	1.9	1.8	1.8	1.8	1.7
47	NEHTMG	B STATE AND LOCAL											

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TABLE 14,10 POPULATION AND LABOR FORCE (MILLIONS)

LINE VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 NPT	I TOTAL POPULATION	218.51	220.31	222.24	224.29	226.43	228.60	230.79	232.98	235.17	237.33	239.48
2												
3 NPT00.04	E TOTAL POPULATION, AGES 00 - 04	15.36	15.68	16.09	16.69	17.33	17.95	18.48	18.88	19.15	19.33	19.45
4 NPT05.09	E TOTAL POPULATION, AGES 05 - 09	16.09	16.49	16.10	15.57	15.42	15.54	15.86	16.26	16.86	17.51	18.12
5 NPT10.14	E TOTAL POPULATION, AGES 10 - 14	18.58	18.06	17.40	17.82	17.64	17.36	16.96	16.56	16.03	15.87	15.98
6 NPT15.19	E TOTAL POPULATION, AGES 15 - 19	21.06	20.91	20.60	20.81	19.40	18.78	18.26	18.00	18.02	17.84	17.57
7 NPT15	E TOTAL POPULATION, AGE 15	4.14	4.08	3.91	3.69	3.59	3.51	3.56	3.64	3.72	3.81	3.83
8 NPT16.17	I TOTAL POPULATION, AGES 16 & 17	8.42	8.28	8.15	7.92	7.54	7.23	7.05	7.02	7.15	7.31	7.49
9 NPT18.19	I TOTAL POPULATION, AGES 18 - 19	8.51	8.56	8.54	8.39	8.27	8.04	7.65	7.34	7.15	7.12	7.25
10 NPT20.24	I TOTAL POPULATION, AGES 20 - 24	20.45	20.72	20.90	21.10	21.07	20.96	20.81	20.49	19.91	19.31	18.70
11 NPT25.29	I TOTAL POPULATION, AGES 25 - 29	18.04	18.44	18.92	19.31	19.76	20.13	20.39	20.57	20.75	20.72	20.62
12 NPT30.34	I TOTAL POPULATION, AGES 30 - 34	15.89	16.56	17.24	18.14	18.08	18.40	18.60	19.24	19.67	20.12	20.49
13 NPT35.39	I TOTAL POPULATION, AGES 35 - 39	13.06	13.59	14.04	14.29	15.43	15.92	16.58	17.28	18.16	18.10	18.40
14 NPT40.44	I TOTAL POPULATION, AGES 40 - 44	11.32	11.51	11.69	11.98	12.41	13.13	13.66	14.10	14.36	15.49	15.98
15 NPT45.49	I TOTAL POPULATION, AGES 45 - 49	11.36	11.21	11.03	11.00	11.05	11.14	11.35	11.53	11.81	12.23	12.94
16 NPT50.54	I TOTAL POPULATION, AGES 50 - 54	11.82	11.72	11.67	11.54	11.40	11.25	11.10	10.93	10.90	10.95	11.06
17 NPT55.59	I TOTAL POPULATION, AGES 55 - 59	11.24	11.36	11.39	11.40	11.31	11.26	11.16	11.11	11.00	10.86	10.71
18 NPT60.64	I TOTAL POPULATION, AGES 60 - 64	9.43	9.57	9.80	10.00	10.28	10.47	10.59	10.61	10.63	10.55	10.49
19 NPT65.69	I TOTAL POPULATION, AGES 65 - 69	8.57	8.66	8.71	8.78	8.83	8.89	8.93	9.25	9.45	9.71	9.89
20 NPT70.74	I TOTAL POPULATION, AGES 70 AND OVER	15.44	15.84	16.29	16.66	17.03	17.40	17.77	18.13	18.45	18.75	19.07
21 NPT75.79	I TOTAL POPULATION, AGES 75 - 79	6.36	6.56	6.79	6.94	7.07	7.17	7.26	7.30	7.36	7.41	7.47
22 NPT75+	I TOTAL POPULATION, AGES 75 & OVER	9.08	9.28	9.49	9.72	9.95	10.23	10.51	10.83	11.09	11.34	11.60
23												
24 NPT16+	I TOTAL POPULATION, AGE 16 & OVER	163.55	166.00	168.35	170.52	172.45	174.25	175.94	177.64	179.40	181.21	182.70
25 NPT20+	I TOTAL POPULATION, AGE 20 & OVER	126.63	129.17	131.66	134.20	136.68	139.08	141.23	143.28	145.09	146.78	148.36
26 NPT30.64	I TOTAL POPULATION, AGES 30 - 64	84.13	85.51	86.85	88.35	89.95	91.59	93.24	94.84	96.53	98.29	100.08
27 NCH	E NUMBER OF HOUSEHOLDS	75.94	77.50	79.06	80.65	82.24	83.82	85.36	86.86	88.31	89.74	91.14
28 NCF	E NUMBER OF FAMILIES	58.26	59.27	60.26	61.27	62.31	63.32	64.29	65.20	66.10	66.97	67.82
29 HCU	E UNRELATED INDIVIDUALS	21.57	22.12	22.68	23.24	23.78	24.32	24.86	25.40	25.90	26.39	26.88
30												
31 NLM	E ARMED FORCES	2.12	2.09	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07	2.07
32												
33												
34 NPC16+	I CIVILIAN POPULATION, AGE 16 & OVER	161.44	163.92	166.28	168.45	170.38	172.18	173.87	175.57	177.33	179.14	180.63
35 NPC16+	I MALE, AGE 16 & OVER	77.64	78.80	79.88	80.81	81.61	82.39	83.12	83.92	84.77	85.65	86.18
36 NPC16+	I FEMALE, AGE 16 & OVER	83.79	85.11	86.40	87.63	88.77	89.79	90.75	91.65	92.56	93.49	94.44
37 NLC	I CIVILIAN LABOR FORCE	100.32	102.74	104.84	106.46	107.98	109.50	110.89	112.27	113.69	115.17	116.55
38 NLC16+	I MALE	58.50	59.76	60.85	60.81	61.33	61.85	62.33	62.85	63.42	64.01	64.46
39 NLC16+	I FEMALE	41.83	42.98	44.19	45.65	46.65	47.64	48.56	49.42	50.27	51.16	52.09
40												
41												
42 NRT1+	PARTICIPATION RATE (PERCENT)	63.05	63.59	63.98	64.13	64.32	64.54	64.73	64.91	65.08	65.26	65.50
43 NRT16+	I MALE	77.79	78.25	78.27	77.47	77.25	77.11	76.96	76.87	76.80	76.74	76.65
44 NRT16+	I FEMALE	49.84	50.45	51.16	52.16	52.71	53.26	53.76	54.18	54.57	54.97	55.51
45												
46 NERT+	TOTAL EMPLOYMENT	94.26	96.38	97.73	99.67	101.42	102.94	104.33	105.89	107.51	109.10	110.48
47 NUT	I TOTAL UNEMPLOYMENT	6.07	6.36	7.11	6.79	6.57	6.55	6.56	6.34	6.14	6.04	6.06
48												
49 NUT	I UNEMPLOYMENT RATE (PERCENT)	6.05	6.19	6.78	6.38	6.08	5.99	5.91	5.69	5.43	5.28	5.20

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TABLE 14.20 POPULATION AND LABOR FORCE, GROWTH RATES

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 NPT	0.81	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9
2 I TOTAL POPULATION	0.81	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9
3 NPT00.04	0.81	2.1	2.4	3.7	3.9	3.5	2.9	2.2	1.5	0.9	0.6
4 NPT05.09	0.81	-2.3	-2.4	-3.3	-1.0	0.8	2.1	2.5	1.7	3.8	3.5
5 NPT10.14	0.81	-2.0	-1.5	0.2	-1.0	-1.6	-2.3	-2.4	-3.2	-1.0	0.7
6 NPT15.19	0.81	-0.7	-1.5	-2.9	-3.0	-3.2	-2.8	-1.4	0.2	-1.0	-1.6
7 NPT20.24	0.81	-1.4	-4.2	-5.5	-2.7	-2.3	-1.3	-2.4	2.2	-0.3	-5.4
8 NPT25.29	0.81	-1.7	-1.9	-2.8	-4.8	-4.1	-2.5	-0.5	1.9	2.1	-3.1
9 NPT30.34	0.81	0.6	-0.2	-1.7	-1.5	-2.8	-4.0	-4.1	-2.5	-0.5	-1.9
10 NPT35.39	0.81	1.3	0.9	0.9	-0.1	-0.5	-0.7	-1.5	-2.9	-1.0	-3.2
11 NPT40.44	0.81	2.2	2.6	2.1	2.3	1.8	1.3	0.9	0.9	-0.2	-0.5
12 NPT45.49	0.81	4.2	4.1	5.2	-0.3	1.7	2.2	2.5	2.1	2.3	1.8
13 NPT50.54	0.81	4.0	3.1	1.8	7.9	3.2	4.2	4.2	5.1	-0.3	1.7
14 NPT55.59	0.81	1.6	1.6	2.5	3.6	5.8	4.0	3.3	1.8	7.9	3.2
15 NPT60.64	0.81	-1.4	-1.6	-0.3	0.4	1.1	1.6	1.6	2.5	3.4	5.8
16 NPT65.69	0.81	-0.8	-0.5	-1.1	-1.2	-1.3	-1.3	-1.5	-1.1	0.4	1.1
17 NPT70.74	0.81	1.1	0.2	0.1	-0.6	-0.5	-0.8	-0.5	-1.1	-1.3	-1.3
18 NPT75.79	0.81	1.5	2.4	2.1	2.7	1.9	1.1	0.2	0.1	-0.8	-0.5
19 NPT80.84	0.81	1.1	0.5	0.6	0.6	0.7	1.5	2.5	2.2	2.8	1.7
20 NPT85.89	0.81	2.6	2.8	2.3	2.2	2.2	2.1	2.0	1.8	1.6	1.7
21 NPT90.94	0.81	3.2	3.5	2.2	1.9	1.4	1.2	0.6	0.8	0.6	0.8
22 NPT95.99	0.81	2.1	2.4	2.4	2.4	2.8	2.7	3.0	2.4	2.3	2.3
23 I TOTAL POPULATION, AGE 16 & OVER	1.61	1.5	1.4	1.3	1.1	1.0	1.0	1.0	1.0	1.0	0.8
24 NPT100.04	1.61	1.7	1.7	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
25 NPT105.09	1.61	1.6	1.6	1.7	1.8	1.8	1.8	1.7	1.8	1.8	1.8
26 NPT110.14	1.61	1.5	1.4	1.3	1.1	1.0	1.0	1.0	1.0	1.0	0.8
27 I TOTAL POPULATION, AGE 16 & OVER	2.11	2.1	2.0	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.6
28 NCH	2.11	1.7	1.7	1.7	1.7	1.6	1.5	1.4	1.4	1.3	1.3
29 NCF	2.61	2.6	2.5	2.5	2.3	2.3	2.2	2.2	2.0	1.9	1.8
30 NCU	2.61	2.6	2.5	2.5	2.3	2.3	2.2	2.2	2.0	1.9	1.8
31 I UNRELATED INDIVIDUALS	-0.81	-1.4	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32 NLH	-0.81	-1.4	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33 I CIVILIAN POPULATION, AGE 16 & OVER	1.61	1.5	1.4	1.3	1.1	1.1	1.0	1.0	1.0	1.0	0.8
34 NPT115.19	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
35 NPT120.24	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
36 NPT125.29	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
37 I CIVILIAN LABOR FORCE	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
38 NLC	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
39 NLCU	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
40 NLCF	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
41 I TOTAL EMPLOYMENT	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
42 NEMT	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7
43 NUT	1.61	1.5	1.4	1.3	1.1	1.0	0.9	0.9	0.9	0.9	0.7

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TABLE 14.30 LABOR FORCE PARTICIPATION RATES (FRACTIONS)

LINE VAR LABEL	I	T	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 NALTF16+ I					0.7719	0.7825	0.7827	0.7747	0.7725	0.7711	0.7696	0.7687	0.7680	0.7674	0.7665
2 NALTF16-19 B					0.6201	0.6194	0.6186	0.6193	0.6207	0.6233	0.6231	0.6257	0.6301	0.6318	0.6294
3 NALTF20-24 B					0.8569	0.8551	0.8551	0.8427	0.8399	0.8376	0.8359	0.8333	0.8303	0.8275	0.8245
4 NALTF25-34 B					0.9495	0.9535	0.9547	0.9507	0.9500	0.9502	0.9508	0.9507	0.9505	0.9509	0.9515
5 NALTF35-44 B					0.9551	0.9609	0.9621	0.9504	0.9494	0.9490	0.9491	0.9485	0.9478	0.9476	0.9476
6 NALTF45-54 B					0.9149	0.9219	0.9225	0.9111	0.9089	0.9077	0.9069	0.9054	0.9040	0.9033	0.9028
7 NALTF55-64 B					0.7351	0.7489	0.7444	0.7233	0.7067	0.6918	0.6770	0.6735	0.6705	0.6680	0.6656
8 NALTF65+ B					0.2044	0.2022	0.1998	0.1944	0.1891	0.1842	0.1796	0.1753	0.1715	0.1683	0.1651
9															
10 NALTF16+ I					0.4984	0.5045	0.5116	0.5216	0.5271	0.5326	0.5376	0.5418	0.5457	0.5497	0.5551
11 NALTF16-19 B					0.5362	0.5348	0.5386	0.5483	0.5588	0.5675	0.5764	0.5858	0.5970	0.6057	0.6169
12 NALTF20-24 B					0.6812	0.6716	0.6994	0.7132	0.7160	0.7221	0.7291	0.7321	0.7357	0.7407	0.7487
13 NALTF25-34 B					0.6206	0.6289	0.6440	0.6578	0.6606	0.6666	0.6730	0.6752	0.6773	0.6805	0.6860
14 NALTF35-44 B					0.6151	0.6242	0.6328	0.6540	0.6711	0.6879	0.7013	0.7101	0.7178	0.7251	0.7340
15 NALTF45-54 B					0.5671	0.5701	0.5749	0.5813	0.5849	0.5933	0.6054	0.6173	0.6325	0.6453	0.6578
16 NALTF55-64 B					0.4149	0.4280	0.4329	0.4362	0.4391	0.4436	0.4431	0.4436	0.4442	0.4445	0.4452
17 NALTF65+ B					0.0835	0.0832	0.0843	0.0843	0.0844	0.0850	0.0855	0.0854	0.0853	0.0854	0.0861
18															
19 NALTF16+ I					0.6305	0.6359	0.6398	0.6413	0.6432	0.6454	0.6473	0.6491	0.6508	0.6526	0.6550
20 NALTF16-19 B					0.5781	0.5768	0.5783	0.5835	0.5895	0.5950	0.5993	0.6053	0.6101	0.6164	0.6228
21 NALTF20-24 B					0.7659	0.7704	0.7745	0.7757	0.7758	0.7779	0.7806	0.7809	0.7812	0.7824	0.7851
22 NALTF25-34 B					0.7805	0.7870	0.7955	0.8007	0.8018	0.8050	0.8085	0.8097	0.8107	0.8125	0.8156
23 NALTF35-44 B					0.7788	0.7862	0.7913	0.7968	0.8034	0.8140	0.8212	0.8255	0.8292	0.8329	0.8376
24 NALTF45-54 B					0.7350	0.7401	0.7431	0.7409	0.7410	0.7455	0.7514	0.7568	0.7619	0.7701	0.7764
25 NALTF55-64 B					0.5601	0.5795	0.5800	0.5719	0.5657	0.5611	0.5540	0.5527	0.5517	0.5508	0.5502
26 NALTF65+ B					0.1330	0.1319	0.1319	0.1292	0.1270	0.1251	0.1237	0.1219	0.1203	0.1191	0.1181
27															

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POST-METTING CONTINUAL ADJUSTMENT - DECEMBER 31, 1970

TABLE 14.40 LABOR FORCE

LINE	VAR	LABEL	I	T	E	M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1																	
2																	
3	MLC	M100	B				58,971	59,762	60,653	60,810	61,331	61,854	62,329	62,853	63,419	64,013	64,460
4	MLC	M100	B				5,054	5,024	4,970	4,865	4,719	4,569	4,390	4,100	4,314	4,366	4,327
5	MLC	M20	B				8,251	8,130	8,249	8,174	8,132	8,064	7,989	7,833	7,563	7,288	7,012
6	MLC	M25	B				15,281	15,058	16,433	16,964	17,456	17,777	18,082	18,351	18,548	18,681	
7	MLC	M35	B				10,991	11,104	11,693	11,812	12,512	13,094	13,649	14,169	14,684	15,182	15,555
8	MLC	M45	B				10,137	11,115	10,030	9,845	9,781	9,754	9,750	9,743	9,838	10,031	10,380
9	MLC	M55	B				7,981	7,324	7,372	7,239	7,140	7,041	6,908	6,872	6,810	6,730	6,652
10	MLC	M65	B				1,910	1,925	1,930	1,916	1,892	1,872	1,850	1,853	1,887	1,888	1,843
11																	
12	MLC	M25	B				36,410	37,359	38,150	38,620	39,049	39,305	41,104	41,995	42,874	43,761	44,624
13																	
14	MLC	F100	B				41,027	42,977	44,192	45,646	46,654	47,442	48,561	49,420	50,271	51,160	52,087
15	MLC	F100	B				4,421	4,403	4,394	4,375	4,320	4,000	3,650	3,830	3,824	3,887	3,894
16	MLC	F20	B				6,061	7,067	7,211	7,423	7,469	7,469	7,479	7,500	7,521	7,552	6,901
17	MLC	F25	B				10,544	11,018	11,654	12,331	12,517	12,656	13,202	13,467	13,708	13,917	14,120
18	MLC	F35	B				7,637	7,777	8,241	8,740	9,497	10,153	10,772	11,315	11,846	12,351	12,799
19	MLC	F45	B				6,733	6,687	6,667	6,693	6,704	6,702	6,942	7,002	7,343	7,646	8,069
20	MLC	F55	B				4,481	4,080	4,749	4,873	4,944	5,023	5,016	5,010	4,986	4,934	4,893
21	MLC	F65	B				1,125	1,146	1,184	1,206	1,220	1,260	1,292	1,319	1,343	1,372	1,407
22																	
23	MLC						100,324	102,730	104,000	106,000	107,000	109,000	110,000	112,273	113,000	115,173	116,546
24	MLC	M100	B				9,496	9,427	9,372	9,240	9,039	8,650	8,248	8,130	8,130	8,273	8,225
25	MLC	M20	B				14,091	13,197	15,420	15,596	15,574	15,535	15,468	15,231	14,784	14,340	13,913
26	MLC	M25	B				25,027	26,076	29,007	29,295	29,552	30,312	30,974	31,550	32,060	32,465	32,801
27	MLC	M35	B				18,628	19,363	19,985	20,550	22,029	23,240	24,421	25,403	26,533	27,535	28,354
28	MLC	M45	B				16,070	16,002	16,607	16,537	16,085	16,546	16,700	16,825	17,101	17,677	18,457
29	MLC	M55	B				11,574	12,004	12,141	12,112	12,084	12,064	11,924	11,801	11,804	11,664	11,546

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POST-MEETING CONTROL SOLU ON - DECEMBER 6, 1978

TABLE 14.40 LABOR FORCE

LINE VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	LABOR FORCE (% CHANGE)											
2	MALE, TOTAL	1.01	2.2	1.5	0.3	0.9	0.9	0.0	0.0	0.9	0.9	0.7
3	AGES 16 TO 19	1.31	-0.6	-0.9	-2.3	-3.0	-3.2	-3.9	-2.0	0.3	1.7	-1.3
4	AGES 20 TO 24	1.91	1.3	1.0	-0.4	-0.5	-0.8	-1.0	-2.0	-3.5	-3.6	-3.0
5	AGES 25 TO 34	2.61	3.8	3.6	3.2	1.0	1.9	1.8	1.7	1.5	1.1	0.7
6	AGES 35 TO 44	3.51	3.6	2.7	1.0	6.1	4.5	4.2	3.8	3.7	3.4	2.5
7	AGES 45 TO 54	-0.51	-0.2	-0.8	-1.8	-0.6	-0.3	0.0	-0.1	1.0	2.0	3.6
8	AGES 55 TO 64	0.81	3.2	0.6	-1.8	-1.4	-1.4	-1.9	-0.5	-0.8	-1.1	-1.1
9	AGES 65 AND OVER	3.51	0.8	0.7	-1.2	-1.3	-1.1	-0.7	-0.3	-0.3	0.1	-0.2
10	MALE, AGES 25 TO 54	2.01	2.6	2.1	1.2	2.1	2.2	2.2	2.0	2.1	2.1	2.0
11	FEMALE, TOTAL	4.71	2.7	2.8	3.3	2.2	2.1	1.9	1.8	1.7	1.8	1.8
12	AGES 16 TO 19	4.11	-0.9	-0.2	-0.4	-1.3	-5.4	-5.7	-0.7	-0.2	1.6	0.3
13	AGES 20 TO 24	4.71	2.9	2.0	2.9	0.3	0.4	0.1	-1.1	-2.4	-2.3	-2.1
14	AGES 25 TO 34	7.11	4.5	5.8	5.8	1.5	2.7	2.7	2.0	1.8	1.5	1.5
15	AGES 35 TO 44	6.81	4.4	3.9	5.5	8.6	6.9	6.1	5.0	4.7	4.1	3.6
16	AGES 45 TO 54	0.51	-0.7	-0.3	0.4	0.2	1.3	2.2	2.0	3.7	4.1	5.5
17	AGES 55 TO 64	2.51	4.5	2.3	1.7	1.5	1.6	-0.1	-0.1	-0.5	-1.0	-0.8
18	AGES 65 AND OVER	5.61	1.9	3.4	1.0	1.9	2.5	2.6	2.1	1.8	2.1	2.6
19	BOTH SEXES, TOTAL	3.01	2.4	2.0	1.5	1.4	1.4	1.3	1.2	1.3	1.3	1.2
20	AGES 16 TO 19	2.61	-0.7	-0.6	-1.4	-2.2	-4.2	-4.7	-1.4	0.1	1.7	-0.6
21	AGES 20 TO 24	3.21	2.1	1.5	1.1	-0.1	-0.2	-0.4	-1.5	-2.9	-1.0	-3.0
22	AGES 25 TO 34	4.41	4.1	4.5	4.3	1.2	2.2	2.2	1.8	1.6	1.3	1.0
23	AGES 35 TO 44	4.81	3.9	3.2	2.9	7.2	5.5	5.0	4.4	4.1	3.8	3.0
24	AGES 45 TO 54	-0.11	-0.4	-0.6	-1.0	-0.3	0.4	0.9	0.8	2.1	2.9	4.4
25	AGES 55 TO 64	1.51	3.7	1.3	-0.4	-0.2	-0.2	-1.2	-0.4	-0.4	-1.2	-1.0

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 14.50 UNEMPLOYMENT RATES (PERCENT)

LINE VAR LABEL	J. I. E. M.	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 NUTM16.1	MALE, TOTAL	5.201	5.35	6.01	5.69	5.49	5.43	5.39	5.18	4.93	4.77	4.71
2 NUTM16.19	AGES 16 TO 19	15.501	15.89	16.95	16.12	15.59	15.73	15.94	15.75	15.56	15.60	15.80
3 NUTM20.24	AGES 20 TO 24	9.091	9.31	10.66	10.28	9.96	9.94	9.95	9.63	9.21	8.95	8.89
4 NUTM25.34	AGES 25 TO 34	4.211	4.40	5.18	4.85	4.71	4.66	4.64	4.45	4.22	4.05	4.00
5 NUTM35.44	AGES 35 TO 44	2.081	2.34	3.50	3.31	3.24	3.22	3.22	3.09	2.91	2.79	2.76
6 NUTM45.54	AGES 45 TO 54	2.791	2.89	3.23	3.09	3.05	3.04	3.05	2.92	2.75	2.62	2.60
7 NUTM55.64	AGES 55 TO 64	2.791	2.98	3.34	3.12	3.10	3.14	3.20	3.18	3.05	3.00	3.06
8 NUTM65.1	AGES 65 AND OVER	4.591	4.68	5.08	4.72	4.57	4.57	4.59	4.48	4.35	4.29	4.31
9 NUTM25.54	MALE, AGES 25 TO 54	3.421	3.58	4.15	3.93	3.83	3.80	3.79	3.64	3.43	3.28	3.24
11 NUTF16.1	FEMALE, TOTAL	7.231	7.35	7.84	7.29	6.87	6.71	6.58	6.33	6.07	5.91	5.81
12 NUTF16.19	AGES 16 TO 19	17.101	17.02	17.57	16.48	15.64	15.64	15.71	15.46	15.28	15.33	15.42
13 NUTF20.24	AGES 20 TO 24	10.291	10.41	11.13	10.37	9.71	9.50	9.34	8.94	8.54	8.26	8.07
14 NUTF25.34	AGES 25 TO 34	6.761	6.92	7.47	6.95	6.59	6.49	6.42	6.19	5.94	5.77	5.68
15 NUTF35.44	AGES 35 TO 44	5.011	5.17	5.59	5.21	4.99	4.94	4.92	4.76	4.58	4.47	4.44
16 NUTF45.54	AGES 45 TO 54	4.121	4.33	4.74	4.43	4.25	4.21	4.19	4.05	3.89	3.79	3.75
17 NUTF55.64	AGES 55 TO 64	3.171	3.50	3.89	3.65	3.52	3.49	3.47	3.35	3.20	3.10	3.06
18 NUTF65.1	AGES 65 AND OVER	3.941	4.15	4.47	4.16	3.91	3.84	3.79	3.64	3.48	3.38	3.32
20 NUT	BOTH SEXES, TOTAL	6.051	6.19	6.78	6.38	6.08	5.99	5.91	5.69	5.43	5.28	5.20
21 NUT16.19	AGES 16 TO 19	16.251	16.42	17.24	16.29	15.62	15.69	15.83	15.61	15.43	15.47	15.62
22 NUT20.24	AGES 20 TO 24	9.641	9.82	10.88	10.12	9.84	9.73	9.65	9.29	8.88	8.61	8.48
23 NUT25.34	AGES 25 TO 34	5.251	5.43	6.13	5.74	5.50	5.44	5.40	5.19	4.95	4.79	4.72
24 NUT35.44	AGES 35 TO 44	3.751	3.92	4.37	4.12	3.99	3.97	3.97	3.83	3.66	3.54	3.51
25 NUT45.54	AGES 45 TO 54	3.321	3.46	3.83	3.63	3.53	3.52	3.52	3.40	3.24	3.13	3.10
26 NUT55.64	AGES 55 TO 64	2.941	3.18	3.56	3.34	3.27	3.28	3.31	3.23	3.11	3.04	3.06
27 NUT65.1	AGES 65 AND OVER	4.351	4.49	4.85	4.50	4.31	4.27	4.26	4.13	3.99	3.91	3.88
30 NPSM16.19	SCHOOL ENROLLMENT RATES	0.697310	0.6937	0.6964	0.7020	0.7002	0.6989	0.7019	0.7012	0.7011	0.7032	0.7156
31 NPSM16.17	MALE, AGES 16 TO 19	0.895010	0.8877	0.8902	0.8902	0.8889	0.8874	0.8860	0.8855	0.8866	0.8882	0.8892
32 NPSM18.19	MALE, AGES 18 TO 19	0.484410	0.4838	0.4862	0.4866	0.4800	0.4818	0.4851	0.4917	0.5017	0.5102	0.5175
33 NPSM20.24	MALE, AGES 20 TO 24	0.259910	0.2584	0.2600	0.2603	0.2614	0.2626	0.2631	0.2641	0.2666	0.2694	0.2722
34 NPSM16.19	FEMALE, AGES 16 TO 19	0.661410	0.6737	0.6817	0.6798	0.6715	0.6841	0.6984	0.6974	0.7023	0.7051	0.7094
35 NPSM20.24	FEMALE, AGES 20 TO 24	0.204710	0.2140	0.2217	0.2255	0.2272	0.2299	0.2336	0.2374	0.2409	0.2448	0.2491
36 NPSM16.19	SCHOOL ENROLLMENTS (MILLIONS)	5.6311	5.618	5.576	5.392	5.186	4.999	4.837	4.785	4.832	4.936	4.888
37 NPSM16.17	MALE, AGES 16 TO 19	1.7301	1.681	1.631	1.521	1.343	1.201	1.116	1.104	1.168	1.254	1.153
38 NPSM18.19	MALE, AGES 18 TO 19	1.9001	1.937	1.945	1.870	1.843	1.799	1.721	1.681	1.664	1.682	1.736
39 NPSM20.24	MALE, AGES 20 TO 24	2.4131	2.472	2.496	2.930	2.541	2.532	2.517	2.498	2.445	2.390	2.331
40 NPSF16.19	FEMALE, AGES 16 TO 19	5.5551	5.598	5.590	5.339	5.228	5.228	5.000	4.923	4.918	4.987	4.984
41 NPSF20.24	FEMALE, AGES 20 TO 24	2.1271	2.248	2.320	2.357	2.377	2.402	2.423	2.422	2.389	2.357	2.323
42 NPSF16.19	FERTILITY RATES (BIRTHS/THOUSAND)	1837.1	1854.	1871.	1917.	1944.	1962.	1978.	1994.	2008.	2021.	2035.
43 NPSF20.24	AGES 15 TO 19	55.1	55.	56.	56.	56.	55.	54.	53.	52.	51.	51.
44 NPSF25.34	AGES 20 TO 24	118.1	121.	124.	128.	131.	134.	136.	137.	138.	139.	140.

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 14.60 NUMBER OF UNEMPLOYED

LINE VAN LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NUMBER OF UNEMPLOYED											
2	(MILLIONS)											
3												
4	MUTM16+ I	3.0421	3.199	3.647	3.459	3.364	3.359	3.361	3.237	3.129	3.055	3.035
5	MUTM16+ 19 B	0.7831	0.798	0.844	0.784	0.716	0.719	0.700	0.677	0.671	0.684	0.684
6	MUTM20+ 20 B	0.7291	0.757	0.875	0.840	0.810	0.802	0.795	0.758	0.697	0.652	0.623
7	MUTM25+ 34 B	0.6481	0.697	0.851	0.823	0.806	0.814	0.824	0.804	0.774	0.751	0.747
8	MUTM35+ 44 B	0.3171	0.346	0.409	0.391	0.406	0.422	0.439	0.438	0.428	0.423	0.429
9	MUTM45+ 54 B	0.2831	0.292	0.324	0.304	0.298	0.297	0.297	0.285	0.271	0.263	0.270
10	MUTM55+ 64 B	0.1981	0.218	0.246	0.226	0.221	0.221	0.221	0.216	0.208	0.202	0.203
11	MUTM65+ B	0.0881	0.090	0.098	0.090	0.086	0.085	0.085	0.083	0.080	0.079	0.080
12												
13	MUTM25+ 54 I	1.2441	1.336	1.504	1.518	1.510	1.533	1.561	1.527	1.472	1.437	1.445
14												
15	MUTF16+ I	3.0251	3.160	3.404	3.329	3.203	3.195	3.196	3.128	3.049	3.021	3.028
16	MUTF16+ 19 B	0.7601	0.772	0.803	0.721	0.676	0.639	0.606	0.592	0.584	0.596	0.601
17	MUTF20+ 24 B	0.7061	0.735	0.803	0.769	0.723	0.710	0.698	0.662	0.617	0.581	0.557
18	MUTF25+ 34 B	0.7131	0.763	0.870	0.858	0.825	0.835	0.848	0.833	0.814	0.803	0.803
19	MUTF35+ 44 B	0.3621	0.412	0.468	0.456	0.473	0.502	0.530	0.538	0.543	0.553	0.568
20	MUTF45+ 54 B	0.2781	0.289	0.316	0.296	0.285	0.286	0.291	0.287	0.286	0.288	0.303
21	MUTF55+ 64 B	0.1421	0.164	0.186	0.178	0.174	0.175	0.174	0.168	0.159	0.153	0.150
22	MUTF65+ B	0.0441	0.048	0.053	0.050	0.046	0.048	0.049	0.048	0.047	0.046	0.047
23												
24	MUT I	6.0681	6.360	7.111	6.708	6.567	6.554	6.558	6.384	6.178	6.077	6.063
25	MUTF16+ 19 I	1.5431	1.548	1.616	1.505	1.412	1.358	1.306	1.269	1.255	1.280	1.285
26	MUTF20+ 24 I	1.4361	1.493	1.677	1.609	1.533	1.511	1.493	1.416	1.313	1.235	1.180
27	MUTF25+ 34 I	1.3571	1.460	1.721	1.681	1.631	1.648	1.673	1.638	1.587	1.554	1.550
28	MUTF35+ 54 I	0.5611	0.582	0.640	0.600	0.583	0.583	0.580	0.572	0.556	0.552	0.573
29	MUTF45+ 54 I	0.3401	0.382	0.432	0.404	0.395	0.394	0.395	0.383	0.367	0.355	0.353
30	MUTF55+ I	0.1321	0.138	0.151	0.141	0.134	0.134	0.134	0.131	0.127	0.126	0.126

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 14.60 NUMBER OF UNEMPLOYED

LINE VAR LABEL	J T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NUMBER OF UNEMPLOYED											
2	(% CHANGE)											
3												
4	MUTM16+ I	-15.01	5.2	14.0	-5.2	-2.7	-0.1	0.1	-3.1	-1.9	-2.4	-0.4
5	MUTM16.19 R	-0.21	1.9	5.7	-7.0	-6.2	-2.3	-2.6	-1.2	-0.9	1.9	-0.1
6	MUTM20.24 R	-17.51	3.8	15.5	-4.0	-1.5	-1.1	-0.9	-5.1	-0.6	-6.4	-4.4
7	MUTM25.34 R	-22.01	8.3	22.1	-3.3	-2.1	0.9	1.3	-2.4	-3.8	-2.9	-0.5
8	MUTM35.44 R	-14.81	9.3	18.2	-4.4	3.9	3.9	4.1	-0.4	-2.2	-1.2	1.3
9	MUTM45.54 R	-13.21	3.3	10.7	-6.2	-1.9	-0.5	0.2	-4.1	-5.0	-2.9	2.6
10	MUTM55.64 R	-19.61	10.0	12.8	-8.0	-2.1	-0.2	-0.2	-2.4	-3.3	-2.8	0.6
11	MUTM65+ R	-0.61	2.9	9.1	-8.1	-4.5	-1.1	-0.2	-2.7	-3.1	-1.4	0.3
12												
13	MUTM25.54 I	-18.81	7.4	18.6	-4.2	-0.5	1.5	1.8	-2.2	-3.6	-2.4	0.6
14												
15	MUTF16+ I	-7.71	4.5	9.6	-3.9	-3.8	-0.3	0.0	-2.2	-2.5	-0.9	0.2
16	MUTF16.19 R	-2.81	-1.3	3.0	-6.6	-6.3	-5.4	-5.2	-2.3	-1.3	2.0	0.9
17	MUTF20.24 R	-9.01	4.1	9.1	-4.1	-6.1	-1.8	-1.6	-5.3	-6.8	-5.5	-4.5
18	MUTF25.34 R	-6.01	6.9	14.1	-1.4	-3.9	1.2	1.6	-1.8	-2.3	-1.3	-0.1
19	MUTF35.44 R	-7.81	7.8	12.6	-1.7	3.8	6.0	5.6	1.6	0.8	1.8	2.6
20	MUTF45.54 R	-18.71	4.2	9.2	-6.2	-4.0	0.5	1.8	-1.4	-0.4	1.4	4.6
21	MUTF55.64 R	-27.71	15.3	13.9	-4.6	-2.3	0.8	-0.5	-3.7	-4.9	-4.2	-1.9
22	MUTF65+ R	-11.41	7.4	11.2	-5.2	-4.2	0.7	1.1	-1.9	-2.5	-0.8	0.6
23												
24	MUT I	-11.51	4.8	11.8	-4.5	-3.2	-0.2	0.0	-2.6	-3.2	-1.6	-0.2
25	MUT16.19 I	-6.11	0.3	4.4	-6.8	-6.2	-3.8	-3.9	-2.8	-1.1	1.9	0.4
26	MUT20.24 I	-9.01	4.0	12.4	-4.1	-6.8	-1.4	-1.2	-5.2	-1.2	-6.0	-4.5
27	MUT25.34 I	-14.71	7.6	17.9	-2.3	-3.0	1.1	1.5	-2.1	-3.1	-2.1	-0.3
28	MUT35.44 I	-11.11	8.5	15.1	-2.9	3.8	5.0	4.9	0.7	-0.5	0.5	2.2
29	MUT45.54 I	-16.01	3.7	10.0	-6.2	-2.9	-0.0	1.0	-2.8	-2.7	-0.7	3.6
30	MUT55.64 I	-23.21	12.2	13.2	-6.6	-2.2	0.3	-0.3	-3.0	-4.1	-3.4	-0.5
31	MUT65+ I	-9.61	9.4	9.8	-7.1	-4.4	-0.5	0.2	-2.4	-2.9	-1.2	0.4

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TABLE 14.70 CIVILIAN INSTITUTIONAL POPULATION

LINE	VAR LABEL	I	T	E	M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CIV NUNIST POPULATION (MILLIONS)																
1	MALE, TOTAL	1				75,197,176	376	77,491	78,496	79,340	80,217	80,990	81,766	82,576	83,418	84,095
2	NPCHN16+	1				8,150	8,111	8,047	7,856	7,602	7,331	7,045	6,873	6,844	6,921	6,875
3	NPCHN16,19	1				4,207	4,136	4,077	3,959	3,765	3,611	3,520	3,503	3,568	3,658	3,547
4	NPCHN16,19P2	1				1,943	3,975	3,970	3,897	3,837	3,720	3,525	3,370	3,279	3,262	3,328
5	NPCHN18,19P2	1				3,651	9,508	9,600	9,699	9,682	9,630	9,558	9,509	9,408	9,307	9,208
6	NPCHN20,24	1				16,095	16,631	17,212	17,842	18,037	18,331	18,697	19,020	19,307	19,507	19,632
7	NPCHN25,34	1				8,533	8,737	8,979	9,171	9,391	9,569	9,696	9,780	9,873	9,855	9,803
8	NPCHN25,20P2	1				7,562	7,894	8,233	8,671	8,646	8,802	9,001	9,241	9,433	9,652	9,829
9	NPCHN30,34P2	1				11,503	11,850	12,154	12,428	13,200	13,799	14,381	14,938	15,495	16,022	16,416
10	NPCHN35,44	1				6,128	6,308	6,607	6,737	7,298	7,593	7,867	8,207	8,635	8,604	8,754
11	NPCHN35,19P2	1				5,375	5,468	5,547	5,691	5,902	6,256	6,514	6,731	6,860	7,417	7,662
12	NPCHN40,44P2	1				11,081	11,091	10,873	10,805	10,761	10,759	10,759	10,761	10,883	11,105	11,507
13	NPCHN45,44P2	1				5,456	5,364	5,301	5,280	5,296	5,350	5,434	5,517	5,653	5,866	6,213
14	NPCHN50,54P2	1				5,624	5,588	5,572	5,526	5,465	5,395	5,325	5,244	5,224	5,240	5,294
15	NPCHN55,54P2	1				9,656	9,780	9,903	10,008	10,103	10,178	10,204	10,204	10,169	10,075	9,995
16	NPCHN55,44	1				5,305	5,369	5,385	5,392	5,353	5,338	5,303	5,289	5,246	5,167	5,119
17	NPCHN55,50P2	1				4,351	4,411	4,514	4,616	4,750	4,841	4,901	4,915	4,924	4,888	4,875
18	NPCHN60,64P2	1				9,347	9,525	9,703	9,857	10,005	10,163	10,345	10,570	10,765	10,981	11,166
19	NPCHN65,64P2	1				3,701	3,750	3,773	3,805	3,828	3,858	3,915	4,015	4,105	4,225	4,304
20	NPCHN65,60P2	1				5,645	5,774	5,930	6,053	6,177	6,305	6,430	6,554	6,660	6,756	6,862
21	NPCHN70,70P2	1				83,923	105,181	86,184	87,504	88,507	89,485	90,324	91,210	92,126	93,062	93,841
22	NPCHN16+	1				8,281	8,233	8,159	7,979	7,732	7,468	7,192	7,017	6,990	7,085	6,999
23	NPCHN16,19	1				4,107	4,035	3,972	3,864	3,641	3,528	3,418	3,419	3,484	3,559	3,447
24	NPCHN16,19P2	1				4,171	4,198	4,186	4,115	4,051	3,941	3,753	3,598	3,506	3,486	3,552
25	NPCHN18,19P2	1				16,994	17,518	18,096	18,745	18,944	19,266	19,618	19,945	20,240	20,452	20,584
26	NPCHN20,24	1				9,051	9,209	9,444	9,643	9,870	10,055	10,190	10,281	10,375	10,359	10,307
27	NPCHN25,20P2	1				7,979	8,310	8,652	9,102	9,076	9,232	9,428	9,664	9,865	10,094	10,277
28	NPCHN30,34P2	1				12,410	12,719	13,103	13,374	14,151	14,761	15,359	15,934	16,503	17,017	17,416
29	NPCHN35,44	1				6,604	6,909	7,134	7,260	7,822	8,069	8,402	8,753	9,198	9,168	9,321
30	NPCHN35,30P2	1				5,772	5,870	5,968	6,115	6,329	6,591	6,957	7,181	7,305	7,859	8,115
31	NPCHN40,44P2	1				11,873	11,730	11,598	11,514	11,462	11,448	11,466	11,472	11,609	11,888	12,264
32	NPCHN45,54	1				5,787	5,705	5,614	5,606	5,635	5,697	5,795	5,890	6,035	6,205	6,401
33	NPCHN45,50	1				6,061	6,026	5,984	5,908	5,827	5,751	5,671	5,582	5,575	5,602	5,664
34	NPCHN45,40P2	1				10,795	11,033	11,063	11,170	11,250	11,321	11,320	11,293	11,225	11,101	10,990
35	NPCHN50,54P2	1				5,027	5,087	5,090	5,015	5,052	5,013	5,755	5,717	5,644	5,566	5,492
36	NPCHN55,54P2	1				4,968	5,047	5,164	5,269	5,406	5,508	5,566	5,576	5,581	5,535	5,499
37	NPCHN55,50P2	1				13,480	13,768	14,054	14,314	14,563	14,819	15,111	15,444	15,782	16,060	16,349
38	NPCHN60,64P2	1				4,601	4,732	4,753	4,787	4,816	4,848	4,926	5,044	5,151	5,286	5,383
39	NPCHN65,64P2	1				8,704	9,036	9,301	9,527	9,747	9,971	10,185	10,400	10,592	10,774	10,966
40	NPCHN65,60P2	1														
41	NPCHN70,70P2	1														
42		1														
BOTH SEXES, TOTAL																
43	NPCHN16+	1				159,120	161,556	163,875	166,001	167,897	169,662	171,313	172,976	174,702	176,480	177,936
44	NPCHN16,19	1				16,434	16,343	16,206	15,835	15,334	14,799	14,237	13,890	13,838	13,966	13,874
45	NPCHN20,24	1				19,405	19,726	19,911	20,107	20,076	19,971	19,815	19,505	18,924	18,327	17,722
46	NPCHN25,34	1				33,089	34,150	35,308	36,588	36,984	37,557	38,315	38,965	39,547	39,959	40,216
47	NPCHN35,44	1				23,920	24,629	25,256	25,802	26,352	26,860	27,440	28,074	28,740	29,408	30,052
48	NPCHN45,54	1				22,954	22,702	22,471	22,319	22,223	22,193	22,225	22,233	22,492	22,953	23,773
49	NPCHN55,54	1				20,451	20,713	20,966	21,178	21,361	21,500	21,524	21,497	21,394	21,176	20,985
50	NPCHN65,64	1				22,826	23,293	23,757	24,172	24,568	24,982	25,436	26,014	26,508	27,041	27,515

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TABLE 14.70 CIVILIAN NONINSTITUTIONAL POPULATION

LINE	VAR LABEL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1		CIV NONINST POPULATION (% CHANGE)											
2	NPCNM16+	MALE, TOTAL	1,71	1,6	1,5	1,3	1,1	1,0	1,0	1,0	1,0	1,0	0,6
3	NPCNM16,19	AGES 16 TO 19	-0,21	-0,5	-0,8	-2,4	-3,2	-3,6	-3,9	-2,4	-0,4	1,1	-0,7
4	NPCNM16,17P2	AGES 16 TO 17	-0,21	-1,7	-1,4	-2,9	-4,9	-4,1	-2,5	-0,5	1,9	2,5	-3,1
5	NPCNM18,19P2	AGES 18 TO 19	-0,21	0,6	-0,1	-1,0	-1,5	-3,0	-5,2	-4,4	-2,7	-0,5	2,0
6	NPCNM20,24	AGES 20 TO 24	1,61	1,5	1,0	1,0	-0,2	-0,5	-0,7	-1,7	-3,1	-3,3	-3,4
7	NPCNM25,34	AGES 25 TO 34	3,11	3,3	3,5	3,7	1,1	1,9	1,8	1,7	1,5	1,0	0,6
8	NPCNM25,20P2	AGES 25 TO 20	1,91	2,4	2,8	2,1	2,4	1,9	1,3	0,9	1,0	-0,2	-0,5
9	NPCNM30,34P2	AGES 30 TO 34	3,31	4,4	4,3	5,3	-0,3	1,8	2,3	2,7	2,1	2,3	1,8
10	NPCNM35,44	AGES 35 TO 44	3,71	3,0	2,6	2,3	6,2	4,5	4,2	3,9	3,7	3,4	2,5
11	NPCNM35,39P2	AGES 35 TO 39	6,21	4,2	3,4	2,0	8,3	3,3	4,3	4,3	5,2	-0,4	1,7
12	NPCNM40,44P2	AGES 40 TO 44	1,01	1,6	1,6	2,6	3,7	6,0	4,1	3,3	1,9	6,1	3,3
13	NPCNM45,54	AGES 45 TO 54	-0,91	-1,0	-0,9	-0,6	-0,4	-0,1	0,1	0,0	1,1	2,0	3,6
14	NPCNM45,49P2	AGES 45 TO 49	-1,31	-1,3	-1,5	-0,4	0,3	1,0	1,6	1,5	2,6	3,7	5,9
15	NPCNM50,54P2	AGES 50 TO 54	-0,31	-0,6	-0,3	-0,8	-1,1	-1,3	-1,3	-1,5	-0,4	0,3	1,0
16	NPCNM55,64	AGES 55 TO 64	1,41	1,3	1,3	1,1	0,9	0,8	0,3	-0,0	-0,3	-0,9	-0,8
17	NPCNM55,59P2	AGES 55 TO 59	1,91	1,2	0,3	0,1	-0,7	-0,3	-0,6	-0,3	-0,8	-1,1	-1,3
18	NPCNM60,64P2	AGES 60 TO 64	0,81	1,4	2,4	2,2	2,9	1,9	1,2	0,1	0,2	-0,7	-0,3
19	NPCNM65	AGES 65 AND OVER	1,61	1,9	1,9	1,6	1,5	1,6	1,8	2,2	1,9	2,9	1,9
20	NPCNM65,69P2	AGES 65 TO 69	1,41	1,3	0,6	0,8	0,6	0,8	1,5	2,6	2,2	1,4	1,4
21	NPCNM70,69P2	AGES 70 AND OVER	2,31	2,3	2,7	2,1	2,0	2,1	2,0	1,9	1,6	1,4	1,4
22	NPCNF16+	FEMALE, TOTAL	1,81	1,5	1,4	1,3	1,1	1,1	1,1	1,0	1,0	1,0	0,6
23	NPCNF16,19	AGES 16 TO 19	-0,21	-0,6	-0,9	-2,2	-3,1	-3,4	-3,7	-2,4	-0,4	0,4	-0,6
24	NPCNF16,17P2	AGES 16 TO 17	-0,21	-1,7	-1,4	-2,7	-4,7	-4,2	-2,5	-0,5	1,9	2,1	-3,1
25	NPCNF18,19P2	AGES 18 TO 19	-0,21	0,5	-0,2	-1,7	-1,5	-2,7	-4,8	-4,1	-2,9	-0,6	1,9
26	NPCNF20,24	AGES 20 TO 24	2,21	1,4	0,9	0,9	-0,1	-0,5	-0,8	-1,5	-2,9	-3,0	-3,2
27	NPCNF25,34	AGES 25 TO 34	2,61	3,1	3,3	3,6	1,1	1,6	1,7	1,7	1,5	1,0	0,6
28	NPCNF25,20P2	AGES 25 TO 20	1,71	2,1	2,6	2,1	2,4	1,9	1,3	0,9	0,9	-0,2	-0,5
29	NPCNF30,34P2	AGES 30 TO 34	3,01	4,1	4,1	5,2	-0,3	1,7	4,1	2,5	2,1	2,3	1,4
30	NPCNF35,44	AGES 35 TO 44	3,41	2,9	2,5	2,1	5,8	4,3	4,1	3,7	3,6	3,2	2,3
31	NPCNF35,39P2	AGES 35 TO 39	5,81	4,0	3,3	1,8	7,8	3,2	4,1	4,2	5,1	-0,3	1,7
32	NPCNF40,44P2	AGES 40 TO 44	1,11	1,7	1,7	2,5	3,5	5,7	4,0	3,2	1,7	7,7	3,5
33	NPCNF45,54	AGES 45 TO 54	-1,11	-1,2	-1,1	-0,7	-0,4	-0,1	0,2	0,1	1,2	2,1	3,1
34	NPCNF45,49P2	AGES 45 TO 49	-1,31	-1,4	-1,6	-0,1	0,5	1,1	1,7	1,6	2,4	3,5	5,7
35	NPCNF50,54P2	AGES 50 TO 54	-0,71	-1,0	-0,7	-1,3	-1,4	-1,3	-1,4	-1,6	-0,1	0,3	1,1
36	NPCNF55,64	AGES 55 TO 59	1,41	1,3	1,2	1,0	0,8	0,6	-0,0	-0,7	-0,6	-1,1	-1,0
37	NPCNF55,59P2	AGES 55 TO 59	1,81	1,0	0,2	0,1	-0,8	-0,7	-1,0	-0,2	-0,1	-0,8	-0,7
38	NPCNF60,64P2	AGES 60 TO 64	0,71	1,6	2,3	2,0	2,6	1,9	1,0	0,2	0,1	2,0	1,8
39	NPCNF65+	AGES 65 AND OVER	3,11	2,1	2,1	1,9	1,7	1,8	2,0	2,2	2,1	2,6	1,8
40	NPCNF65,69P2	AGES 65 TO 69	1,41	1,0	0,4	0,7	0,6	0,7	1,6	2,4	2,1	2,6	1,8
41	NPCNF70,69P2	AGES 70 AND OVER	2,81	2,8	2,9	2,4	2,3	2,3	2,2	2,1	1,8	1,7	1,8
42													
43	NPCN16+	BOTH SEXES, TOTAL	1,71	1,5	1,4	1,3	1,1	1,1	1,0	1,0	1,0	1,0	0,6
44	NPCN16,19	AGES 16 TO 19	-0,21	-0,6	-0,8	-2,3	-3,2	-3,5	-3,8	-2,4	-0,4	0,9	-0,7
45	NPCN20,24	AGES 20 TO 24	2,01	1,4	0,9	1,0	-0,2	-0,5	-0,6	-1,6	-1,0	-1,2	-1,3
46	NPCN25,34	AGES 25 TO 34	2,91	3,2	3,4	3,6	1,1	1,8	1,7	1,7	1,5	1,0	0,6
47	NPCN35,44	AGES 35 TO 44	3,51	3,0	2,5	2,2	6,0	4,4	4,1	3,8	3,6	3,3	2,4
48	NPCN45,54	AGES 45 TO 54	-1,01	-1,1	-1,0	-0,7	-0,4	-0,1	0,1	0,0	1,2	2,1	3,6
49	NPCN55,64	AGES 55 TO 64	1,41	1,3	1,2	1,0	0,9	0,7	0,1	-0,1	-0,5	-1,0	-0,9
50	NPCN65+	AGES 65 AND OVER	2,51	2,0	2,0	1,7	1,6	1,7	1,9	2,2	1,9	2,0	1,8

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TABLE 15.10 MANHOURS (BILLIONS)

LINE	VAR LABEL	I T E M											
		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	
1	MINING	1.951	1.97	1.93	1.91	1.91	1.92	1.92	1.94	1.97	1.99	2.01	
2													
3	MANUFACTURING	42.471	43.36	43.52	43.74	44.19	44.40	44.42	44.82	45.19	45.36	45.25	
4													
5	MANUFACTURING	25.701	26.46	26.64	26.90	27.34	27.56	27.60	27.98	28.31	28.45	28.35	
6													
7	LUMBER	1.381	1.39	1.39	1.41	1.44	1.46	1.48	1.50	1.52	1.55	1.57	
8	FURNITURE	1.091	1.13	1.15	1.15	1.17	1.18	1.19	1.21	1.22	1.24	1.24	
9	STONE, CLAY AND GLASS	1.501	1.57	1.61	1.61	1.61	1.61	1.61	1.64	1.67	1.68	1.69	
10	PRIMARY METALS	2.681	2.74	2.74	2.77	2.83	2.86	2.87	2.85	2.85	2.81	2.83	
11	FABRICATED METAL PRODUCTS	3.251	3.32	3.36	3.40	3.47	3.51	3.51	3.56	3.61	3.63	3.61	
12	NON ELECTRICAL MACHINERY	4.951	5.04	5.13	5.22	5.35	5.43	5.47	5.60	5.71	5.79	5.78	
13	ELECTRICAL MACHINERY	4.291	4.40	4.47	4.48	4.51	4.52	4.52	4.55	4.57	4.58	4.56	
14	MOTOR VEHICLES	2.121	2.15	2.14	2.16	2.17	2.17	2.17	2.18	2.19	2.18	2.15	
15	NONAUTO TRANS CY + ORD + MISC	3.281	3.44	3.42	3.46	3.51	3.53	3.53	3.58	3.62	3.65	3.63	
16	INSTRUMENTS	1.161	1.22	1.23	1.24	1.26	1.28	1.29	1.31	1.33	1.35	1.36	
17													
18	NONDURABLE GOODS	16.771	16.89	16.88	16.84	16.85	16.84	16.82	16.84	16.88	16.91	16.90	
19													
20	FOOD AND BEVERAGES	3.621	3.56	3.49	3.42	3.35	3.28	3.21	3.17	3.14	3.12	3.11	
21	TOBACCO	0.141	0.14	0.14	0.13	0.13	0.13	0.13	0.11	0.13	0.13	0.12	
22	TEXTILES	2.041	2.03	2.01	2.01	2.03	2.05	2.05	2.07	2.08	2.09	2.08	
23	APPAREL	2.401	2.44	2.43	2.43	2.43	2.42	2.39	2.37	2.37	2.34	2.31	
24	PAPER	1.571	1.60	1.61	1.63	1.65	1.67	1.68	1.69	1.69	1.70	1.70	
25	PRINTING AND PUBLISHING	2.221	2.29	2.32	2.34	2.36	2.39	2.42	2.46	2.50	2.54	2.57	
26	CHEMICALS	2.321	2.33	2.34	2.30	2.29	2.28	2.28	2.29	2.30	2.31	2.31	
27	PETROLEUM	0.461	0.48	0.48	0.48	0.47	0.47	0.46	0.45	0.45	0.44	0.43	
28	RUBBER	1.461	1.49	1.52	1.54	1.58	1.61	1.64	1.67	1.70	1.71	1.73	
29	LEATHER	0.521	0.53	0.55	0.55	0.55	0.55	0.54	0.53	0.53	0.53	0.52	

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TABLE 15.20 MANHOURS, GROWTH RATES

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NMLTIMG	B MINING	2.11	1.4	-2.3	-1.0	0.3	0.5	0.0	1.0	1.4	1.3	0.4
2													
3	NMLTMF	I MANUFACTURING	3.61	2.1	0.4	0.5	1.0	0.5	0.0	0.9	0.8	0.4	-0.2
4													
5	NMLTMFD	I DURABLE GOODS	5.31	3.0	0.7	1.0	1.6	0.8	0.2	1.4	1.2	0.5	-0.3
6													
7	NMLTMFD24	B LUMBER	3.31	0.5	-0.0	1.5	2.1	1.7	1.2	1.0	1.5	1.7	1.5
8	NMLTMFD25	B FURNITURE	5.91	3.6	1.9	0.3	1.6	0.7	0.7	2.1	0.6	1.3	0.5
9	NMLTMFD32	B STONE, CLAY AND GLASS	6.71	4.5	2.7	-0.1	0.4	0.1	-0.1	1.5	1.8	1.1	0.1
10	NMLTMFD33	B PRIMARY METALS	4.21	2.1	0.0	1.0	2.5	1.0	-1.1	0.6	0.1	-1.2	-2.6
11	NMLTMFD34	B FABRICATED METAL PRODUCTS	5.21	2.3	1.0	1.4	2.1	1.0	0.1	1.5	1.3	0.5	-0.4
12	NMLTMFD35	B NON-ELECTRICAL MACHINERY	4.71	1.8	1.0	1.7	2.4	1.4	0.7	2.4	2.2	1.1	-0.2
13	NMLTMFD36	B ELECTRICAL MACHINERY	6.01	4.4	-0.1	0.1	0.7	0.3	-0.1	0.7	0.5	0.1	-0.4
14	NMLTMFD371	B MOTOR VEHICLES	3.61	1.5	-0.2	0.8	0.5	0.0	-0.1	0.8	0.3	-0.6	-1.3
15	NMLTMFD37SP2	B NON-AUTO TRANS. EQ. + ORD. + MISC.	6.31	4.6	-0.6	1.2	1.5	0.5	0.1	1.3	1.2	0.7	0.1
16	NMLTMFD38	B INSTRUMENTS	4.91	4.7	1.1	1.2	1.7	1.2	0.8	1.7	1.6	1.2	0.7
17													
18	NMLTMFN	I NON-DURABLE GOODS	1.41	0.8	-0.1	-0.2	0.0	-0.1	-0.1	0.1	0.2	0.2	-0.1
19													
20	NMLTMFN20	B FOOD AND BEVERAGE	1.41	-1.6	-1.9	-2.2	-2.0	-2.1	-2.0	-1.5	-1.0	-0.6	-0.3
21	NMLTMFN21	B TOBACCO	0.11	-1.3	-1.5	-1.4	-1.2	-1.1	-1.0	-0.7	-1.1	-1.2	-1.3
22	NMLTMFN22	B TEXTILES	-0.91	-0.8	-1.1	0.2	0.9	0.7	0.4	0.7	0.6	0.4	-0.4
23	NMLTMFN23	B APPAREL	1.31	1.5	-0.3	-0.0	-0.0	-0.3	-0.8	-0.7	-0.8	-1.0	-1.2
24	NMLTMFN24	B PAPER	1.01	1.6	0.8	1.2	1.3	1.1	0.5	0.6	0.5	0.3	-0.1
25	NMLTMFN27	B PRINTING AND PUBLISHING	1.91	3.1	1.2	1.0	0.9	1.1	1.2	1.5	1.6	1.6	1.4
26	NMLTMFN28	B CHEMICALS	1.21	0.6	0.2	-1.4	-0.7	-0.5	0.2	0.4	0.5	0.1	0.0
27	NMLTMFN29	B PETROLEUM	-0.51	2.6	1.0	-0.8	-0.9	-1.2	-1.5	-1.6	-1.7	-1.9	-2.1
28	NMLTMFN30	B RUBBER	1.61	2.0	1.7	1.7	2.4	2.0	1.5	2.1	2.0	1.6	1.0
29	NMLTMFN31	B LEATHER	2.81	2.2	2.8	0.4	-0.2	-0.7	-1.1	-0.9	-0.9	-0.9	-1.0

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TABLE 16.10 REAL OUTPUT PER MANHOUR (1972 \$ / MANHOUR)

LINE	VAR LABEL	TITLE	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	XMGMM	MINING	10.71	10.9	11.4	12.0	12.5	12.9	13.2	13.6	14.0	14.2	14.5
2													
3	XMFMM	MANUFACTURING	8.11	8.2	8.4	8.7	8.9	9.2	9.4	9.7	10.0	10.2	10.5
4													
5	XMFDM	DURABLE GOODS	7.91	8.0	8.2	8.4	8.7	8.9	9.1	9.3	9.6	9.8	10.0
6													
7	XMF20MM	LUMBER	7.21	7.5	7.8	8.0	8.3	8.4	8.5	8.8	9.1	9.4	9.6
8	XMF25MM	FURNITURE	4.81	4.8	4.9	5.0	5.2	5.3	5.4	5.6	5.8	5.9	5.9
9	XMF32MM	STONE, CLAY AND GLASS	7.21	7.2	7.2	7.3	7.5	7.7	7.9	8.1	8.3	8.4	8.6
10	XMF33MM	PRIMARY METALS	7.81	8.0	8.1	8.3	8.4	8.5	8.5	8.6	8.7	8.7	8.8
11	XMF34MM	FABRICATED METAL PRODUCTS	6.51	6.6	6.7	6.8	6.9	7.1	7.2	7.3	7.4	7.6	7.7
12	XMF35MM	NON ELECTRICAL MACHINERY	7.61	7.8	8.0	8.2	8.4	8.6	8.8	9.0	9.1	9.3	9.5
13	XMF36MM	ELECTRICAL MACHINERY	7.61	7.8	7.8	8.2	8.5	8.8	9.1	9.5	9.8	10.2	10.5
14	XMF37MM	MOTOR VEHICLES	16.41	16.5	17.0	17.7	18.5	19.2	19.8	20.6	21.4	22.3	23.0
15	XMF37SP2MM	NONAUTO TRAN EQ. & MISC MFD	6.51	6.6	6.7	6.9	7.1	7.2	7.3	7.5	7.7	7.9	8.0
16	XMF38MM	INSTRUMENTS	7.91	7.9	8.0	8.3	8.6	8.8	9.0	9.3	9.5	9.7	9.9
17													
18	XMFMM	NONDURABLE GOODS	8.31	8.5	8.7	9.0	9.4	9.7	10.0	10.3	10.6	10.9	11.2
19													
20	XMF20MM	FOOD AND BEVERAGE	9.01	9.4	9.6	10.1	10.6	11.0	11.5	11.9	12.3	12.6	12.9
21	XMF21MM	TOBACCO	35.21	36.4	37.6	39.3	41.1	42.9	44.6	46.9	49.6	52.3	54.8
22	XMF22MM	TEXTILES	4.91	5.1	5.2	5.4	5.6	5.7	5.9	6.1	6.2	6.3	6.5
23	XMF23MM	APPAREL	5.21	5.3	5.5	5.7	5.9	6.1	6.3	6.6	6.9	7.2	7.5
24	XMF26MM	PAPER	8.11	8.4	8.5	8.8	9.1	9.4	9.6	9.9	10.3	10.6	10.9
25	XMF27MM	PRINTING AND PUBLISHING	7.61	7.7	8.0	8.2	8.4	8.5	8.6	8.8	8.9	9.1	9.2
26	XMF28MM	CHEMICALS	11.71	12.0	12.3	13.0	13.7	14.3	14.7	15.3	15.9	16.5	17.0
27	XMF29MM	PETROLEUM	19.41	19.6	20.1	20.8	21.7	22.5	23.3	24.5	25.7	26.9	28.1
28	XMF30MM	RUBBER	7.31	7.4	7.6	7.8	8.0	8.1	8.3	8.5	8.7	8.8	9.0
29	XMF31MM	LEATHER	4.61	4.8	4.8	4.8	4.9	5.1	5.2	5.4	5.5	5.7	5.8

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LINE	VAR LABEL	I T E M	TABLE 16.20 REAL OUTPUT PER MANHOUR, % CHANGE											
			1979	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	
1	XMG001	MINING	2.71	2.1	4.5	5.0	4.3	2.9	2.5	3.2	2.4	2.1	2.1	
2														
3	XMF001	MANUFACTURING	2.51	2.1	1.9	3.2	3.4	2.6	2.4	3.1	2.8	2.5	2.4	
4														
5	XMF001	DURABLE GOODS	1.21	1.7	1.6	2.9	3.1	2.3	2.2	2.9	2.6	2.3	2.2	
6														
7	XMF020MM	LUMBER	4.51	3.5	3.8	3.1	3.5	1.8	1.1	2.6	4.1	2.9	2.1	
8	XMF025MM	FURNITURE	-0.11	0.4	1.6	2.4	3.1	2.4	2.5	3.1	3.6	1.5	1.1	
9	XMF032MM	STONE, CLAY AND GLASS	-2.51	0.2	-0.4	1.4	2.7	2.4	2.4	3.0	2.0	1.6	1.7	
10	XMF033MM	PRIMARY METALS	-0.81	2.5	1.7	1.9	1.7	0.7	0.3	1.5	0.9	0.5	0.9	
11	XMF034MM	FABRICATED METAL PRODUCTS	-0.71	2.2	1.2	2.0	2.1	1.5	1.6	2.2	1.7	1.5	1.5	
12	XMF035MM	NON-ELECTRICAL MACHINERY	2.91	3.1	1.8	3.0	3.0	1.9	2.0	2.2	1.8	1.8	1.9	
13	XMF036MM	ELECTRICAL MACHINERY	2.31	2.1	0.8	4.0	4.0	3.6	3.5	3.9	3.7	3.5	1.4	
14	XMF037MM	MOTOR VEHICLES	5.01	0.2	3.3	3.9	4.9	3.5	3.1	4.3	4.0	3.8	3.3	
15	XMF037SP2MM	NON-AUTO TRAN EQ & ORD & MISC MFD	-1.31	1.9	1.3	2.5	2.4	1.9	2.0	2.6	2.3	2.1	2.0	
16	XMF038MM	INSTRUMENTS	-0.01	0.8	1.5	3.0	3.2	2.6	2.4	3.0	2.6	2.3	2.0	
17														
18	XMF001	NON-DURABLE GOODS	4.31	2.7	2.3	3.7	3.8	3.2	2.8	3.5	3.2	2.9	2.7	
19														
20	XMF020MM	FOOD AND BEVERAGES	3.31	4.2	1.9	5.0	4.9	4.5	4.0	3.9	3.2	2.7	2.1	
21	XMF021MM	TOBACCO	3.21	3.6	3.1	4.6	4.8	4.2	3.9	5.2	5.7	5.4	4.8	
22	XMF022MM	APPAREL	7.91	1.9	2.9	3.8	3.7	3.3	3.7	4.5	4.4	4.3	4.2	
23	XMF023MM	TEXTILES	5.51	4.1	2.7	3.7	3.3	2.5	2.2	3.0	2.6	2.3	2.6	
24	XMF024MM	PAPER	6.31	2.8	1.9	3.1	3.6	2.9	2.4	3.7	3.5	3.1	2.9	
25	XMF025MM	PRINTING AND PUBLISHING	5.11	1.9	3.5	2.0	2.4	1.6	1.4	2.0	1.7	1.5	1.2	
26	XMF026MM	CHEMICALS	5.31	2.7	2.5	5.3	5.3	4.4	3.1	4.2	3.9	3.5	3.3	
27	XMF027MM	PETROLEUM	4.01	1.2	2.1	3.9	4.2	3.6	3.6	5.0	5.0	4.8	4.4	
28	XMF030MM	RUBBER	1.51	1.3	2.0	3.0	2.6	1.7	1.6	2.5	2.1	1.9	1.7	
29	XMF031MM	LEATHER	3.71	3.3	-0.2	1.8	2.2	2.4	2.6	3.1	3.0	2.9	2.9	

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LINE	VAR LABEL	I T E M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NNHPMF	B MINING	43.381	42.72	42.95	43.27	43.68	43.97	44.08	44.22	44.29	44.26	44.06
2													
3	NNHPMF	I MANUFACTURING	40.301	40.29	40.14	40.11	40.19	40.20	40.20	40.29	40.35	40.35	40.29
4													
5	NNHPMF	I DURABLE GOODS	40.941	40.91	40.74	40.71	40.79	40.77	40.72	40.81	40.85	40.81	40.71
6													
7	NNHPMF	B LUMBER	39.871	39.78	39.91	39.90	39.91	39.87	39.77	39.65	39.57	39.49	39.39
8	NNHPMF	B FURNITURE	39.241	39.79	40.04	39.98	40.10	40.08	40.10	40.24	40.23	40.23	40.10
9	NNHPMF	B STONE, CLAY AND GLASS	41.641	41.74	42.17	42.18	42.21	42.17	42.11	42.20	42.26	42.19	42.03
10	NNHPMF	B PRIMARY METALS	41.171	41.24	41.23	41.33	41.60	41.63	41.48	41.66	41.75	41.71	41.45
11	NNHPMF	B FABRICATED METAL PRODUCTS	40.801	40.58	40.32	40.28	40.27	40.35	40.29	40.42	40.49	40.40	40.42
12	NNHPMF	B NON-ELECTRICAL MACHINERY	41.601	41.20	41.08	41.11	41.29	41.28	41.20	41.35	41.39	41.29	41.13
13	NNHPMF	B ELECTRICAL MACHINERY	40.351	40.47	40.14	40.05	40.04	40.00	39.95	39.96	39.94	39.90	39.84
14	NNHPMF	B MOTOR VEHICLES	42.191	41.78	41.29	41.01	40.90	40.84	40.83	40.96	41.03	41.04	41.02
15	NNHPMF	B NON-AUTO TRANS & ORD + MISG	40.831	41.11	40.76	40.76	40.80	40.79	40.79	40.87	40.91	40.92	40.92
16	NNHPMF	B INSTRUMENTS	40.351	40.73	40.52	40.50	40.56	40.56	40.56	40.66	40.70	40.70	40.67
17													
18	NNHPMF	I NON-DURABLE GOODS	39.361	39.37	39.23	39.18	39.24	39.30	39.37	39.46	39.53	39.59	39.60
19													
20	NNHPMF	B FOOD AND BEVERAGE	39.911	39.85	39.56	39.19	39.09	39.05	38.98	38.89	38.80	38.76	38.78
21	NNHPMF	B TOBACCO	38.091	37.72	37.22	36.92	36.78	36.75	36.79	36.92	36.90	36.85	36.81
22	NNHPMF	B TEXTILES	39.511	39.05	38.81	38.88	39.08	39.23	39.34	39.50	39.66	39.78	39.65
23	NNHPMF	B APPAREL	35.431	35.70	35.55	35.57	35.67	35.79	35.84	35.80	35.96	36.01	36.06
24	NNHPMF	B PAPER	42.341	42.26	42.19	42.35	42.55	42.73	42.86	43.02	43.19	43.35	43.48
25	NNHPMF	B PRINTING AND PUBLISHING	38.011	38.41	38.43	38.47	38.55	38.64	38.71	38.80	38.88	38.94	38.94
26	NNHPMF	B CHEMICALS	41.741	41.73	41.67	41.60	41.60	41.59	41.86	42.07	42.22	42.30	42.31
27	NNHPMF	B PETROLEUM	42.311	42.19	41.90	41.76	41.65	41.56	41.49	41.43	41.40	41.38	41.37
28	NNHPMF	B RUBBER	40.861	40.96	40.80	40.80	40.91	40.96	40.96	41.04	41.11	41.13	41.09
29	NNHPMF	B LEATHER	36.721	36.45	36.76	36.84	36.87	36.86	36.83	36.86	36.91	36.96	37.02

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TABLE 17.20 AVERAGE WEEKLY HOURS, % CHANGE

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NNHMF01	Mining	-1.61	-1.5	0.5	0.8	0.9	0.7	0.2	0.3	0.2	-0.1	-0.5
2	NNHMF02												
3	NNHMF03	Manufacturing	-0.01	-0.0	-0.4	-0.1	0.2	0.0	-0.0	0.2	0.1	-0.0	-0.1
4	NNHMF04												
5	NNHMF05	Durable Goods	0.11	-0.1	-0.4	-0.1	0.2	-0.1	-0.1	0.2	0.1	-0.1	-0.2
6	NNHMF06												
7	NNHMF07	Lumber	-0.61	-0.2	0.3	-0.0	0.0	-0.1	-0.2	-0.3	-0.2	-0.2	-0.3
8	NNHMF08	Furniture	1.11	1.4	0.6	-0.2	0.3	-0.1	0.1	0.4	-0.0	0.0	-0.3
9	NNHMF09	Stove, Clay and Glass	0.61	0.2	1.0	0.0	0.1	-0.1	-0.2	0.2	0.1	-0.2	-0.4
10	NNHMF10	Primary Metals	0.21	0.2	-0.0	0.2	0.7	0.1	-0.4	0.4	0.2	-0.1	-0.6
11	NNHMF11	Fabricated Metal Products	-0.21	-0.6	-0.6	-0.1	0.2	-0.1	-0.1	0.3	0.2	-0.0	-0.2
12	NNHMF12	Nonferrous Metal Machinery	-0.01	-0.0	-0.3	0.1	0.4	-0.0	-0.2	0.3	0.1	-0.2	-0.4
13	NNHMF13	Electrical Machinery	0.41	0.3	-0.8	-0.2	-0.0	-0.1	-0.1	0.0	-0.0	-0.1	-0.1
14	NNHMF14	Motor Vehicles	-4.31	-1.0	-1.2	-0.7	-0.3	-0.1	-0.0	0.3	0.2	0.0	-0.0
15	NNHMF15	Nonauto Trans Equip & Misc	1.91	0.7	-0.8	0.0	0.1	-0.0	-0.0	0.2	0.1	0.0	-0.0
16	NNHMF16	Instruments	-0.11	1.0	-0.5	-0.1	0.2	0.0	-0.0	0.2	0.1	-0.0	-0.1
17	NNHMF17												
18	NNHMF18	Nonurable Goods	-0.11	0.0	-0.3	-0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0
19	NNHMF19												
20	NNHMF20	Food and Beverages	0.01	-0.1	-0.7	-0.9	-0.3	-0.1	-0.2	-0.2	-0.2	-0.1	0.0
21	NNHMF21	Tobacco	-0.51	-1.0	-1.3	-0.8	-0.4	-0.1	0.1	0.4	-0.1	-0.1	-0.1
22	NNHMF22	Textiles	-2.21	-1.2	-0.4	0.2	0.5	0.4	0.3	0.4	0.4	0.1	-0.3
23	NNHMF23	Apparel	0.11	0.8	-0.4	0.1	0.3	0.3	0.1	0.2	0.2	0.1	0.1
24	NNHMF24	Paper	-1.11	-0.2	-0.2	0.4	0.5	0.4	0.3	0.4	0.4	0.4	0.3
25	NNHMF25	Printing and Publishing	0.61	1.0	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1	0.0
26	NNHMF26	Chemicals	0.11	-0.0	-0.1	-0.2	-0.0	-0.0	0.6	0.5	0.4	0.2	0.0
27	NNHMF27	Petroleum	-1.41	-0.3	-0.7	-0.3	-0.3	-0.2	-0.2	-0.1	-0.1	-0.0	-0.0
28	NNHMF28	Rubber	-0.31	0.2	-0.4	0.0	0.3	0.1	0.0	0.2	0.2	0.0	-0.1
29	NNHMF29	Leather	-0.81	-0.7	0.9	0.2	0.1	-0.0	-0.1	0.1	0.1	0.2	0.2

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WHARTON APPRIAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 18.10 CAPITAL STOCK (1972 \$)

LINE	VAR LABEL	I	T	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NTAG	I	FARM			45.53	46.62	47.04	48.15	50.39	53.14	56.42	59.65	62.91	66.08	69.07
2																
3	KTAMG	I	MINING			21.62	22.34	23.19	24.20	25.59	26.96	28.27	29.62	31.13	32.96	34.99
4																
5																
6	KTAMFD24	I	LUMBER			10.64	11.01	11.34	11.72	12.16	12.67	13.21	13.80	14.43	15.12	15.86
7	KTAMFD25	I	FURNITURE			1.83	1.86	1.89	1.93	1.97	2.00	2.04	2.09	2.14	2.20	2.25
8	KTAMFD32	I	STONE, CLAY AND GLASS			17.54	18.03	18.57	19.14	19.90	20.74	21.57	22.35	23.14	23.97	24.85
9	KTAMFD33	I	PRIMARY METALS			16.85	17.95	19.15	20.51	21.85	23.17	24.45	25.83	27.29	28.88	30.52
10	KTAMFD35	I	FABRICATED METAL PRODUCTS			19.30	19.94	20.54	21.20	21.87	22.56	23.27	23.98	24.70	25.41	26.13
11	KTAMFD36	I	NONMETALLIC MINERAL PRODUCTS			40.39	46.52	48.69	50.95	53.34	55.79	58.25	60.84	63.60	66.48	69.41
12	KTAMFD37	I	ELECTRICAL MACHINERY			27.41	28.41	29.41	30.58	31.86	33.16	34.47	35.78	37.19	38.69	40.26
13	KTAMFD38	I	MOTOR VEHICLES			18.84	20.15	21.58	22.97	24.15	24.98	25.78	26.59	27.67	28.76	29.88
14	KTAMFD39	I	NONAUTO TRANS EQ + MISC			9.55	9.76	9.99	10.28	10.63	11.01	11.39	11.80	12.25	12.75	13.28
15	KTAMFD40	I	INSTRUMENTS			9.09	9.46	9.85	10.26	10.72	11.21	11.70	12.23	12.81	13.41	14.01
16																
17																
18																
19																
20	KTAMFN20	I	FOOD AND BEVERAGES			27.73	28.26	28.78	29.32	29.75	30.12	30.54	31.14	31.95	32.95	34.16
21	KTAMFN21	I	TOBACCO			1.46	1.50	1.54	1.58	1.63	1.68	1.74	1.80	1.87	1.94	2.02
22	KTAMFN22	I	TEXTILES			7.34	7.36	7.40	7.48	7.62	7.78	7.96	8.14	8.34	8.54	8.73
23	KTAMFN23	I	APPAREL			2.06	2.11	2.16	2.21	2.27	2.34	2.42	2.51	2.62	2.73	2.85
24	KTAMFN24	I	PAPER			20.82	26.17	27.53	28.90	30.36	31.94	33.61	35.32	37.18	39.15	41.21
25	KTAMFN25	I	PRINTING AND PUBLISHING			7.54	7.58	7.64	7.71	7.81	7.93	8.07	8.26	8.50	8.77	9.07
26	KTAMFN26	I	CHEMICALS			40.29	41.54	42.99	44.43	46.13	48.11	50.32	52.62	55.05	57.76	60.56
27	KTAMFN27	I	PETROLEUM			96.76	101.05	104.78	108.54	112.62	116.95	121.34	125.68	129.93	134.08	138.20
28	KTAMFN28	I	RUBBER			13.06	14.35	15.07	15.42	16.14	16.90	17.71	18.58	19.55	20.59	21.66
29	KTAMFN29	I	LEATHER			1.65	1.68	1.71	1.74	1.77	1.81	1.85	1.89	1.93	1.97	2.00
30																
31	KTAMGT	I	TRANSPORTATION			60.13	59.98	59.74	59.73	59.66	59.55	59.59	59.40	60.55	61.60	63.01
32																
33	KTAMGUA9	I	UTILITIES			209.53	219.44	229.69	240.19	251.02	262.35	274.16	286.54	299.56	313.21	327.49
34																
35	KTAMGCC8	I	COMMUNICATIONS			113.42	117.69	122.57	128.04	133.93	140.25	146.86	153.71	160.95	168.66	176.80
36																
37	KTACD	I	COMMERCIAL AND OTHER			817.83	834.36	850.68	865.14	880.43	896.05	912.10	928.58	947.96	966.96	986.12
38	KTACH	I	COMMERCIAL			196.25	197.47	199.12	201.40	204.42	208.11	212.48	217.68	223.66	230.26	237.31
39																
40	KWGNP	I	STOCK OF REAL WEALTH			1276.41	1321.6	1364.4	1401.3	1441.6	1486.1	1530.6	1574.2	1624.5	1677.2	1729.1
41																
42	KCEDA	I	STOCK OF AUTOS			156.01	159.7	162.4	166.8	172.2	177.2	181.2	186.1	191.7	197.4	201.9
43																
44	KTFRN	I	STOCK OF NONFARM RESID. STRUCTURES			717.31	730.7	740.1	752.9	771.2	789.9	808.0	831.4	857.1	880.9	900.1
45																
46	KMTN	I	TOTAL NONFARM INVENTORIES			278.45	285.65	290.34	296.54	310.71	324.10	338.12	354.28	371.85	389.90	407.43
47	KMTIDAV	I	STOCK OF AUTO DEALER INVENTORIES			9.71	9.85	9.90	9.97	10.08	10.45	10.97	11.54	12.05	12.58	13.16
48	KMTIMF	I	STOCK OF MANUFACTURERS INVENTORIES			130.24	137.94	140.13	143.57	149.31	155.82	162.83	170.71	179.20	188.07	196.58
49	KMTIMM	I	STOCK OF NONMFG INVENTORIES			139.69	147.85	149.40	155.00	161.33	167.83	174.31	182.04	190.60	199.24	207.69

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WHANTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 18.20 CAPITAL STOCK, GROWTH RATES

LINE	VAR LABEL	I	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	KIAGC	I	FARM	1.61	2.4	0.9	2.8	4.2	5.5	6.2	5.7	5.0	4.5
2	KIANG	I	MINING	2.91	3.3	3.8	4.7	5.4	5.4	4.9	5.1	5.9	6.2
3	KIANG	I	MINING	2.91	3.3	3.8	4.7	5.4	5.4	4.9	5.1	5.9	6.2
4													
5													
6													
7	KIAMPD24	I	LUMBER	3.21	3.4	3.1	3.3	3.8	4.2	4.3	4.4	4.8	4.9
8	KIAMPD25	I	FURNITURE	1.21	1.4	1.5	2.2	2.0	1.8	2.1	2.3	2.6	2.7
9	KIAMPD32	I	STONE, CLAY AND GLASS	2.81	2.7	3.0	3.1	4.0	4.2	4.0	3.6	3.6	3.7
10	KIAMPD33	I	PRIMARY METAL	2.31	3.0	3.2	3.5	3.3	3.1	3.0	3.1	2.9	2.5
11	KIAMPD34	I	FABRICATED METAL	3.21	3.3	3.0	3.2	3.1	3.2	3.1	3.0	2.9	2.8
12	KIAMPD35	I	NONMETALLIC MINERAL	4.41	4.8	4.7	4.6	4.7	4.6	4.4	4.5	4.5	4.4
13	KIAMPD36	I	ELECTRICAL MACHINERY	2.91	3.6	3.5	4.0	4.2	4.1	3.9	3.8	4.0	4.1
14	KIAMPD37	I	MOTOR VEHICLES	6.11	7.0	7.1	6.4	5.1	3.4	2.9	3.3	3.9	3.2
15	KIAMPD37SP2	I	NONAUTO TRANS	1.71	2.3	2.3	3.0	3.4	3.6	3.5	3.8	4.1	4.2
16	KIAMPD38	I	INSTRUMENTS	4.11	4.0	4.1	4.2	4.5	4.5	4.4	4.7	4.7	4.5
17													
18													
19													
20	KIAMPN20	I	FOOD AND BEVERAGES	2.11	1.9	1.8	1.9	1.5	1.2	1.8	2.0	2.6	3.1
21	KIAMPN21	I	TOBACCO	2.71	2.5	2.5	2.8	3.1	3.3	3.5	3.7	3.8	3.9
22	KIAMPN22	I	TEXTILES	0.11	0.2	0.5	1.1	1.8	2.2	2.2	2.4	2.4	2.2
23	KIAMPN23	I	APPAREL	1.11	1.0	1.4	2.0	2.3	2.7	3.1	3.6	4.0	4.3
24	KIAMPN26	I	PAPER	4.81	5.4	5.2	5.0	5.1	5.2	5.2	5.1	5.3	5.3
25	KIAMPN27	I	PRINTING AND PUBLISHING	0.51	0.5	0.8	1.0	1.2	1.5	1.9	2.3	2.8	3.5
26	KIAMPN28	I	CHEMICALS	3.11	3.1	3.2	3.6	3.8	4.3	4.6	4.6	4.9	4.8
27	KIAMPN29	I	PETROLEUM	5.01	4.4	3.7	3.6	3.8	3.8	3.8	3.4	3.2	3.1
28	KIAMPN30	I	RUBBER	3.41	3.6	3.6	3.7	4.6	4.8	4.7	5.2	5.3	5.2
29	KIAMPN31	I	LEATHER	1.31	1.4	1.7	2.1	1.8	2.0	2.1	2.1	2.1	1.9
30													
31	KIARGT	I	TRANSPORTATION	0.01	-0.3	-0.4	-0.0	-0.1	-0.2	0.1	0.5	1.1	2.3
32	KIARGH49	I	UTILITIES	4.71	4.7	4.7	4.6	4.5	4.5	4.5	4.5	4.6	4.6
33													
34													
35	KIARGC48	I	COMMUNICATIONS	3.61	3.8	4.1	4.5	4.6	4.7	4.7	4.7	4.8	4.8
36													
37	KIACD	I	COMMERCIAL AND OTHER	5.01	4.5	3.3	3.2	3.3	3.3	3.2	3.4	3.5	3.4
38	KIACM	I	COMMERCIAL	0.51	0.6	0.8	1.1	1.5	1.8	2.1	2.5	3.0	3.1
39													
40	KWGP	I	STOCK OF REAL WEALTH	3.41	3.5	3.2	2.7	2.9	3.1	3.0	3.2	3.2	3.1
41													
42	KCEDA	I	STOCK OF AUTOS	5.81	2.4	1.7	2.7	3.3	2.9	2.3	3.0	3.0	2.3
43													
44	KIFRN	I	STOCK OF NONFARM RESID. STRUCTURES	3.31	1.9	1.3	1.7	2.4	2.4	2.3	3.1	2.8	2.2
45													
46	KIRIN	I	TOTAL NONFARM INVENTORIES	4.41	2.4	1.6	2.8	4.1	4.3	4.3	4.8	4.9	4.5
47	KIRINAV	I	STOCK OF AUTO DEALER INVENTORIES	-1.01	1.4	-0.5	1.7	1.0	3.7	5.0	5.2	4.4	4.6
48	KIRINMF	I	STOCK OF MANUFACTURES INVENTORIES	4.21	2.8	1.6	2.5	4.0	4.4	4.5	5.0	5.0	4.5
49	KIRINUMH	I	STOCK OF NONMFG NONAUTO INVENT.	5.11	2.2	1.9	3.3	4.4	4.3	4.1	4.7	4.8	4.5

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POST-MEETING COST CONTROL SOLUTIONS - DECEMBER 1979

TABLE 19.00 DEPRECIATION (CURRENT \$)

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	CCATIS	1 ALL INDUSTRIES	217.08	222.24	205.69	293.43	323.49	355.50	389.42	425.40	463.90	504.92	548.23
2	CCATAGS	2 AGRIC. FORESTRY & FISHERIES	10.94	11.90	13.00	14.29	15.68	17.78	20.00	22.32	24.79	27.39	30.11
3	CCATMGS	3 MINING	7.00	7.75	8.41	9.31	10.34	11.46	12.64	13.89	15.28	16.91	18.77
4	CCATMFS	4 MANUFACTURING	42.35	46.50	50.62	56.04	61.92	68.22	74.98	82.16	89.91	98.39	107.58
5	CCATMFS	5 DURABLE GOODS	24.98	27.44	29.92	33.22	36.79	40.58	44.60	48.85	53.44	58.43	63.78
6	CCATMFS	6 LUMBER	1.77	1.96	2.13	2.38	2.66	2.96	3.30	3.66	4.06	4.49	4.98
7	CCATMFS	7 FURNITURE	0.26	0.27	0.29	0.32	0.35	0.38	0.41	0.44	0.48	0.52	0.56
8	CCATMFS	8 STONE, CLAY AND GLASS	1.66	1.81	1.95	2.15	2.37	2.61	2.87	3.14	3.41	3.71	4.04
9	CCATMFS	9 PRIMARY METALS	3.85	4.14	4.44	4.77	5.11	5.47	5.85	6.24	6.67	7.11	7.56
10	CCATMFS	10 FABRICATED METAL PRODUCTS	1.69	1.83	1.96	2.14	2.34	2.55	2.77	3.00	3.24	3.49	3.76
11	CCATMFS	11 NON-ELECTRICAL MACHINERY	5.33	5.98	6.64	7.47	8.39	9.37	10.41	11.53	12.74	14.05	15.47
12	CCATMFS	12 ELECTRICAL MACHINERY	4.52	5.03	5.54	6.27	7.07	7.92	8.81	9.77	10.79	11.91	13.12
13	CCATMFS	13 MOTOR VEHICLES	2.96	3.20	3.45	3.83	4.22	4.67	5.07	5.53	5.78	6.26	6.74
14	CCATMFS	14 NON-AUTO TRANSPORT + MISC.	1.43	1.99	2.16	2.37	2.60	2.85	3.12	3.40	3.71	4.05	4.43
15	CCATMFS	15 INSTRUMENTS	1.11	1.24	1.36	1.52	1.70	1.90	2.10	2.33	2.57	2.84	3.12
16	CCATMFS	16 NON-DURABLE GOODS	17.37	19.06	20.69	22.82	25.13	27.65	30.39	33.31	36.47	39.97	43.80
17	CCATMFS	17 FOOD AND BEVERAGE	3.40	3.67	3.92	4.25	4.57	4.90	5.26	5.64	6.07	6.56	7.12
18	CCATMFS	18 TOBACCO	0.43	0.44	0.53	0.60	0.68	0.76	0.85	0.95	1.05	1.17	1.29
19	CCATMFS	19 TEXTILES	1.32	1.43	1.54	1.69	1.87	2.06	2.27	2.48	2.70	2.94	3.19
20	CCATMFS	20 APPAREL	0.29	0.31	0.33	0.36	0.39	0.42	0.46	0.50	0.55	0.60	0.65
21	CCATMFS	21 PAPER	2.32	2.60	2.87	3.19	3.54	3.93	4.35	4.81	5.30	5.85	6.45
22	CCATMFS	22 PRINTING AND PUBLISHING	1.45	1.56	1.67	1.82	1.99	2.16	2.35	2.56	2.79	3.05	3.33
23	CCATMFS	23 CHEMICALS	5.25	5.79	6.33	6.98	7.69	8.48	9.36	10.30	11.31	12.45	13.69
24	CCATMFS	24 PETROLEUM	1.63	1.83	2.02	2.27	2.55	2.85	3.18	3.51	3.86	4.22	4.60
25	CCATMFS	25 RUBBER	1.18	1.28	1.39	1.55	1.74	1.95	2.17	2.42	2.69	2.99	3.32
26	CCATMFS	26 LEATHER	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.14	0.14	0.15	0.16
27	CCATMFS	27 TRANSPORTATION	9.82	10.71	11.59	12.41	13.23	14.05	14.92	15.85	16.87	18.05	19.40
28	CCATMFS	28 UTILITIES	13.33	14.98	16.65	18.75	21.00	23.45	26.10	28.92	31.95	35.25	38.88
29	CCATMFS	29 COMMUNICATIONS	12.40	14.19	15.90	17.99	20.28	22.79	25.52	28.42	31.50	34.97	38.76
30	CCATMFS	30 COMMERCIAL AND OTHER	7.22	8.67	10.13	105.44	117.05	130.95	146.66	159.53	175.36	191.94	208.94
31	CCATMFS	31 RES. STRUCTURES, SINGLE UNITS	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
32	CCATMFS	32 RES. STRUCTURES, MULTIPLE UNITS	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
33	CCATMFS	33 RES. STRUCTURES, MOBILE HOMES	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
34	CCATMFS	34 CAPITAL CONSUMPTION ADJUST.											
35	CCATMFS	35 CORPORATE PROFITS & IVA	-18.12	-21.43	-24.11	-25.11	-26.11	-27.11	-28.11	-29.11	-30.11	-31.11	-32.11
36	CCATMFS	36 PROPRIETORS' INCOME, NONFARM	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
37	CCATMFS	37 PROPRIETORS' INCOME, FARM	-5.23	-5.76	-6.56	-7.36	-8.16	-8.94	-9.74	-10.56	-11.36	-12.16	-12.96
38	CCATMFS	38 RENTAL INCOME OF PERSONS	-20.94	-23.08	-25.08	-27.08	-29.08	-31.08	-33.08	-35.08	-37.08	-39.08	-41.08

A PRODUCT OF MARTIN IFA, INC., 1620 MARKET ST., PHILA., PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-WAITING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 20.00 USER COST OF CAPITAL

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	UCKAG	1 FARM-----	39.11	43.5	44.7	48.5	52.4	54.5	57.3	60.0	62.8	65.6	69.0
2													
3	UCKMG	1 MINING-----	36.61	40.9	41.0	44.5	48.2	49.6	51.9	54.1	56.3	58.6	61.6
4													
5		DURABLE GOODS											
6	UCKMFD24	1 LUMBER-----	22.51	25.6	25.7	28.0	30.4	31.0	32.4	33.6	34.9	36.3	38.1
7	UCKMFD25	1 FURNITURE-----	30.81	34.5	34.8	37.8	41.0	42.1	44.0	45.8	47.6	49.5	52.1
8	UCKMFD32	1 STONE, CLAY AND GLASS-----	24.31	27.5	27.5	29.9	32.5	33.1	34.5	35.8	37.2	38.6	40.5
9	UCKMFD33	1 PRIMARY METALS-----	29.61	33.3	33.2	36.1	39.2	40.2	42.0	43.7	45.5	47.3	49.7
10	UCKMFD34	1 FABRICATED METAL PRODUCTS-----	24.41	27.7	27.7	30.1	32.7	33.3	34.7	36.1	37.4	38.8	40.7
11	UCKMFD35	1 NONELECTRICAL MACHINERY-----	25.61	29.0	29.1	31.6	34.4	35.0	36.8	37.8	39.2	40.7	42.7
12	UCKMFD36	1 ELECTRICAL MACHINERY-----	24.21	27.5	27.5	29.9	32.4	33.0	34.4	35.7	37.1	38.4	40.4
13	UCKMFD37	1 MOTOR VEHICLES-----	24.81	33.5	33.4	36.3	39.3	40.4	42.3	44.1	45.9	47.7	50.2
14	UCKMFD37SP2	1 NONAUTO TRANS EQ + ORD + MISC-----	34.81	41.0	41.3	44.8	48.5	50.1	52.6	54.9	57.2	59.7	62.8
15	UCKMFD38	1 INSTRUMENTS-----	25.01	28.4	28.3	30.8	33.5	34.1	35.5	36.8	38.2	39.6	41.4
16													
17		NONDURABLE GOODS											
18													
19													
20	UCKMFD20	1 FOOD AND BEVERAGES-----	30.41	34.2	34.1	37.1	40.2	41.2	43.1	44.9	46.7	48.5	51.0
21	UCKMFD21	1 TOBACCO-----	30.31	33.9	33.9	36.8	39.9	40.9	42.7	44.5	46.2	48.0	50.5
22	UCKMFD22	1 TEXTILES-----	29.51	33.2	33.1	36.0	39.0	40.0	41.6	43.5	45.1	47.1	49.5
23	UCKMFD23	1 APPAREL-----	31.01	37.0	37.3	40.5	43.9	45.2	47.4	49.4	51.5	53.6	56.4
24	UCKMFD26	1 PAPER-----	23.91	27.2	27.0	29.3	31.9	32.5	33.8	35.1	36.4	37.7	39.6
25	UCKMFD27	1 PRINTING AND PUBLISHING-----	29.11	32.7	32.8	35.6	38.7	39.7	41.5	43.2	44.9	46.7	49.1
26	UCKMFD28	1 CHEMICALS-----	29.01	32.6	32.5	35.3	38.3	39.2	41.0	42.7	44.4	46.1	48.5
27	UCKMFD29	1 PETROLEUM-----	25.01	28.3	28.7	31.2	33.9	34.5	36.0	37.4	38.8	40.3	42.3
28	UCKMFD30	1 RUBBER-----	22.61	25.7	25.6	27.9	30.4	30.8	32.1	33.2	34.4	35.6	37.8
29	UCKMFD31	1 LEATHER-----	25.71	29.1	29.5	32.1	34.8	35.5	37.0	38.4	39.8	41.3	43.4
30													
31	UCKRG1	1 TRANSPORTATION-----	30.21	33.9	34.3	37.3	40.5	41.5	43.3	45.1	46.8	48.6	51.1
32													
33	UCKCM	1 COMMERCIAL-----	28.51	32.0	33.0	35.9	38.9	39.9	41.7	43.4	45.1	46.9	49.3
34													
35	UCKRGH9	1 UTILITIES-----	27.91	31.5	31.5	34.3	37.3	37.8	39.3	40.6	42.0	43.4	45.6
36													
37	UCKRGCH8	1 COMMUNICATIONS-----	30.81	34.6	34.8	37.8	41.1	41.9	43.6	45.2	46.9	48.6	51.0
38													
39	UCKR	1 TOTAL RESIDENTIAL HOUSING UNITS	16.41	19.3	21.1	23.0	24.9	26.0	27.4	28.8	30.2	31.5	33.2
40													
41	UCKRSD	1 OWNER OCCUPIED-----	16.71	19.9	21.7	23.7	25.8	26.9	28.4	29.9	31.3	32.8	34.4
42	UCKRST	1 LANDLORD OWNED-----	13.61	16.1	17.6	19.3	20.9	21.9	23.2	24.4	25.6	26.9	28.4
43	UCKRHH	1 MOBILE HOMES-----	20.51	22.9	24.1	25.6	27.5	28.7	30.1	31.5	32.9	34.3	35.9

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
PIST-MEETING CONTROL SOLUTION - DECEMBER 6, 1970

TABLE 21.10 EMPLOYEE COMPENSATION (CURRENT \$)

LINE	VAR LABEL	I	J	E	M	1970	1971	1972	1973	1974	1975	1976	1977	1978
1	MACS	1	ALL INDUSTRIES	1299.3	1434.1	1556.4	1711.3	1875.9	2047.9	2227.1	2426.1	2636.0	2855.0	3083.2
2	MACAGS	1	AGRIC., FORESTRY AND FISHERIES	12.3	13.4	14.2	14.0	17.0	19.6	21.1	23.0	24.7	26.5	28.3
3	MACMGS	1	MINING	20.5	23.4	24.0	26.7	29.1	31.8	34.6	37.0	41.3	44.9	48.4
4	MACMFS	1	MANUFACTURING	365.0	408.0	446.4	487.6	533.0	577.0	622.0	673.0	726.0	777.4	826.7
5	MACMFD1	1	DURABLE GOODS	237.1	266.0	292.5	321.6	353.7	384.6	414.6	451.3	488.4	523.2	556.4
6	MACMFD2	1	LUMBER	0.9	9.7	10.5	11.7	12.9	14.2	15.5	16.0	14.3	19.8	21.5
7	MACMFD3	1	FURNITURE	6.4	7.2	7.9	8.6	9.5	10.3	11.1	12.1	13.0	14.0	14.9
8	MACMFD4	1	STONE, CLAY AND GLASS	12.6	14.3	16.3	17.7	19.3	20.9	22.6	24.7	26.9	29.0	31.1
9	MACMFD5	1	PRIMARY METALS	30.5	34.1	36.9	40.4	44.7	48.5	51.3	54.9	58.3	60.0	62.7
10	MACMFD6	1	FABRICATED METAL PRODUCTS	27.4	30.9	34.3	38.0	42.2	46.1	49.9	54.5	59.2	63.6	67.7
11	MACMFD7	1	NON-ELECTRICAL MACHINERY	45.9	50.9	56.3	62.2	68.9	75.4	81.7	89.0	98.1	105.6	112.6
12	MACMFD8	1	ELECTRICAL MACHINERY	36.3	41.4	45.2	49.8	53.9	58.4	62.9	68.1	73.3	78.3	83.4
13	MACMFD9	1	MOTOR VEHICLES	26.3	31.3	34.2	37.6	40.8	44.0	47.5	52.0	56.6	60.9	65.1
14	MACMFD10	1	NON-AUTO TRANS. EQ. & MISC	30.5	35.0	38.0	41.8	46.0	50.0	53.9	58.7	63.6	68.3	73.0
15	MACMFD11	1	INSTRUMENTS	10.3	11.7	12.0	14.1	15.4	16.8	18.1	19.7	21.3	22.8	24.4
16	MACMFD12	1	NON-DURABLE GOODS	128.7	142.1	153.9	166.0	179.3	193.1	207.4	222.7	238.4	254.2	270.3
17	MACMFD13	1	FOOD AND BEVERAGES	28.0	30.9	32.7	34.4	36.3	38.1	40.0	42.0	44.2	46.6	49.2
18	MACMFD14	1	TABACCO	1.3	1.4	1.5	1.5	1.6	1.7	1.8	2.0	2.0	2.1	2.2
19	MACMFD15	1	TEXTILES	10.4	11.0	12.0	14.1	15.5	17.0	18.5	20.1	21.0	21.5	25.1
20	MACMFD16	1	APPAREL	12.8	14.4	15.5	16.8	18.2	19.8	21.3	22.8	24.4	26.0	27.5
21	MACMFD17	1	PAPER	13.7	15.4	16.0	18.4	20.2	22.1	24.0	26.0	28.1	30.2	32.3
22	MACMFD18	1	PRINTING AND PUBLISHING	18.2	20.7	22.9	26.1	27.5	30.0	32.7	35.5	38.5	41.5	44.7
23	MACMFD19	1	CHEMICALS	23.8	26.1	28.1	29.0	31.7	33.0	36.2	38.6	41.2	43.7	46.2
24	MACMFD20	1	PETROLEUM	5.6	6.3	6.9	7.3	8.0	8.5	9.0	9.5	9.9	10.3	10.7
25	MACMFD21	1	RUBBER	11.0	12.2	13.4	14.0	16.3	17.9	19.4	21.2	23.0	24.8	26.5
26	MACMFD22	1	LEATHER	2.7	3.0	3.4	3.7	4.0	4.3	4.6	4.9	5.2	5.5	5.8
27	MACMFD23	1	TRANSPORTATION	55.0	60.6	65.5	71.0	77.4	84.9	92.4	100.7	110.1	120.3	130.2
28	MACMFD24	1	UTILITIES	17.1	18.6	20.1	21.6	23.2	25.0	27.1	29.3	31.4	33.5	35.7
29	MACMFD25	1	COMMUNICATIONS	29.5	32.1	34.7	39.5	42.3	46.0	49.7	54.4	59.9	65.6	71.3
30	MACMFD26	1	COMMERCIAL AND OTHER	545.0	603.1	654.0	725.8	800.8	879.6	964.0	1055.0	1152.0	1258.3	1371.0
31	MACMFD27	1	GOVERNMENT	253.5	274.2	296.7	323.1	352.1	383.2	416.3	452.0	489.1	529.2	571.6
32	MACMFD28	1	FEDERAL	80.2	94.0	101.9	110.0	118.5	127.6	137.3	147.4	158.1	169.5	181.4
33	MACMFD29	1	STATE AND LOCAL	163.3	179.4	194.8	213.2	233.6	255.6	279.0	304.6	331.0	359.7	390.1

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 21.20 EMPLOYEE COMPENSATION, GROWTH RATES

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	WHCS	12.61	10.4	8.5	10.0	9.6	9.2	8.8	8.9	8.7	8.3	8.0
2	WHCAGS	9.4	9.0	6.2	12.6	11.5	9.7	8.1	8.5	7.7	7.3	6.7
3	WHCMGS	18.2	14.1	6.2	7.6	9.0	9.2	8.6	9.3	9.2	8.9	7.7
4	WHCMFS	13.3	11.0	9.2	9.2	9.3	8.4	7.7	8.4	7.8	7.0	6.3
5	WHCMFDS	14.9	12.5	9.6	9.9	10.0	8.8	7.8	8.9	8.2	7.1	6.3
6	WHCMFD24S	10.0	9.0	8.1	10.6	10.7	9.9	9.1	8.5	8.6	8.6	8.3
7	WHCMFD25S	12.9	12.6	10.0	8.9	9.8	8.4	8.0	9.1	7.1	7.6	6.8
8	WHCMFD32S	15.9	15.2	12.0	9.7	9.0	8.5	7.9	9.3	9.1	7.9	7.0
9	WHCMFD33S	12.8	11.8	8.4	9.4	10.6	8.5	8.0	7.1	6.1	4.4	3.0
10	WHCMFD34S	15.7	12.6	11.2	10.8	10.9	9.3	8.2	9.3	8.6	7.4	6.5
11	WHCMFD35S	17.1	10.9	10.6	10.6	10.7	9.4	8.3	9.0	9.2	7.7	6.6
12	WHCMFD36S	16.0	14.2	9.0	9.3	9.2	8.3	7.7	8.2	7.7	6.8	6.5
13	WHCMFD37S	13.4	10.5	9.2	10.0	8.4	7.8	8.1	9.5	8.8	7.6	6.9
14	WHCMFD38S	15.0	14.9	8.3	10.1	10.0	8.7	7.9	8.8	8.3	7.4	6.9
15	WHCMFD39S	14.2	13.8	9.7	9.7	9.7	8.7	7.9	8.6	8.1	7.4	6.8
16	WHCMFNS	10.4	10.4	8.4	7.9	8.0	7.7	7.4	7.3	7.1	6.6	6.4
17	WHCMF201	13.3	7.2	5.8	5.4	5.4	5.1	4.9	5.1	5.2	5.3	5.7
18	WHCMF213	10.3	7.6	6.2	6.3	6.4	6.1	5.7	5.7	4.8	4.3	4.3
19	WHCMF221	8.0	8.0	8.7	9.7	10.1	9.6	9.0	8.9	8.4	7.7	6.7
20	WHCMF233	10.8	8.3	8.0	8.0	8.5	8.4	7.7	7.4	6.9	6.3	5.6
21	WHCMF243	11.9	12.5	9.3	9.2	9.7	9.5	8.7	8.5	8.0	7.3	7.1
22	WHCMF273	11.9	13.7	10.5	9.8	9.3	9.3	8.9	8.7	8.4	7.9	7.7
23	WHCMF283	8.7	9.6	7.7	6.2	6.6	6.5	6.9	6.8	6.5	6.1	5.7
24	WHCMF293	8.8	12.3	9.5	7.9	7.2	6.5	5.7	5.2	4.6	4.2	4.0
25	WHCMF303	6.6	11.2	10.1	10.1	10.3	9.5	8.7	9.0	8.5	7.8	7.2
26	WHCMF313	12.5	12.6	12.0	8.8	8.3	7.4	6.9	6.7	6.5	6.1	6.0
27	WHCMF323	10.2	8.6	8.1	8.4	9.3	9.4	8.8	9.0	9.3	9.3	8.2
28	WHCMF333	12.0	8.6	8.1	7.4	7.5	8.0	8.1	8.3	7.1	6.8	6.4
29	WHCMF343	16.4	8.7	8.2	13.8	7.2	8.7	8.1	9.3	10.2	9.6	8.6
30	WHCMF353	14.0	10.6	8.4	11.0	10.3	9.8	9.4	9.4	9.3	9.2	9.0
31	WHCMF363	8.9	8.2	8.2	8.9	9.0	8.8	8.4	8.4	8.2	8.2	8.0
32	WHCMF373	8.7	7.4	7.5	7.9	7.8	7.7	7.6	7.4	7.3	7.2	7.0
33	WHCMF383	9.0	8.6	8.6	9.4	9.6	9.4	9.2	9.2	8.7	8.6	8.5

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TABLE 22.10 WAGE RATES (CURRENT \$)

LINE	VAR LABEL	I T E M	1979	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	WRC8	I ALL INDUSTRIES (PER WEEK)	265.10	266.14	306.24	330.16	355.71	382.57	410.51	440.60	471.51	503.41	536.65
2	WRCAGS	0 FARM (PER WEEK)	71.21	81.22	89.06	99.90	110.25	120.05	129.80	141.10	152.57	164.33	176.80
3	WRCMGS	0 MINING (PER HOUR)	10.55	11.86	12.89	14.01	15.23	16.56	17.97	19.44	20.95	22.53	24.13
4		DURABLE GOODS (PER HOUR)											
5	WRCMFD243	0 LUMBER	6.46	7.00	7.59	8.26	8.96	9.69	10.45	11.23	12.02	12.83	13.69
6	WRCMFD253	0 FURNITURE	5.88	6.39	6.89	7.49	8.09	8.71	9.34	9.99	10.64	11.31	12.02
7	WRCMFD323	0 STONE, CLAY AND GLASS	8.42	9.28	10.12	11.01	11.94	12.97	14.01	15.08	16.16	17.25	18.43
8	WRCMFD333	0 PRIMARY METALS	11.37	12.44	13.49	14.61	15.77	16.95	18.12	19.30	20.46	21.62	22.86
9	WRCMFD343	0 FABRICATED METAL PRODUCTS	6.44	6.99	7.54	8.10	8.66	9.23	9.81	10.40	10.99	11.58	12.17
10	WRCMFD353	0 NON-ELECTRICAL MACHINERY	9.26	10.08	10.96	11.92	12.89	13.89	14.93	16.02	17.12	18.25	19.40
11	WRCMFD363	0 ELECTRICAL MACHINERY	8.46	9.26	10.10	11.03	11.96	12.92	13.92	14.96	16.02	17.10	18.24
12	WRCMFD373	0 MOTOR VEHICLES	13.39	14.58	15.96	17.42	18.98	20.24	21.94	23.84	25.86	27.97	30.29
13	WRCMFD383	0 NON-AUTO TRANSPORT	9.28	10.20	11.11	12.09	13.11	14.17	15.27	16.40	17.55	18.71	19.99
14	WRCMFD393	0 INSTRUMENTS	8.06	8.63	9.25	9.93	10.65	11.33	12.06	12.81	13.58	14.36	15.14
15		NONDURABLE GOODS (PER HOUR)											
16	WRCMFD203	0 FOOD AND BEVERAGES	7.96	8.67	9.35	10.07	10.83	11.63	12.44	13.27	14.10	14.94	15.84
17	WRCMFD213	0 TOBACCO	9.14	9.96	10.74	11.59	12.47	13.38	14.29	15.20	16.10	16.99	17.96
18	WRCMFD223	0 TEXTILES	5.30	5.80	6.37	6.91	7.50	8.16	8.83	9.57	10.24	10.98	11.80
19	WRCMFD233	0 APPAREL	6.71	7.43	8.16	8.91	9.68	10.46	11.24	12.02	12.81	13.60	14.40
20	WRCMFD243	0 PRINTING AND PUBLISHING	6.19	6.91	7.63	8.36	9.10	9.84	10.58	11.32	12.06	12.80	13.54
21	WRCMFD253	0 CHEMICALS	10.25	11.16	12.00	12.92	13.87	14.85	15.85	16.87	17.89	18.93	20.00
22	WRCMFD263	0 PETROLEUM	12.09	13.24	14.36	15.62	16.91	18.23	19.57	20.92	22.24	23.65	25.11
23	WRCMFD273	0 RUBBER	7.51	8.18	8.86	9.59	10.32	11.08	11.86	12.67	13.47	14.30	15.14
24	WRCMFD283	0 LEATHER	5.13	5.65	6.16	6.68	7.24	7.85	8.48	9.14	9.82	10.51	11.24
25	WRCMFD293	0 TRANSPORTATION (PER WEEK)	308.52	324.83	350.59	394.54	434.84	478.96	525.40	573.26	622.26	673.03	727.38
26	WRCMFD303	0 UTILITIES (PER WEEK)	427.93	458.03	498.57	539.55	583.51	631.38	682.26	735.75	791.44	849.46	911.92
27	WRCMFD313	0 COMMUNICATIONS (PER WEEK)	453.76	489.00	530.54	577.26	626.05	679.48	735.41	792.68	851.57	914.07	980.62
28	WRCMFD323	0 COMMERCIAL AND OTHER (PER WEEK)	211.75	227.69	242.51	261.18	281.29	302.68	325.18	349.46	374.61	401.21	429.29
29	WRCMFD333	0 GOVERNMENT (PER WEEK)	274.95	292.87	310.27	334.82	360.35	387.25	414.75	444.03	473.90	505.48	538.57
30	WRCMFD343	0 FEDERAL	348.27	375.56	404.84	436.17	469.58	504.77	542.00	580.78	621.50	664.73	709.60
31	WRCMFD353	0 STATE & LOCAL	287.15	312.62	340.76	370.40	401.64	434.48	468.92	504.06	540.82	579.19	619.29

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TABLE 22.20 WAGE RATES, % CHANGE

LINE	VAR LABEL	J	T	E	M	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	WRCG					8.2	7.9	7.0	7.8	7.7	7.5	7.3	7.3	7.0	6.8	6.6
2																
3	WRCAGS					7.2	14.0	9.7	12.2	10.4	8.9	8.1	8.8	8.1	7.8	7.5
4																
5	WRCMGS					15.8	12.5	8.6	8.7	8.7	8.7	8.5	8.2	7.7	7.5	7.1
6																
7																
8	DURABLE GOODS (PER HOUR)															
9	WRCMFD283					7.3	8.5	8.3	8.9	8.5	8.1	7.8	7.5	7.0	6.8	6.7
10	WRCMFD258					6.6	8.7	7.9	8.6	8.1	7.7	7.2	6.9	6.5	6.3	6.1
11	WRCMFD324					8.7	10.3	9.0	8.8	8.6	8.4	8.0	7.6	7.2	6.7	6.8
12	WRCMFD338					7.9	9.5	8.4	8.3	8.0	7.5	6.9	6.5	6.0	5.7	5.7
13	WRCMFD348					10.0	10.1	10.1	9.3	8.7	8.3	8.0	7.7	7.2	6.8	6.9
14	WRCMFD358					11.9	8.9	8.7	8.8	8.1	7.8	7.5	7.3	6.9	6.4	6.8
15	WRCMFD363					9.4	9.4	9.4	9.2	8.8	8.0	7.8	7.5	7.1	6.7	6.9
16	WRCMFD3713					9.5	8.9	9.4	9.1	7.8	7.8	6.4	8.7	8.5	8.2	8.1
17	WRCMFD373P23					8.1	9.9	9.0	8.8	8.8	8.1	7.8	7.4	7.0	6.6	6.8
18	WRCMFD383					8.9	8.8	8.5	8.4	7.8	7.5	7.1	6.8	6.4	6.1	6.1
19																
20	NONDURABLE GOODS (PER HOUR)															
21																
22	WRCMFD208					11.9	8.9	7.9	7.8	7.5	7.3	7.0	6.7	6.3	6.0	6.0
23	WRCMFD218					10.3	9.0	7.8	7.9	7.6	7.3	6.8	6.4	5.9	5.6	5.7
24	WRCMFD228					9.8	9.5	9.8	9.5	9.2	8.8	8.4	8.2	7.7	7.3	7.1
25	WRCMFD238					9.4	10.1	8.6	8.1	8.6	8.7	8.5	8.2	7.8	7.4	7.1
26	WRCMFD248					10.8	10.7	8.4	7.9	8.3	8.4	8.2	7.9	7.5	7.0	7.2
27	WRCMFD278					9.3	10.3	9.2	8.8	8.3	8.0	7.6	7.1	6.6	6.2	6.2
28	WRCMFD288					7.4	8.9	7.5	7.7	7.3	7.1	6.7	6.4	6.1	5.8	5.7
29	WRCMFD298					9.3	9.5	8.4	8.8	8.3	7.8	7.3	6.9	6.5	6.2	6.2
30	WRCMFD308					4.9	8.9	8.3	8.2	7.7	7.3	7.1	6.8	6.4	6.1	6.2
31	WRCMFD318					9.4	10.2	9.0	8.5	8.5	8.4	8.1	7.8	7.4	7.0	7.0
32																
33	WRCG13					9.7	6.6	7.9	7.8	8.2	8.2	8.0	7.7	7.3	7.0	7.0
34																
35	WRCGUA95					8.6	7.0	8.9	8.2	8.1	8.2	8.1	7.8	7.6	7.3	7.4
36																
37	WRCGCM85					8.7	7.8	8.5	8.8	8.6	8.4	8.2	7.8	7.4	7.3	7.3
38																
39	WRCGUS					8.5	7.5	6.5	7.7	7.7	7.6	7.5	7.4	7.2	7.1	7.0
40																
41	WRCGV3					6.4	6.5	5.9	7.9	7.6	7.5	7.1	7.1	6.7	6.7	6.5
42																
43	WRCGV5					8.4	7.8	7.8	7.8	7.6	7.5	7.4	7.2	7.0	7.0	6.8
44	WRCGV5					5.7	6.1	5.8	8.1	7.8	7.6	7.2	7.2	6.8	6.7	6.6

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TABLE 23.10 PRICE DEFLATORS (1972 = 100)

LINE	VAR LABEL	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	PGGMP	152.1	162.9	173.2	185.2	197.7	210.4	223.1	236.0	248.7	261.4	274.1		
2														
3	PDYN	152.1	162.9	173.2	185.3	197.7	210.5	223.2	236.2	249.0	261.7	274.5		
4														
5	PDCE	150.4	160.9	171.4	183.0	194.9	206.9	218.9	230.7	242.4	254.1	265.6		
6	PDCEA	136.7	144.9	152.7	161.6	169.6	177.6	185.4	193.0	200.5	208.1	215.7		
7	PDCEDA	146.0	158.3	170.0	180.0	188.4	197.7	207.8	216.8	226.5	236.9	247.4		
8	PDCEDAV	134.9	148.6	157.5	167.3	174.3	181.6	189.2	196.9	203.7	211.4	219.4		
9	PDCEDAVU	193.0	216.7	241.9	257.6	269.2	282.0	297.5	314.1	332.1	352.2	371.0		
10	PDCEDAVAT	138.9	149.5	159.6	170.5	181.9	193.7	205.9	217.6	229.4	241.7	254.2		
11	PDCEDAVAT	132.9	143.9	154.3	164.8	174.5	184.6	194.9	205.2	215.0	224.9	234.9		
12	PDCEDF	120.6	134.7	140.0	147.8	155.1	162.2	168.9	175.3	181.2	187.1	192.8		
13	PDCEDF	132.8	139.1	145.1	153.4	161.5	169.4	177.1	184.3	190.9	197.5	203.8		
14	PDCEDF	155.0	165.0	170.5	180.9	195.8	206.9	217.8	228.9	239.5	250.0	260.1		
15	PDCEDF	162.9	175.9	188.2	198.5	210.0	222.0	234.1	246.8	259.2	271.2	282.7		
16	PDCEDF	125.9	130.3	134.7	141.8	149.0	156.1	162.9	169.2	175.2	181.0	186.4		
17	PDCEDF	180.6	192.7	205.1	221.3	237.8	254.6	271.5	288.3	305.1	321.9	334.1		
18	PDCEDF	155.3	164.5	173.6	185.3	197.2	209.2	221.2	232.4	245.4	259.3	273.2		
19	PDCEDF	141.4	153.3	165.6	178.1	191.0	203.8	216.3	228.7	240.5	252.2	263.6		
20	PDCEDF	157.3	168.2	179.2	191.4	204.2	219.9	233.5	243.6	253.0	262.1	270.9		
21	PDCEDF	154.1	165.6	177.3	190.7	204.9	219.6	234.6	249.5	264.5	280.1	295.9		
22	PDCEDF	157.2	169.3	181.6	196.9	212.9	229.4	245.9	262.7	279.4	296.6	313.9		
23	PDCEDF													
24														
25	PDCEDF	164.7	178.9	192.4	208.2	224.4	240.3	256.2	272.7	288.7	304.4	320.1		
26	PDCEDF													
27	PDCEDF	158.0	171.2	183.7	196.9	211.2	225.8	240.7	255.4	270.0	285.1	300.8		
28	PDCEDF	178.6	200.8	221.3	240.7	259.9	279.8	299.9	318.9	338.0	357.9	378.3		
29	PDCEDF	179.3	202.1	223.6	243.2	262.6	283.0	303.6	324.2	342.2	362.5	383.0		
30	PDCEDF	179.4	201.1	221.8	241.8	261.9	282.0	302.1	322.2	342.2	362.5	383.0		
31	PDCEDF	159.2	170.3	180.6	191.4	204.6	218.1	231.5	244.7	257.6	270.6	283.5		
32														
33														
34														
35	PUNSPRSI	4.594	5.033	5.334	5.799	6.314	6.830	7.427	8.083	8.610	9.260	9.890		
36	PUNSPRSM	2.520	2.703	2.897	3.071	3.262	3.502	3.766	4.011	4.277	4.636	5.046		
37	PUNSPRSH	1.679	1.825	1.990	2.126	2.254	2.382	2.480	2.596	2.792	2.981	3.088		
38														
39	PTER	190.4	201.9	212.2	225.5	239.3	253.8	268.2	282.6	296.6	310.5	324.4		
40	PTHR	219.4	236.9	254.6	271.1	287.5	302.6	315.1	328.2	340.9	354.1	367.7		
41														
42	PGVPT	157.6	168.3	178.5	190.7	203.2	216.1	229.3	242.8	256.4	270.6	285.6		
43	PGVPT	153.2	163.0	172.8	184.7	196.8	208.9	221.1	233.2	245.3	257.8	270.4		
44	PGVPS	160.2	171.3	181.9	194.1	206.9	220.2	233.9	248.1	262.5	277.7	293.8		
45														
46														
47	PIRG	65.3	69.7	74.2	80.0	85.9	92.0	98.0	104.0	109.9	115.8	121.8		
48	PIRGIS	8.61	8.8	9.0	9.2	9.4	9.5	9.7	9.9	10.1	10.3	10.5		
49	PIRGIF	4.01	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0		
50	PIRGY	52.7	56.9	61.2	66.8	72.6	78.4	84.2	90.0	95.8	101.5	107.3		

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TABLE 23.20 PRICE DEFLATIONS, GROWTH RATES

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 PDGMP	7.41	7.1	6.5	6.9	6.7	6.4	6.0	5.8	5.4	5.1	4.8
2											
3 PDYN	6.91	7.1	6.3	6.9	6.7	6.4	6.1	5.8	5.4	5.1	4.9
4											
5 PDCE	6.91	7.0	6.5	6.8	6.5	6.2	5.8	5.4	5.0	4.9	4.6
6 PDCEA	5.51	6.0	5.4	5.8	5.0	4.7	4.4	4.1	3.9	3.8	3.6
7 PDCEDA	7.51	8.4	7.0	5.9	4.7	4.9	4.9	4.3	4.5	4.6	4.6
8 PDCEDAV	6.01	7.0	6.4	6.3	4.1	4.2	4.2	3.6	3.7	3.0	3.8
9 PDCEDAVU	6.31	11.6	11.6	6.5	4.5	5.0	5.3	5.6	5.7	6.0	5.3
10 PDCEDAVU+H	8.01	7.6	6.7	6.9	6.7	6.5	6.3	5.7	5.4	5.3	5.2
11 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
12 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
13 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
14 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
15 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
16 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
17 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
18 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
19 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
20 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
21 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
22 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
23 PDCEDAVU+H	8.01	8.3	7.1	6.6	6.1	5.8	5.6	5.2	4.8	4.6	4.5
24											
25 PDIRF	9.41	8.6	7.8	8.2	7.8	7.1	6.6	6.4	5.9	5.4	5.2
26											
27 PDIRF	8.21	7.8	6.7	7.8	7.3	6.9	6.6	6.1	5.7	5.6	5.5
28 PDIRF	12.11	12.3	10.4	8.7	8.0	7.7	7.2	6.3	6.0	5.9	5.9
29 PDIRF	12.11	12.3	10.4	8.7	8.0	7.7	7.2	6.3	6.0	5.9	5.9
30 PDIRF	12.11	12.3	10.4	8.7	8.0	7.7	7.2	6.3	6.0	5.9	5.9
31 PDIRF	12.11	12.3	10.4	8.7	8.0	7.7	7.2	6.3	6.0	5.9	5.9
32											
33											
34 PUNSPRS1	20.61	9.6	6.0	8.7	8.9	8.3	8.6	8.3	7.3	7.1	6.8
35 PUNSPRS2	20.61	7.3	7.2	6.0	6.2	7.3	7.5	6.5	6.6	6.4	6.8
36 PUNSPRS3	15.21	8.7	9.0	6.8	6.0	5.7	4.1	4.7	7.6	6.0	3.6
37											
38 PTER	6.71	5.9	9.1	6.2	6.1	6.1	5.7	5.4	5.0	4.7	4.5
39 PIR	4.31	7.0	7.5	6.5	6.0	5.3	4.1	4.2	3.9	3.9	3.8
40											
41 PDGVP1	7.01	6.7	6.1	6.8	6.6	6.4	6.1	5.9	5.6	5.6	5.5
42 PDGVP2	7.01	6.8	6.0	6.9	6.5	6.2	5.8	5.5	5.2	5.1	4.9
43 PDGVP3	7.01	6.9	6.2	6.7	6.6	6.5	6.2	6.1	5.8	5.8	5.8
44											
45											
46 PIURG	5.01	6.7	6.4	7.4	7.4	7.0	6.5	6.1	5.7	5.4	5.2
47 PIURGI	2.71	2.3	2.3	2.0	1.9	1.9	1.9	2.1	2.0	2.0	1.9
48 PIURGI	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49 PIURGI	0.01	7.0	7.5	9.2	8.6	8.1	7.4	6.9	6.3	6.0	5.8

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TABLE 25.00 GROSS NATIONAL PRODUCT, NATIONAL INCOME, PERSONAL INCOME

LINE	VAR LABEL	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNPS	2105.7	2308.1	2492.2	2754.9	3044.6	3335.5	3628.3	3975.3	4328.6	4682.6	5011.3
2												
3	CCATS	217.1	242.2	265.7	293.4	323.5	355.5	389.8	425.5	463.9	504.9	548.2
4												
5	NNPS	1888.6	2065.9	2226.5	2461.4	2721.1	2980.0	3238.8	3549.8	3864.7	4177.9	4483.1
6												
7	TXCBS	177.9	186.3	201.3	214.4	234.0	256.6	280.5	303.9	326.1	350.0	368.7
8												
9	TXCBFS	27.8	29.0	29.6	28.7	31.8	34.8	37.7	41.3	44.9	48.5	45.1
10	TXCBSS	150.1	157.3	171.7	185.7	202.2	221.8	242.7	262.6	281.2	301.5	323.6
11												
12	TRBUS	10.7	11.8	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4
13												
14	SOS	2.2	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
15												
16	GVSUBTS	3.9	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
17												
18	YNS	1701.8	1866.2	2012.7	2235.0	2474.3	2709.0	2943.9	3230.6	3522.5	3811.0	4096.7
19												
20	CPARTS	161.5	170.3	179.9	214.6	248.7	275.1	293.6	335.9	374.7	404.0	427.5
21												
22	TXCSTS	168.0	189.7	201.9	220.8	243.4	267.3	292.5	320.7	350.8	382.6	415.7
23	TXCSTPS	69.4	77.2	77.7	85.0	93.7	102.9	112.6	123.5	135.0	147.3	160.0
24	SUPTS	90.5	111.5	124.2	135.8	149.7	164.4	179.9	197.2	215.7	233.3	255.6
25												
26	WALDS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27												
28	TRTDPs	226.7	254.5	288.2	317.5	349.8	385.0	422.1	460.5	500.4	543.1	588.1
29												
30	TRGPPs	182.3	205.3	231.6	255.0	281.2	309.9	340.3	371.8	404.6	439.9	477.5
31	TRIDPUS	9.2	9.8	11.7	11.8	12.1	13.1	14.1	14.5	14.6	15.1	15.9
32	TRGPPHDS	173.1	195.5	219.9	243.2	269.0	296.8	326.2	357.3	390.0	424.8	461.6
33	TRGSPs	33.7	30.4	43.6	48.7	54.0	59.7	65.6	71.7	78.0	84.5	91.4
34	TRBUS	10.7	11.8	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4
35												
36	YINTGCS	52.9	61.2	70.6	75.8	80.3	84.4	88.3	91.8	95.2	97.9	100.6
37												
38	YINTCS	33.7	36.3	42.3	45.3	48.3	51.3	54.3	57.3	60.3	63.3	66.3
39	YINTGFS	35.5	41.3	44.8	47.0	48.5	49.6	50.5	51.0	51.4	51.1	50.8
40	YINTGSS	27.7	29.3	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7
41												
42	YDIVTS	49.3	56.1	63.0	70.5	78.6	86.9	95.1	104.2	113.8	123.6	133.6
43												
44	YPS	1705.2	1881.0	2032.8	2263.4	2490.9	2723.6	2963.4	3210.5	3506.4	3789.1	4076.1
45												

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TABLE 26.00 NATIONAL INCOME (CURRENT \$)

LINE VAR LABEL	I	J	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 YNS	1	NATIONAL INCOME			1701.8	1866.2	2012.7	2235.0	2474.3	2709.8	2943.9	3230.6	3522.5	3811.0	4096.7
2															
3 WACS	1	COMPENSATION OF EMPLOYEES			1299.3	1434.1	1556.8	1711.3	1875.9	2087.9	2227.1	2426.1	2636.0	2855.8	3083.2
4															
5 YENTFS	E	FARM INCOME			24.3	28.1	30.7	32.7	34.7	36.7	38.7	40.7	42.7	44.7	47.1
6															
7 YOTHS	B	RENT, INTEREST & PROPRIETORS' INC			239.2	257.0	272.3	305.6	346.0	383.7	420.3	466.1	509.2	548.9	583.4
8 CCAAYRENTS	E	CCA, RENTAL INCOME OF PERSONS			-20.9	-23.1	-25.1	-27.1	-29.1	-31.1	-33.1	-35.1	-37.1	-39.1	-41.1
9 IVALS	B	PROPRIETORS' INVENTORY VAL ADJ			-1.9	-1.3	-1.7	-2.4	-2.6	-2.9	-3.0	-3.3	-3.4	-3.6	-3.8
10 CCAAYRENTS	E	CCA, PROPRIETORS' INCOME, NONFARM			0.3	0.4	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
11															
12 CPABTS	1	CORPORATE PROFITS AND INV VAL ADJ			161.5	170.3	179.9	214.6	248.7	275.1	293.6	335.9	374.7	404.0	427.5
13															
14 IVACS	B	INVENTORY VALUATION ADJUSTMENT			-23.0	-20.4	-19.6	-26.1	-28.4	-30.8	-32.2	-34.8	-35.6	-37.6	-39.5
15 CCAACPS	E	CCA, CUR PROFITS & T/A			-18.1	-21.4	-24.1	-25.1	-28.1	-27.1	-28.1	-29.1	-30.1	-31.1	-32.1
16															
17 CPUBTS	1	PROFITS BEFORE TAXES			202.6	212.1	223.6	265.8	303.2	333.0	351.9	399.0	440.4	472.7	499.2
18 TACCTS	1	PROFITS TAX LIABILITY			83.7	82.9	81.1	98.5	114.4	126.7	135.8	154.9	172.4	186.9	198.3
19 CPUBTS	1	PROFITS AFTER TAX			118.9	129.2	142.5	167.3	188.8	206.3	216.2	244.9	268.0	285.8	300.9
20 YDIVIS	B	DIVIDENDS			49.3	56.1	63.0	70.5	78.6	86.9	95.1	104.2	113.8	123.6	133.6
21 RETS	1	UNDISTRIBUTED PROFITS			69.6	73.2	79.5	96.8	110.2	119.5	123.0	140.7	154.2	162.2	167.2

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TABLE 27.00 PERSONAL INCOME (CURRENT \$)

LINE VAR LABEL	I. I. F. M.	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 YPS	PERSONAL INCOME	1705.2	11081.0	2052.0	2263.4	2400.4	2723.6	2963.4	3230.5	3506.4	3789.1	4076.1
2 WRC3	COMPENSATION OF EMPLOYEES	1299.3	11434.1	1556.4	1711.3	1875.9	2047.9	2227.1	2426.1	2636.0	2855.0	3083.2
3 WALDS	LESS: WAGE ACCRUALS LESS DISBURS.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 YOTHS	RENT, INTEREST AND PROP. INCOME	239.2	257.0	272.3	305.6	346.4	403.7	420.3	466.1	509.2	548.9	593.4
5 YVAVS	PROPRIETORS' INVENTORY VAL ADJ	-1.9	-1.3	-1.7	-2.4	-2.6	-2.9	-3.0	-3.3	-3.4	-3.6	-3.8
6 YENTFS	FARM INCOME	24.3	28.1	30.7	32.7	34.7	36.7	38.7	40.7	42.7	44.7	47.1
7 YDIVTS	DIVIDENDS	49.3	56.1	63.0	70.3	78.6	86.9	95.1	104.2	113.8	123.6	133.6
8 YINTGCS	INTEREST (CONSUMERS AND GOV.)	52.95	63.15	70.62	75.79	80.29	84.39	88.29	91.79	95.19	97.89	100.59
9 YINTCS	INTEREST PAID BY CONSUMERS	33.7	30.3	42.3	45.3	48.3	51.3	54.3	57.3	60.3	63.3	66.3
10 YINTGCS	NET INTEREST PAID (STATE)	17.7	-9.3	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7
11 YINTGFS	NET INTEREST PAID (FEDERAL)	35.5	41.3	48.0	47.0	48.5	49.6	50.5	51.0	51.4	51.1	50.8
12 YTRNPS	TRANSFER PAYMENTS	226.7	254.5	280.2	317.5	349.8	385.0	422.1	460.5	500.4	543.1	588.3
13 YBUSNCS	BUSINESS TRANSFER PAYMENTS	10.7	11.8	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4
14 YFEDPS	FED TRANS PAYMENTS TO PERSONS	182.3	204.3	231.6	255.0	281.2	309.9	340.3	371.0	408.6	439.9	477.5
15 YUNEMP	SUPPL UNEMPLOYMENT INS. BENEFITS	9.2	9.8	11.7	11.8	12.1	13.1	14.1	14.5	14.6	15.1	15.9
16 YOTHRPS	OTHER TRANSFER PAYMENTS	173.1	194.5	219.9	243.2	269.0	296.0	326.2	357.3	390.0	420.8	461.6
17 YSTATE	STATE TRANSFER PAYMENTS	33.7	38.4	43.6	48.7	54.0	59.7	65.6	71.7	78.0	84.5	91.4
18 YLESSI	LESS: CONTR. FOR SOC. INSUR.	164.0	188.7	201.9	220.8	243.4	267.3	292.5	320.7	350.8	382.6	415.7
19 YEMPL	EMPLOYER	94.5	111.5	124.2	135.8	149.7	164.4	179.9	197.2	215.7	235.3	255.6
20 YEMPL	EMPLOYEE	69.4	77.2	77.7	85.0	93.7	102.9	112.6	123.5	135.0	147.3	160.0
21 YLESSI	LESS: PERSONAL TAX PAYMENTS	255.2	279.5	303.0	343.4	385.1	427.6	471.8	518.2	567.1	618.0	673.3
22 YDISPOS	PERSONAL DISPOSABLE PERSONAL INCOME	1450.1	11601.5	1749.8	1920.0	2105.7	2296.0	2491.6	2712.3	2959.3	3171.1	3402.8
23 YPDOUTS	LESS: PERSONAL OUTLAYS	1371.2	11504.8	1635.6	1798.5	1970.1	2148.7	2332.8	2535.7	2745.3	2963.0	3182.1
24 YCES	PERSONAL CONSUMPTION EXP.	1336.5	11465.4	1592.2	1732.1	1920.7	2096.3	2277.5	2477.3	2683.9	2898.7	3114.7
25 YINTCS	INTEREST PAID BY CONSUMERS	33.7	30.3	42.3	45.3	48.3	51.3	54.3	57.3	60.3	63.3	66.3
26 YTRAPEFS	PERS TRANS PAY. TO FOR.	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
27 YPDUSAVS	EQUALS: PERSONAL SAVINGS	78.0	96.7	114.2	121.5	135.7	147.3	158.7	176.6	194.0	208.1	220.7
28 YPDOSAVH	PERSONAL SAVINGS RATE	5.4	6.0	6.5	6.3	6.4	6.4	6.4	6.5	6.6	6.6	6.5
29 YADDENDUM	ADDENDUM: REAL INCOME (1972 \$)											
30 YPD	REAL DISPOSABLE PERSONAL INCOME	964.8	995.5	1021.1	1049.0	1080.6	1109.7	1138.4	1175.8	1212.7	1248.2	1281.1

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LINE VAR LABEL	I I F M	TABLE 2A.00 SOURCES AND USES OF GROSS SAVINGS										
		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 SVGS		320.51	352.6	378.4	428.9	497.1	555.6	606.2	680.5	767.5	833.5	886.7
2												
3 YPOSAYS												
4 RETS												
5 IVACS												
6 CCAACPS												
7 CCATS												
8 WALNS												
9												
10 GVSURPS												
11 GVSURPFS												
12 GVSURPSS												
13												
14 TFBSDBS												
15												
16 INGS												
17 IBTS												
18 TANHFS												
19												
20 SDS												
21												
22												
23												
24												
25 VARI												
26												
27												
28 VAR2												
29												
30												
31												
32 VAR3												

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TABLE 29.00 FINANCIAL SECTOR

LINE VAR LABEL	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 FMAS	976.2	1106.1	1150.0	1273.3	1407.1	1557.6	1711.2	1871.5	2042.0	2215.0	2388.3
2 FMAS	10.8	8.7	8.4	10.7	10.5	10.7	9.8	9.4	9.1	8.5	7.8
3											
4 FCUS	97.7	107.6	118.0	130.2	141.9	157.3	174.7	193.5	212.2	232.0	254.9
5 FCUS	10.3	10.1	9.7	10.3	9.0	10.9	11.0	10.8	9.7	9.3	8.9
6											
7 FORDPS	265.9	279.6	301.7	334.0	360.0	394.0	430.0	466.7	513.4	564.4	620.3
8 FORDPS	7.0	5.2	7.9	11.0	7.5	9.5	11.2	11.1	9.6	9.6	8.1
9											
10 FORTS	612.5	674.0	730.3	800.2	905.3	1006.5	1098.5	1191.3	1296.3	1399.4	1513.1
11 FORTS	12.3	10.0	8.3	10.7	12.0	11.2	9.1	8.4	8.8	8.0	8.1
12											
13 FRNEDT	0.0466	0.0444	0.0458	0.0457	0.0456	0.0455	0.0454	0.0453	0.0452	0.0451	0.0450
14 FRNRS	41.0	44.3	47.3	52.3	57.7	63.8	69.8	76.1	82.8	89.5	96.1
15 FRNRS	40.2	44.3	47.2	52.2	57.6	64.0	70.0	76.2	82.6	89.4	96.2
16 FRNRS	-0.7	-0.0	-0.2	-0.1	-0.1	0.2	0.2	0.1	-0.2	-0.1	0.1
17											
18 FRNFRB	7.43	9.54	8.63	8.83	8.28	7.92	7.46	6.78	6.48	6.57	6.42
19 FRNCP4M	8.10	10.01	8.63	8.71	8.36	7.73	7.23	7.18	7.02	6.89	6.85
20											
21 FRNCS	9.06	9.79	9.64	9.78	9.91	9.31	9.04	8.78	8.56	8.35	8.30
22											
23 FRNCSI	8.90	9.62	9.47	9.58	9.73	9.15	8.89	8.64	8.43	8.22	8.18
24 FRNCSR	8.74	9.45	9.30	9.41	9.58	8.96	8.69	8.42	8.19	7.98	7.93
25 FRNCSU	9.22	9.97	9.81	9.93	10.10	9.47	9.18	8.91	8.68	8.46	8.41
26											
27 FRNRP	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
28 FRNRC	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
29											
30 FRNRS	9.68	10.46	10.30	10.37	10.44	10.02	9.82	9.66	9.51	9.37	9.34
31 FRNRS	0.58	0.20	0.60	0.62	0.62	0.83	0.92	0.88	0.82	0.78	0.78
32											
33 FSEL8	213.3	258.5	299.7	353.3	400.1	442.6	490.1	547.4	612.3	680.7	758.7
34 FSEL8	104.0	114.0	122.0	132.0	142.2	153.3	164.1	176.9	195.3	213.9	232.1
35											
36 FRNED3M	0.59	10.72	9.04	9.42	9.47	9.12	8.72	8.42	8.22	8.12	8.02

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TABLE 10.00 FEDERAL GOVERNMENT RECEIPTS AND EXPENDITURES (CURRENT \$)

LINE	VAN LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GVRF3	1 RECEIPTS	429.8	467.1	491.1	550.4	615.9	679.1	741.5	815.0	890.1	965.2	1032.4
2													
3	TXCPFS	B PERSONAL INCOME TAX	192.1	209.0	225.0	254.9	285.1	315.4	346.7	377.9	410.7	444.7	474.4
4	TXCCFS	B CORPORATE PROFITS TAX	71.5	69.4	66.5	80.5	91.1	102.4	117.8	123.1	135.6	145.4	151.9
5	TXCBFS	B INDIRECT BUSINESS TAX	27.0	29.0	29.6	20.7	31.0	34.8	19.7	61.3	44.9	48.5	45.1
6	TXCBFCAS	B INDIR BUSINESS TAX, GASOLINE	3.1	3.2	3.4	3.4	3.4	3.4	3.3	3.3	3.2	3.2	3.2
7	TXCBFNGS	E ENERGY MILL RECEIPTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	TXCBF-GES	INDIR BUSINESS TAX, OTHER	24.7	25.7	26.2	25.2	28.4	31.4	34.4	30.4	41.7	45.1	41.9
9	TXCSFIS	7 CONTRIB FOR SOCIAL INSURANCE	138.4	159.8	170.2	166.3	205.9	226.5	249.3	272.7	298.8	326.8	355.1
10	TXCSFIS3	B GASOLINE CONTRIBUTIONS	108.8	126.4	133.2	144.4	158.0	173.9	189.8	207.7	226.7	246.9	267.9
11	TXCSFT-33	8 TOTAL LESS GASOLINE	29.6	31.3	37.1	41.0	47.1	52.6	58.4	65.1	72.1	79.5	87.2
12													
13	GVRF3	1 EXPENDITURES	480.9	507.7	555.8	606.8	659.8	716.3	775.6	837.2	901.4	969.6	1041.9
14													
15	GVFPF3	1 PURCHASES OF GOODS AND SERVICES	153.3	167.8	180.9	197.7	215.3	233.6	252.7	272.5	293.0	314.8	337.5
16	GVFPF3	1 NATIONAL DEFENSE	94.7	106.5	115.3	125.4	135.8	146.6	157.8	169.3	181.1	193.5	206.4
17	GVFPF3	1 NONDEFENSE	53.7	61.3	65.6	72.4	79.5	87.0	94.9	103.2	111.9	121.3	131.1
18	TRGFPS	1 TRANSFER PAYMENTS	102.3	204.3	231.6	255.0	281.2	309.9	340.3	371.8	404.6	439.9	483.7
19	TRGFPS	1 TO PERSONS	9.2	9.8	11.7	11.8	12.1	13.1	14.1	14.5	14.6	15.1	15.9
20	TRGFPS	A SUPPL UNEMPL INSUR BENEFITS	4.6	4.1	4.0	4.3	4.7	5.0	5.4	5.8	6.2	6.6	7.0
21	TRGFPS	FOOD STAMP BENEFITS	26.2	29.3	32.6	36.2	39.9	43.9	48.0	52.4	57.0	61.8	66.9
22	TRGFPS	MILITARY RET & VET BENEFITS	26.0	31.1	37.8	43.0	48.8	55.2	62.1	69.7	77.8	86.8	96.4
23	TRGFPS	MEDICARE	91.8	104.5	119.6	130.9	144.3	158.6	173.6	189.4	205.9	223.4	241.7
24	TRGFPS	SOCIAL SECURITY BENEFITS	24.6	25.6	26.4	28.7	31.3	34.1	37.0	40.0	43.0	46.2	49.5
25	TRGFPS	OTHER TRANSFER PAYMENTS	3.3	4.1	4.5	4.7	4.9	5.1	5.3	5.5	5.8	6.0	6.2
26	TRGFPS	E TO FOREIGNERS (NET)	74.3	80.7	84.4	91.7	99.2	107.4	116.2	125.7	134.0	147.1	161.2
27	GVGIAL	E GRANTS-IN-AID TO STATE, LOC GOV	35.5	41.3	44.8	47.0	48.5	49.6	50.5	51.0	51.4	51.1	50.8
28	VINTGFS	E NET INTEREST PAID	9.9	9.5	9.5	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
29	GVSURF3	E SUBSIDIES LESS CURRENT SURPLUS	-31.0	-40.6	-64.5	-56.5	-41.9	-37.2	-34.1	-22.2	-11.2	-4.4	-11.4
30	GVSURF3	1 SURPLUS OR DEFICIT (-)											
31													
32	TXCPFS/VP3	EFFECTIVE TAX RATES (%)	11.27	11.11	10.96	11.26	11.45	11.58	11.70	11.70	11.71	11.74	11.74
33	TXCCFS/CPUNTS	PERSONAL INCOME TAX	35.30	32.69	29.74	30.30	30.72	30.74	30.76	30.78	30.80	30.81	30.82
34	TXCBFS/VNS	CORPORATE PROFITS TAX	1.63	1.55	1.47	1.28	1.28	1.28	1.28	1.28	1.28	1.27	1.10
35	TXCBFCAS/CENG	INDIR BUSINESS TAX, GASOLINE	6.12	5.74	5.39	5.00	4.66	4.35	4.08	3.85	3.64	3.45	3.28
36	TXCBF-GES/VNS	INDIR BUSINESS TAX, OTHER	1.45	1.38	1.30	1.13	1.15	1.16	1.17	1.18	1.18	1.19	1.02
37	TXCSFIS/MRCS	CONTRIBUTIONS FOR SOCIAL INSURANCE	10.65	11.14	10.94	10.88	10.98	11.06	11.15	11.24	11.34	11.43	11.52

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TABLE 31.00 STATE AND LOCAL RECEIPTS AND EXPENDITURES (CURRENT \$)

LINE	VAR LABEL	I	F	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GVRS3	1	RECEIPTS			327.2	352.9	380.4	418.4	460.3	506.4	555.1	608.4	662.3	719.3	784.7
2																
3	TXCP33	8	PERSONAL INCOME TAX			63.1	70.5	78.0	88.5	100.0	112.2	125.2	140.3	156.4	173.3	194.8
4	TXCC33	8	CORPORATE PROFITS TAX			12.2	13.5	14.6	17.9	21.3	24.3	26.9	31.9	36.8	41.2	44.5
5	TXC333	8	INDIRECT BUSINESS TAX			150.1	159.3	171.7	185.7	202.2	221.0	242.7	262.6	281.2	301.5	323.6
6	TXCRSSGAS	8	INDIRECT BUSINESS TAX, GASOLINE			6.6	7.1	7.4	7.9	8.0	8.1	8.1	8.1	8.2	8.3	8.4
7	TXCH33GAS	8	INDIRECT BUSINESS TAX, OTHER			143.4	152.1	164.1	177.9	194.2	213.7	234.6	254.5	273.0	293.2	315.3
8	TXC333S	8	CONTRIB FOR SOCIAL INSURANCE			25.6	28.9	31.6	34.5	37.5	40.8	44.2	47.9	51.9	56.2	60.6
9	CVGLAS	8	FEDERAL GRANTS-IN-AID			76.3	80.7	84.4	91.7	99.2	107.4	116.2	125.7	136.0	147.1	161.2
10																
11	GVES3	1	EXPENDITURES			300.1	330.0	357.2	393.5	434.1	478.0	529.7	576.6	630.0	687.9	751.1
12																
13	GVPS33	1	PURCHASES OF GOODS AND SERVICES			280.1	306.9	330.3	361.6	396.7	435.0	476.7	521.5	568.7	620.0	676.4
14	GVPS33EDS	1	EDUCATION			115.6	126.6	134.8	146.0	158.4	171.8	186.2	201.3	217.0	233.8	251.9
15	GVPS33HW-C3	1	HEALTH AND WELFARE			64.7	70.9	77.2	86.6	97.3	109.3	122.7	137.5	153.4	171.2	191.1
16	GVPS33HW-C3	1	SAFETY			22.0	24.2	25.9	28.6	31.7	35.2	38.9	42.9	47.3	52.0	57.2
17	GVPS33HW-C3	1	OTHER			77.7	85.2	92.4	100.4	109.2	118.7	129.0	139.8	151.0	163.1	176.2
18	TRGSP3	1	TRANSFER PAYMENTS			33.7	38.4	43.6	48.7	54.0	59.7	65.6	71.7	78.0	84.5	91.4
19	VINTG33	1	NET INTEREST PAID			-7.7	-9.3	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7
20	GVSUB33S	1	LESS: CURR SURP OF GOVT ENTER			-5.9	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0
21	GVSUB33PS	1	SURPLUS OR DEFICIT (-)			27.1	22.9	23.2	24.8	26.2	28.4	29.4	31.8	32.3	31.4	33.6
22																
23																
24																
25	TXCP33/YPS		PERSONAL INCOME TAX			3,701	3,755	3,800	3,911	4,021	4,121	4,222	4,334	4,446	4,557	4,678
26	TXCC33/CPUB33		CORPORATE PROFITS TAX			6,011	6,339	6,555	6,755	7,021	7,311	7,601	7,971	8,335	8,721	9,111
27	TXC333/YNS		INDIRECT BUSINESS TAX			8,821	9,541	10,111	10,811	11,541	12,311	13,121	13,971	14,861	15,791	16,761
28	TXCRSSGAS/CENO		INDIRECT BUSINESS TAX, GASOLINE			13,171	14,621	15,811	17,111	18,511	19,911	21,311	22,811	24,311	25,811	27,311
29	TXCH33-CAS3/YNS		INDIRECT BUSINESS TAX, OTHER			6,431	7,111	7,811	8,511	9,211	9,911	10,611	11,311	12,011	12,711	13,411
30	TXC333S/WRCS		CONTRIBUTIONS FOR SOCIAL INSURANCE			1,971	2,201	2,401	2,601	2,801	3,001	3,201	3,401	3,601	3,801	4,001

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TABLE 37.00 PERSONAL AND INDIRECT TAX RATES

LINE	VAR LABEL	I	T	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1																
2																
3	TIRPIES	I				4.071	4.14	4.23	4.36	4.48	4.60	4.72	4.85	4.98	5.11	5.34
4	TIRPIES	I				2.121	2.19	2.21	2.19	2.16	2.16	2.16	2.15	2.15	2.14	2.14
5	TIRPIES	I				6.011	6.39	6.55	6.75	7.02	7.31	7.60	7.97	8.35	8.72	8.91
6	TIRPIES	I				8.621	8.54	8.53	8.31	8.17	8.18	8.24	8.13	7.98	7.91	7.90
7																
8																
9																
10	TIRPIEF	I				12.941	12.60	12.75	13.12	13.35	13.54	13.71	13.73	13.76	13.81	13.86
11																
12	TIRPIFY1	E				14.001	11.39	11.16	11.16	11.16	11.14	11.16	11.16	11.16	11.16	11.16
13	TIRPIFY2	E				15.001	11.24	11.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96
14	TIRPIFY3	E				16.001	15.66	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35
15	TIRPIFY4	E				17.001	16.28	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
16	TIRPIFY5	E				19.001	16.11	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74
17	TIRPIFY6	E				22.001	20.03	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42
18	TIRPIFY7	E				25.001	23.00	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33
19	TIRPIFY8	E				28.001	27.46	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92
20	TIRPIFY9	E				32.001	31.13	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
21																
22																
23																
24	TIRPIFY1	B				0.042610	0.0319	0.0291	0.0262	0.0277	0.0273	0.0264	0.0236	0.0209	0.0184	0.0163
25	TIRPIFY2	B				0.045710	0.0350	0.0321	0.0309	0.0302	0.0297	0.0286	0.0256	0.0227	0.0200	0.0177
26	TIRPIFY3	B				0.046210	0.0313	0.0455	0.0430	0.0411	0.0396	0.0375	0.0329	0.0284	0.0242	0.0204
27	TIRPIFY4	B				0.058410	0.0554	0.0522	0.0495	0.0476	0.0462	0.0442	0.0395	0.0349	0.0305	0.0267
28	TIRPIFY5	B				0.100710	0.0822	0.0771	0.0694	0.0692	0.0705	0.0703	0.0633	0.0563	0.0495	0.0431
29	TIRPIFY6	B				0.205610	0.2245	0.2206	0.2201	0.2261	0.2256	0.2270	0.2318	0.2361	0.2399	0.2430
30	TIRPIFY7	B				0.120610	0.1467	0.1347	0.1583	0.1585	0.1560	0.1557	0.1668	0.1774	0.1883	0.1976
31	TIRPIFY8	B				0.160210	0.1730	0.1807	0.1926	0.1991	0.2092	0.2104	0.2166	0.2228	0.2291	0.2343
32																
33																
34																
35																
36	TIRPIFY9	B				90.521	93.13	95.89	98.15	100.18	101.93	103.51	105.34	107.26	109.14	110.76
37	TIRPIFY9	B				230.661	232.56	234.73	236.99	239.06	240.87	242.53	244.54	246.69	248.74	250.60
38	TIRPIFY9	E				0.7501	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
39	TIRPIFY9	E				58.221	59.08	59.87	60.29	60.32	59.97	59.41	58.11	56.02	54.04	52.20
40	TIRPIFY9	E				32.301	34.05	34.92	37.86	39.05	41.96	46.22	48.24	50.24	52.56	55.00
41	TIRPIFY9	E				2.5301	2.609	2.670	3.047	3.224	3.403	3.578	3.750	3.922	4.094	4.266
42	TIRPIFY9	E				6.2401	6.127	6.298	6.904	7.643	8.423	9.198	10.065	10.947	11.822	12.671
43	TIRPIFY9	E				147.31	158.9	171.8	183.7	194.5	204.2	212.6	221.7	231.5	240.9	248.3
44	TIRPIFY9	E				203.11	208.6	223.6	261.4	305.4	353.4	405.6	465.2	528.1	594.6	666.0
45	TIRPIFY9	E				350.41	367.5	395.4	445.1	499.0	557.6	618.1	686.9	759.5	835.4	914.3
46	TIRPIFY9	E				9.68110	6.344	6.244	6.143	6.022	5.883	5.740	5.562	5.392	5.255	5.125

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 37.00 PERSONAL AND INDIRECT TAX RATES

LINE	VAR LABEL	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	YPTAXIS	1024.611103.6	1212.1	1380.9	1495.9	1643.1	1793.2	1962.0	2134.0	2309.1	2482.9			
2	YPRATEF	1.631	1.55	1.47	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.28	1.27	1.10
3	INDIRECT TAXES													
4	SOCIAL INSURANCE													
5														
6														
7	YPRSTEF	11.491	12.08	11.89	11.82	11.93	12.03	12.13	12.24	12.35	12.45	12.56		
8	YPRSTHF	12.101	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	
9	YPRSTND	0.901	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	
10	YPRSTWYS	17.701	22.90	22.90	22.90	24.50	26.22	28.05	30.02	32.12	34.37	36.77		
11														
12	YPRSTPS/THCSTIS	42.341	40.91	38.50	36.50	36.50	36.50	36.50	36.50	36.50	36.50	36.50	36.50	
13	RAWLSS	85.351	89.00	89.90	88.48	88.48	88.43	88.46	88.49	88.58	88.71	88.87		
14	RAWLSC	92.001	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	
15														
16	RATXCSFT-S	2.001	2.03	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45	2.50		

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TABLE 45.10 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	CCACPS	-18.12	-21.43	-24.11	-25.11	-26.11	-27.11	-28.11	-29.11	-30.11	-31.11	-32.11
2	CCAAVENTB3	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
3	CCAAVENTF3	-5.23	-5.74	-6.56	-7.36	-8.16	-8.96	-9.76	-10.56	-11.36	-12.16	-12.96
4	CCAAVENTB3	-20.94	-23.08	-25.08	-27.08	-29.08	-31.08	-33.08	-35.08	-37.08	-39.08	-41.08
5	CCARNTAG	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
6	CCARNTCO	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
7	CCARNTMFD24	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
8	CCARNTMFD25	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
9	CCARNTMFD32	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
10	CCARNTMFD33	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
11	CCARNTMFD34	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
12	CCARNTMFD35	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
13	CCARNTMFD36	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
14	CCARNTMFD37SP2	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
15	CCARNTMFD371	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
16	CCARNTMFD38	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
17	CCARNTMFD20	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
18	CCARNTMFD21	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
19	CCARNTMFD22	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
20	CCARNTMFD23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21	CCARNTMFD26	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
22	CCARNTMFD27	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
23	CCARNTMFD28	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
24	CCARNTMFD29	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
25	CCARNTMFD30	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
26	CCARNTMFD31	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
27	CCARNTMFD32	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
28	CCARNTMFD33	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
29	CCARNTMFD34	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
30	CCARNTMFD35	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
31	CCARNTMFD36	4.500	4.500	4.500	4.500	4.500	4.500	4.500	4.500	4.500	4.500	4.500
32	CCARNTMFD37	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061
33	CCARNTMFD38	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863
34	CCARNTMFD39	23.18	25.85	28.96	29.06	29.16	29.26	29.36	29.46	29.56	29.66	29.76
35	CCARNTMFD40	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
36	CCARNTMFD41	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
37	CCARNTMFD42	15.60	15.90	16.10	16.30	16.50	16.70	16.90	17.10	17.30	17.50	17.70
38	CCARNTMFD43	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	CCARNTMFD44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40	CCARNTMFD45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	CCARNTMFD46	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
42	CCARNTMFD47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	CCARNTMFD48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	CCARNTMFD49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	CCARNTMFD50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
46	CCARNTMFD51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	CCARNTMFD52	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	CCARNTMFD53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	CCARNTMFD54	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50	CCARNTMFD55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	CCARNTMFD56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 PUST-MEETING CONTROL SOLUTION - DECEMBER 4, 1978

TABLE 45.10 EXOGENOUS ASSUMPTIONS

LINE	VAN LABEL	1970	1971	1972	1973	1974	1975	1976	1977	1978
1	DUMPMFN22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	DUMPMFN26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	DUMSIL3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	DUMSTPMFD25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	DUMSTPMFD13P2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	DUMSTPMFN26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	DUMSTPMFN30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	DUMSTPMG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	DUMSTIME46	78.00	79.00	80.00	81.00	82.00	83.00	84.00	85.00	86.00
10	DUMTRIPO	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
11	DUMTXCBAUTU	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12	DUMTXC65	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
13	DUMTXCP65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	DUMTXCP69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	DUMTXCP72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	DUMTXCP73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	DUMTXPF47.71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	DUMTXPF68.69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	DUMTXPF70.71	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77
20	DUMTXPF71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	DUMTXPF71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	DUMTXPF71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	DUMTXPF71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	DUMTXPF71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	FREF34	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734	-0.734
26	FRAPE	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
27	FRAPE	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
28	FRAPE	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43
29	FRAPE	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50
30	FRAPE	0.0466	0.0466	0.0466	0.0466	0.0466	0.0466	0.0466	0.0466	0.0466
31	GVG13	76.30	76.30	76.30	76.30	76.30	76.30	76.30	76.30	76.30
32	GVG13	16.281	16.281	16.281	16.281	16.281	16.281	16.281	16.281	16.281
33	GVG13	65.05	65.05	65.05	65.05	65.05	65.05	65.05	65.05	65.05
34	GVG13	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04	35.04
35	GVG13	13.601	13.601	13.601	13.601	13.601	13.601	13.601	13.601	13.601
36	GVG13	72.15	72.15	72.15	72.15	72.15	72.15	72.15	72.15	72.15
37	GVG13	40.42	40.42	40.42	40.42	40.42	40.42	40.42	40.42	40.42
38	GVG13	13.76	13.76	13.76	13.76	13.76	13.76	13.76	13.76	13.76
39	GVG13	48.51	48.51	48.51	48.51	48.51	48.51	48.51	48.51	48.51
40	GVG13	9.87	9.87	9.87	9.87	9.87	9.87	9.87	9.87	9.87
41	GVG13	-5.92	-5.92	-5.92	-5.92	-5.92	-5.92	-5.92	-5.92	-5.92
42	GVG13	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214	1.214
43	GVG13	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
44	GVG13	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
45	GVG13	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
46	GVG13	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
47	GVG13	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
48	GVG13	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
49	GVG13	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
50	GVG13	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
51	GVG13	5.920	5.920	5.920	5.920	5.920	5.920	5.920	5.920	5.920

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TABLE 45.10 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	LTACH	5.29	5.29	6.87	6.87	6.87	6.87	6.87	6.87	6.87	6.87	6.87
2	LTAMFD24	8.46	8.46	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99
3	LTAMFD25	6.55	6.55	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52
4	LTAMFD32	8.14	8.14	10.58	10.58	10.58	10.58	10.58	10.58	10.58	10.58	10.58
5	LTAMFD33	8.56	8.56	11.12	11.12	11.12	11.12	11.12	11.12	11.12	11.12	11.12
6	LTAMFD34	7.88	7.88	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25
7	LTAMFD35	6.31	6.31	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20
8	LTAMFD36	7.93	7.93	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31
9	LTAMFD37SP2	7.31	7.31	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50
10	LTAMFD37I	8.97	8.97	11.66	11.66	11.66	11.66	11.66	11.66	11.66	11.66	11.66
11	LTAMFD38	7.57	7.57	9.84	9.84	9.84	9.84	9.84	9.84	9.84	9.84	9.84
12	LTAMFN20	7.74	7.74	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07
13	LTAMFN21	8.81	8.81	10.93	10.93	10.93	10.93	10.93	10.93	10.93	10.93	10.93
14	LTAMFN22	8.30	8.30	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89
15	LTAMFN23	7.02	7.02	9.12	9.12	9.12	9.12	9.12	9.12	9.12	9.12	9.12
16	LTAMFN26	9.10	9.10	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83
17	LTAMFN27	7.89	7.89	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26
18	LTAMFN28	8.69	8.69	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29
19	LTAMFN29	6.31	6.31	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20
20	LTAMFN30	8.16	8.16	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61
21	LTAMFN31	5.18	5.18	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74
22	LTAMG	6.19	6.19	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05
23	LTAMG40	5.02	5.02	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53
24	LTAMGT	6.30	6.30	8.19	8.19	8.19	8.19	8.19	8.19	8.19	8.19	8.19
25	LTAMG49	5.58	5.58	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25
26	LTATG	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05
27	LTATM	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17
28	LTAMFD24	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61
29	LTAMFD25	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81	10.81
30	LTAMFD32	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26
31	LTAMFD33	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60
32	LTAMFD34	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40
33	LTAMFD35	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86
34	LTAMFD36	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30
35	LTAMFD37SP2	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46
36	LTAMFD37I	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64
37	LTAMFD38	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60
38	LTAMFN20	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04
39	LTAMFN21	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97
40	LTAMFN22	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37
41	LTAMFN23	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29
42	LTAMFN26	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73
43	LTAMFN27	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50
44	LTAMFN28	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37
45	LTAMFN29	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63
46	LTAMFN30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30
47	LTAMFN31	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44
48	LTAMG	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17
49	LTAMG40	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75
50	LTAMGT	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11
51	LTAMG49	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90

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TABLE 45.10 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1970	1971	1972	1973	1974	1975	1976	1977	1978
1	MPGC	11,290	12,010	12,900	14,160	15,420	16,685	17,319	17,682	18,038
2	MPGN	20,950	22,220	23,780	25,920	28,045	30,149	31,114	31,518	31,993
3	MHR	0.150	0.350	0.150	0.150	0.150	0.150	0.150	0.150	0.150
4	NCF	58,24	59,27	60,26	61,27	62,31	63,32	64,29	65,20	66,10
5	NCH	75,94	77,50	79,06	80,65	82,24	83,82	85,36	86,86	88,31
6	NCU	21,57	22,12	22,68	23,24	23,78	24,32	24,86	25,40	25,90
7	NEHNS	6270,66	6435,00	6697,49	6917,00	7027,00	7137,00	7247,00	7357,00	7467,00
8	NEHNSIF	470,17	470,00	470,00	470,00	470,00	470,00	470,00	470,00	470,00
9	NEHNS-ET	-1300,51	-1500,28	-1500,44	-1476,00	-1452,00	-1428,00	-1404,00	-1380,00	-1356,00
10	NLM	2,12	2,09	2,07	2,07	2,07	2,07	2,07	2,07	2,07
11	NLMINDT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	NPMR	1836,89991853	1870,00001870	1900,00001900	1930,00001930	1960,00001960	1990,00001990	2020,00002020	2050,00002050	2080,00002080
13	NPMR15,19	55,2000	55,4000	55,6000	55,8000	56,0000	56,2000	56,4000	56,6000	56,8000
14	NPMR20,24	110,3000	121,3000	124,2000	128,2000	131,2000	133,5000	135,0000	137,4000	139,2400
15	NPMF16,17	4,13	4,06	3,99	3,92	3,85	3,78	3,71	3,64	3,57
16	NPMF18,19	4,21	4,23	4,22	4,15	4,09	3,97	3,79	3,63	3,52
17	NPMF20,24	10,16	10,30	10,39	10,49	10,47	10,42	10,34	10,18	9,89
18	NPMF25,29	9,06	9,25	9,49	9,69	9,92	10,10	10,24	10,33	10,42
19	NPMF30,34	8,01	8,35	8,69	9,14	9,11	9,27	9,47	9,70	9,91
20	NPMF35,39	6,67	6,94	7,17	7,29	7,06	6,72	6,99	7,22	7,34
21	NPMF40,44	5,80	5,90	6,00	6,14	6,36	6,57	6,99	7,22	7,34
22	NPMF45,49	5,82	5,74	5,65	5,94	5,64	5,73	5,83	5,92	6,07
23	NPMF50,54	6,13	6,06	6,02	5,95	5,86	5,79	5,71	5,62	5,61
24	NPMF55,59	5,67	5,93	5,94	5,32	5,90	5,86	5,62	5,63	5,63
25	NPMF60,64	5,01	5,09	5,21	5,32	5,46	5,56	5,62	5,63	5,59
26	NPMF65,69	4,77	4,82	4,84	4,88	4,90	4,94	5,02	5,14	5,25
27	NPMF70,74	3,67	3,80	3,94	4,03	4,10	4,16	4,22	4,26	4,28
28	NPMF75,79	3,80	3,94	4,08	4,24	4,40	4,58	4,77	4,98	5,15
29	NPMF80,84	4,29	4,42	4,56	4,74	4,94	5,16	5,40	5,66	5,94
30	NPMF85,89	4,30	4,43	4,57	4,74	4,94	5,16	5,40	5,66	5,94
31	NPMF90,94	10,29	10,43	10,51	10,61	10,60	10,54	10,47	10,31	10,26
32	NPMF95,99	9,18	9,18	9,43	9,62	9,83	10,02	10,15	10,24	10,33
33	NPMF100,104	7,88	8,21	8,55	8,99	9,13	9,13	9,33	9,57	9,77
34	NPMF105,109	6,39	6,45	6,87	7,00	7,37	7,81	8,14	8,49	8,89
35	NPMF110,114	5,52	5,61	5,69	5,84	6,05	6,41	6,67	6,89	7,02
36	NPMF115,119	5,54	5,47	5,38	5,36	5,38	5,41	5,52	5,60	5,75
37	NPMF120,124	5,70	5,66	5,64	5,60	5,54	5,47	5,39	5,31	5,29
38	NPMF125,129	5,37	5,43	5,45	5,46	5,42	5,40	5,37	5,35	5,31
39	NPMF130,134	4,81	4,88	4,88	4,88	4,82	4,91	4,97	4,99	4,96
40	NPMF135,139	3,79	3,84	3,87	3,90	3,92	3,95	4,01	4,11	4,21
41	NPMF140,144	2,68	2,76	2,86	2,91	2,97	3,01	3,06	3,08	3,11
42	NPMF145,149	3,28	3,34	3,41	3,48	3,56	3,65	3,74	3,85	3,93
43	NPMF150,154	19,40	19,40	14,20	14,10	14,00	13,90	13,80	13,70	13,60
44	NPMF155,159	15,16	15,68	16,09	16,69	17,33	17,95	18,48	19,08	19,65
45	NPMF160,164	16,89	16,49	16,10	15,57	15,42	15,54	15,86	16,26	16,66
46	NPMF165,169	18,50	18,06	17,60	17,02	17,64	17,36	16,96	16,56	16,03
47	NPMF170,174	4,14	4,08	3,91	3,69	3,59	3,51	3,56	3,64	3,72
48	NPMF175,179	132,25	119,19	106,15	157,83	168,76	180,53	192,14	203,96	215,77
49	NPMF180,184	179,35	201,11	221,79	234,75	247,88	260,86	273,83	286,98	300,13
50	NPMF185,189	180,76	148,93	152,50	156,16	159,91	163,75	167,68	171,70	175,82
51	NPMF190,194	148,95	155,10	159,29	163,59	168,01	172,54	177,20	181,98	186,90

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TABLE 45.10 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	PTIMM	225.67	242.50	259.32	276.25	297.30	316.30	336.58	358.22	380.61	404.10	429.31
2	PTIMRSDM	140.40	151.86	160.34	165.94	171.73	175.77	179.90	184.12	188.45	192.88	197.41
3	PTIMEGICM	393.04	418.96	445.19	477.71	511.01	542.90	578.96	615.60	651.99	688.50	727.02
4	PTIMEGIFC	290.13	293.36	309.54	338.96	360.87	387.95	415.26	442.66	471.04	499.29	528.96
5	PTIMEGIFM	148.10	155.50	165.80	179.51	193.24	206.88	220.56	235.26	249.96	264.66	280.00
6	PTIMEGIFM	196.23	215.12	229.83	248.03	250.26	273.11	288.33	304.81	321.17	338.25	356.23
7	PTIMEGIFM	270.70	301.60	338.70	372.57	402.30	426.52	449.98	474.27	499.41	525.18	552.17
8	PURGIF	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
9	PURGIF	0.60	0.60	9.00	9.18	9.35	9.53	9.71	9.91	10.11	10.31	10.51
10	PUTMGT310T	8.99	9.53	10.05	10.60	11.19	11.80	12.45	13.13	13.86	14.62	15.42
11	PUTMGT32V	53.45	56.39	59.50	62.77	66.22	69.87	73.71	77.76	82.04	86.55	91.31
12	PUTMGT331	14.55	15.71	16.65	17.73	18.80	19.83	20.82	21.86	22.96	24.10	25.31
13	PUTMGT332H	10.60	11.24	11.85	12.47	13.12	13.81	14.54	15.30	16.11	16.96	17.85
14	PUTMGT314	277.10	306.20	330.70	354.30	377.90	401.50	425.10	448.70	472.30	495.90	520.69
15	PXVGNTIVA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	RACEDAVN	0.6034	0.6370	0.6332	0.6204	0.6104	0.6164	0.6144	0.6124	0.6104	0.6084	0.6064
17	RACENGAUTO	0.3285	0.3361	0.3442	0.3462	0.3462	0.3502	0.3522	0.3542	0.3562	0.3582	0.3602
18	RATMCSFT-S	2.000	2.050	2.100	2.150	2.200	2.250	2.300	2.350	2.400	2.450	2.500
19	RAWLSC	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000
20	RAWPST	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400
21	REXCA	87.75	86.63	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
22	REXFR	22.14	21.25	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00
23	REXGE	49.84	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00
24	REXIT	0.1175	0.1152	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135
25	REXJA	0.4809	0.5050	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100
26	REXME	4.392	4.100	4.000	3.990	3.990	3.990	3.990	3.990	3.990	3.990	3.990
27	REXIM	191.34	187.00	189.00	185.54	185.54	185.54	186.09	186.09	186.09	186.09	186.09
28	SDS	2.17	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00

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TABLE 45.20 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	TEBAS	-1.16	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2	TEBES	-0.57	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
3	TEDES	8.20	9.02	9.93	10.20	10.50	10.80	11.10	11.40	11.70	12.00	12.30
4	TEBSIFRS	0.70	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
5	TEBSOTIS	0.97	10.60	11.40	12.82	14.40	16.17	18.16	20.34	22.41	24.46	26.70
6	TECDPL4808	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
7	TECGD3	1.49	1.45	1.28	1.29	1.29	1.39	1.49	1.59	1.69	1.79	1.89
8	TEUGT2203	5.00	6.62	7.13	7.52	7.92	8.32	8.72	9.12	9.52	9.92	10.32
9	TEUGT13	14.04	17.22	19.12	20.92	22.68	24.61	26.74	29.07	31.40	33.73	36.06
10	TEBTS	-5.25	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10
11	TEBWS	116.18	143.26	149.71	158.69	167.90	177.64	187.94	198.84	210.37	222.57	235.48
12	TEBAS	-0.83	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90
13	TEBAS	-3.39	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85
14	TEBDES	6.37	7.16	7.88	7.88	7.88	7.88	7.88	7.88	7.88	7.88	7.88
15	TEBSIFRS	2.17	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
16	TEBSOTIS	4.66	5.23	5.83	6.40	6.97	7.60	8.28	8.93	9.64	10.73	11.69
17	TEBGS10T	302.00	314.00	325.00	331.50	338.13	344.89	351.79	358.82	366.00	373.32	380.79
18	TEBGS132	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70
19	TEBGS131	2204.10	2455.00	2660.00	2899.41	3131.91	3350.64	3568.46	3768.32	3968.06	4166.48	4366.49
20	TEBGS1324	511.00	531.00	550.00	580.24	609.95	639.62	669.84	699.63	729.83	759.82	789.81
21	TEBGS134	1000.00	1050.00	1400.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
22	TEBGS133/CEDAS	0.1179	0.1235	0.1235	0.1235	0.1235	0.1235	0.1235	0.1235	0.1235	0.1235	0.1235
23	TEBGS133/CEDAS	0.1205	0.1191	0.1169	0.1169	0.1149	0.1129	0.1109	0.1089	0.1069	0.1049	0.1029
24	TEBAS	10.69	11.84	13.01	13.81	14.61	15.41	16.21	17.01	17.81	18.61	19.41
25	TEBGS	3.25	4.07	4.53	4.75	4.95	5.15	5.35	5.55	5.75	5.95	6.15
26	TEBGS	2.42	2.30	2.13	2.16	2.22	2.26	2.30	2.34	2.39	2.43	2.48
27	TEBGS	17.40	18.20	19.00	19.80	20.49	21.21	21.95	22.72	23.52	24.34	25.19
28	TEBGS	16.15	15.93	15.19	15.69	16.08	16.49	16.90	17.32	17.75	18.20	18.65
29	TEBGS	16.54	18.37	20.60	21.83	22.92	24.07	25.27	26.53	27.86	29.25	30.71
30	TEBGS	61.03	64.93	69.79	71.54	74.04	76.63	79.31	82.09	84.96	87.94	91.01
31	TEBGS	22.19	21.87	25.46	26.59	27.72	28.85	29.98	31.08	32.18	33.28	34.41
32	TEBGS	1.07	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
33	TEBGS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	TEBGS	42.14	40.91	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
35	TEBGS	2.51	2.69	2.87	3.05	3.22	3.40	3.58	3.75	3.92	4.09	4.27
36	TEBGS	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	TEBGS	17.70	22.90	22.90	22.90	24.50	26.22	28.05	30.02	32.12	34.37	36.77
38	TEBGS	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030
39	TEBGS	13.20	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
40	TEBGS	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00
41	TEBGS	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
42	TEBGS	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
43	TEBGS	14.58	13.14	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98	10.98
44	TEBGS	24.33	23.32	21.80	21.80	21.80	21.80	21.80	21.80	21.80	21.80	21.80
45	TEBGS	31.48	29.71	29.71	29.71	29.71	29.71	29.71	29.71	29.71	29.71	29.71
46	TEBGS	31.94	30.61	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62
47	TEBGS	39.92	38.25	35.76	35.76	35.76	35.76	35.76	35.76	35.76	35.76	35.76
48	TEBGS	39.12	37.49	35.05	35.05	35.05	35.05	35.05	35.05	35.05	35.05	35.05
49	TEBGS	40.18	38.50	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
50	TEBGS	40.60	38.90	36.37	36.37	36.37	36.37	36.37	36.37	36.37	36.37	36.37
51	TEBGS	41.01	41.24	38.55	38.55	38.55	38.55	38.55	38.55	38.55	38.55	38.55

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 45.20 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	TXRTEFMD36	40.95	39.24	36.69	36.69	36.69	36.69	36.69	36.69	36.69	36.69	36.69
2	TXRTEFMD37	39.47	37.02	35.36	35.36	35.36	35.36	35.36	35.36	35.36	35.36	35.36
3	TXRTEFMD38	41.30	41.57	38.07	38.07	38.07	38.07	38.07	38.07	38.07	38.07	38.07
4	TXRTEFMD39	41.04	41.24	38.56	38.56	38.56	38.56	38.56	38.56	38.56	38.56	38.56
5	TXRTEFMD40	42.77	40.99	38.12	38.12	38.12	38.12	38.12	38.12	38.12	38.12	38.12
6	TXRTEFMD41	43.67	41.05	39.12	39.12	39.12	39.12	39.12	39.12	39.12	39.12	39.12
7	TXRTEFMD42	42.28	40.52	37.88	37.88	37.88	37.88	37.88	37.88	37.88	37.88	37.88
8	TXRTEFMD43	38.04	36.46	34.08	34.08	34.08	34.08	34.08	34.08	34.08	34.08	34.08
9	TXRTEFMD44	41.33	39.61	37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03	37.03
10	TXRTEFMD45	40.26	38.50	36.07	36.07	36.07	36.07	36.07	36.07	36.07	36.07	36.07
11	TXRTEFMD46	43.64	41.04	39.11	39.11	39.11	39.11	39.11	39.11	39.11	39.11	39.11
12	TXRTEFMD47	33.31	31.92	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85	29.85
13	TXRTEFMD48	40.01	39.11	36.57	36.57	36.57	36.57	36.57	36.57	36.57	36.57	36.57
14	TXRTEFMD49	39.93	38.27	35.78	35.78	35.78	35.78	35.78	35.78	35.78	35.78	35.78
15	TXRTEFMD50	44.43	42.58	39.01	39.01	39.01	39.01	39.01	39.01	39.01	39.01	39.01
16	TXRTEFMD51	44.39	42.54	39.77	39.77	39.77	39.77	39.77	39.77	39.77	39.77	39.77
17	TXRTEFMD52	34.94	33.48	31.30	31.30	31.30	31.30	31.30	31.30	31.30	31.30	31.30
18	TXRTEFMD53	43.61	41.79	39.07	39.07	39.07	39.07	39.07	39.07	39.07	39.07	39.07
19	TXRTEFMD54	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98	26.98
20	TXRTEFMD55	46.50	46.50	46.50	46.50	46.50	46.50	46.50	46.50	46.50	46.50	46.50
21	TXRTEFMD56	5.08	5.16	5.26	5.41	5.56	5.71	5.86	6.01	6.16	6.31	6.46
22	TXRTEFMD57	14.00	11.19	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16
23	TXRTEFMD58	15.00	14.24	13.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96
24	TXRTEFMD59	16.00	15.66	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35
25	TXRTEFMD60	17.00	16.28	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
26	TXRTEFMD61	19.00	18.11	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74
27	TXRTEFMD62	22.00	20.63	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42
28	TXRTEFMD63	25.00	23.80	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33
29	TXRTEFMD64	28.00	27.46	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92
30	TXRTEFMD65	32.00	31.13	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
31	TXRTEFMD66	12.10	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26
32	TXRTEFMD67	0.05	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33	TXRTEFMD68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	TXRTEFMD69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35	TXRTEFMD70	20.34	20.14	30.65	32.65	34.65	36.65	38.65	40.65	42.65	44.65	47.11
36	TXRTEFMD71	33.68	30.34	42.28	45.28	48.28	51.28	54.28	57.28	60.28	63.28	66.28
37	TXRTEFMD72	35.50	41.34	44.79	46.96	48.46	49.56	50.46	50.96	51.36	51.06	50.76
38	TXRTEFMD73	4.47	7.25	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77	5.77
39	TXRTEFMD74	17.75	-5.28	-10.68	-10.68	-10.68	-10.68	-10.68	-10.68	-10.68	-10.68	-10.68
40	TXRTEFMD75	121.09	126.41	132.72	137.90	143.28	148.66	154.07	159.45	164.97	170.48	176.04
41	TXRTEFMD76	167.38	181.35	195.87	200.01	220.91	230.61	249.15	264.60	281.00	298.42	316.93
42	TXRTEFMD77	112.21	117.93	125.12	130.12	135.33	140.74	146.37	152.23	158.32	164.65	171.23
43	TXRTEFMD78	178.95	191.34	215.22	228.11	241.02	250.33	271.71	288.01	305.29	323.61	343.02
44	TXRTEFMD79	111.64	117.39	122.68	128.01	135.25	142.01	149.11	156.57	164.40	172.62	181.25
45	TXRTEFMD80	135.45	139.16	143.62	152.38	161.67	171.53	182.00	193.10	204.08	217.37	230.63
46	TXRTEFMD81	118.17	122.00	128.07	134.47	141.19	148.25	155.67	163.45	171.62	180.20	189.21
47	TXRTEFMD82	216.16	262.56	290.36	307.78	326.25	345.03	366.57	388.57	411.88	436.60	462.79
48	TXRTEFMD83	120.65	127.69	135.55	143.69	152.31	161.45	171.13	181.40	192.29	203.83	216.06
49	TXRTEFMD84	190.76	197.13	205.33	214.57	224.22	234.31	244.86	255.88	267.39	279.42	291.99
50	TXRTEFMD85	143.79	151.99	162.46	168.77	177.02	185.40	193.74	202.46	211.57	221.09	231.04
51	TXRTEFMD86	274.08	320.49	365.40	418.46	491.07	526.43	564.33	604.96	648.52	695.21	745.27
52	TXRTEFMD87	251.04	268.92	279.68	300.65	323.20	347.44	373.50	401.51	431.62	463.99	498.79
53	TXRTEFMD88	105.98	110.49	114.94	119.60	129.18	130.96	136.33	141.91	147.49	153.07	158.75
54	TXRTEFMD89	230.34	250.55	274.09	295.17	314.65	335.41	357.55	381.15	406.30	433.12	461.70

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
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TABLE 45.30 CONSTANT ADJUSTMENTS

LINE	VAN LABEL	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	CCATAGS	0.07	-0.02	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	CCATCNS	-0.76	-0.97	-0.66	-0.66	-0.66	-0.66	-0.66	-0.66	-0.66	-0.66	-0.66
3	CCATMFD203	-0.02	-0.04	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
4	CCATMFD253	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
5	CCATMFD123	0.00	-0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
6	CCATMFD133	0.11	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
7	CCATMFD308	-0.00	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
8	CCATMFD358	0.00	-0.03	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
9	CCATMFD368	-0.07	-0.13	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
10	CCATMFD37SP23	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
11	CCATMFD3713	-0.11	-0.18	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
12	CCATMFD308	0.00	-0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
13	CCATMFD208	0.00	-0.01	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
14	CCATMFD218	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
15	CCATMFD228	-0.01	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
16	CCATMFD238	0.00	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
17	CCATMFD268	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
18	CCATMFD278	-0.01	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
19	CCATMFD288	0.10	0.14	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
20	CCATMFD298	-0.03	0.05	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
21	CCATMFD308	-0.03	-0.05	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
22	CCATMFD318	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	CCATMGS	0.00	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
24	CCATMGC883	0.11	0.31	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
25	CCATMGT3	0.02	0.21	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46
26	CCATMGR883	0.03	-0.01	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
27	CCDAP	-0.34	-0.34	-0.20	-0.01	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17	-0.17
28	CCDAVN	0.49	-0.01	-0.11	-0.50	-0.59	-0.73	-1.50	-2.00	-2.50	-3.00	-3.50
29	CCDAVR, Y	0.62	0.00	0.00	0.43	0.50	0.73	0.88	1.03	1.18	1.33	1.48
30	CCDAVII	3.70	5.53	5.87	5.36	4.89	4.40	3.91	2.52	1.13	-0.26	-1.65
31	CCDEF	0.82	1.59	1.75	1.87	1.19	0.91	0.63	0.35	0.07	-0.21	-0.49
32	CCEDN	-0.32	1.05	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
33	CCENC	2.76	1.59	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13
34	CCENF	0.27	0.59	0.68	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
35	CCENG	-1.39	0.30	1.68	1.98	2.28	2.58	2.88	3.18	3.48	3.78	4.08
36	CCEND, H	0.10	-2.14	-1.54	-3.04	-1.54	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
37	CCESH	2.24	1.59	1.33	2.24	3.49	4.79	6.24	7.84	9.59	11.49	13.54
38	CCESN	3.44	3.45	2.91	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
39	CCESS	2.76	3.42	3.38	3.62	3.87	4.12	4.37	4.62	4.87	5.12	5.37
40	CCST	1.64	1.89	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03
41	CCFUS	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77	-0.77
42	CCFBNPS	61.91	70.10	83.02	102.62	120.52	139.62	158.64	177.16	195.12	213.03	230.93
43	CCFBNPS	-0.901	-2.389	-2.769	-3.146	-3.523	-3.900	-4.277	-4.654	-5.031	-5.408	-5.785
44	CCFBNPS	0.766	-0.328	-1.219	-0.498	0.147	0.792	1.437	2.082	2.727	3.372	4.017
45	CCFBNPS	0.076	0.109	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106
46	CCFBNPS	-0.577	-0.622	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612
47	CCFBNPS	-0.023	-0.084	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040	-0.040
48	CCFBNPS	0.874	1.070	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099	1.099
49	CCFBNPS	46.35	38.40	25.87	25.85	25.86	25.88	25.88	25.88	25.88	25.88	25.88
50	CCFBNPS	-0.91	-0.22	-0.21	-0.22	-0.23	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
51	CCFBNPS	-0.91	-0.22	-0.21	-0.22	-0.23	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24

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TABLE 45.30 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1970	1971	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	HMTV	0.46	0.74	0.15	-0.00	-1.35	-1.10	-0.85	-0.60	-0.35	-0.10	0.15
2	HSPRHH	-119.14	-242.39	-179.04	-120.98	-78.96	-28.92	21.06	71.05	121.02	171.03	221.07
3	HSPRSM	-480.25	-470.58	-586.84	-940.52	-1180.36	-1347.23	-1510.49	-1650.14	-1678.52	-1694.15	-1739.41
4	HSPR31	274.24	826.08	656.29	382.66	137.57	180.27	-10.01	96.90	190.32	220.55	137.17
5	IACG	-8.026	-2.665	-2.819	-1.236	0.307	1.669	2.217	1.462	0.310	-1.309	-2.975
6	IACH	-2.014	-2.052	-1.451	-1.270	-0.271	-1.271	-0.739	-1.271	-1.271	-1.271	-1.271
7	IAMD28	-0.774	-0.730	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739	-0.739
8	IAMD25	-0.017	-0.008	-0.033	-0.043	-0.053	-0.063	-0.073	-0.083	-0.093	-0.103	-0.113
9	IAMD12	0.019	0.002	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303	0.303
10	IAMD33	2.174	2.337	2.170	2.170	2.170	2.169	2.169	2.169	2.170	2.170	2.169
11	IAMD14	-0.156	-0.034	-0.137	-0.137	-0.217	-0.275	-0.348	-0.443	-0.536	-0.630	-0.661
12	IAMD15	0.390	0.414	0.330	0.281	0.230	0.180	0.130	0.080	0.030	-0.020	-0.070
13	IAMD36	-1.049	-0.949	-1.002	-1.023	-1.043	-1.063	-1.083	-1.103	-1.123	-1.143	-1.163
14	IAMD17SP2	-0.049	-0.203	-0.335	-0.335	-0.335	-0.335	-0.335	-0.335	-0.335	-0.335	-0.335
15	IAMD171	-0.606	-0.884	-1.114	-1.417	-1.717	-2.017	-2.317	-2.617	-2.917	-3.217	-3.517
16	IAMD18	-0.552	-0.612	-0.617	-0.641	-0.665	-0.689	-0.713	-0.737	-0.761	-0.785	-0.814
17	IAMD20	0.647	-0.094	-0.620	-0.920	-1.220	-1.520	-1.817	-2.117	-2.417	-2.717	-3.017
18	IAMD22	-0.110	-0.154	-0.154	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157	-0.157
19	IAMD23	-0.077	-0.008	-0.093	-0.101	-0.109	-0.117	-0.125	-0.133	-0.141	-0.149	-0.157
20	IAMD26	0.545	0.517	0.477	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
21	IAMD27	-0.081	-0.112	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134	-0.134
22	IAMD28	0.109	-0.805	-1.280	-1.139	-1.039	-0.940	-0.840	-0.740	-0.639	-0.539	-0.489
23	IAMD29	2.640	3.110	3.055	3.215	3.375	3.535	3.695	3.855	4.015	4.175	4.335
24	IAMD30	-1.028	-0.908	-1.057	-1.254	-1.254	-1.255	-1.259	-1.255	-1.254	-1.254	-1.255
25	IAMD31	-0.015	-0.002	0.014	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
26	IAMD	0.014	0.068	0.189	0.285	0.327	0.431	0.537	0.641	0.680	0.968	1.329
27	IARGC8	-5.978	-6.025	-5.487	-5.037	-5.037	-5.037	-5.037	-5.037	-5.037	-5.037	-5.037
28	IARGT	-2.339	-2.614	-3.273	-3.274	-3.274	-3.274	-3.274	-3.274	-3.274	-3.274	-3.274
29	IARGU9	-3.752	-3.708	-3.674	-3.773	-3.973	-4.173	-4.373	-4.573	-4.773	-4.973	-5.173
30	IRA	10.109	10.080	5.942	4.031	3.529	3.029	2.529	2.029	1.529	1.029	0.529
31	INFRHMH-MM	1.393	2.091	3.236	2.774	2.774	2.774	2.774	2.774	2.774	2.774	2.774
32	INRHM	-0.66	-1.51	0.33	0.41	0.68	0.94	1.21	1.47	1.74	2.00	2.26
33	IRITS	0.38	0.62	0.35	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
34	IP	0.00	-0.03	-0.05	0.01	-0.01	-0.02	-0.01	-0.02	-0.02	-0.01	-0.01
35	IPMF	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01
36	IPMD	-2.49	-1.43	-2.31	-2.31	-2.31	-2.31	-2.31	-2.31	-2.31	-2.31	-2.31
37	IPMFN	-2.09	-1.77	-2.39	-2.39	-2.39	-2.39	-2.39	-2.39	-2.39	-2.39	-2.39
38	IPMG	-0.21	-4.08	-3.15	-1.40	-1.50	-1.60	-1.70	-1.80	-1.90	-2.00	-2.10
39	IPMG-49	0.02	0.01	-0.00	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
40	IPRGU9	-8.33	-1.20	-0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	IVACS	12.54	17.81	17.44	16.84	19.44	20.44	21.44	22.44	23.44	24.44	25.44
42	IVALS	0.53	0.65	0.36	0.36	0.38	0.38	0.38	0.38	0.38	0.38	0.38
43	KHUM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	KHUI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	KHUI-MM/KHUI	-0.00	-0.00	-0.00	-0.10	-0.20	-0.30	-0.40	-0.50	-0.60	-0.70	-0.80
46	KHUI-MM/KHUI-MM	0.00	0.00	0.00	-0.00	-0.15	-0.30	-0.45	-0.60	-0.75	-0.90	-1.05
47	KIBIMF	-4.62	-8.49	-12.65	-14.49	-14.93	-14.15	-12.71	-10.70	-8.55	-6.27	-3.99
48	KIBITDAV	-0.22	-0.95	-1.25	-1.22	-1.16	-1.07	-0.95	-0.80	-0.62	-0.41	-0.20
49	KSAMRDV	-3.330	-3.072	-2.631	-2.431	-2.231	-2.031	-1.831	-1.631	-1.431	-1.231	-1.031
50	NPV	-0.592	-0.820	-1.061	-1.262	-1.362	-1.562	-1.812	-2.082	-2.362	-2.662	-2.962
51	NH/KHUI	0.000	0.000	0.000	-0.108	-0.608	-0.608	-0.668	-0.728	-0.788	-0.848	-0.908

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 45.30 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	MEETICC	44.25	1.95	48.38	42.95	-195.18	-81.32	-41.11	-139.02	-62.54	-10.43	29.05
2	MEETIFI	51.98	-17.79	1.66	50.91	-34.29	-60.75	-39.30	-42.57	-38.42	-37.18	-34.58
3	MEETICVF	-1.30	0.00	0.01	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
4	MEETICVS	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
5	MEETIFD19	13.70	2.70	-12.55	-0.04	-8.04	-7.24	-8.04	-5.84	-7.05	-7.05	-7.05
6	MEETIFD24	35.51	18.44	11.12	21.11	22.71	23.31	25.71	26.31	27.81	30.21	31.81
7	MEETIFD25	-26.95	-15.24	-13.99	-53.08	-63.02	-72.96	-82.90	-92.84	-102.78	-112.72	-117.66
8	MEETIFD32	16.47	10.06	1.56	-5.94	-8.44	-10.94	-13.44	-15.94	-18.44	-20.94	-23.44
9	MEETIFD33	62.35	41.18	24.57	19.57	14.57	9.57	4.57	-0.43	-5.43	-10.43	-15.43
10	MEETIFD34	76.57	81.33	82.47	77.47	72.47	67.47	62.47	57.47	52.47	47.47	42.47
11	MEETIFD35	-20.48	-55.34	-71.74	-113.39	-155.04	-179.69	-208.34	-228.99	-253.64	-278.29	-302.94
12	MEETIFD36	138.63	155.21	181.94	182.28	186.77	191.26	195.75	200.24	204.73	209.22	213.71
13	MEETIFD37SP1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	MEETIFD37SP2	32.44	48.26	36.56	31.85	24.95	18.05	11.15	4.25	-2.65	-9.55	-16.45
15	MEETIFD371	-90.90	-86.61	-33.42	-59.46	-44.06	-68.66	-77.26	-77.86	-82.46	-87.06	-91.66
16	MEETIFD372.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	MEETIFD38	-12.76	-19.22	-27.33	-37.59	-47.32	-57.05	-66.78	-76.51	-86.24	-95.97	-105.70
18	MEETIFD39	1.84	77.08	13.11	9.88	8.48	7.07	6.47	5.47	4.47	3.47	2.47
19	MEETIFD40	36.40	22.99	-2.26	-8.05	-15.43	-22.05	-28.65	-35.25	-41.85	-48.45	-55.05
20	MEETIFD41	11.17	-0.95	-0.34	-0.34	-0.74	-0.93	-1.13	-1.33	-1.52	-1.72	-1.92
21	MEETIFD42	56.24	55.00	53.66	50.66	63.66	60.66	73.66	78.66	83.66	88.66	93.66
22	MEETIFD43	-89.44	-97.23	-106.51	-117.97	-129.43	-140.89	-152.35	-163.81	-175.27	-186.73	-198.19
23	MEETIFD46	24.32	24.85	23.50	23.33	23.17	23.01	22.85	22.69	22.53	22.37	22.21
24	MEETIFD47	15.33	24.36	-18.10	-23.60	-29.10	-34.60	-40.10	-45.60	-51.10	-56.60	-62.10
25	MEETIFD48	21.90	22.12	23.93	8.93	12.59	16.25	19.91	23.57	27.23	30.89	34.55
26	MEETIFD49	2.61	6.99	4.99	0.59	-0.01	-0.61	-1.21	-1.81	-2.41	-3.01	-3.61
27	MEETIFD50	-19.17	-22.11	-23.48	-31.62	-34.96	-38.30	-41.64	-44.98	-48.32	-51.65	-54.98
28	MEETIFD51	2.33	-0.71	-2.31	-6.57	-10.65	-14.73	-18.81	-22.89	-26.97	-31.05	-35.13
29	MEETIFD52	49.42	41.34	-5.79	-5.79	-5.79	-5.79	-5.79	-5.79	-5.79	-5.79	-5.79
30	MEETIFD53	-127.04	-182.95	-188.21	-201.12	-176.42	-149.82	-123.22	-94.72	-66.02	-37.32	-8.62
31	MEETIFD54	26.60	91.23	91.96	80.93	63.06	40.46	17.86	-4.14	-26.04	-47.94	-69.84
32	MEETIFD55	3.48	9.74	-27.68	30.95	-31.65	30.15	-29.08	29.15	32.26	35.36	38.46
33	MEETIFD56	-127.98	111.25	-153.43	107.94	-214.62	-154.36	-116.68	-89.94	-63.20	-36.46	-9.72
34	MEETIFD57	33.83	-62.38	-133.14	27.17	-161.91	-84.09	-33.80	-92.40	-151.00	-209.60	-268.20
35	MEETIFD58	423.09	306.23	388.39	368.69	376.99	385.29	393.59	401.89	410.19	418.49	426.78
36	MEETIFD59	0.0	0.0	0.0	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14
37	MEETIFD60	0.0	0.0	0.0	-0.06	-0.12	-0.18	-0.24	-0.30	-0.36	-0.42	-0.48
38	MEETIFD61	0.0	0.0	0.0	-0.09	-0.18	-0.27	-0.36	-0.45	-0.54	-0.63	-0.72
39	MEETIFD62	0.0	0.0	0.0	-0.18	-0.26	-0.34	-0.42	-0.50	-0.58	-0.66	-0.74
40	MEETIFD63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
41	MEETIFD64	0.0	0.0	0.0	-0.15	-0.30	-0.45	-0.60	-0.75	-0.90	-1.05	-1.20
42	MEETIFD65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	MEETIFD66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
44	MEETIFD67	0.0	0.0	0.0	0.02	0.04	0.06	0.08	0.10	0.12	0.14	0.16
45	MEETIFD68	0.0	0.0	0.0	-0.08	-0.16	-0.24	-0.32	-0.40	-0.48	-0.56	-0.64
46	MEETIFD69	0.0	0.0	0.0	0.0	0.24	0.48	0.72	0.96	1.20	1.44	1.68
47	MEETIFD70	0.0	0.0	0.0	0.0	0.40	0.80	1.20	1.60	2.00	2.40	2.80
48	MEETIFD71	0.0	0.0	0.0	0.0	0.40	0.80	1.20	1.60	2.00	2.40	2.80
49	MEETIFD72	0.0	0.0	0.0	0.0	0.40	0.80	1.20	1.60	2.00	2.40	2.80
50	MEETIFD73	0.0	0.0	0.0	0.0	0.40	0.80	1.20	1.60	2.00	2.40	2.80
51	MEETIFD74	0.0	0.0	0.0	0.0	0.40	0.80	1.20	1.60	2.00	2.40	2.80

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 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 45.30 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NNNPFN28	0.0	0.0	0.0	0.0	0.0	0.30	0.30	0.30	0.30	0.30
2	NNNPFN29	0.0	0.0	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19
3	NNNPFN30	0.0	0.0	-0.02	-0.05	-0.07	-0.10	-0.12	-0.14	-0.17	-0.19
4	NNNPFN31	0.0	0.0	-0.07	-0.14	-0.22	-0.29	-0.36	-0.43	-0.50	-0.58
5	NNNPMG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.05	0.10
6	NLCF16.19	0.000	0.000	-0.019	-0.038	-0.057	-0.076	-0.094	-0.113	-0.132	-0.151
7	NLCF16.24	4.157	4.845	5.485	5.885	5.885	6.085	6.285	6.485	6.685	6.885
8	NLCF20.24	0.000	0.000	0.049	0.098	0.146	0.195	0.244	0.293	0.341	0.390
9	NLCF25.34	0.000	0.000	0.000	0.236	0.354	0.472	0.590	0.708	0.826	0.944
10	NLCF35.44	0.000	0.000	0.020	0.040	0.060	0.080	0.100	0.120	0.140	0.160
11	NLCF45.54	0.000	0.000	-0.110	-0.220	-0.330	-0.440	-0.550	-0.660	-0.770	-0.880
12	NLCF55.64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
13	NLCF65.64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
14	NLCM16.19	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
15	NLCM16.24	-0.618	0.197	70.158	-0.073	0.012	0.097	0.182	0.267	0.352	0.567
16	NLCM20.24	0.000	0.000	0.012	-0.025	-0.037	-0.050	-0.062	-0.075	-0.087	-0.100
17	NLCM25.34	0.000	0.000	-0.012	-0.025	-0.037	-0.050	-0.062	-0.075	-0.087	-0.100
18	NLCM35.44	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
19	NLCM45.54	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
20	NLCM55.64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
21	NLCM65.64	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
22	NMLTFN24	-0.001	0.008	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
23	NMLTFN25	-0.027	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
24	NMLTFN26	-0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011	0.011
25	NMLTFN27	-0.045	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
26	NMLTFN28	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
27	NMLTFN29	-0.105	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
28	NMLTFN30	0.037	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054	0.054
29	NMLTFN31	0.021	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.013
30	NMLTFN32	-0.115	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062	0.062
31	NMLTFN33	-0.008	0.006	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
32	NMLTFN34	0.222	0.288	0.290	0.290	0.290	0.290	0.290	0.290	0.290	0.290
33	NMLTFN35	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
34	NMLTFN36	0.016	0.023	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
35	NMLTFN37	-0.088	0.071	0.092	0.092	0.092	0.092	0.092	0.092	0.092	0.092
36	NMLTFN38	0.000	0.011	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
37	NMLTFN39	0.007	0.016	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
38	NMLTFN40	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
39	NMLTFN41	-0.008	-0.003	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005	-0.005
40	NMLTFN42	-0.007	-0.002	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013	-0.013
41	NMLTFN43	-0.017	-0.021	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014	-0.014
42	NMLTFN44	0.065	0.065	0.111	0.111	0.111	0.111	0.111	0.111	0.111	0.111
43	NMLTFN45	0.955	0.503	0.152	0.402	0.401	0.401	0.401	0.402	0.402	0.401
44	NPSRF16.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	NPSRF20.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
46	NPSRM16.17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	NPSRM16.19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
48	NPSRM20.24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49	NPTLD	1.33	1.35	1.16	1.08	1.00	0.92	0.84	0.76	0.68	0.60
50	NMLTF16.19	0.0451	0.0528	0.0702	0.0707	0.0720	0.0743	0.0766	0.0804	0.0830	0.0880
51	NMLTF20.24	0.0422	0.0523	0.0698	0.0703	0.0723	0.0737	0.0705	0.0670	0.0645	0.0644

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 45.30 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NLTF25.34	0.0056	0.0986	0.1149	0.1235	0.1219	0.1258	0.1271	0.1242	0.1209	0.1186	0.1165
2	NLTF35.44	0.0174	0.0194	0.0214	0.0300	0.0306	0.0327	0.0342	0.0312	0.0278	0.0254	0.0253
3	NLTF45.54	0.0062	0.0005	-0.0000	0.0076	0.0080	0.0097	0.0110	0.0065	0.0056	0.0035	0.0035
4	NLTF55.64	0.0228	0.0291	0.0357	0.0424	0.0497	0.0569	0.0577	0.0598	0.0606	0.0591	0.0550
5	NLTF65.74	0.0008	0.0008	0.0000	0.0021	0.0016	0.0010	0.0004	-0.0004	-0.0021	-0.0012	-0.0000
6	NLTF16.19	0.0192	0.0104	0.0193	0.0235	0.0202	0.0203	0.0210	0.0204	0.0202	0.0210	0.0222
7	NLTF20.24	0.0074	0.0057	0.0002	-0.0016	-0.0023	-0.0023	-0.0017	-0.0019	-0.0022	-0.0019	-0.0015
8	NLTF25.34	-0.0021	0.0024	0.0008	0.0021	0.0015	0.0016	0.0022	0.0020	0.0016	0.0017	0.0021
9	NLTF35.44	-0.0000	0.0063	0.0093	-0.0015	-0.0021	-0.0020	-0.0014	-0.0016	-0.0020	-0.0018	-0.0014
10	NLTF45.54	-0.0020	0.0066	0.0102	-0.0004	-0.0012	-0.0011	-0.0005	-0.0007	-0.0011	-0.0008	-0.0004
11	NLTF55.64	-0.0195	-0.0021	0.0010	-0.0158	-0.0322	-0.0472	-0.0618	-0.0653	-0.0687	-0.0716	-0.0783
12	NLTF65.74	0.0195	0.0059	0.0000	0.0051	0.0086	0.0097	0.0050	0.0049	0.0050	0.0052	0.0054
13	NLTF16.19	-0.0119	0.0071	-0.0022	-0.0079	-0.0164	-0.0211	-0.0214	-0.0214	-0.0214	-0.0214	-0.0214
14	NLTF20.24	-0.0110	-0.0231	-0.0312	-0.066	-0.063	-0.063	-0.060	-0.063	-0.063	-0.063	-0.063
15	NLTF25.34	-0.0111	-0.007	-0.007	-0.030	-0.022	-0.042	-0.040	-0.043	-0.042	-0.039	-0.036
16	NLTF35.44	0.011	0.010	0.010	-0.006	-0.015	-0.015	-0.014	-0.015	-0.015	-0.013	-0.010
17	NLTF45.54	0.01	0.01	0.01	-0.031	-0.036	-0.036	-0.036	-0.036	-0.036	-0.035	-0.033
18	NLTF55.64	-0.043	-0.21	-0.22	-0.12	-0.23	-0.22	-0.20	-0.22	-0.22	-0.22	-0.22
19	NLTF65.74	-0.04	0.08	0.11	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
20	NLTF16.19	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
21	NLTF20.24	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
22	NLTF25.34	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
23	NLTF35.44	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
24	NLTF45.54	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
25	NLTF55.64	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
26	NLTF65.74	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
27	NLTF16.19	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
28	NLTF20.24	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
29	NLTF25.34	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
30	NLTF35.44	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
31	NLTF45.54	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
32	NLTF55.64	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
33	NLTF65.74	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
34	NLTF16.19	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
35	NLTF20.24	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
36	NLTF25.34	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
37	NLTF35.44	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
38	NLTF45.54	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
39	NLTF55.64	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
40	NLTF65.74	-0.04	0.13	0.16	-0.09	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-ADJUSTING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE 45.40 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1970	1971	1972	1973	1974	1975	1976	1977	1978
1	PC	0.42	1.12	0.90	0.0	0.0	0.0	0.0	0.0	0.0
2	PCCF	-1.05	-1.10	0.45	0.0	0.0	0.0	0.0	0.0	0.0
3	PC9	0.90	4.25	4.40	0.0	0.0	0.0	0.0	0.0	0.0
4	PC9A	2.89	4.69	4.33	0.0	0.0	0.0	0.0	0.0	0.0
5	PCEDAP	10.32	0.55	2.58	2.80	2.90	2.92	2.78	2.70	2.52
6	PCEDAVN	0.59	-4.09	-7.21	-15.51	-21.41	-33.41	-39.54	-45.62	-51.78
7	PCEDAVR	0.59	-4.09	-7.21	-15.51	-21.41	-33.41	-39.54	-45.62	-51.78
8	PCEDAVU	-6.44	-5.33	73.02	-32.14	-50.01	-67.83	-86.00	-104.22	-122.35
9	PCEDF	-2.42	-3.51	4.76	-4.72	-4.47	-4.47	-4.59	-4.66	-4.81
10	PCEDCO	0.31	-0.23	0.97	2.14	3.23	4.35	5.24	7.04	7.88
11	PCDENC	-1.02	-4.25	-5.59	-5.38	-5.30	-5.29	-5.41	-5.48	-5.61
12	PCDENC	2.14	4.66	6.13	5.40	5.02	4.68	3.38	2.78	2.06
13	PCDENG	2.19	-2.15	-0.73	5.27	8.27	11.27	14.27	17.27	20.27
14	PCDENG	-1.59	-4.12	-6.45	-8.20	-9.09	-9.94	-10.77	-11.52	-12.23
15	PCDENG	2.37	5.00	8.00	13.14	15.24	17.37	19.25	21.09	22.99
16	PCDENG	-0.24	-1.52	-1.96	-1.67	-1.55	-1.39	-1.20	-1.01	-0.84
17	PCDENG	2.71	3.34	3.91	5.83	6.77	7.74	8.58	10.32	11.44
18	PCDENG	0.71	-0.28	-0.53	-0.25	-0.13	0.02	-0.10	-0.38	-0.60
19	PCDENG	0.10	-0.73	-0.49	-0.75	-0.64	-0.49	-0.74	-0.86	-1.06
20	PCDENG	0.52	0.22	-0.39	-4.12	-6.00	-7.84	-9.98	-12.14	-14.23
21	PCDENG	-0.49	-0.18	-2.14	-1.08	-1.76	-1.59	-1.90	-2.00	-1.46
22	PCDENG	7.25	15.16	22.96	33.29	38.43	43.62	48.45	53.24	58.11
23	PCDENG	6.63	6.57	5.53	3.34	3.14	3.34	3.34	3.34	3.34
24	PCDENG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	PCDENG	3.07	2.04	2.80	1.80	1.30	0.80	-0.20	-0.70	-1.20
26	PCDENG	-0.04	-0.02	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
27	PCDENG	-2.60	-18.17	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04
28	PCDENG	-26.54	715.66	-8.08	-7.70	-7.51	-7.25	-7.46	-7.87	-8.21
29	PCDENG	-4.51	-13.94	-20.84	-20.58	-20.45	-20.29	-20.42	-20.59	-20.69
30	PCDENG	2.49	9.10	13.19	9.53	7.68	5.88	3.72	1.51	-2.09
31	PCDENG	-10.48	-11.43	-14.07	-15.52	-15.30	-15.01	-15.24	-15.72	-16.16
32	PCDENG	-0.1100	-0.2053	-0.3435	-0.4826	-1.2428	-1.6917	-2.3226	-3.3226	-3.9809
33	PCDENG	-1.3554	-1.8562	-2.3393	-2.8193	-3.2994	-4.2594	-5.2195	-6.524	-6.0784
34	PCDENG	0.3518	0.4434	0.1713	0.0159	-0.2673	-0.4226	-0.6515	-1.1809	-1.3483
35	PCDENG	0.21	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18
36	PCDENG	-0.13	-0.18	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42
37	PCDENG	0.49	0.04	-0.93	0.0	0.0	0.0	0.0	0.0	0.0
38	PCDENG	-1.57	3.63	0.23	0.0	0.0	0.0	0.0	0.0	0.0
39	PCDENG	0.41	0.41	0.39	0.0	0.0	0.0	0.0	0.0	0.0
40	PCDENG	2.38	3.70	1.86	0.0	0.0	0.0	0.0	0.0	0.0
41	PCDENG	-0.30	2.56	1.80	0.0	0.0	0.0	0.0	0.0	0.0
42	PCDENG	1.46	0.64	1.56	0.0	0.0	0.0	0.0	0.0	0.0
43	PCDENG	-24.71	-53.21	-84.25	-90.10	-111.43	-129.33	-161.56	-192.97	-213.33
44	PCDENG	-0.68	-5.58	-6.19	-6.19	-6.19	-6.19	-6.19	-6.19	-6.19
45	PCDENG	-19.84	-38.68	-56.28	-79.76	-105.85	-135.74	-167.44	-202.22	-242.25
46	PCDENG	-4.55	-7.24	-9.53	-11.53	-13.53	-15.53	-17.53	-19.53	-21.53
47	PCDENG	-10.72	-20.22	-26.26	-34.75	-45.25	-53.85	-60.35	-68.85	-73.35
48	PCDENG	16.42	14.47	18.10	14.11	14.11	14.11	14.11	14.11	14.11
49	PCDENG	21.54	20.76	16.50	16.58	16.58	16.58	16.58	16.58	16.58
50	PCDENG	-5.60	-6.47	-9.99	-9.99	-9.99	-9.99	-9.99	-9.99	-9.99
51	PCDENG	12.21	4.56	-9.07	-9.07	-9.07	-9.07	-9.07	-9.07	-9.07

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

TABLE #5.40 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	PXVGMFD35	8.06	7.66	9.03	10.03	11.03	12.03	13.03	14.03	15.03	16.03	17.03
2	PXVGMFD36	13.91	15.43	18.77	21.77	24.77	27.77	30.77	33.77	36.77	39.77	42.77
3	PXVGMFD37SP1	11.46	11.74	14.49	16.36	17.86	19.51	21.17	22.77	24.38	26.03	27.78
4	PXVGMFD37SP2	9.51	9.92	12.61	14.61	16.61	18.61	20.61	22.61	24.61	26.61	28.61
5	PXVGMFD37I	11.68	14.21	17.42	19.92	22.42	24.92	27.42	29.92	32.42	34.92	37.42
6	PXVGMFD38	-4.38	-11.70	-13.19	-13.39	-13.19	-13.39	-13.19	-13.39	-13.19	-13.39	-13.19
7	PXVGMFD39	2.43	4.51	7.55	10.44	14.49	19.06	23.83	27.74	32.07	36.43	40.87
8	PXVGMFN20	-1.58	-1.84	-3.49	-3.08	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48	-3.48
9	PXVGMFN21	7.05	14.67	18.19	22.19	26.19	30.19	34.19	38.19	42.19	46.19	50.19
10	PXVGMFN22	9.65	11.52	10.10	10.09	10.09	10.09	10.09	10.09	10.09	10.09	10.09
11	PXVGMFN23	5.00	3.70	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
12	PXVGMFN24	20.30	19.43	24.18	26.18	28.18	30.18	32.18	34.18	36.18	38.18	40.18
13	PXVGMFN27	10.42	9.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
14	PXVGMFN28	4.44	10.99	11.06	13.06	15.06	17.06	19.06	21.06	23.06	25.06	27.06
15	PXVGMFN30	1.33	0.73	-3.76	-4.76	-5.76	-6.76	-7.76	-8.76	-9.76	-10.76	-11.76
16	PXVGMFN31	2.09	-0.37	-5.52	-7.53	-9.53	-11.53	-13.53	-15.53	-17.53	-19.53	-21.53
17	PXVGRGCB8	-1.04	-2.42	-2.10	-2.70	-3.30	-3.90	-4.50	-5.10	-5.70	-6.30	-6.90
18	PXVGRGCT	-1.22	-4.24	-7.18	-10.38	-13.58	-16.78	-19.98	-23.18	-26.38	-29.58	-32.78
19	PXVGRGCI9	11.25	15.26	22.88	31.88	40.88	49.88	58.88	67.88	76.88	85.88	94.88
20	PXVGSV	2.50	0.44	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
21	PXVNC0	1.02	1.82	2.08	2.24	3.64	5.71	7.86	9.34	11.09	12.71	13.66
22	PXVNMFN29	37.03	38.81	35.53	39.66	43.23	47.12	51.36	55.98	61.02	66.51	72.50
23	PXVNMFG	24.72	48.11	77.90	110.90	143.90	175.90	201.90	223.90	245.90	266.90	287.90
24	RATNPFNRS	0.0053	-0.0017	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053
25	RANL33	0.036	-0.010	2.040	2.040	2.040	2.040	2.040	2.040	2.040	2.040	2.040
26	SABRD4V	0.102	0.111	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
27	TEB5F3	-15.10	-4.46	9.23	9.28	12.58	15.18	16.78	19.48	22.08	25.24	28.97
28	TEBSTRUS	0.49	0.76	0.91	1.31	1.71	2.11	2.51	2.91	3.31	3.71	4.11
29	TEBSTRPS	-0.09	-0.25	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
30	TEBSTRVS	0.91	1.52	1.44	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
31	TEC00+13	9.19	6.40	-0.69	-12.34	-27.70	-43.39	-63.89	-82.29	-99.44	-114.52	-131.55
32	TEC02+43	1.11	-0.10	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40
33	TEC05.9-1-2203	0.93	15.33	18.44	21.90	25.69	29.65	33.58	43.06	53.36	62.83	70.47
34	TEBSTRS	-2.51	-10.29	-13.47	-14.47	-15.47	-14.97	-10.72	-9.57	-7.72	-5.97	-4.72
35	TEBSTRUS	0.61	1.40	2.42	2.92	3.42	3.92	4.42	4.92	5.42	5.92	6.42
36	TEBSTRPS	0.51	0.81	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
37	TEBSTRVS	-0.05	0.20	0.23	0.13	0.03	-0.07	-0.17	-0.27	-0.37	-0.47	-0.57
38	TEC010+13	-0.05	-0.92	-3.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44
39	TEC02+43	0.27	-1.00	-1.60	-1.60	-1.60	-0.81	-0.81	-0.81	-0.81	-0.81	-0.81
40	TEC05.9-1-UG133	8.00	6.53	2.96	-0.89	-3.20	-6.62	-10.31	-16.52	-24.49	-31.00	-39.04
41	TEC010+13	-2.21	-3.17	-4.18	-4.18	-4.18	-4.18	-4.18	-4.18	-4.18	-4.18	-4.18
42	TEC010+13	-3.97	-5.57	-7.33	-11.82	-12.82	-13.02	-13.62	-14.42	-15.22	-16.02	-16.82
43	TEC010+13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	TEC010+13	-18.36	-28.45	-33.91	-40.54	-48.49	-57.99	-69.36	-82.95	-98.21	-113.66	-129.00
45	TEC010+13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	TEC010+13	1.46	-0.94	-2.78	-1.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80	-0.80
47	TEC010+13	0.82	-0.87	-1.42	-2.02	-2.62	-3.22	-3.82	-4.42	-5.02	-5.62	-6.22
48	TEC010+13	-8.91	-5.14	-8.73	-9.46	-10.55	-11.64	-12.73	-13.82	-14.91	-16.00	-17.09
49	TEC010+13	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
50	TEC010+13	-0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	TEC010+13	-4.24	-5.86	-12.03	-13.93	-14.03	-15.03	-16.03	-17.03	-18.03	-19.03	-20.03

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TABLE 45.40 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	1XCS918	4.56	5.44	5.69	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89
2	1XOPFDV1PR3	0.53	-0.53	-0.65	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85
3	1XOPFDV1PR3	9.724	7.951	4.814	3.814	2.814	1.814	0.814	-0.186	-1.186	-2.186	-3.186
4	1XOPFDV1PR3	-7.941	-1.781	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480
5	1XOPFDV1PR3	-0.0108	-0.0165	-0.0125	-0.0056	0.0006	0.0060	0.0095	0.0105	0.0107	0.0105	0.0107
6	1XOPFDV1PR3	-0.0042	-0.0105	-0.0076	-0.0019	0.0036	0.0081	0.0112	0.0118	0.0117	0.0112	0.0107
7	1XOPFDV1PR3	0.0075	-0.0035	-0.0040	0.0000	0.0043	0.0081	0.0106	0.0102	0.0093	0.0080	0.0067
8	1XOPFDV1PR3	0.0004	0.0002	0.0010	0.0034	0.0064	0.0094	0.0114	0.0106	0.0094	0.0080	0.0066
9	1XOPFDV1PR3	-0.0532	-0.0830	-0.1051	-0.1370	-0.1639	-0.1896	-0.2171	-0.2543	-0.2903	-0.3297	-0.3601
10	1XOPFDV1PR3	-0.1338	-0.1478	-0.1950	-0.2697	-0.3511	-0.4282	-0.4966	-0.5566	-0.6044	-0.6412	-0.6686
11	1XOPFDV1PR3	-0.0943	-0.0971	-0.1371	-0.2086	-0.2974	-0.3917	-0.4817	-0.5579	-0.6185	-0.6638	-0.6972
12	1XOPFDV1PR3	-0.0707	-0.0936	-0.1048	-0.1349	-0.1774	-0.2231	-0.2720	-0.3247	-0.3752	-0.4221	-0.4668
13	1XOPFDV1PR3	-2.13	-3.18	-4.66	-6.26	-8.86	-11.45	-14.05	-16.65	-19.25	-21.85	-24.44
14	1XOPFDV1PR3	0.350	0.050	0.562	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561
15	1XOPFDV1PR3	-4.600	-4.789	-7.785	-6.656	-7.063	-6.900	-6.494	-5.452	-4.521	-3.621	-2.821
16	1XOPFDV1PR3	-38.204	-54.772	-69.665	-91.585	-116.848	-142.756	-171.014	-201.395	-232.529	-265.398	-300.362
17	1XOPFDV1PR3	-4.831	-0.260	-14.008	-12.079	-11.879	-10.879	-10.879	-9.879	-9.879	-9.879	-9.879
18	1XOPFDV1PR3	-0.200	-0.066	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
19	1XOPFDV1PR3	-0.007	0.104	0.087	0.117	0.130	0.143	0.156	0.169	0.182	0.195	0.205
20	1XOPFDV1PR3	-0.047	-0.017	-0.045	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059
21	1XOPFDV1PR3	0.049	0.172	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
22	1XOPFDV1PR3	-0.197	-0.086	-0.034	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
23	1XOPFDV1PR3	0.264	0.049	0.031	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
24	1XOPFDV1PR3	-0.207	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
25	1XOPFDV1PR3	-0.028	0.048	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
26	1XOPFDV1PR3	-0.012	-0.076	-0.073	-1.173	-1.173	-1.173	-1.173	-1.173	-1.173	-1.173	-1.173
27	1XOPFDV1PR3	0.083	0.109	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
28	1XOPFDV1PR3	0.279	0.061	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
29	1XOPFDV1PR3	0.249	0.123	0.027	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
30	1XOPFDV1PR3	-0.109	-0.089	-0.070	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090
31	1XOPFDV1PR3	-0.135	-0.137	-0.128	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
32	1XOPFDV1PR3	-0.316	-0.209	-0.324	-0.390	-0.390	-0.390	-0.390	-0.390	-0.390	-0.390	-0.390
33	1XOPFDV1PR3	0.137	0.155	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096	0.096
34	1XOPFDV1PR3	-0.043	0.174	0.080	0.090	0.100	0.110	0.120	0.130	0.140	0.150	0.160
35	1XOPFDV1PR3	0.300	0.358	0.328	0.387	0.407	0.427	0.447	0.467	0.487	0.507	0.527
36	1XOPFDV1PR3	-0.350	0.036	0.020	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
37	1XOPFDV1PR3	0.083	0.116	0.096	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
38	1XOPFDV1PR3	0.345	0.182	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148
39	1XOPFDV1PR3	-12.838	-8.155	-12.769	-13.670	-14.570	-15.470	-16.370	-17.270	-18.170	-19.070	-20.070
40	1XOPFDV1PR3	2.452	-7.251	-2.303	-3.548	-2.785	-2.024	-1.264	-0.504	0.255	1.015	1.775
41	1XOPFDV1PR3	-0.743	-8.795	-4.256	-6.416	-5.616	-4.796	-3.976	-3.156	-2.336	-1.516	-0.696
42	1XOPFDV1PR3	-0.433	-4.66	-4.79	-4.24	-3.69	-3.14	-2.59	-2.04	-1.49	-0.94	-0.39
43	1XOPFDV1PR3	0.31	0.07	-0.00	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
44	1XOPFDV1PR3	-0.50	0.82	0.74	1.24	1.75	2.25	2.75	3.25	3.75	4.25	4.75
45	1XOPFDV1PR3	1.03	0.88	0.82	1.02	1.22	1.42	1.63	1.83	2.03	2.23	2.43
46	1XOPFDV1PR3	-0.49	-0.04	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22
47	1XOPFDV1PR3	-0.32	-0.70	-1.09	-0.80	-0.50	-0.20	0.11	0.41	0.71	1.01	1.31
48	1XOPFDV1PR3	0.42	0.92	1.34	1.54	1.74	1.94	2.14	2.34	2.54	2.74	2.94
49	1XOPFDV1PR3	-0.07	0.09	0.29	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
50	1XOPFDV1PR3	0.15	0.46	1.36	1.41	1.47	1.53	1.59	1.65	1.71	1.77	1.83
51	1XOPFDV1PR3	0.17	1.72	2.39	2.69	2.99	3.28	3.58	3.88	4.18	4.48	4.78

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 POST-MEETING CONTROL SOLUTION - DECEMBER 6, 1978

LINE	VAR LABEL	TABLE 45.40 CONSTANT ADJUSTMENTS										
		1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	XVGMFD10	0.38	0.10	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	XVGMFD15	0.43	1.40	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
3	XVGMFD16	0.79	1.03	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
4	XVGMFD17P1	0.04	0.07	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
5	XVGMFD371	1.34	2.26	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
6	XVGMFD38	0.19	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
7	XVGMFD19	0.20	-0.09	-0.17	-0.12	-0.07	-0.02	0.01	0.08	0.13	0.18	0.23
8	XVGMFD20	1.08	1.74	1.63	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
9	XVGMFD21	0.12	-0.25	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33
10	XVGMFD22	0.48	-0.76	-1.13	-1.23	-1.33	-1.44	-1.54	-1.64	-1.73	-1.83	-1.91
11	XVGMFD23	0.22	-0.04	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
12	XVGMFD26	0.05	0.32	0.34	0.45	0.55	0.65	0.75	0.85	0.95	1.05	1.15
13	XVGMFD27	0.42	1.00	1.62	1.62	2.02	2.22	2.42	2.62	2.82	3.02	3.22
14	XVGMFD28	0.22	0.12	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
15	XVGMFD29	0.28	-0.14	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
16	XVGMFD30	0.32	-0.19	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
17	XVGMFD31	0.03	-0.04	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
18	XVGMFD32	0.05	0.14	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.81	0.90
19	XVGMFD11+12	0.39	0.69	0.94	1.17	1.41	1.65	1.89	2.13	2.37	2.61	2.85
20	XVGMFD13	3.21	4.47	5.34	6.27	7.19	8.11	9.03	9.95	10.87	11.79	12.71
21	XVGMFD14	0.33	0.58	0.90	1.01	1.12	1.23	1.34	1.45	1.56	1.67	1.78
22	XVGMFD15A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	XVGMFD16A	0.03	-0.07	-0.17	-0.19	-0.22	-0.24	-0.26	-0.29	-0.31	-0.33	-0.36
24	XVGMFD17A	0.03	-0.65	-1.34	-0.08	-3.00	-1.98	-5.55	-6.33	-7.63	-8.39	-8.59
25	XVGMFD18A	-0.57	-0.61	-0.53	-0.43	-0.33	-0.23	-0.13	-0.03	0.07	0.17	0.27
26	XVGMFD19A	-0.50	-0.58	-0.61	-0.55	-0.49	-0.43	-0.37	-0.31	-0.25	-0.19	-0.13
27	XVGMFD20A	0.00	-0.27	-0.81	-1.09	-1.37	-1.65	-1.93	-2.21	-2.49	-2.77	-3.05
28	XVGMFD21A	0.04	-0.10	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
29	XVGMFD22A	-0.47	-0.82	-1.27	-1.30	-1.33	-1.36	-1.39	-1.42	-1.45	-1.48	-1.51
30	XVGMFD23A	-0.12	-0.18	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
31	XVGMFD24A	0.06	0.08	0.09	0.13	0.17	0.21	0.25	0.29	0.33	0.37	0.41
32	XVGMFD25A	1.38	2.23	3.50	5.38	6.98	8.38	9.88	11.58	13.68	15.98	18.28
33	XVGMFD26A	-0.54	-2.21	-2.29	-2.80	-3.30	-3.79	-4.29	-4.79	-5.29	-5.79	-6.29
34	XVGMFD27A	1.33	-5.48	-7.63	-7.63	-7.43	-7.22	-7.02	-6.82	-6.62	-6.41	-6.21
35	XVGMFD28A	2.15	2.61	0.03	1.55	2.28	3.00	3.72	4.45	5.17	5.89	6.61
36	XVGMFD29A	-3.50	-0.34	-4.97	-5.05	-4.72	-4.60	-4.48	-4.36	-4.24	-4.12	-3.99
37	YD1V13	0.72	1.63	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
38	YD1V14	10.04	13.54	13.67	19.17	24.67	30.17	35.67	41.17	46.67	52.17	57.67
39	YD1V15A	0.747	1.616	2.849	3.064	3.404	3.569	3.647	3.845	3.914	3.901	3.445

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APPENDIX IV

WHARTON ANNUAL MODEL

HIGHER PRODUCTIVITY ALTERNATIVE

CHARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

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TABLE 1.00 SELECTED INDICATORS

LINE	VAR LABEL	I	F	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GDP's	I			2105.712308.1	2509.9	2805.0	3131.2	3463.8	3793.7	4175.6	4533.5	4888.3	5239.0	
2	GDP's	I			% CHANGE	11.4	9.6	8.7	11.8	11.6	10.6	9.5	10.1	8.6	7.2
3															
4	GNP	I			1388.311816.7	1849.2	1514.2	1581.0	1637.7	1685.9	1750.7	1803.6	1855.4	1905.3	
5	GNP	I			% CHANGE	3.91	2.3	4.5	4.4	3.6	2.9	3.8	3.0	2.9	2.7
6															
7	PGDP	I			152.11	162.9	173.2	185.3	198.1	211.5	225.0	238.5	251.4	263.5	275.0
8	PGDP	I			% CHANGE	7.41	7.1	6.3	7.0	6.9	6.8	6.4	6.0	5.4	4.4
9															
10	NPT	I			219.511220.31	222.24	224.29	226.83	228.60	230.79	232.98	235.17	237.33	239.48	
11	NPT	I			% CHANGE	0.61	0.8	0.9	1.0	1.0	1.0	0.9	0.9	0.9	0.9
12															
13	MLC	I			100.321102.74	104.84	106.46	107.99	109.54	111.02	112.54	114.15	115.84	117.38	
14	MLC	I			% CHANGE	3.01	2.4	2.0	1.5	1.4	1.4	1.3	1.4	1.5	1.3
15															
16	MLTA	I			63.01	63.6	64.0	64.1	64.3	64.6	64.8	65.1	65.3	65.6	66.0
17	MLTA	I			% CHANGE	1.31	0.9	0.6	0.2	0.3	0.4	0.4	0.4	0.5	0.5
18															
19	MEFTA	I			94.291	96.38	98.07	100.64	103.02	105.02	106.61	108.25	109.64	110.99	112.31
20	MEFTA	I			% CHANGE	2.31	2.3	1.8	2.6	2.4	1.9	1.5	1.5	1.2	1.2
21															
22	WRCS	I			265.31	286.1	306.6	331.5	358.7	387.9	418.4	450.8	482.8	514.5	546.5
23	WRCS	I			% CHANGE	8.21	7.9	7.1	8.1	8.2	7.9	7.8	7.1	6.6	6.2
24															
25	GNPPP	I			14.086114.699	14.777	15.046	15.347	15.595	15.814	16.173	16.451	16.717	16.965	
26	GNPPP	I			% CHANGE	-0.21	0.1	0.5	1.8	2.0	1.6	2.1	1.7	1.6	1.5
27															
28	XVCNPPP	I			8.0621	8.231	8.429	8.748	9.066	9.323	9.563	9.876	10.135	10.400	10.670
29	XVCNPPP	I			% CHANGE	2.51	2.1	2.4	3.6	3.6	2.8	2.6	2.6	2.6	2.6
30															
31	GNPPC	I			6.3331	6.430	6.521	6.751	6.982	7.164	7.305	7.514	7.669	7.818	7.956
32	GNPPC	I			% CHANGE	1.01	1.5	1.4	3.5	3.4	2.6	2.9	2.1	1.9	1.8
33															
34	YPR/NPT	I			4.4331	4.518	4.626	4.761	4.907	5.030	5.135	5.272	5.387	5.496	5.600
35	YPR/NPT	I			% CHANGE	3.31	2.4	2.4	2.9	3.1	2.5	2.1	2.2	2.0	1.9
36															
37	CPNPTS	I			202.61	212.1	230.4	262.6	327.8	365.2	390.7	419.5	472.4	500.6	528.4
38	CPNPTS	I			% CHANGE	16.51	4.7	8.6	22.6	16.0	11.4	7.8	12.5	6.0	5.5
39															
40	FRNCS	I			9.061	9.19	9.64	9.77	10.01	9.50	9.26	8.95	8.64	8.37	8.29
41	FRNCS	I			% CHANGE	8.01	10.01	8.63	8.79	8.59	7.99	7.35	7.15	6.97	6.85
42	FRNCS	I			976.211061.3	1152.3	1288.3	1443.7	1619.2	1801.0	1987.2	2174.2	2344.3	2510.6	
43	FRNCS	I			% CHANGE	10.81	6.7	8.6	11.8	12.0	12.2	11.2	10.3	9.4	7.1
44															
45	UNPT	I			6.051	6.19	6.46	5.97	4.61	4.13	3.97	3.82	3.95	4.19	4.32
46	YPR/AVM	I			% CHANGE	5.431	6.08	6.73	6.88	7.26	7.35	7.06	7.54	7.51	7.54
47															
48	GVSNPPS	I			-31.01	-40.6	-63.3	-54.4	-41.5	-31.4	-27.1	-13.2	-9.9	-8.7	-17.2
49	GVSNPPS	I			% CHANGE	27.11	22.9	23.7	26.8	28.9	30.8	32.6	35.1	35.8	38.6
50															
51	UNPT/AVM	I			76.21	76.8	77.0	76.0	75.3	75.0	75.2	74.7	74.6	74.7	74.9
52	UNPT/AVM	I			% CHANGE	11.01	11.0	11.4	12.4	12.8	12.9	12.7	12.9	12.8	12.4

A FURTHER 10% INCREASE IN THE 1980-1988 PERIOD WOULD BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARTER AIRLINES AND INDUSTRY FORECASTING MODEL
HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 2.00 GROSS NATIONAL PRODUCT (CURRENT AND 728)

LINE	VAR	LANE1	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1			-----CURRENT POLLAUS-----											
2														
3														
4	GNPS	I	GROSS NATIONAL PRODUCT	2105.712308.1	2509.9	2805.0	3131.2	3463.8	3793.7	4175.6	4533.5	4880.5	5239.0	
5	GNPS	I	% CHANGE	11.6	9.6	8.7	11.8	11.6	10.6	9.5	10.1	8.6	7.8	7.2
6														
7	CEP	I	PERSONAL CONSUMPTION EXPENDITURES	1136.511465.4	1599.3	1724.7	1762.2	2161.2	2364.4	2585.8	2800.2	3016.4	3229.6	
8	CEP	I	% CHANGE	10.8	9.6	9.1	11.0	10.6	10.1	9.4	9.8	8.3	7.7	7.1
9														
10	CEDS	I	DURABLE GOODS	195.8	209.7	228.3	256.3	284.9	313.2	340.7	375.1	404.4	433.8	460.1
11	CEDS	I	% CHANGE	9.8	7.1	8.8	12.3	11.2	9.9	8.8	10.1	7.8	7.3	6.0
12														
13	CENS	I	NONDURABLE GOODS	523.9	572.1	618.4	677.9	740.4	806.5	873.2	948.4	1013.9	1082.4	1149.2
14	CENS	I	% CHANGE	9.8	9.2	8.1	9.6	9.2	8.9	8.3	8.2	7.4	6.8	6.2
15														
16	CESS	I	SERVICES	616.8	683.6	752.6	840.5	936.9	1041.5	1150.5	1266.3	1381.9	1500.2	1620.4
17	CESS	I	% CHANGE	12.3	10.8	10.1	11.7	11.5	11.2	10.9	10.1	9.1	8.6	8.0
18														
19	IATS	I	GROSS PRIVATE DOMESTIC INVESTMENT	345.7	362.0	388.8	467.4	557.6	631.1	695.9	787.8	852.8	917.0	977.4
20	IATS	I	% CHANGE	16.1	4.7	7.4	20.2	19.3	13.2	10.3	13.2	8.3	7.5	6.6
21														
22	IFIS	I	FIXED INVESTMENT	328.7	350.7	378.1	446.4	527.2	596.7	659.2	745.6	809.2	872.2	931.4
23	IFIS	I	% CHANGE	16.5	6.7	7.8	18.1	18.1	13.2	10.5	13.1	8.5	7.8	6.8
24														
25	IBFIS	I	NONRESIDENTIAL	222.8	247.4	269.8	317.3	370.6	420.5	466.4	518.4	560.1	611.3	666.8
26	IBFIS	I	% CHANGE	16.8	11.3	9.0	17.6	16.8	13.4	10.9	11.1	8.0	9.1	9.1
27														
28	IRFIS	I	RESIDENTIAL STRUCTURES	106.8	103.3	108.3	129.1	156.6	176.2	192.9	227.3	249.2	260.9	264.6
29	IRFIS	I	% CHANGE	15.8	-2.9	4.9	19.2	21.3	12.5	9.4	17.8	9.6	4.7	1.4
30														
31	IBITS	R	CHANGE IN BUSINESS INVENTORIES	17.0	11.2	10.7	21.0	30.3	34.4	36.6	42.1	43.6	44.8	46.1
32														
33	IRBS	I	NET EXPORTS OF GOODS AND SERVICES	-9.9	6.0	10.5	2.6	-4.1	-4.4	-6.4	-4.7	4.9	9.5	13.9
34														
35	IERB	I	EXPORTS	206.8	253.0	283.3	316.1	350.9	390.3	429.0	480.2	537.6	595.9	654.7
36	IERB	I	% CHANGE	17.6	22.6	12.0	11.6	11.0	11.2	9.9	11.9	12.0	10.9	9.9
37														
38	IMBS	I	IMPORTS	216.3	246.9	272.8	313.5	355.0	394.7	435.4	486.9	532.7	586.4	640.8
39	IMBS	I	% CHANGE	15.9	14.2	10.5	14.9	13.2	11.2	10.3	11.4	9.8	10.1	9.3
40														
41	GVPTS	I	GOV'T PURCH OF GOODS AND SERVICES	833.8	874.7	911.3	960.3	1015.5	1075.9	1139.8	1206.8	1275.6	1345.3	1418.0
42	GVPTS	I	% CHANGE	10.8	9.5	7.7	9.6	9.9	9.8	9.5	9.1	8.5	8.0	7.7
43														
44	GVPTS	I	FEDERAL	153.3	167.8	181.0	198.0	216.3	235.6	256.0	277.1	298.1	320.0	342.1
45	GVPTS	I	% CHANGE	5.7	9.5	7.8	9.4	9.2	8.9	8.6	8.2	7.7	7.3	6.9
46														
47	GVPTS	I	STATE AND LOCAL	280.1	306.9	330.3	362.2	399.2	440.2	483.8	529.8	577.3	625.3	675.9
48	GVPTS	I	% CHANGE	12.5	9.8	7.6	9.7	10.2	10.3	9.9	9.5	9.0	8.3	8.1

A PRODUCT OF CHARTER LINES, INC., 3624 ROUTE 97, PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUANTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 2.00 GROSS NATIONAL PRODUCT (CURRENT AND 72S)

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
1	-----CONSTANT 72 DOLLARS-----											
2	-----											
3	-----											
4 GNP	1344.3	1416.7	1449.2	1514.2	1581.0	1637.7	1685.9	1750.7	1803.6	1855.4	1905.3	1955.3
5 GNP	5.9	2.3	2.3	4.5	4.4	3.6	2.9	3.8	3.0	2.9	2.7	2.7
6	-----											
7 CF	888.9	910.9	933.5	969.5	1005.1	1040.0	1072.9	1111.6	1146.3	1181.3	1214.6	1248.6
8 CF	3.6	2.5	2.5	3.9	3.7	3.5	3.2	3.6	3.1	3.1	2.8	2.8
9	-----											
10 CDP	143.3	144.7	149.6	158.7	167.9	175.9	182.9	193.1	200.5	207.6	213.2	213.2
11 CDP	4.0	1.0	3.4	6.1	5.8	4.8	4.0	5.6	3.8	3.6	2.7	2.7
12	-----											
13 CEN	337.9	346.7	354.3	366.2	376.9	387.2	396.7	407.5	417.8	428.3	438.5	438.5
14 CEN	2.3	2.6	2.2	3.4	2.9	2.8	2.4	2.7	2.5	2.5	2.4	2.4
15	-----											
16 CFS	407.6	419.4	429.6	444.6	460.4	476.9	493.4	511.0	528.0	545.3	562.8	562.8
17 CES	4.7	2.9	2.4	3.5	3.6	3.6	3.4	3.6	3.3	3.3	3.2	3.2
18	-----											
19 IAT	210.8	202.7	203.1	227.0	252.3	266.6	275.1	292.4	298.5	304.5	309.2	309.2
20 IAT	7.4	-3.6	0.2	11.8	11.1	5.7	3.2	6.3	2.1	2.0	1.5	1.5
21	-----											
22 IAF	199.6	196.0	196.9	215.4	236.3	249.4	257.7	273.3	279.6	285.8	290.8	290.8
23 IAF	6.5	-1.8	0.4	9.4	9.7	5.5	3.3	6.0	2.3	2.3	1.7	1.7
24	-----											
25 IAFN	140.1	144.5	147.9	161.7	176.1	186.6	193.7	202.5	206.4	213.4	221.1	221.1
26 IAFN	7.9	3.2	2.4	9.3	8.9	6.0	3.8	4.5	2.0	3.4	3.6	3.6
27	-----											
28 IAFR	59.5	51.5	49.0	53.7	60.2	62.8	64.0	70.8	73.1	72.4	69.7	69.7
29 IAFR	3.2	-13.5	-4.9	9.6	12.2	4.3	1.9	10.6	3.3	-1.0	-3.8	-3.8
30	-----											
31 IRIT	11.2	6.7	6.2	11.6	16.0	17.2	17.4	19.1	18.9	18.6	18.8	18.8
32	-----											
33 IAR	9.7	21.1	26.3	24.3	22.4	21.7	20.3	20.9	24.5	26.6	29.6	29.6
34	-----											
35 IER	108.3	125.3	133.5	140.1	146.3	152.9	158.6	168.1	179.1	190.0	200.8	200.8
36 IER	10.2	15.8	6.5	5.0	4.4	4.5	3.7	6.0	6.6	6.1	5.5	5.5
37	-----											
38 IAR	98.6	104.3	107.2	115.8	124.0	131.2	138.2	147.1	154.7	163.4	170.8	170.8
39 IAR	11.1	5.8	2.8	8.0	7.1	5.9	5.4	6.4	5.1	5.6	4.6	4.6
40	-----											
41 GVT	274.9	282.1	286.3	293.3	301.2	309.3	317.5	325.7	334.4	343.0	351.9	351.9
42 GVT	2.1	2.6	1.5	2.4	2.7	2.7	2.6	2.6	2.7	2.6	2.6	2.6
43	-----											
44 GVPF	100.1	102.9	104.7	107.0	109.4	111.8	114.3	116.8	119.4	122.1	124.8	124.8
45 GVPF	-1.5	2.9	1.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
46	-----											
47 GVPF	174.8	179.1	181.6	186.3	191.8	197.5	203.2	208.9	214.9	220.9	227.2	227.2
48 GVPF	4.3	2.5	1.4	2.6	3.0	3.0	2.9	2.8	2.9	2.8	2.8	2.8

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A PRODUCT OF QUANTON INC., INC., 3620 MARKET ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 3.10 PERSONAL CONSUMPTION EXPENDITURES

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	-----CURRENT DOLLARS-----										
2	-----CONSTANT 72 DOLLARS-----										
3 CES	1336.5	1346.5	1599.3	1778.7	1962.2	2161.2	2364.4	2585.8	2800.2	3016.4	3229.6
4	I PERSONAL CONSUMPTION EXPENDITURES										
5 CEDS	195.8	209.7	228.3	256.3	284.9	313.2	340.7	375.1	404.4	433.8	460.1
6 CEDAS	89.1	92.0	101.2	116.9	131.2	143.4	153.1	167.8	179.0	191.0	201.3
7 CEDFS	77.1	84.3	90.4	98.8	108.8	120.6	134.2	149.0	162.7	175.6	187.1
8 CEDDS	29.6	33.4	36.7	40.7	44.8	49.2	53.4	58.2	62.7	67.3	71.7
9	I DURABLE GOODS-----										
10 CENS	523.9	572.1	618.4	677.9	740.4	806.5	873.2	940.4	1013.9	1082.4	1149.2
11 CENFS	268.9	290.0	309.7	337.7	368.0	400.2	433.3	468.1	501.7	534.6	567.0
12 CENCS	88.1	96.6	104.9	115.3	126.2	137.7	149.2	161.3	172.8	184.1	195.1
13 CENFS	50.3	56.6	62.7	69.2	74.8	80.1	84.7	89.1	93.6	98.0	102.0
14 CENFMS	116.6	128.9	141.1	155.8	171.3	188.5	206.0	225.9	245.7	265.7	285.2
15	I OTHER NONDURABLE GOODS-----										
16 CESS	616.8	683.6	752.6	840.5	936.9	1041.5	1150.5	1264.3	1381.9	1500.2	1620.8
17 CFMS	207.0	230.7	252.6	278.7	309.6	343.2	377.9	413.4	448.6	483.0	519.1
18 CFSS	91.9	101.1	110.4	122.0	134.1	147.2	161.0	175.7	189.9	204.2	218.5
19 CESTS	52.7	59.3	65.1	72.9	81.4	90.6	100.1	110.0	120.2	130.8	141.4
20 CESDS	205.1	292.5	324.3	366.9	411.9	460.4	511.4	567.2	623.2	681.4	741.7
21	I SERVICES-----										
22	-----CONSTANT 72 DOLLARS-----										
23	I PERSONAL CONSUMPTION EXPENDITURES										
24 CE	888.9	910.9	933.5	969.5	1005.1	1040.0	1072.9	1111.6	1146.3	1181.3	1214.6
25	I DURABLE GOODS-----										
26 CED	143.3	144.7	149.6	158.7	167.9	175.9	182.9	193.1	200.5	207.6	213.2
27 CEDA	61.1	58.1	59.7	65.3	70.1	72.9	73.9	77.3	78.7	80.3	81.1
28 CEDF	60.0	62.6	64.6	66.8	70.0	74.1	79.0	84.5	89.2	93.5	97.1
29 CEDD	22.3	24.0	25.3	26.5	27.7	28.9	30.0	31.3	32.6	33.8	35.1
30	I OTHER DURABLE GOODS-----										
31 CEN	337.9	346.7	354.3	366.2	376.9	387.2	396.7	407.5	417.8	428.3	438.5
32 CENF	165.0	164.9	164.4	169.6	174.1	178.3	182.1	186.0	189.7	193.5	197.4
33 CENC	70.0	74.1	77.9	81.2	84.4	87.6	90.6	94.1	97.4	100.7	104.1
34 CENF	27.9	29.4	30.6	31.3	31.5	31.5	31.3	31.0	30.8	30.7	30.4
35 CENDM	75.1	78.4	81.3	84.1	86.8	89.8	92.7	96.4	99.9	103.4	106.6
36	I OTHER NONDURABLE GOODS-----										
37 CFS	407.6	419.4	429.6	440.6	460.4	476.9	493.4	511.0	528.0	545.3	562.8
38 CFMS	146.5	150.7	152.7	156.3	161.4	167.0	172.7	178.5	184.3	190.1	196.1
39 CFSS	58.4	61.6	63.9	66.6	69.5	72.4	75.6	78.5	81.4	84.3	87.5
40 CFST	34.2	35.8	36.8	38.2	39.6	41.1	42.3	43.7	45.0	46.3	47.5
41 CFSD	168.6	172.8	178.6	186.2	192.8	199.4	205.9	213.3	220.3	227.5	234.9

WARTON AIRMAIL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 3 26 PERSONAL CONSUMPTION EXPENDITURES, GROWTH RATES

LINE	VAP LABEL	I	T	E	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1																
2																
3	CFS	I	PERSONAL CONSUMPTION EXPENDITURES			10.8	9.6	9.1	11.0	10.6	10.1	9.4	9.4	8.3	7.7	7.1
4																
5	CDS	I	DURABLE GOODS			9.8	7.1	8.8	12.3	11.2	9.9	8.8	10.1	7.8	7.3	6.0
6	CFAS	I	AUTOS AND PARTS			9.4	3.2	10.0	15.5	12.3	9.3	6.7	9.6	6.7	6.7	5.3
7	CFDF	I	FURNITURE AND HOUSEHOLD EQUIP.			8.1	9.4	7.2	9.3	10.2	10.8	11.2	11.1	9.1	7.9	6.6
8	CFDS	I	OTHER DURABLE GOODS			15.5	12.9	10.0	10.8	10.2	9.6	8.7	8.9	7.8	7.2	6.6
9																
10	CNS	I	NONDURABLE GOODS			9.4	9.2	8.1	9.6	9.2	8.9	8.3	8.2	7.4	6.8	6.2
11	CFNF	I	FOOD AND BEVERAGES			9.6	7.8	6.8	9.1	9.0	8.8	8.3	8.0	7.2	6.6	6.0
12	CFNC	I	CLOTHING AND SHOES			8.1	9.6	8.6	9.9	9.5	9.1	8.4	8.1	7.1	6.5	6.0
13	CENG	I	GASOLINE AND OIL			8.4	12.4	10.9	10.2	8.2	7.1	5.8	5.2	5.0	4.7	4.1
14	CENDMS	I	OTHER NONDURABLE GOODS			10.1	10.6	9.4	10.4	10.0	10.0	9.3	9.7	8.8	8.1	7.3
15																
16	CFS	I	SERVICES			12.3	10.8	10.1	11.7	11.5	11.2	10.5	10.1	9.1	8.6	8.0
17	CFSH	I	HOUSING			12.2	11.4	9.6	10.2	11.1	10.9	10.1	9.4	8.5	7.8	7.3
18	CFSS	I	HOUSEHOLD OPERATION SERVICES			12.6	10.1	9.1	10.6	9.9	9.8	9.4	9.1	8.1	7.5	7.0
19	CEST	I	TRANSPORTATION SERVICES			10.3	12.4	9.9	11.9	11.7	11.4	10.5	9.9	9.1	8.8	7.9
20	CESD	I	OTHER SERVICES			11.0	10.3	10.9	13.1	12.3	11.8	11.1	10.9	9.9	9.3	8.9
21																
22																
23																
24	CE	I	PERSONAL CONSUMPTION EXPENDITURES			10.8	2.5	2.5	3.9	3.7	3.5	3.2	3.6	3.1	3.1	2.8
25																
26	CE	I	DURABLE GOODS			4.0	1.0	3.4	6.1	5.8	4.8	4.0	5.6	3.8	3.6	2.7
27	CEDA	I	AUTOS AND PARTS			1.8	-4.8	2.7	9.4	7.3	4.0	1.4	4.6	1.8	2.1	1.0
28	CFDF	I	FURNITURE AND HOUSEHOLD EQUIP.			4.1	4.4	3.1	3.5	4.8	5.8	6.6	7.0	5.6	4.8	3.8
29	CEDD	I	OTHER DURABLE GOODS			10.3	7.8	5.5	4.8	4.5	4.3	3.7	4.5	4.0	3.8	3.7
30																
31	CEN	I	NONDURABLE GOODS			2.1	2.6	2.2	3.4	2.9	2.8	2.4	2.7	2.5	2.5	2.4
32	CFNF	I	FOOD AND BEVERAGES			-0.0	-0.1	-0.3	3.1	2.7	2.4	2.2	2.1	2.0	2.0	2.0
33	CFNC	I	CLOTHING AND SHOES			5.1	5.9	5.1	4.3	3.9	3.7	3.5	3.8	3.5	3.4	3.4
34	CENG	I	GASOLINE AND OIL			4.8	5.3	4.3	2.3	0.7	-0.0	-0.8	-0.9	-0.6	-0.6	-0.9
35	CENDMS	I	OTHER NONDURABLE GOODS			4.3	4.4	3.8	3.4	3.2	3.5	3.1	4.0	3.7	3.5	3.1
36																
37	CES	I	SERVICES			4.7	2.9	2.4	3.5	3.6	3.6	3.4	3.6	3.3	3.3	3.2
38	CESH	I	HOUSING			4.4	2.9	1.3	2.4	3.3	3.5	3.4	3.3	3.2	3.2	3.1
39	CFSS	I	HOUSEHOLD OPERATION SERVICES			5.4	3.0	2.5	3.7	4.2	4.4	4.2	4.3	3.9	3.7	3.6
40	CFST	I	TRANSPORTATION SERVICES			10.9	4.8	2.7	3.9	3.8	3.6	3.1	3.1	3.0	2.9	2.6
41	CFSD	I	OTHER SERVICES			3.5	2.5	3.3	4.3	3.5	3.4	3.3	3.6	3.3	3.3	3.3

A PRODUCT OF WARTON CFA, INC., 3620 JACKET ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARLES ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 3.30 AUTOMOBILE CONSUMPTION

LINE	VAR LABEL	I	T	F	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
AUTOMOBILES (MILLION VEHICLES)																
1																
2																
3	SALE					11.32	10.79	10.91	12.31	13.04	13.29	13.27	13.66	13.56	13.53	13.12
4	STOCK IN USE (END OF YEAR)					103.10	105.00	106.87	110.01	112.79	115.42	117.96	120.29	122.52	124.73	126.65
5	NEW REGISTRATIONS					11.02	10.51	10.62	11.96	12.66	12.89	12.88	13.25	13.15	13.12	12.92
6	ACTUAL SCRAPPAGE					8.90	8.60	8.74	8.82	9.87	10.26	10.94	10.82	10.92	10.91	11.00
7	EXPECTED SCRAPPAGE					8.99	9.19	9.37	9.54	9.74	9.89	9.94	10.04	10.23	10.52	10.81
8	AVG AGE OF THE STOCK (YEARS)					5.44	5.47	5.48	5.43	5.37	5.31	5.29	5.27	5.28	5.31	5.16
9																
PERSONAL CONSUMPTION EXPENDITURES (BILLION 1972 \$)																
10																
11																
12																
13	CEDA					61.11	58.1	59.7	65.3	70.1	72.9	73.9	77.3	78.7	80.3	81.1
14	CEDAV					36.11	32.8	33.0	37.0	40.1	41.7	42.0	44.1	44.6	45.2	45.2
15	CEDAV+T					8.41	9.5	9.5	10.7	11.6	12.2	12.3	12.9	13.1	13.4	13.4
16	CEDAV					8.81	8.7	8.7	8.6	8.8	9.1	9.3	9.6	9.9	10.3	10.6
17	CEDAV					7.81	8.1	8.4	9.1	9.6	9.9	10.2	10.6	11.0	11.5	11.9
18																
19																
20																
21																
22	CEDA					89.11	92.0	101.2	116.9	131.2	143.4	153.1	167.8	179.0	191.0	201.3
23	CEDAV					50.11	48.8	51.9	61.6	69.5	75.5	79.5	86.9	91.3	96.2	99.6
24	CEDAV+T					11.61	12.7	15.2	18.2	21.1	23.5	25.3	28.3	30.3	32.4	34.1
25	CEDAV					17.01	18.9	21.2	22.2	23.9	26.0	28.1	30.8	33.6	36.5	39.5
26	CEDAV					10.41	11.6	13.0	14.9	16.7	18.3	20.1	21.9	23.9	25.9	28.0
27																
28																
29																
30																
31	UCEDAVCS					0.2181	0.232	0.245	0.260	0.275	0.290	0.307	0.326	0.344	0.361	0.381
32	UCEDAVCS					0.0851	0.093	0.100	0.107	0.115	0.122	0.129	0.137	0.145	0.153	0.161
33	UCEDAVCS					0.0461	0.046	0.046	0.045	0.044	0.044	0.045	0.047	0.049	0.051	0.053
34	UCEDAVCS					0.0871	0.094	0.100	0.108	0.116	0.124	0.133	0.142	0.150	0.159	0.167
35																
36																
37	NPTEL					141.21	144.3	147.2	149.9	152.5	154.9	157.2	159.4	161.8	164.1	166.2
38	NPTEL					14.41	14.3	14.2	14.1	14.0	13.9	13.8	13.7	13.6	13.5	13.4
39																
FUEL CONSUMPTION																
40																
41	CEMG					27.91	29.4	30.6	31.3	31.5	31.5	31.3	31.0	30.8	30.7	30.4
42	MPV					19.55	19.73	19.92	19.85	19.79	19.79	19.79	19.79	19.79	19.79	19.79
43	MPG					14.25	15.14	16.24	17.79	19.34	20.88	21.64	22.04	22.24	22.44	22.65
44	MPG					11.29	12.01	12.90	14.16	15.42	16.68	17.32	17.68	17.86	18.08	18.22
45	MPG					20.95	22.22	23.74	25.92	28.05	30.15	31.11	31.52	31.75	31.99	32.23
46	MPGAV					12.81	13.05	13.39	13.87	14.52	15.32	16.20	17.11	18.00	18.85	19.64
47																
48	PUCEAV					4.6681	4.703	4.741	4.839	4.966	5.091	5.152	5.270	5.383	5.494	5.592
49	CEDAV+T					23.16	23.45	23.86	24.06	24.06	24.16	24.26	24.36	24.46	24.56	24.66
50	CEDAV					0.6350	0.6470	0.6532	0.6584	0.6614	0.6614	0.6614	0.6614	0.6614	0.6614	0.6614
51	CEDAV					0.3245	0.3361	0.3462	0.3562	0.3662	0.3762	0.3862	0.3962	0.4062	0.4162	0.4262

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CHAPTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1970

TABLE 1.40 AUTOMOBILE CONSUMPTION, GROWTH RATES

LINE VAR LABEL	UNIT	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
AUTOMOBILES (MILLION VEHICLES)												
1												
2	SAVRRDVA											
3	SAVRRDVA	1.41	-4.6	1.1	12.8	6.0	1.9	-0.1	2.9	-0.7	-0.3	-1.6
4	SAVRRDVA	2.11	1.8	1.8	2.9	2.5	2.3	2.1	2.1	1.9	1.8	1.5
5	INRA	1.41	-4.6	1.0	12.6	5.9	1.8	-0.1	2.9	-0.7	-0.3	-1.5
6	DISAV	1.71	-3.4	1.6	0.9	11.9	3.9	1.7	3.6	0.9	-0.1	0.8
7	DISAEXP	2.71	2.3	1.9	1.4	2.0	1.5	0.6	0.9	2.0	2.8	2.8
8	NAVRAGE	-0.21	0.4	0.3	-0.9	-1.2	-1.0	-0.5	-0.3	0.2	0.5	0.9
PERSONAL CONSUMPTION EXPENDITURES (BILLION 1972 \$)												
10												
11												
12	CEDA	1.81	-4.8	2.7	9.4	7.3	4.0	1.4	4.6	1.8	2.1	1.0
13	CEDA	0.31	-9.1	0.6	11.9	8.4	4.1	0.8	5.0	1.1	1.5	-0.1
14	CEDAVR	0.61	1.4	12.3	12.3	8.8	4.5	1.1	5.3	1.4	1.8	0.2
15	CEDAVR	3.01	-0.2	0.2	-1.4	3.0	3.2	2.2	3.3	3.2	3.1	3.5
16	CEDAVR	2.91	3.1	4.3	8.0	5.2	3.5	3.5	3.6	1.9	1.9	3.9
17	CEDAP											
PERSONAL CONSUMPTION EXPENDITURES (BILLION CURRENT \$)												
19												
20												
21	CEDAS	4.41	3.2	10.0	15.5	12.3	9.3	6.7	9.6	6.7	6.7	5.3
22	CEDAVS	8.41	-2.7	6.3	18.7	12.9	8.6	5.3	9.2	5.1	5.3	3.6
23	CEDAVR	13.61	9.2	19.6	19.8	16.1	11.4	7.7	11.5	7.1	7.1	5.1
24	CEDAVR	9.41	11.6	11.8	4.7	7.9	8.9	8.0	9.4	9.1	8.8	8.2
25	CEDAVS	9.51	11.6	11.9	15.1	11.7	9.8	9.6	9.2	8.9	8.5	8.2
26	CEDAPS											
NEW CAR OPERATING COSTS (DOLLARS PER MILE)												
28												
29												
30	UCCEDACS	6.81	6.4	5.6	5.8	5.9	5.7	5.8	6.0	5.7	5.4	5.1
31	UCCEDACS	11.71	8.7	7.3	7.5	7.2	6.4	5.5	6.1	5.9	5.6	5.5
32	UCCEDACS	-2.41	0.4	-0.9	-1.6	-1.2	-0.9	2.8	4.1	4.6	4.2	3.9
33	UCCEDACS	7.61	7.3	7.0	7.6	7.5	7.4	7.1	6.5	6.0	5.6	5.1
34	UCCEDACS											
35												
NUMBER OF PERSONS (MILLIONS)												
36												
37												
38	NPTLD	2.41	2.2	2.0	1.9	1.7	1.6	1.5	1.5	1.5	1.5	1.2
39	NPTWA	-0.71	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7	-0.7
40												
FUEL CONSUMPTION												
41												
42												
43	CEFC	4.81	5.3	4.3	2.3	0.7	-0.0	-0.8	-0.9	-0.6	-0.6	-0.9
44	MPV	1.91	1.7	1.7	1.3	2.2	2.4	2.0	1.9	2.0	1.7	1.0
45	MPG	6.21	6.3	7.3	9.5	8.7	8.0	3.6	1.8	0.9	0.9	0.9
46	MPGC	6.21	6.4	7.4	9.8	8.9	8.2	3.8	2.1	1.0	1.0	1.0
47	MPGH	6.01	6.1	7.0	9.0	8.2	7.5	3.2	1.3	0.7	0.7	0.7
48	MPGAVG	1.21	1.0	2.6	3.6	4.7	5.5	5.8	5.6	5.2	4.7	4.2
49												
50	PURCHAV	2.71	0.7	1.7	1.2	2.6	2.5	1.2	2.3	2.1	2.1	1.8

A PRODUCT OF CHAPTER 142, VOL. 3626, PAGE 51, P. 111A, OF 10104. LIMITED PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 4.10 FIXED INVESTMENT (CURRENT \$)

LINE	VAR LABEL	I T F H	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	IRFS	I FIXED INVESTMENT	328,740,350.73	378,094,400	446,400	527,240	596,720	659,220	745,610	809,200	872,100	931,410	
2	IRFS	I NONRESIDENTIAL INVESTMENT	222,391,247.44	269,773,317.31	370,654,200	420,490	466,160	510,130	560,050	611,280	666,840		
3	IRFS	I NONRESIDENTIAL INVEST EXCL IMA	166,181,186.82	210,220,249.09	292,573,334.17	372,660	418,200	450,080	492,720	539,150			
4	IRFS	I FARM	13,911	15,950	16,390	20,770	25,790	31,180	36,370	40,200	43,490	46,940	50,630
5	IRFS	I MINING	4,771	5,490	6,440	8,000	9,770	11,170	12,150	13,450	14,910	17,230	19,610
6	IRFS	I TOTAL MANUFACTURING	67,461	76,337	85,570	100,480	117,330	132,590	146,240	161,760	175,160	190,520	206,810
7	IRFS	I DURABLE GOODS	31,441	36,730	41,890	49,540	57,600	64,160	69,910	77,510	84,220	91,190	97,970
8	IRFS	I LUMBER	1,411	1,620	1,750	2,090	2,540	3,030	3,400	3,830	4,210	4,680	5,210
9	IRFS	I FURNITURE	0,291	0,320	0,360	0,440	0,500	0,580	0,600	0,670	0,710	0,780	0,850
10	IRFS	I STONE, CLAY AND GLASS	2,231	2,450	2,860	3,320	4,260	4,980	5,380	6,050	6,770	7,570	8,560
11	IRFS	I PRIMARY METALS	6,411	7,530	8,650	10,330	11,740	13,020	14,160	15,650	16,850	17,770	18,560
12	IRFS	I FABRICATED METAL PRODUCTS	2,561	2,900	3,150	3,750	4,290	4,830	5,310	5,760	6,110	6,460	6,970
13	IRFS	I NONELECTRICAL MACHINERY	6,671	7,850	8,900	10,420	12,250	13,840	15,180	16,920	18,450	20,150	21,860
14	IRFS	I ELECTRICAL MACHINERY	3,531	4,270	4,800	5,860	6,970	7,840	8,550	9,330	10,150	11,170	12,230
15	IRFS	I MOTOR VEHICLES	4,691	5,660	6,700	7,720	8,400	8,480	8,590	10,300	11,520	12,420	13,400
16	IRFS	I MINOR VEHICLES	2,321	2,650	2,990	3,580	4,240	4,830	5,320	5,890	6,390	7,060	7,780
17	IRFS	I INSTRUMENTS	1,331	1,480	1,710	2,020	2,410	2,760	3,050	3,430	3,780	4,130	4,450
18	IRFS	I NONDURABLE GOODS	36,021	39,640	43,680	50,940	59,730	68,430	75,320	84,240	90,930	99,330	108,440
19	IRFS	I FOOD AND BEVERAGES	4,731	5,110	5,680	6,540	7,110	7,660	8,470	9,690	10,870	12,240	13,900
20	IRFS	I TOBACCO	0,261	0,290	0,310	0,350	0,400	0,450	0,510	0,560	0,610	0,690	0,760
21	IRFS	I TEXTILES	1,021	1,120	1,280	1,550	1,880	2,170	2,380	2,620	2,800	3,140	3,140
22	IRFS	I APPAREL	0,401	0,430	0,500	0,590	0,700	0,800	0,900	1,030	1,130	1,250	1,380
23	IRFS	I PAPER	3,871	4,660	5,280	6,100	7,220	8,390	9,440	10,420	11,510	12,730	14,030
24	IRFS	I PRINTING AND PUBLISHING	1,111	1,190	1,360	1,570	1,820	2,080	2,340	2,650	2,930	3,260	3,630
25	IRFS	I CHEMICALS	7,471	8,320	9,540	11,410	13,460	15,840	18,100	20,080	21,880	24,400	26,800
26	IRFS	I PETROLEUM	15,331	16,460	17,380	20,010	23,580	26,930	29,590	31,980	33,440	35,330	37,780
27	IRFS	I RUBBER	1,651	1,870	2,130	2,530	3,270	3,780	4,220	4,800	5,400	6,000	6,550
28	IRFS	I LEATHER	0,171	0,190	0,220	0,270	0,300	0,340	0,370	0,400	0,430	0,450	0,470
29	IRFS	I TRANSPORTATION	8,321	8,670	9,330	10,940	12,060	13,040	14,350	16,120	17,450	20,200	22,850
30	IRFS	I UTILITIES	28,941	32,620	37,280	43,290	50,190	57,210	63,780	70,990	78,950	88,140	92,620
31	IRFS	I COMMUNICATIONS	17,741	20,180	23,490	28,790	34,050	39,250	43,870	48,650	52,850	58,230	64,420
32	IRFS	I COMMERCIAL AND OTHER	81,251	88,140	90,870	105,040	121,460	136,050	149,610	167,190	178,850	194,030	210,310
33	IRFS	I COMMERCIAL	25,041	27,580	31,290	36,820	43,380	49,730	55,910	63,030	68,830	75,470	82,610
34	IRFS	I CONCEPTUAL DIFF, NFA VS IFA	56,211	60,620	59,570	68,220	78,070	86,320	93,710	104,160	110,010	118,560	127,680
35	IRFS	I RESIDENTIAL STRUCTURES	106,351	103,290	108,320	120,090	156,590	176,230	192,860	227,260	249,150	260,900	264,570
36	IRFS	I NONRESIDENTIAL STRUCTURES	103,141	99,720	104,330	124,680	151,730	170,890	187,010	220,880	242,220	253,390	256,450
37	IRFS	I FACTORY/INDUSTRIAL STRUCTURES	1,071	1,280	1,596	2,080	2,190	2,310	2,420	2,540	2,650	2,770	2,890
38	IRFS	I RESIDENTIAL HOUSING	1,741	1,740	2,020	2,340	2,670	3,000	3,430	3,880	4,280	4,780	5,230

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A PORTION OF DATA FOR 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 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2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 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TABLE 4.20 FIXED INVESTMENT, GROWTH RATES

LINE	VAR LABEL	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	IRFS	16.51	6.7	7.8	18.1	18.1	13.2	10.5	13.1	8.5	7.8	6.8
2												
3	IRFNS	16.81	11.3	9.0	17.6	16.8	13.4	10.9	11.1	8.0	9.1	9.1
4												
5	IATGS	11.91	12.4	12.5	16.5	17.5	14.2	11.5	11.1	8.7	9.5	9.4
6												
7	IAGS	9.71	14.7	2.8	26.7	24.1	20.9	16.6	10.5	8.2	7.9	7.9
8	IAMGS	6.01	15.1	17.3	24.3	22.2	14.3	8.7	10.7	10.9	15.5	13.8
9	IAMFS	12.11	13.2	12.0	17.4	16.8	13.0	10.3	10.6	8.3	8.8	8.3
10												
11	IAMFDS	13.21	16.8	14.0	18.3	16.3	11.4	9.0	10.9	8.7	8.3	7.4
12												
13	IAMFDS28	13.61	15.0	8.3	19.0	21.8	18.9	12.5	12.5	9.9	11.3	11.2
14	IAMFDS25	11.01	10.7	12.6	23.0	21.0	8.6	11.7	11.1	6.3	9.4	8.9
15	IAMFDS28	11.91	10.0	16.7	16.2	20.1	16.8	8.1	6.5	5.6	8.7	10.6
16	IAMFDS33	12.81	17.6	14.9	19.3	13.7	11.0	8.7	10.6	7.7	5.5	4.8
17	IAMFDS38	12.01	13.2	8.7	18.9	14.3	12.7	10.0	6.5	5.9	5.8	7.9
18	IAMFDS35	15.81	17.7	13.3	17.1	17.6	13.0	9.7	11.5	9.1	9.2	8.5
19	IAMFDS36	7.71	20.8	12.6	22.0	18.8	12.5	9.1	9.1	8.8	10.0	9.5
20	IAMFDS37	15.51	20.8	18.4	15.2	8.8	0.9	5.5	15.1	11.9	7.7	3.1
21	IAMFDS37SP28	14.71	14.3	12.8	20.1	18.2	13.9	10.2	10.6	8.5	10.4	10.2
22	IAMFDS38	12.21	10.5	16.0	17.9	19.6	14.6	10.4	12.3	10.3	9.3	7.7
23												
24	IAMFNS	11.21	10.0	10.2	16.6	17.3	14.6	11.5	10.4	7.9	9.2	9.2
25												
26	IAMFNS208	13.21	7.9	11.3	15.1	8.7	7.7	10.6	14.9	12.1	12.7	13.5
27	IAMFNS213	9.71	8.7	8.6	11.9	13.2	12.7	12.2	11.4	10.8	10.2	10.4
28	IAMFNS223	11.11	9.9	13.8	21.1	21.4	15.2	9.8	10.3	6.7	6.3	5.4
29	IAMFNS233	8.11	7.9	15.2	19.3	17.2	15.0	13.1	13.8	10.0	10.5	10.1
30	IAMFNS263	15.21	20.4	13.2	15.6	18.3	16.3	12.5	10.5	10.4	10.6	10.2
31	IAMFNS273	9.61	7.8	14.2	15.4	15.7	14.3	12.5	13.3	10.7	11.2	11.3
32	IAMFNS283	9.41	11.4	14.6	19.6	17.9	17.7	14.3	11.0	8.5	11.9	9.8
33	IAMFNS293	10.61	7.3	5.6	15.2	17.8	14.2	9.9	6.1	4.6	5.6	6.9
34	IAMFNS303	13.71	13.3	13.9	18.8	29.4	15.4	11.8	13.7	12.6	11.0	9.2
35	IAMFNS313	7.81	11.1	16.9	20.3	9.6	14.1	10.4	8.6	5.4	5.8	5.5
36												
37	IARGTS	20.01	4.2	7.6	17.2	10.3	8.1	10.1	12.4	10.7	13.2	13.1
38												
39	IARGU93	12.21	12.7	14.3	16.1	15.9	14.0	11.5	11.3	8.4	9.1	10.1
40												
41	IARGC93	14.81	13.8	10.4	20.5	18.3	15.3	11.8	10.9	8.6	10.2	10.6
42												
43	IACHS	25.31	8.5	3.1	15.6	15.6	12.0	10.0	11.7	7.0	8.5	8.4
44	IACHS	9.01	10.0	13.6	17.7	17.8	14.6	12.4	12.7	9.2	9.6	9.5
45	IACHS	30.21	7.9	-1.7	14.5	14.4	10.6	8.6	11.2	5.6	7.8	7.7
46												
47	IAPFS	15.81	-2.9	4.9	19.2	21.3	12.5	9.4	17.8	9.6	4.7	1.4
48												
49	IAPFS	16.01	-3.3	4.6	19.5	21.7	12.6	9.4	18.1	9.7	4.6	1.2
50	IAPFS	-1.41	21.1	10.8	5.8	5.6	5.2	5.0	4.8	4.6	4.4	4.5
51	IAPFS	14.41	2.7	13.1	15.8	14.1	13.7	12.8	12.1	11.4	10.8	10.2

A SUMMARY OF QUANTUM 1970, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 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TABLE 5.10 FIXED INVESTMENT (1972 \$)

LINE	VAP LABEL	I	F	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	INF	I	FIXED INVESTMENT	199.62	196.02	196.89	215.39	236.31	249.39	257.67	273.25	279.55	285.85	290.77
2	INFH	I	NONRESIDENTIAL INVESTMENT	100.00	104.52	147.92	161.70	176.09	186.57	193.67	202.46	206.41	213.40	221.06
3	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
4	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
5	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
6	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
7	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
8	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
9	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
10	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
11	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
12	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
13	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
14	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
15	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
16	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
17	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
18	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
19	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
20	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
21	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
22	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
23	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
24	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
25	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
26	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
27	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
28	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
29	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
30	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
31	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
32	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
33	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
34	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
35	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
36	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
37	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
38	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
39	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
40	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73
41	IAAG	I	HOUSEHOLD INVEST EXCL TRA	104.60	109.11	115.25	126.93	139.00	148.20	154.75	161.78	165.87	172.01	178.73

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QUARTERLY ANNUAL AND INDUSTRY FORECASTING MODEL
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TABLE 5.10 FIXED INVESTMENT (1972 \$)

LINE	VAR LABEL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	ISFR	RESIDENTIAL STRUCTURES	59.51	51.5	49.0	53.7	60.2	62.8	64.0	70.8	73.1	72.4	69.7
2	ISFRU	INDUPAR	57.41	49.3	46.7	51.3	57.8	60.3	61.3	68.0	70.3	69.5	66.6
3	ISFRF	FARM	0.81	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
4	ISFRF	RESIDENTIAL DURABLE EQUIP.	1.31	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2
5	ISFRHNMH	ADDITIONS AND ALTERATIONS	12.91	13.3	14.1	14.4	14.7	14.3	14.2	14.7	14.4	14.1	13.8
6	ISPR	PRIVATE HOUSING STARTS (THOU)	1982.1	1655.	1521.	1700.	1979.	2049.	2115.	2294.	2433.	2395.	2260.
7	ISPR31	SINGLE UNITS	1390.1	1171.	1149.	1245.	1409.	1462.	1496.	1650.	1697.	1654.	1573.
8	ISPRSM	MULTIPLE UNITS	592.1	484.	372.	455.	531.	587.	619.	644.	736.	741.	686.
9	ISPRSM	MORTGAGE HOMES (THOU)	265.1	250.	239.	324.	312.	463.	390.	469.	406.	385.	362.
10	ISPRSM	PUBLIC HOUSING STARTS (THOU)											
11	ISPRSM	SINGLE UNITS	1.1	2.	2.	2.	2.	2.	2.	2.	2.	2.	2.
12	ISPRSM	MULTIPLE UNITS	0.1	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
13	ISPRSM	TOTAL STOCK OF RES UNITS (MILL)	81.631	82.76	83.71	84.90	86.32	87.93	89.50	91.30	93.15	94.92	96.52
14	ISPRSM	SINGLE UNITS	54.141	55.19	56.01	56.93	58.04	59.15	60.30	61.59	62.92	64.20	65.39
15	ISPRSM	MULTIPLE UNITS	22.371	22.58	22.68	22.96	23.12	23.44	23.79	24.16	24.62	25.09	25.50
16	ISPRSM	MORTGAGE HOMES	4.921	4.99	5.02	5.12	5.17	5.35	5.42	5.56	5.61	5.63	5.63
17	ISPRSM	DISCARDS FROM STOCKS (THOU)											
18	ISPRSM	SINGLE UNITS	318.1	324.	331.	335.	341.	347.	354.	361.	368.	376.	384.
19	ISPRSM	MULTIPLE UNITS	268.1	269.	276.	273.	272.	271.	271.	271.	271.	272.	278.
20	ISPRSM	MORTGAGE HOMES	164.1	182.	205.	230.	259.	287.	313.	336.	352.	363.	366.
21	ISPRSM	DISCARD RATES (%)											
22	ISPRSM	SINGLE UNITS	0.5951	0.592	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
23	ISPRSM	MULTIPLE UNITS	1.2141	1.203	1.221	1.204	1.188	1.171	1.155	1.139	1.123	1.106	1.106
24	ISPRSM	TOTAL OCCUPANCY RATE (%)	93.021	93.64	94.44	94.99	95.27	95.32	95.37	95.14	94.81	94.54	94.43
25	ISPRSM	RENTAL HOUSING VACANCY RATE (%)	5.001	4.75	4.24	3.77	3.10	3.32	3.13	2.95	3.22	3.96	4.72
26	ISPRSM	RATIO SINGLE UNITS AND MOBILE HOMES TO TOTAL HOUSING UNITS (%)	72.601	72.71	72.91	73.07	73.22	73.35	73.42	73.54	73.57	73.57	73.50
27	ISPRSM	RATIO OF SINGLE UNITS TO SINGLE UNITS PLUS MOBILE HOMES (%)	91.701	91.71	91.77	91.75	91.82	91.71	91.75	91.73	91.81	91.94	92.08
28	ISPRSM	CHANGE IN BUS. INVENTORIES	11.151	6.67	6.18	11.63	16.01	17.23	17.49	19.14	16.91	16.65	18.44
29	ISPRSM	FARM	-0.701	-0.12	0.25	0.85	0.82	-0.17	0.05	0.17	0.13	0.10	0.10
30	ISPRSM	AUTO-DEALER	-0.101	0.14	0.04	0.36	0.35	0.72	0.84	0.82	0.60	0.54	0.60
31	ISPRSM	MANUFACTURING	6.511	2.97	3.23	6.09	7.99	8.02	7.65	8.68	8.76	8.67	8.80
32	ISPRSM	MANUFACTURING	5.451	3.70	2.66	4.73	7.65	8.66	8.91	9.47	9.42	9.33	8.94
33	ISPRSM	MANUFACTURING	11.451	6.80	5.93	11.18	15.99	17.40	17.40	18.97	18.78	18.55	18.34

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A PRODUCT OF CHARTERSEA, INC., 3629 ADAM ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1979

TABLE 5.20 FIXED INVESTMENT, GROWTH RATES

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	IRF	I FIXED INVESTMENT	6.51	-1.8	0.4	9.0	9.7	5.5	3.3	6.0	2.3	2.3	1.7
2													
3	IRFH	I NONRESIDENTIAL INVESTMENT	7.91	3.2	2.4	9.3	8.9	6.0	3.8	4.5	2.0	3.4	3.6
4													
5	IATAG	I NONRESIDENTIAL INVEST EXCL IHA	2.61	4.2	5.6	10.1	9.5	6.7	4.4	4.5	2.5	3.7	3.9
6													
7	IAG	B FARM	-7.61	6.3	-3.5	17.8	15.7	12.9	9.2	4.0	2.1	2.2	2.4
8	IAMF	B MINING	-2.11	6.7	10.1	15.5	13.9	6.4	1.8	4.1	4.6	9.4	8.0
9	IAMF	I TOTAL MANUFACTURING	3.61	5.0	5.2	9.1	8.9	5.5	3.2	4.0	2.2	3.0	2.9
10	IAMF	I DURABLE GOODS	4.61	8.3	7.1	9.9	8.8	4.0	2.0	4.3	2.5	2.6	2.0
11	IAMF24	B LUMBER	5.01	6.6	1.7	10.6	13.6	11.1	5.3	5.8	3.7	5.5	5.6
12	IAMF25	B FURNITURE	2.61	2.6	5.7	14.3	4.4	1.4	4.6	4.5	0.1	3.7	3.4
13	IAMF32	B STONE, CLAY AND GLASS	3.41	2.0	9.6	8.0	19.5	9.1	1.2	0.1	-0.3	2.9	5.0
14	IAMF33	B PRIMARY METALS	4.21	9.0	7.9	10.9	6.0	3.6	1.8	4.0	1.6	-0.1	-0.9
15	IAMF34	B FABRICATED METAL PRODUCTS	3.51	5.0	2.0	10.5	6.5	5.3	2.9	2.0	-0.0	0.3	2.4
16	IAMF36	B ELECTRICAL MACHINERY	-0.51	12.0	5.7	13.4	10.8	5.1	2.1	2.7	2.7	4.2	4.0
17	IAMF35	B NONELECTRICAL MACHINERY	7.01	9.2	6.4	8.8	9.6	5.5	2.6	4.8	2.9	3.4	3.0
18	IAMF37	B MOTOR VEHICLES	6.71	12.0	11.2	7.1	1.4	-5.7	-1.3	8.3	5.5	2.1	-2.1
19	IAMF37P2	B MINIAUTO TRANS ED + MISC	5.91	6.0	5.9	11.6	10.2	6.4	3.1	4.1	2.4	4.6	4.7
20	IAMF38	B INSTRUMENTS	3.61	2.5	8.9	9.6	11.5	7.0	3.3	5.6	4.1	3.6	2.2
21	IAMF20	B DURABLE GOODS	2.81	2.0	3.4	6.4	9.3	7.0	4.4	3.8	1.9	3.5	3.7
22	IAMF21	B FOOD AND BEVERAGES	4.61	0.0	4.5	7.0	1.3	0.6	3.5	7.6	5.8	6.7	7.8
23	IAMF22	B TEXTILES	1.41	0.8	2.0	5.9	5.5	0.6	5.2	4.7	4.5	4.3	4.8
24	IAMF23	B APPAREL	-2.71	1.9	6.8	12.6	13.2	7.6	2.7	3.7	0.7	0.7	0.1
25	IAMF26	B PAPER	-0.11	0.0	8.2	10.9	9.3	7.4	5.8	7.1	3.8	4.6	4.6
26	IAMF27	B PRINTING AND PUBLISHING	6.51	11.7	6.3	7.4	10.3	8.6	5.2	3.9	4.2	4.8	4.6
27	IAMF28	B CHEMICALS	1.21	-0.1	7.2	7.3	7.9	6.8	5.3	6.6	4.4	5.3	5.6
28	IAMF29	B PETROLEUM	1.11	3.3	7.6	11.2	9.9	9.9	6.9	4.4	2.4	6.0	4.3
29	IAMF30	B RUBBER	2.21	-0.5	-0.9	7.0	9.9	6.6	2.9	1.6	-1.3	0.1	1.5
30	IAMF31	B LEATHER	5.11	5.1	7.0	10.4	20.6	7.8	4.6	6.9	6.2	5.1	3.7
31	IAMF31	B LEATHER	-0.41	3.0	9.7	11.8	2.1	6.6	3.3	2.1	-0.5	0.2	0.2
32													
33	IARGT	B TRANSPORTATION	10.91	-3.4	1.0	9.0	2.8	0.9	3.0	5.7	4.5	7.2	7.4
34	IARGH9	B UTILITIES	3.61	4.5	7.3	7.9	8.1	6.5	4.3	4.7	2.3	3.6	4.5
35	IARGC48	B COMMUNICATIONS	6.11	5.5	11.2	12.0	10.2	7.7	4.6	4.3	2.5	4.8	5.1
36	IACD	I COMMERCIAL AND OTHER	15.81	0.6	-3.2	7.4	7.8	4.6	2.9	5.1	0.9	2.8	2.9
37	IACH	B COMMERCIAL	0.71	1.9	6.7	9.3	9.9	7.1	5.2	6.0	3.0	3.0	4.0
38	IAC	B CONCEPTUAL DIFF, RES VS MIA	27.61	-0.0	-7.7	6.4	6.7	3.3	1.6	4.5	-0.3	2.1	2.3
39													
40	IRFR	I RESIDENTIAL STRUCTURES	3.21	-13.5	-8.9	9.6	12.2	4.3	1.9	10.6	3.3	-1.0	-3.8
41	IRFRN	I HIGH-APR	3.21	-14.1	-5.3	9.9	12.5	4.3	1.8	10.9	3.3	-1.1	-4.1
42	IRFE	E FARM	-9.21	8.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
43	IRFE	E RESIDENTIAL DURABLE EQUIP.	9.71	-2.4	7.7	7.2	6.7	6.3	5.9	5.6	5.3	5.0	4.8
44	IRFRN24	B ADDITIONS AND ALTERATIONS	-6.61	2.8	5.7	2.6	1.7	-2.3	-1.1	3.9	-2.4	-2.3	-1.7
45													
46	HSPR	I PRIVATE HOUSING STARTS	-0.21	-16.5	-8.1	11.8	16.8	3.5	3.2	8.5	6.1	-1.6	-5.6
47	HSPR1	B SINGLE UNIT	-0.21	-15.7	-1.9	8.4	16.8	0.9	2.3	10.3	2.8	-2.5	-4.9
48	HSPR2	B MULTIPLE UNIT	10.51	-18.3	-23.1	22.3	16.6	10.7	5.5	4.0	18.4	0.6	-7.4
49	HSPR3	I PRIVATE HOUSING STARTS	0.31	-16.7	-8.2	11.9	16.6	3.6	3.3	8.5	6.1	-1.6	-5.7
50	HSPR4	E PRIVATE HOUSING STARTS	-33.81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
51	HSPR5	B MULTIPLE UNIT	-4.21	-5.4	-8.5	36.0	-3.9	8.8	-15.8	20.2	-13.8	-5.2	-6.1

A PROPORTION OF THE DATA FOR 1979 AND 1980 WERE OBTAINED FROM THE BUREAU OF ECONOMIC ANALYSIS, DEPARTMENT OF COMMERCE. THE REMAINING DATA WERE OBTAINED FROM THE BUREAU OF ECONOMIC ANALYSIS, DEPARTMENT OF COMMERCE.

QUANTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 6.10 IMPORTS AND EXPORT DEFATORS

LINE	VAP LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
---CURRENT DOLLARS (BILL)---												
1	I TOTAL GOODS AND SERVICES	216.31	246.9	272.8	313.5	355.0	394.7	435.4	484.9	532.7	584.4	640.6
2	I MERCHANDISE TOTAL, HUP BASIS	175.81	196.5	216.2	248.8	282.4	315.1	348.6	390.4	429.7	473.4	519.0
3	F MERCH. DIFF BETWEEN CEN & POP	-3.41	-3.9	-3.9	-3.9	-3.9	-3.9	-3.9	-3.9	-3.9	-3.9	-3.9
4	I MERCHANDISE, TOTAL	172.41	192.6	212.3	244.9	278.5	311.3	344.8	386.5	425.8	467.3	515.1
5	R FUND AND REVENUES	15.41	15.6	16.6	19.1	19.8	21.9	23.7	26.9	30.1	33.1	36.2
6	R CRUDE MATERIALS EXPECT FUELS	9.71	10.2	11.2	12.9	15.2	16.9	18.6	20.5	22.2	23.9	26.1
7	FUELS	43.21	51.0	59.0	66.8	77.6	86.9	96.4	106.2	116.8	128.1	140.3
8	I MANUFACTURED GOODS	104.11	115.8	125.6	144.0	165.7	186.2	206.1	232.9	256.7	284.5	312.6
9	9 TMCST5.95	82.81	93.4	101.2	116.2	134.7	152.6	170.6	194.3	215.8	241.2	267.4
10	I MFG GOODS EXC AUTOS & PARTS	21.31	22.3	24.3	27.9	31.0	33.6	35.6	38.7	40.9	43.1	45.2
11	I AUTOS AND PARTS	10.71	11.0	12.0	13.7	15.1	16.2	17.0	18.3	19.1	20.0	20.7
12	I NONCANADIAN	10.51	11.4	12.3	14.2	16.0	17.4	18.6	20.4	21.8	23.2	24.5
13	I CANADIAN	45.41	54.1	58.0	66.1	74.1	80.9	88.2	95.9	104.4	114.4	123.2
14	I SERVICES, TOTAL	21.21	25.7	25.8	30.7	34.8	37.8	40.9	43.9	47.3	51.9	55.2
15	B PAYMENTS ON FOREIGN ASSETS	2.21	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
16	F REINVESTED EARNINGS	6.31	9.5	10.6	11.5	12.9	14.1	15.5	17.1	18.6	20.5	22.2
17	R TRAVEL	3.31	4.0	4.5	5.0	5.4	5.8	6.3	6.9	7.5	8.2	8.9
18	R TRANSPD PASSENGER FARES	8.01	9.7	11.3	12.6	14.0	15.6	17.2	19.0	21.0	23.1	25.3
19	R TRANSPORTATION, OTHER	4.71	5.2	5.8	6.4	7.0	7.6	8.3	9.0	9.8	10.7	11.7
20	E OTHER	6.61	7.2	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9
21	E TRANSFER UNDER MILITARY AGENCY	-0.81	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9	-0.9
22	E DIFF BETWEEN HUP & MIA	8.51	7.3	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
23	E INT PAID BY GOVT TO FOREIGNERS	-16.71	-0.3	5.6	-2.3	-9.0	-9.2	-11.2	-9.6	0.1	4.6	9.0
24	I BAL. ON CURRENT ACCOUNT											
---CONSTANT 1972 DOLLARS---												
26	I TOTAL GOODS AND SERVICES	98.61	104.3	107.2	115.0	124.0	131.2	138.2	147.1	154.7	163.4	170.8
27	I MERCHANDISE TOTAL, HUP BASIS	69.11	70.4	71.3	76.2	81.1	85.5	89.5	95.3	99.5	104.3	108.7
28	I MERCHANDISE, TOTAL	67.61	69.0	70.0	75.0	80.0	84.8	88.5	94.3	98.6	103.5	107.9
29	I FOOD AND BEVERAGES	7.51	7.4	7.4	7.9	7.6	7.6	7.9	8.5	8.9	9.2	9.5
30	I CRUDE MATERIALS EXPECT FUELS	2.51	2.4	2.5	2.7	3.0	3.1	3.2	3.3	3.4	3.5	3.6
31	I FUELS	9.21	10.1	10.9	12.0	12.8	13.6	14.3	15.0	15.7	16.4	17.2
32	I MANUFACTURED GOODS	48.61	49.1	49.1	52.4	56.6	60.1	63.1	67.5	70.6	74.3	77.4
33	I SERVICES, TOTAL	32.31	35.6	36.2	39.9	43.1	46.0	49.0	52.1	55.4	59.3	62.4
34	I TRANSFER UNDER MILITARY AGENCY	4.71	4.7	4.9	4.7	4.6	4.5	4.4	4.3	4.2	4.1	4.0
---DEFATORS (1972=100)---												
36	I TOTAL GOODS AND SERVICES	219.41	236.9	254.6	270.8	286.4	300.8	315.0	329.6	344.4	358.9	375.1
37	I MERCHANDISE TOTAL, HUP BASIS	250.31	279.0	303.4	326.4	348.1	368.8	389.5	409.7	431.7	453.9	477.6
38	I MERCHANDISE, TOTAL	204.81	210.5	223.2	241.5	260.1	279.1	298.2	318.0	338.2	358.3	379.3
39	F CRUDE FUELS	290.11	293.4	309.5	335.0	360.9	387.9	415.3	442.7	471.0	499.3	529.0
40	F FUELS	148.11	155.5	165.8	185.2	193.2	206.9	220.6	235.1	250.0	264.7	280.0
41	F MANUFACTURED GOODS	393.01	419.0	445.2	477.7	511.0	542.9	579.0	615.6	652.0	688.5	727.0
42	F FUELS	470.41	506.5	538.8	574.9	608.4	641.1	673.2	706.8	742.0	778.8	817.5
43	I MANUFACTURED GOODS	214.01	235.7	255.8	274.7	292.6	309.7	326.9	344.9	363.7	382.9	403.0
44	I SERVICES, TOTAL	270.71	301.6	338.7	372.6	402.4	426.5	450.0	474.1	499.4	525.4	552.2
45	E TRANSFER UNDER MILITARY AGENCY	196.21	215.1	229.8	248.0	258.3	273.1	288.3	304.4	321.2	338.2	356.2
46	E INT PAID BY GOVT TO FOREIGNERS	140.41	151.9	160.3	165.9	171.7	175.8	179.9	184.1	188.5	192.9	197.4
---ADDITIONAL DATA---												
50	I POP SERVICES & OTHER (1972=1)	30.81	35.2	37.2	40.7	43.9	46.8	49.7	52.8	56.0	59.9	63.0
51	I POP SERVICES, OTHER (1972=1)	43.91	50.3	60.5	68.6	76.5	83.8	90.6	98.4	106.9	114.9	125.7

A REPORT ON QUANTON, INC., 4200 W. 20TH ST., DALLAS, TX 75210 OFFICE PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH-LEVEL PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 6.20 IMPORTS & EXPORT DEFATIONS, GROWTH RATES

LINE	VAR LABEL	I	V	F	U	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
---CURRENT DOLLARS (MILL)---																
1	I	TOTAL GOODS AND SERVICES-----														
2	IMHS	15.91	14.2	10.5	14.9	13.2	11.2	10.3	11.4	9.8	10.1	9.3				
3	IMHGTENDS	15.91	11.8	10.0	15.1	13.5	11.6	10.6	12.0	10.1	10.2	9.6				
4	IMHGS	-10.61	13.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
5	IMHGTGTS	16.61	11.7	10.2	15.3	13.7	11.8	10.8	12.1	10.2	10.3	9.7				
6	IMHGTGTS18	9.01	1.7	6.4	15.2	3.6	7.4	11.1	13.7	11.7	10.1	9.3				
7	IMHGTGTS4S	18.01	4.9	9.2	15.6	17.9	11.2	9.9	10.1	8.7	7.3	9.4				
8	IMHGTGTS13	-2.21	18.0	15.6	16.7	13.0	11.7	10.9	10.2	9.9	9.7	9.5				
9	IMHGTGTS15.9S	28.01	11.2	8.5	14.7	15.1	12.3	10.7	13.0	10.2	10.6	9.9				
10	IMHGTGTS15.9UGT13S	32.21	12.8	8.3	14.8	15.9	13.3	11.8	13.9	11.1	11.8	10.9				
11	IMHGTGTS13S	13.91	5.0	9.0	14.5	11.4	8.4	5.8	8.7	5.7	5.8	4.4				
12	IMHGTGTS13S	12.71	2.0	9.8	13.5	10.4	7.4	4.8	7.7	4.7	4.7	3.3				
13	IMHGTGTS13S	15.11	8.1	8.2	15.5	12.3	9.3	6.7	9.6	6.7	6.7	5.3				
14	IMHGS	25.01	19.1	7.3	13.9	12.0	9.3	8.9	8.8	7.7	9.6	6.3				
15	IMHGS1F	45.51	21.1	0.3	18.9	13.5	6.7	8.1	7.3	7.7	9.8	6.3				
16	IMHGS1F8	18.41	19.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
17	IMHGS1F8	11.01	14.9	11.7	8.1	12.1	9.5	10.0	10.2	9.9	9.1	8.4				
18	IMHGS1F8S	15.01	21.3	13.9	10.2	6.4	7.9	8.0	8.9	9.5	8.9	8.4				
19	IMHGS1F8S	9.71	21.3	16.8	11.9	10.9	11.1	10.3	10.8	10.2	10.2	9.3				
20	IMHGS1F8S	11.41	12.2	11.5	9.6	9.0	9.0	9.0	9.0	9.0	9.0	9.0				
21	IMHGS1F8S	14.41	8.9	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
---CONSTANT 1972 DOLLARS---																
23	I	TOTAL GOODS AND SERVICES-----														
24	IMH	11.11	5.8	2.8	6.0	7.1	5.9	5.4	6.4	5.1	5.6	4.6				
25	IMHGTENDS	9.81	1.9	1.2	7.0	6.4	5.3	4.7	6.4	4.4	4.8	4.2				
26	IMHGT	10.51	1.0	1.4	7.2	6.6	5.5	4.9	6.6	4.5	4.9	4.3				
27	IMHGT10.1	8.71	-1.1	0.4	6.4	-3.8	0.0	3.9	6.7	5.1	4.0	3.2				
28	IMHGT24	14.71	-1.6	2.8	7.7	10.2	4.7	3.1	1.5	2.6	1.6	3.6				
29	IMHGT3	-6.01	9.7	8.7	9.4	6.8	6.0	5.7	5.0	4.7	4.5	4.3				
30	IMHGT5.9	14.31	1.0	-0.0	6.8	8.0	6.2	4.9	7.1	4.5	5.3	4.4				
31	IMHGS	20.81	10.1	1.6	10.1	8.2	6.8	6.4	6.3	6.4	7.1	5.2				
32	IMHDE	10.61	0.7	4.2	-3.4	-3.4	-2.3	-2.3	-2.3	-2.3	-2.3	-2.3				
---DEFLATORS (1972=100)---																
34	I	TOTAL GOODS AND SERVICES-----														
35	PTMGT	4.31	7.9	7.5	6.4	5.8	5.0	4.7	4.7	4.5	4.2	4.5				
36	PTMGT	5.51	9.7	8.7	7.6	6.6	5.9	5.6	5.2	5.4	5.1	5.2				
37	PTMGT	0.21	2.8	6.0	8.2	7.7	7.3	6.9	6.6	6.3	5.9	5.9				
38	PTMGTFC	-2.71	1.1	5.5	8.2	7.7	7.5	7.0	6.6	6.4	6.0	5.9				
39	PTMGTFC	4.31	5.0	6.6	8.3	7.6	7.1	6.6	6.7	6.2	5.9	5.8				
40	PTMGTFC	2.91	6.6	6.3	7.3	7.0	6.2	6.6	6.3	5.9	5.6	5.6				
41	PTMGTFC	4.11	7.6	6.4	6.7	5.8	5.4	5.0	5.0	5.0	5.0	5.0				
42	PTMGTFC	12.01	10.2	8.5	7.4	6.5	5.8	5.5	5.5	5.4	5.3	5.2				
43	PTMGTFC	8.01	11.4	12.3	10.0	8.0	6.0	5.5	5.4	5.3	5.2	5.1				
44	PTMGTFC	13.71	9.6	6.8	6.2	5.8	5.0	5.6	5.6	5.5	5.3	5.3				
45	PTMGTFC	3.41	8.2	5.6	3.5	3.5	2.3	2.3	2.3	2.3	2.3	2.3				
---DEFENSE---																
47	I	TOTAL SERVICES & DEFENSE-----														
48	IMHGS1F8	12.61	14.5	5.5	9.6	7.9	6.5	6.2	6.1	6.2	6.9	5.1				
49	IMHGS1F8	13.21	23.8	11.3	13.4	11.5	9.0	8.7	8.5	8.6	9.4	7.5				

A PRODUCT OF QUARTERLY ECONOMIC MODEL, 3620 MARKET ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WARTON ANNUAL AND INDUSTRY FORECASTING MODEL
NIGHT 4 PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 7.00 IMPORTS FIELDS DETAIL

LINE	VAR LABEL	I T F M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
COAL, COKE, ETC.													
1													
2													
3	THOCT132	E	4.71	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
4	THOCT132	E	1.31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5													
6	PUTMCG132V	E	51.451	56.39	59.50	62.77	66.22	69.87	73.71	77.76	82.04	86.55	91.31
7	PUTMCG132V	E	8.81	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
8													
9	THOCT132S	I	0.251	0.27	0.28	0.30	0.31	0.33	0.35	0.37	0.39	0.41	0.43
10	THOCT132S	I	10.21	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
11													
12	PTMCG132	I	180.41	190.4	200.9	211.9	223.6	235.8	248.8	262.5	276.9	292.2	308.2
13	PTMCG132	I	8.81	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
14													
15	THOCT132	I	0.141	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
16	THOCT132	I	1.31	-0.0	-0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17													
CRUDE PETROLEUM													
18													
19													
20	THOCT1331	E	220.71	245.0	260.0	289.4	313.4	335.6	358.5	376.3	398.1	416.5	436.5
21	THOCT1331	E	-8.01	11.4	8.4	9.0	8.0	7.0	6.5	5.6	5.3	5.0	4.8
22													
23	PUTMCG1331	E	14.551	15.71	16.65	17.73	18.80	19.83	20.82	21.86	22.96	24.10	25.31
24	PUTMCG1331	E	3.91	8.0	6.0	6.5	6.0	5.5	5.0	5.0	5.0	5.0	5.0
25													
26	THOCT1331S	I	32.081	38.57	44.24	51.41	58.87	66.44	74.30	82.38	91.09	100.43	110.51
27	THOCT1331S	I	-4.51	20.2	14.8	16.1	14.5	12.9	11.8	10.9	10.6	10.3	10.0
28													
29	PTMCG1331	I	452.71	488.8	518.0	551.6	584.9	617.0	647.8	680.2	714.2	749.9	787.4
30	PTMCG1331	I	3.91	8.0	6.0	6.5	6.0	5.5	5.0	5.0	5.0	5.0	5.0
31													
32	THOCT1331	I	7.091	7.89	8.55	9.32	10.06	10.77	11.47	12.11	12.75	13.39	14.03
33	THOCT1331	I	-8.01	11.4	8.4	9.0	8.0	7.0	6.5	5.6	5.3	5.0	4.8
34													
35													
REFINED RESIDUAL FUEL & OIL													
36													
37	THOCT1332W	E	511.01	531.0	550.0	580.2	609.9	639.6	669.8	699.8	729.8	759.8	789.8
38	THOCT1332W	E	3.71	3.9	3.6	5.5	5.1	4.9	4.7	4.5	4.3	4.1	3.9
39													
40	PUTMCG1332W	E	10.601	11.24	11.85	12.47	13.12	13.81	14.54	15.30	16.11	16.96	17.85
41	PUTMCG1332W	E	0.21	6.0	5.4	5.2	5.2	5.2	5.1	5.3	5.3	5.3	5.3
42													
43	THOCT1332W	I	5.421	5.97	6.52	7.23	8.00	8.83	9.74	10.71	11.76	12.88	14.10
44	THOCT1332W	I	3.91	10.2	9.2	11.0	10.6	10.4	10.2	10.0	9.8	9.6	9.4
45													
46	PTMCG1332W	I	583.11	618.3	651.8	685.8	721.7	759.5	799.5	841.6	886.0	932.7	981.8
47	PTMCG1332W	I	0.21	6.0	5.4	5.2	5.2	5.2	5.3	5.3	5.3	5.3	5.3
48													
49	THOCT1332W	I	0.931	0.97	1.00	1.05	1.11	1.16	1.22	1.27	1.33	1.38	1.44
50	THOCT1332W	I	3.71	3.9	3.6	5.5	5.1	4.9	4.7	4.5	4.3	4.1	3.9

4 PRODUCT OF WARTON, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 2946, 2947, 2948, 2949, 2950, 2951, 2952, 2953, 2954, 2955, 2956, 2957, 2958, 2959, 2960, 2961, 2962, 2963, 2964, 2965, 2966, 2967, 2968, 2969, 2970, 2971, 2972, 2973, 2974, 2975, 2976, 2977, 2978, 2979, 2980, 2981, 2982, 2983, 2984, 2985, 2986, 2987, 2988, 2989, 2990, 2991, 2992, 2993, 2994, 2995, 2996, 2997, 2998, 2999, 3000, 3001, 3002, 3003, 3004, 3005, 3006, 3007, 3008, 3009, 3010, 3011, 3012, 3013, 3014, 3015, 3016, 3017, 3018, 3019, 3020, 3021, 3022, 3023, 3024, 3025, 3026, 3027, 3028, 3029, 3030, 3031, 3032, 3033, 3034, 3035, 3036, 3037, 3038, 3039, 3040, 3041, 3042, 3043, 3044, 3045, 3046, 3047, 3048, 3049, 3050, 3051, 3052, 3053, 3054

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 7.00 IMPORTS/ FUELS DETAIL

LINE	VAR LABEL	I T E M	1974	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1													
2		OTHER OFFSHORE PRODUCTS											
3													
4	IMOG130T	E MILL HARPELS-----	302.01	314.0	325.0	331.5	338.1	344.9	351.8	358.8	366.0	373.1	380.8
5	IMOG130T	E % CHANGE-----	0.11	4.0	3.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
6													
7	PUMCG130T	E UNIT PRICE, \$/HARREL-----	8.991	9.53	10.05	10.60	11.19	11.80	12.45	13.13	13.86	14.62	15.42
8	PUMCG130T	E % CHANGE-----	2.91	6.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
9													
10	IMCG130T	I VALUE, BILL CURRENT \$-----	2.711	2.99	3.27	3.51	3.78	4.07	4.38	4.71	5.07	5.46	5.87
11	IMCG130T	I % CHANGE-----	3.11	10.2	9.2	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
12													
13	PTMCG130T	I UNIT VALUE INDEX, 1972=100-----	483.61	512.6	540.6	570.3	601.7	634.8	669.7	706.6	745.4	786.4	829.7
14	PTMCG130T	I % CHANGE-----	3.01	6.0	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
15													
16	IMCG130T	I VALUE, BILL 72\$-----	0.561	0.58	0.60	0.62	0.63	0.64	0.65	0.67	0.68	0.69	0.71
17	IMCG130T	I % CHANGE-----	0.11	4.0	3.5	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
18													
19		NATURAL GAS											
20													
21	IMOG134	E MILL CURRIC FEET-----	1000.01	1050.0	1400.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0	1800.0
22	IMOG134	E % CHANGE-----	-0.91	5.0	33.3	28.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23													
24	PUMCG134	E UNIT PRICE, CTS/THOU CURRIC FEET	277.11	306.2	330.7	354.3	377.9	401.5	425.1	448.7	472.3	495.9	520.7
25	PUMCG134	E % CHANGE-----	10.01	10.5	8.0	7.1	6.7	6.2	5.9	5.6	5.3	5.0	5.0
26													
27	IMCG134\$	I VALUE, BILL CURRENT \$-----	2.771	3.22	4.63	6.18	6.80	7.23	7.65	8.08	8.50	8.91	9.37
28	IMCG134\$	I % CHANGE-----	9.01	16.0	44.0	37.7	6.7	6.2	5.9	5.6	5.3	5.0	5.0
29													
30	PTMCG134	I UNIT VALUE INDEX, 1972=100-----	502.21	654.4	706.8	757.2	807.7	858.1	908.6	959.0	1009.4	1059.9	1112.9
31	PTMCG134	I % CHANGE-----	10.01	10.5	8.0	7.1	6.7	6.2	5.9	5.6	5.3	5.0	5.0
32													
33	IMCG134	I VALUE, BILL 72\$-----	0.471	0.49	0.66	0.84	0.84	0.84	0.84	0.84	0.84	0.84	0.84
34	IMCG134	I % CHANGE-----	-0.91	5.0	33.3	28.6	0.0	-0.0	0.0	0.0	-0.0	0.0	-0.0

A PRODUCT OF WHARTON E&A, INC., 3624 MARKET ST. PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HICP: PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 8.10 EXPORTS AND EXPORT DEFATORS

LINE	VAR LABEL	I	T	F	A	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
---CURRENT DOLLARS (BILL)---																
1	I TOTAL GOODS AND SERVICES	206.4	253.0	283.5	316.1	350.9	390.3	429.0	480.2	537.6	595.9	654.7				
2	I MERCHANDISE TOTAL, NOP BASIS	142.1	176.3	196.7	220.2	245.0	275.7	305.5	344.8	386.8	430.1	473.9				
3	E DIFF BETWEEN CENSUS & NOP	-0.6	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4	-0.4				
4	I MERCHANDISE TOTAL	141.6	175.9	196.3	219.8	244.6	275.3	305.1	344.4	386.4	429.7	473.5				
5	I FOOD & BEVERAGES	21.6	24.2	26.8	29.9	32.3	34.9	38.2	42.0	45.9	50.4	56.4				
6	I AGRIC EXP UNDER PL AND	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6				
7	I CRUDE MATERIALS EXCEPT FUELS	16.9	19.5	19.9	21.7	23.6	26.4	29.3	32.5	35.6	38.6	41.5				
8	I FUELS	3.6	3.9	3.9	4.4	4.8	5.5	6.2	7.0	7.8	8.7	9.6				
9	I MANUFACTURED GOODS	99.5	128.2	145.6	163.9	183.9	208.6	231.4	262.9	297.1	332.0	366.0				
10	I AUTOS & PARTS, END-USE	78.9	104.4	119.1	135.5	153.3	174.2	195.5	223.4	253.9	285.2	315.5				
11	E CIVIL AIRCRAFT & PARTS, END-USE	14.1	17.2	19.3	20.9	22.7	24.6	26.7	29.1	31.4	33.7	36.1				
12	I SERVICES TOTAL	56.0	66.6	71.1	75.5	79.9	84.4	89.2	94.0	98.8	103.6	108.4				
13	I RECEIPTS ON US INVEST ABROAD	66.0	77.2	86.2	95.1	104.9	113.3	121.9	133.5	148.6	163.3	178.0				
14	I TRAVEL	39.7	47.7	53.9	59.3	64.7	68.4	72.0	77.9	87.1	95.5	103.4				
15	E REINVESTED EARNINGS	8.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5				
16	I TRANSPORTATION, OTHER	7.1	8.1	9.0	9.7	10.9	11.8	12.9	14.1	15.5	17.1	18.0				
17	I PASSENGER FARES	1.5	1.6	1.9	2.1	2.5	2.9	3.3	3.8	4.3	4.9	5.5				
18	I OTHER	7.7	9.1	10.0	11.2	12.5	14.0	15.6	17.4	19.3	21.4	23.5				
19	I TRANSFER UNDER US MIL AGENCY	10.0	10.6	11.4	12.8	14.4	16.2	18.2	20.3	22.4	24.5	26.7				
20	E TRANSFER UNDER US MIL AGENCY	8.2	9.0	9.9	10.2	10.5	10.8	11.1	11.4	11.7	12.0	12.3				
21	E DIFF BETWEEN NOP & CIA	-1.2	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0				
---CONSTANT 1972 DOLLARS---																
22	I TOTAL GOODS AND SERVICES	108.3	125.3	133.5	140.1	146.3	152.9	158.6	168.1	179.1	190.0	200.4				
23	I MERCHANDISE TOTAL, NOP BASIS	73.3	88.1	86.9	90.5	94.9	100.4	104.8	111.8	119.2	126.5	133.6				
24	I MERCHANDISE TOTAL	73.3	88.1	86.9	90.5	94.9	100.4	104.8	111.8	119.2	126.5	133.6				
25	I FOOD & BEVERAGES	11.5	12.9	14.1	14.9	15.2	15.5	16.0	16.6	17.3	18.4	19.9				
26	I CRUDE MATERIALS EXCEPT FUELS	7.5	7.7	7.1	7.3	7.2	7.5	7.8	8.0	8.3	8.6	8.8				
27	I FUELS	1.5	1.4	1.3	1.3	1.3	1.4	1.5	1.6	1.7	1.8	1.9				
28	I MANUFACTURED GOODS	52.8	60.9	63.5	67.2	71.0	75.8	79.4	85.4	91.7	97.7	102.8				
29	I SERVICES TOTAL	35.0	41.9	46.6	48.5	50.5	51.5	52.7	55.0	58.7	62.1	65.5				
30	I RECEIPTS ON US INVEST ABROAD	4.4	4.9	5.4	5.2	5.0	4.9	4.8	4.7	4.6	4.6	4.5				
31	I TRAVEL	19.7	21.9	21.2	22.5	23.9	25.5	27.0	28.5	30.0	31.5	32.6				
32	I TRANSPORTATION, OTHER	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3				
33	I PASSENGER FARES	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3				
34	I OTHER	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2				
35	I TRANSFER UNDER US MIL AGENCY	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2				
---DEFATORS (1972=100)---																
36	I TOTAL GOODS AND SERVICES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
37	I MERCHANDISE TOTAL, NOP BASIS	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
38	I MERCHANDISE TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
39	I FOOD & BEVERAGES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
40	I CRUDE MATERIALS EXCEPT FUELS	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
41	I FUELS	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
42	I MANUFACTURED GOODS	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
43	I SERVICES TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
44	I RECEIPTS ON US INVEST ABROAD	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
45	I TRAVEL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
46	I TRANSPORTATION, OTHER	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
47	I PASSENGER FARES	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
48	I OTHER	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
49	I TRANSFER UNDER US MIL AGENCY	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
---ADDITIONAL---																
50	I EX RATE 7 COUNTRY CTD AVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
51	I 100 POINT 7 COUNTRY CTD AVE	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
52	I 100 POINT PRICE INDEX	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
53	I 100 SERVICES & OTHER (1972=1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
54	I 100 SERVICES & OTHER (1972=1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				
55	I 100 SERVICES & OTHER (1972=1)	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0				

A CONTINUED ON QUARTERLY, PAGES 50-51, 52-53, 54-55, 56-57, 58-59, 60-61, 62-63, 64-65, 66-67, 68-69, 70-71, 72-73, 74-75, 76-77, 78-79, 80-81, 82-83, 84-85, 86-87, 88-89, 90-91, 92-93, 94-95, 96-97, 98-99, 100-101, 102-103, 104-105, 106-107, 108-109, 110-111, 112-113, 114-115, 116-117, 118-119, 120-121, 122-123, 124-125, 126-127, 128-129, 130-131, 132-133, 134-135, 136-137, 138-139, 140-141, 142-143, 144-145, 146-147, 148-149, 150-151, 152-153, 154-155, 156-157, 158-159, 160-161, 162-163, 164-165, 166-167, 168-169, 170-171, 172-173, 174-175, 176-177, 178-179, 180-181, 182-183, 184-185, 186-187, 188-189, 190-191, 192-193, 194-195, 196-197, 198-199, 200-201, 202-203, 204-205, 206-207, 208-209, 210-211, 212-213, 214-215, 216-217, 218-219, 220-221, 222-223, 224-225, 226-227, 228-229, 230-231, 232-233, 234-235, 236-237, 238-239, 240-241, 242-243, 244-245, 246-247, 248-249, 250-251, 252-253, 254-255, 256-257, 258-259, 260-261, 262-263, 264-265, 266-267, 268-269, 270-271, 272-273, 274-275, 276-277, 278-279, 280-281, 282-283, 284-285, 286-287, 288-289, 290-291, 292-293, 294-295, 296-297, 298-299, 300-301, 302-303, 304-305, 306-307, 308-309, 310-311, 312-313, 314-315, 316-317, 318-319, 320-321, 322-323, 324-325, 326-327, 328-329, 330-331, 332-333, 334-335, 336-337, 338-339, 340-341, 342-343, 344-345, 346-347, 348-349, 350-351, 352-353, 354-355, 356-357, 358-359, 360-361, 362-363, 364-365, 366-367, 368-369, 370-371, 372-373, 374-375, 376-377, 378-379, 380-381, 382-383, 384-385, 386-387, 388-389, 390-391, 392-393, 394-395, 396-397, 398-399, 400-401, 402-403, 404-405, 406-407, 408-409, 410-411, 412-413, 414-415, 416-417, 418-419, 420-421, 422-423, 424-425, 426-427, 428-429, 430-431, 432-433, 434-435, 436-437, 438-439, 440-441, 442-443, 444-445, 446-447, 448-449, 450-451, 452-453, 454-455, 456-457, 458-459, 460-461, 462-463, 464-465, 466-467, 468-469, 470-471, 472-473, 474-475, 476-477, 478-479, 480-481, 482-483, 484-485, 486-487, 488-489, 490-491, 492-493, 494-495, 496-497, 498-499, 500-501, 502-503, 504-505, 506-507, 508-509, 510-511, 512-513, 514-515, 516-517, 518-519, 520-521, 522-523, 524-525, 526-527, 528-529, 530-531, 532-533, 534-535, 536-537, 538-539, 540-541, 542-543, 544-545, 546-547, 548-549, 550-551, 552-553, 554-555, 556-557, 558-559, 560-561, 562-563, 564-565, 566-567, 568-569, 570-571, 572-573, 574-575, 576-577, 578-579, 580-581, 582-583, 584-585, 586-587, 588-589, 590-591, 592-593, 594-595, 596-597, 598-599, 600-601, 602-603, 604-605, 606-607, 608-609, 610-611, 612-613, 614-615, 616-617, 618-619, 620-621, 622-623, 624-625, 626-627, 628-629, 630-631, 632-633, 634-635, 636-637, 638-639, 640-641, 642-643, 644-645, 646-647, 648-649, 650-651, 652-653, 654-655, 656-657, 658-659, 660-661, 662-663, 664-665, 666-667, 668-669, 670-671, 672-673, 674-675, 676-677, 678-679, 680-681, 682-683, 684-685, 686-687, 688-689, 690-691, 692-693, 694-695, 696-697, 698-699, 700-701, 702-703, 704-705, 706-707, 708-709, 710-711, 712-713, 714-715, 716-717, 718-719, 720-721, 722-723, 724-725, 726-727, 728-729, 730-731, 732-733, 734-735, 736-737, 738-739, 740-741, 742-743, 744-745, 746-747, 748-749, 750-751, 752-753, 754-755, 756-757, 758-759, 760-761, 762-763, 764-765, 766-767, 768-769, 770-771, 772-773, 774-775, 776-777, 778-779, 780-781, 782-783, 784-785, 786-787, 788-789, 790-791, 792-793, 794-795, 796-797, 798-799, 800-801, 802-803, 804-805, 806-807, 808-809, 810-811, 812-813, 814-815, 816-817, 818-819, 820-821, 822-823, 824-825, 826-827, 828-829, 830-831, 832-833, 834-835, 836-837, 838-839, 840-841, 842-843, 844-845, 846-847, 848-849, 850-851, 852-853, 854-855, 856-857, 858-859, 860-861, 862-863, 864-865, 866-867, 868-869, 870-871, 872-873, 874-875, 876-877, 878-879, 880-881, 882-883, 884-885, 886-887, 888-889, 890-891, 892-893, 894-895, 896-897, 898-899, 900-901, 902-903, 904-905, 906-907, 908-909, 910-911, 912-913, 914-915, 916-917, 918-919, 920-921, 922-923, 924-925, 926-927, 928-929, 930-931, 932-933, 934-935, 936-937, 938-939, 940-941, 942-943, 944-945, 946-947, 948-949, 950-951, 952-953, 954-955, 956-957, 958-959, 960-961, 962-963, 964-965, 966-967, 968-969, 970-971, 972-973, 974-975, 976-977, 978-979, 980-981, 982-983, 984-985, 986-987, 988-989, 990-991, 992-993, 994-995, 996-997, 998-999, 1000-1001, 1002-1003, 1004-1005, 1006-1007, 1008-1009, 1010-1011, 1012-1013, 1014-1015, 1016-1017, 1018-1019, 1020-1021, 1022-1023, 1024-1025, 1026-1027, 1028-1029, 1030-

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A FACTOR OF 60 TO 70 PERCENT IN THE PERMISSIVE MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUANTUM ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 1		9.00 IP INDICES, CONSUMER AND WHOLESALE PRICE INDICES (1967=100)												PAGE 19	
		1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989													
		CONSUMER PRICE INDICES													
		ALL ITEMS													
		CHANGE													
1	PC	105.3	211.4	227.1	243.6	260.9	279.0	297.1	315.1	332.1	348.3	363.7			
2	PC	7.6	8.2	7.5	7.2	7.1	6.9	6.5	6.0	5.4	4.9	4.4			
3	PCCF	211.2	225.8	242.3	255.7	271.2	288.2	305.6	323.8	340.6	355.6	369.2			
4	PCCF	9.9	6.9	7.3	5.5	6.1	6.3	6.1	5.9	5.2	4.4	3.8			
5	PCS	210.9	230.5	250.2	267.1	285.2	304.9	325.0	344.9	365.0	385.4	405.3			
6	PCS	8.5	9.3	8.6	6.7	6.8	6.9	6.6	6.1	5.8	5.6	5.2			
7	PCSR	164.0	176.7	189.9	200.6	213.3	227.9	243.4	260.5	279.4	297.2	312.0			
8	PCSR	6.8	7.7	7.5	5.6	6.4	6.8	6.8	7.0	7.3	6.4	5.0			
		WHOLESALE PRICE INDICES													
		ALL COMMODITIES													
		CHANGE													
9	PM	208.9	222.1	236.6	249.7	264.1	278.1	292.2	307.2	321.6	334.8	347.6			
10	PM	7.6	6.3	6.5	5.5	5.8	5.3	5.1	5.1	4.7	4.1	3.8			
		TOTAL MANUFACTURES, BY DURABILITY													
		CHANGE													
11	PMDF	203.9	217.4	229.2	243.4	257.9	273.0	289.2	305.6	321.4	336.2	350.6			
12	PMDF	7.2	6.6	5.5	6.2	5.9	5.9	5.9	5.7	5.2	4.6	4.3			
13	PMDF	194.6	208.7	222.5	234.4	247.3	260.2	273.3	286.8	300.1	312.5	324.6			
14	PMDF	7.7	7.3	6.6	5.3	5.5	5.2	5.0	5.0	4.6	4.2	3.9			
		FIN GOODS BY P. S., CONSUMERS													
		CHANGE													
15	PMDF	192.6	206.0	219.1	230.3	242.4	254.5	266.7	279.5	291.9	303.4	314.5			
16	PMDF	7.6	7.0	6.3	5.1	5.3	5.0	4.8	4.8	4.4	4.0	3.6			
		FIN GOODS BY P. S., PRODUCERS													
		CHANGE													
17	PMDF	199.2	215.4	231.7	247.3	262.4	277.8	293.6	309.4	325.2	340.5	355.6			
18	PMDF	7.9	8.2	7.5	6.7	6.1	5.9	5.7	5.4	5.1	4.7	4.4			
		CRUDE MATERIALS, BY PROC. STAGE													
		CHANGE													
19	PMDF	239.4	252.0	269.5	285.2	305.4	326.6	348.7	373.6	396.1	414.1	429.8			
20	PMDF	11.7	5.2	6.9	5.8	7.1	7.0	6.8	7.1	6.0	4.6	3.8			
		INTERMEDIATE MAT., BY PROC. STAGE													
		CHANGE													
21	PMDF	214.8	227.2	242.0	255.1	269.5	282.3	295.4	309.1	322.4	335.0	347.6			
22	PMDF	6.5	5.8	6.5	5.4	5.6	4.8	4.6	4.6	4.3	3.9	3.7			
		FRB INDUSTRIAL PRODUCTION INDEX													
		CHANGE													
23	IP	145.0	151.3	155.8	164.1	172.9	180.5	187.0	195.3	202.3	208.9	215.2			
24	IP	5.7	4.4	3.0	5.3	5.4	4.4	3.6	4.4	3.6	3.3	3.0			
		MANUFACTURING													
		CHANGE													
25	IPMF	105.0	152.3	157.1	164.8	173.5	180.9	187.1	195.1	201.7	208.0	213.9			
26	IPMF	6.1	4.8	3.1	4.9	5.3	4.3	3.4	4.3	3.4	3.1	2.8			
		DURABLES													
		CHANGE													
27	IPMF	139.1	146.7	151.5	160.5	170.7	178.7	184.7	193.3	199.6	205.3	210.5			
28	IPMF	7.8	5.4	3.3	6.0	6.3	4.7	3.4	4.6	3.3	2.8	2.5			
		NONDURABLES													
		CHANGE													
29	IPMF	150.5	160.5	165.1	171.0	177.5	184.0	190.5	197.7	204.9	211.9	218.8			
30	IPMF	4.3	3.9	2.9	3.5	3.8	3.7	3.5	3.7	3.6	3.5	3.2			
		MINING AND UTILITIES													
		CHANGE													
31	IPMF	101.1	143.5	146.9	156.0	168.7	177.7	185.8	196.5	206.2	215.7	224.9			
32	IPMF	3.6	1.7	2.4	7.6	6.7	5.4	4.6	5.7	4.9	4.6	4.2			
		MINING													
		CHANGE													
33	IPMF	123.7	124.3	125.3	130.4	142.5	148.8	154.0	161.9	168.3	174.5	180.5			
34	IPMF	5.0	0.5	0.8	7.3	6.0	4.4	3.5	5.1	4.0	3.7	3.4			
		UTILITIES													
		CHANGE													
35	IPMF	160.4	165.0	171.1	184.3	197.8	209.9	221.3	235.1	248.8	261.7	274.4			
36	IPMF	2.5	2.9	3.7	7.7	7.4	6.1	5.4	6.2	5.6	5.4	4.8			

A PRODUCT OF QUANTUM E&A, INC., 3624 MARKET ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHAPTER ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 10.10 REAL OUTPUT (1972 \$)

LINE	VAR LABEL	J	T	F	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GDP					1384.3	1416.7	1449.2	1514.2	1581.0	1637.7	1685.9	1750.7	1803.6	1855.4	1905.3
2						34.9	35.0	35.1	36.9	38.7	40.1	41.2	42.7	44.1	45.5	47.0
3	XVAGAG					20.8	21.6	22.3	23.5	24.9	25.9	26.8	28.1	29.1	30.1	31.1
4	XVAGMG															
5	XVAGMG															
6																
7	XVAGMG10					1.2	1.2	1.3	1.4	1.5	1.6	1.6	1.6	1.7	1.7	1.8
8	XVAGMG11					3.7	3.8	3.9	4.2	4.5	4.7	4.9	5.2	5.4	5.6	5.8
9	XVAGMG13					13.3	13.9	14.4	15.1	16.0	16.6	17.2	18.0	18.6	19.3	19.9
10	XVAGMG14					2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.3	3.4	3.5	3.6
11																
12	XVAGMF					142.4	156.9	169.5	189.9	211.9	228.4	241.2	260.8	274.8	288.0	300.3
13																
14	XVAGMFD					203.4	213.0	221.3	234.9	249.9	260.3	267.8	280.3	288.3	295.7	302.4
15	XVAGMFN					139.0	143.9	148.2	155.0	162.1	168.1	173.4	180.5	186.5	192.3	197.8
16																
17	XVAGRG1					53.1	53.7	53.9	56.4	59.1	61.4	63.2	65.8	67.9	69.8	71.6
18																
19	XVAGRGCB					46.0	48.7	51.6	57.1	58.5	61.9	64.7	68.3	72.1	76.2	81.1
20																
21	XVAGRG109					32.1	32.9	33.9	35.6	37.5	38.9	40.2	41.7	43.2	44.7	45.9
22																
23	XVAGCO					686.7	697.1	709.0	737.9	769.8	797.1	821.1	852.5	878.2	903.7	927.8
24																
25	XVAGCM					678.3	687.4	698.1	727.1	759.1	786.3	810.4	841.2	866.1	890.8	914.1
26	XVAGCC					57.8	55.5	54.0	56.7	60.1	61.9	62.7	65.0	65.4	65.7	66.0
27	XVAGFI					214.5	221.4	225.8	233.0	241.8	250.3	258.4	267.6	275.9	284.3	292.4
28	XVAGFI65+6					161.0	165.3	168.1	172.8	179.1	185.1	191.0	197.5	203.5	209.5	215.3
29	XVAGFI-65+6					53.6	56.2	57.6	60.2	62.8	65.2	67.4	70.0	72.4	74.8	77.0
30	XVAGSV					168.9	167.4	170.7	178.1	185.9	192.9	199.6	207.5	214.6	221.9	229.0
31	XVAGMR					237.0	243.2	247.6	259.3	271.2	281.2	289.7	301.1	310.1	318.9	326.8
32	XVAGMRP52.9					142.0	145.6	147.6	154.2	161.0	166.9	172.0	178.7	183.9	189.0	193.5
33	XVAGMRW50+1					95.0	97.6	100.0	105.1	110.2	114.3	117.8	122.4	126.2	129.9	133.3
34	XVAGRW					8.0	9.6	10.9	10.8	10.8	10.8	10.7	11.2	12.2	12.9	13.7
35																
36	XVAGGV					168.3	170.9	173.9	176.8	180.6	184.1	187.8	190.8	194.1	197.3	200.5
37																
38	XVAGGVG					149.9	152.9	156.4	158.5	161.8	164.2	166.9	169.6	172.8	175.1	177.9
39	XVAGGVFE					8.9	8.6	8.0	8.6	8.9	9.1	9.3	9.5	9.7	9.8	10.0
40	XVAGGVSE					9.6	9.4	9.1	9.7	10.2	10.7	11.2	11.7	12.0	12.4	12.7
41																
42	DUMMY INDUSTRIES															
43																
44	XVAGTTH					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45	XVAGTIVA					0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

A PRODUCT OF UNADRON LFA, INC., 3624 MARKET ST., PHILA., PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 REGULAR PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

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TABLE 10.10 REAL OUTPUT (1972 \$)

LINE	VAR LABEL	I	T	F	P	1974	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	XVGMF	I				302.4	356.9	364.5	389.9	411.9	428.4	441.2	460.8	474.8	488.0	500.3
2																
3	XVGMFD	I				203.4	233.0	221.3	234.9	249.9	260.3	267.8	280.3	288.3	295.7	302.4
4																
5	XVGMFD24	R				10.0	10.4	11.0	11.7	12.5	13.1	13.5	14.1	14.7	15.3	15.9
6	XVGMFD25	R				5.2	5.4	5.7	6.0	6.4	6.7	7.0	7.4	7.7	8.0	8.2
7	XVGMFD32	R				10.8	11.3	11.7	12.1	12.7	13.1	13.5	14.1	14.5	14.8	15.2
8	XVGMFD33	R				20.8	21.8	22.6	23.9	25.3	25.9	26.0	26.8	26.9	26.8	26.8
9	XVGMFD34	R				21.0	21.9	22.8	24.0	25.4	26.4	26.9	28.0	28.6	29.1	29.5
10	XVGMFD35	R				37.6	39.4	41.6	44.7	48.1	50.3	51.9	54.4	55.9	57.3	58.5
11	XVGMFD36	R				32.7	34.9	35.6	37.8	40.2	42.2	43.9	46.2	47.9	49.6	51.3
12	XVGMFD37	R				34.8	35.4	37.0	39.5	42.3	44.2	45.6	48.1	49.6	51.0	52.1
13	XVGMFD38	R				9.1	9.6	10.0	10.6	11.2	11.7	12.2	12.8	13.2	13.7	14.1
14	XVGMFD37SP2	I				21.4	22.8	23.2	24.5	25.8	26.6	27.3	28.4	29.3	30.1	30.8
15	XVGMFD37SP1	R				15.9	17.0	17.4	18.4	19.3	19.9	20.3	21.2	21.7	22.3	22.8
16	XVGMFD39	R				5.4	5.7	5.9	6.1	6.4	6.7	7.0	7.3	7.6	7.8	8.0
17																
18	XVGMFH	I				139.0	143.9	148.2	155.0	162.1	168.1	173.4	180.5	186.5	192.3	197.8
19																
20	XVGMFN20	R				32.7	33.5	33.6	34.7	35.8	36.7	37.5	38.4	39.3	40.1	40.9
21	XVGMFN21	R				4.9	5.0	5.1	5.4	5.6	5.8	6.0	6.3	6.6	6.9	7.1
22	XVGMFN22	R				10.0	10.4	10.6	11.2	11.8	12.3	12.7	13.3	13.8	14.2	14.6
23	XVGMFN23	R				12.5	12.9	13.4	14.0	14.7	15.2	15.7	16.4	16.9	17.5	18.0
24	XVGMFN26	R				12.8	13.3	13.6	14.5	15.3	16.0	16.6	17.4	18.1	18.7	19.3
25	XVGMFN27	R				16.9	17.7	18.7	19.4	20.2	20.9	21.6	22.4	23.1	23.7	24.4
26	XVGMFN28	R				27.2	28.1	29.1	30.5	32.1	33.6	34.8	36.6	38.1	39.6	41.1
27	XVGMFN29	R				9.0	9.4	9.7	10.2	10.6	11.0	11.2	11.7	12.0	12.4	12.7
28	XVGMFN30	R				10.7	11.1	11.6	12.4	13.2	13.8	14.3	15.0	15.6	16.1	16.6
29	XVGMFN31	R				2.4	2.5	2.6	2.7	2.8	2.9	2.9	3.0	3.1	3.1	3.2
30																
31	XVGRGI	I				53.1	53.7	53.9	56.4	59.1	61.4	63.2	65.8	67.9	69.8	71.6
32																
33	XVGRGI41	R				2.9	2.7	2.5	2.5	2.6	2.6	2.6	2.6	2.6	2.6	2.6
34	XVGRGI42	R				24.2	24.6	24.9	26.0	27.3	28.3	29.2	30.4	31.3	32.1	32.8
35	XVGRGI43	R				9.8	9.9	10.0	10.5	11.0	11.3	11.6	12.0	12.3	12.6	12.8
36	XVGRGI44	R				3.3	3.3	3.3	3.4	3.5	3.6	3.7	3.9	4.0	4.2	4.3
37	XVGRGI45	R				9.9	10.2	10.3	10.9	11.5	12.1	12.6	13.3	13.9	14.4	14.9
38	XVGRGI46	R				1.2	1.2	1.2	1.2	1.3	1.4	1.4	1.5	1.6	1.6	1.7
39	XVGRGI47	R				1.8	1.8	1.8	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.5

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MANITON ANNUAL AND INDUSTRY FORECASTING MODEL
 UPPER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

LINE	VAR LABEL	I T F N	TABLE	10.20 REAL OUTPUT, GROWTH RATES	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GDP	I ALL INDUSTRIES			3.0	2.3	2.3	4.5	4.4	3.6	2.9	3.8	3.0	2.9	2.7
2	XVGCAG	P AGRIC. FORESTRY AND FISHERIES			-9.6	0.4	0.2	5.3	4.8	3.6	2.8	3.6	3.2	3.2	3.3
3	XVGMG	I MINING			4.9	3.5	3.3	5.5	5.7	4.2	3.4	4.9	3.7	3.5	3.3
4	XVGMG10	B METAL MINING			6.7	-0.5	5.0	8.6	8.4	4.3	1.2	3.8	1.5	2.1	4.9
5	XVGMG11+12	B COAL MINING			5.9	4.2	3.0	6.6	6.8	5.2	4.3	5.6	4.4	3.9	3.5
6	XVGMG13	B CRUDE PETROLEUM AND NATURAL GAS			4.3	4.6	3.1	5.3	5.4	4.1	3.3	4.7	3.7	3.5	3.0
7	XVGMG14	B MINING OF NONMETALLIC MINERALS			5.6	-1.3	3.2	3.9	4.7	3.9	3.4	4.9	4.1	3.5	3.5
8	XVGMF	I MANUFACTURING			6.2	4.2	3.5	5.5	5.7	4.0	3.0	4.4	3.0	2.8	2.5
9	XVGMFD	I DURABLE GOODS			6.6	4.7	3.9	6.1	6.4	4.2	2.9	4.7	2.9	2.6	2.3
10	XVGMFII	I NONDURABLE GOODS			5.8	3.5	3.0	4.6	4.6	3.7	3.2	4.1	3.3	3.1	2.9
11	XVGRCT	I TRANSPORTATION			2.2	1.2	0.4	4.6	4.9	3.8	3.0	4.1	3.2	2.8	2.5
12	XVGRCA0	B COMMUNICATIONS			9.4	6.1	5.9	10.6	2.3	5.8	4.5	5.6	5.6	5.8	6.4
13	XVGRCA9	B UTILITIES			6.8	2.3	3.0	5.2	5.1	3.8	3.3	3.8	3.6	3.4	2.7
14	XVGC0	I COMMERCIAL AND OTHER			4.8	1.5	1.7	4.1	4.3	3.5	3.0	3.8	3.0	2.9	2.7
15	XVGC0M	I CONTRACT CONSTRUCTION			4.7	1.3	1.6	4.2	4.4	3.6	3.1	3.8	3.0	2.9	2.6
16	XVGC0C	I FINANCE, INSURANCE & REAL ESTATE			3.8	-4.0	-2.7	5.0	6.1	3.0	1.3	3.7	0.6	0.5	0.5
17	XVGF165+6	B REAL ESTATE & COMMUNICATIONS OFFICES			4.5	3.2	2.0	3.2	3.8	3.5	3.2	3.5	3.1	3.0	2.8
18	XVGF1-65+6	B OTHER FINANCE			5.1	2.7	1.7	2.8	3.6	3.4	3.2	3.4	3.0	2.9	2.8
19	XVGSV	B SERVICES			3.0	4.9	2.6	4.5	4.3	3.8	3.5	3.9	3.4	3.3	3.0
20	XVGSV	B SERVICES			6.2	-0.9	2.0	4.3	4.4	3.8	3.4	4.0	3.4	3.4	3.2
21	XVGSV	I WHOLESALE AND RETAIL TRADE			4.0	2.6	1.8	4.7	4.6	3.7	3.1	3.9	3.0	2.8	2.5
22	XVGSV	B RETAIL TRADE			5.6	2.5	1.4	4.5	4.4	3.6	3.1	3.9	2.9	2.8	2.4
23	XVGSV	B WHOLESALE TRADE			1.7	2.7	2.5	5.1	4.9	3.7	3.0	4.0	3.1	2.9	2.6
24	XVGSV	B WEST OF WORLD			14.3	14.0	13.1	-0.5	-0.7	0.7	-1.2	4.7	6.3	6.4	6.0
25	XVGSV	I GOVERNMENT			1.6	1.5	1.8	1.6	2.2	1.9	1.8	1.8	1.7	1.6	1.6
26	WACR0V	B GENERAL GOVERNMENT			1.8	2.0	2.3	1.3	1.9	1.7	1.7	1.6	1.6	1.6	1.6
27	XVGSVE	B FEDERAL ENTERPRISES			-2.1	-2.7	-3.0	3.3	3.3	2.5	1.8	2.3	1.6	1.4	1.6
28	XVGSVE	B STATE AND LOCAL ENTERPRISES			1.7	-1.5	-3.0	5.7	5.9	5.0	4.2	4.3	3.3	2.8	2.2

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CHARTER ANNUAL AND INDUSTRY FORECASTING MODEL
 HITCHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 10.20 REAL OUTPUT, GROWTH RATES

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	XVGMF1	6.21	4.2	3.5	5.5	5.7	4.0	3.0	4.4	3.0	2.8	2.5
2	XVGMF2	6.61	4.7	3.9	6.1	6.4	4.2	2.9	4.7	2.9	2.6	2.3
3	XVGMF3	8.01	4.0	5.2	6.7	7.3	4.6	3.1	4.0	4.6	4.1	4.0
4	XVGMF4	5.41	4.1	5.1	4.6	6.5	5.0	4.6	6.5	4.0	3.2	2.3
5	XVGMF5	4.01	4.7	3.8	3.3	4.7	3.5	2.6	4.7	2.7	2.4	2.3
6	XVGMF6	3.41	4.7	3.8	5.6	5.8	2.5	0.5	3.0	0.4	-0.5	-0.1
7	XVGMF7	4.51	4.6	3.8	5.6	5.8	3.6	2.2	4.0	2.0	1.8	1.5
8	XVGMF8	7.71	5.0	5.6	7.3	7.5	4.7	3.1	4.9	2.8	2.5	2.1
9	XVGMF9	8.51	6.6	2.1	6.1	6.4	5.0	4.1	5.2	3.7	3.6	3.4
10	XVGMF10	8.41	1.7	4.6	6.8	6.9	4.5	3.2	5.4	3.2	2.9	2.2
11	XVGMF11	4.41	5.5	3.7	5.8	6.1	4.5	3.6	5.0	3.7	3.4	3.1
12	XVGMF12	4.91	6.6	2.0	5.6	5.1	3.2	2.5	4.2	2.9	2.7	2.5
13	XVGMF13	5.51	7.0	2.0	5.9	5.2	2.9	2.2	4.0	2.6	2.6	2.4
14	XVGMF14	3.11	5.5	2.0	4.8	5.1	4.2	3.5	4.8	3.7	3.1	2.8
15	XVGMF15	5.41	3.5	3.0	4.6	4.6	3.7	3.2	4.1	3.3	3.1	2.9
16	XVGMF16	4.81	2.5	0.3	3.2	3.1	2.6	2.2	2.5	2.2	2.1	2.0
17	XVGMF17	3.41	3.6	2.6	4.5	4.4	4.0	3.4	4.9	4.4	4.1	3.6
18	XVGMF18	9.31	3.5	3.3	4.8	4.6	3.8	3.4	4.1	3.4	3.3	3.1
19	XVGMF19	7.41	4.5	3.5	5.4	5.5	4.4	3.6	4.8	4.0	3.4	3.2
20	XVGMF20	7.11	5.0	5.4	4.1	4.1	3.4	3.0	3.8	3.1	2.9	2.7
21	XVGMF21	6.51	3.4	3.5	5.0	5.2	4.5	3.8	5.0	4.2	3.9	3.6
22	XVGMF22	3.51	3.8	4.0	4.4	4.3	3.3	2.6	3.8	3.0	2.9	2.6
23	XVGMF23	3.11	3.4	5.0	6.5	6.4	4.7	3.6	5.1	3.6	3.4	2.9
24	XVGMF24	6.41	5.6	3.2	3.1	2.9	2.5	2.2	2.8	2.4	2.3	2.1
25	XVGMF25	2.21	1.2	0.4	4.6	4.9	3.8	3.0	4.1	3.2	2.8	2.5
26	XVGMF26	-14.11	-6.4	-6.0	0.3	1.1	0.7	0.0	1.0	0.4	0.2	-0.2
27	XVGMF27	4.41	1.7	1.0	4.5	4.9	3.8	3.0	4.1	3.0	2.6	2.3
28	XVGMF28	0.31	0.5	1.1	4.7	4.9	3.2	2.0	3.8	2.6	2.1	1.8
29	XVGMF29	4.81	1.0	-1.2	3.6	3.7	3.1	2.3	4.1	3.8	3.4	3.0
30	XVGMF30	3.71	2.8	0.8	5.8	5.8	5.1	4.4	5.0	4.4	4.0	3.7
31	XVGMF31	-1.01	1.0	-1.4	6.8	6.2	4.9	3.9	4.8	4.1	3.7	3.3
32	XVGMF32	5.21	1.8	0.1	4.3	5.1	4.3	3.6	4.6	3.8	3.3	2.8
33	XVGMF33	4.41	1.7	1.0	4.5	4.9	3.8	3.0	4.1	3.0	2.6	2.3
34	XVGMF34	0.31	0.5	1.1	4.7	4.9	3.2	2.0	3.8	2.6	2.1	1.8
35	XVGMF35	4.81	1.0	-1.2	3.6	3.7	3.1	2.3	4.1	3.8	3.4	3.0
36	XVGMF36	3.71	2.8	0.8	5.8	5.8	5.1	4.4	5.0	4.4	4.0	3.7
37	XVGMF37	-1.01	1.0	-1.4	6.8	6.2	4.9	3.9	4.8	4.1	3.7	3.3
38	XVGMF38	5.21	1.8	0.1	4.3	5.1	4.3	3.6	4.6	3.8	3.3	2.8

A PRODUCT OF CHARTER EFA, INC., 3624 MARKET ST., PHILA., PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUANTUM ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 11.10 REAL OUTPUT PER PERSON (1972 \$ / PERSON/Y)

LINE	VAR LABEL	I T F	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GNPPP	1 ALL INDUSTRIES	14.71	14.7	14.8	15.0	15.3	15.6	15.8	16.2	16.5	16.7	17.0
2													
3	XAGPP	FARM	10.51	11.1	11.4	11.8	12.2	12.5	12.8	13.3	13.8	14.4	14.9
4													
5	XMGPP	MINING	24.11	24.3	25.8	27.7	29.5	30.8	31.8	33.0	33.7	34.3	35.0
6													
7	XMFPP	MANUFACTURING	16.91	17.2	17.6	18.3	19.0	19.6	20.1	20.8	21.3	21.9	22.4
8													
9	XMFDP	DURABLE GOODS	16.81	17.1	17.5	18.1	18.7	19.2	19.6	20.2	20.7	21.2	21.6
10													
11	XMFDP2PP	LUMBER	15.01	15.5	16.3	17.0	17.7	18.1	18.2	18.6	19.1	19.5	19.9
12	XMFDP5PP	FURNITURE	9.81	10.0	10.3	10.6	11.0	11.4	11.7	12.2	12.5	12.8	12.9
13	XMFDP3PP	STONE, CLAY AND GLASS	15.61	15.7	15.9	16.2	16.7	17.0	17.3	17.8	18.1	18.4	18.7
14	XMFDP3PP	PRIMARY METALS	16.61	17.1	17.5	18.1	18.6	18.8	18.9	19.3	19.5	19.6	19.8
15	XMFDP4PP	FABRICATED METAL PRODUCTS	13.71	13.9	14.1	14.4	14.8	15.0	15.2	15.6	15.8	16.1	16.4
16	XMFDP5PP	NONELECTRICAL MACHINERY	16.41	16.8	17.1	17.7	18.3	18.7	18.9	19.4	19.7	20.1	20.5
17	XMFDP6PP	ELECTRICAL MACHINERY	16.01	16.4	16.5	17.2	18.0	18.7	19.4	20.2	20.9	21.6	22.4
18	XMFDP7PP	MOTOR VEHICLES	16.11	15.8	16.8	18.4	20.5	22.1	23.6	26.0	27.8	29.9	32.0
19	XMFDP7SP2PP	NONAUTO TRAN EQ & ORG & MISC MFD	13.81	14.2	14.3	14.8	15.2	15.5	15.8	16.3	16.6	17.0	17.4
20	XMFDP8PP	INSTRUMENTS	16.51	16.8	17.1	17.7	18.4	18.9	19.4	20.1	20.6	21.1	21.6
21													
22	XMFNPP	NONDURABLE GOODS	17.01	17.4	17.9	18.7	19.5	20.2	20.9	21.7	22.4	23.1	23.8
23													
24	XMFN20PP	FOOD AND BEVERAGE	18.71	19.5	19.8	20.7	21.7	22.7	23.6	24.5	25.3	25.9	26.5
25	XMFN21PP	TOBACCO	69.71	71.5	73.2	76.0	80.6	84.5	88.2	93.3	98.4	103.6	108.5
26	XMFN22PP	TEXTILES	10.11	10.4	10.6	11.2	11.7	12.1	12.4	13.0	13.3	13.7	14.1
27	XMFN23PP	APPAREL	9.61	9.9	10.1	10.6	11.1	11.6	12.0	12.6	13.2	13.6	14.4
28	XMFN26PP	PAPER	17.91	18.4	18.8	19.6	20.4	21.2	21.8	22.8	23.6	24.4	25.3
29	XMFN27PP	PRINTING AND PUBLISHING	15.01	15.4	16.1	16.5	17.1	17.4	17.7	18.1	18.4	18.7	18.9
30	XMFN28PP	CHEMICALS	25.41	26.1	26.9	28.5	30.2	31.6	32.9	34.6	36.1	37.5	38.9
31	XMFN29PP	PETROLEUM	42.71	43.1	44.0	46.1	48.3	50.3	52.2	54.9	57.5	60.2	63.0
32	XMFN30PP	RUBBER	15.61	15.8	16.2	16.8	17.4	17.7	18.0	18.5	18.9	19.2	19.6
33	XMFN31PP	LEATHER	8.81	9.0	9.1	9.4	9.7	10.0	10.3	10.7	11.1	11.5	11.8
34													
35	XRGPP	REGULATED INDUSTRIES	27.91	28.3	29.1	30.6	31.5	32.6	33.5	34.6	35.4	36.3	37.5
36													
37	XRGTP	TRANSPORTATION	19.71	19.6	19.6	20.2	20.7	21.1	21.4	21.9	22.2	22.4	22.7
38													
39	XRGCBPP	COMMUNICATIONS	36.81	38.7	41.1	43.5	45.0	47.5	49.7	51.8	53.3	55.2	58.0
40													
41	XRGCB9PP	UTILITIES	41.91	42.2	43.7	46.4	49.0	51.0	52.6	54.5	56.7	59.0	61.2
42													
43	XCCPP	COMMERCIAL AND OTHER	13.91	13.7	13.6	13.7	13.8	13.9	14.1	14.3	14.5	14.7	14.8
44	XCCPP	CONTRACT CONSTRUCTION	13.61	12.7	12.2	12.0	12.1	12.1	12.1	12.5	12.7	12.9	13.0
45	XCFPP	FINANCE, INSURANCE & REAL ESTATE	45.31	45.1	44.7	44.4	44.8	45.6	46.4	47.3	48.2	49.0	49.7
46	XSVPP	SERVICES	10.51	10.1	10.0	10.0	10.1	10.2	10.2	10.3	10.4	10.5	10.6
47	XSVPP	WHOLESALE AND RETAIL TRADE	12.41	12.4	12.5	12.7	12.9	13.0	13.2	13.4	13.6	13.8	13.9
48	XVRPP												
49													
50	XGVPP	GOVERNMENT	10.81	10.7	10.7	10.7	10.8	10.9	10.9	11.0	11.0	11.0	11.1

A PRODUCT OF QUANTUM FEA, INC., 3624 GLENN ST., PHILADELPHIA, PA 19106. OFFICE PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 11.20 REAL OUTPUT PER PERSON, % CHANGE

LINE	VAN LARF	I T F "	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GRPPP	ALL INDUSTRIES	-0.21	0.1	0.5	1.8	2.0	1.6	1.4	2.3	1.7	1.6	1.5
2													
3	XACPP	FAPM	-10.81	5.0	3.0	0.1	2.9	2.5	2.7	3.8	3.9	3.9	3.9
4													
5	XMCPP	MINING	1.01	0.5	6.3	7.4	6.3	4.3	3.4	3.8	2.2	1.8	1.9
6													
7	XMEPP	MANUFACTURING	2.51	2.1	2.2	3.9	3.9	2.9	2.5	3.5	2.6	2.6	2.5
8													
9	XMFPP	DURABLE GOODS	1.31	1.6	2.0	3.6	3.6	2.4	2.1	3.2	2.3	2.3	2.3
10													
11	XMFN20PP	LUMBER	3.91	3.2	5.3	4.4	4.2	2.0	0.8	2.0	2.6	2.1	2.2
12	XMFN25PP	FURNITURE	1.01	1.9	3.0	3.1	4.1	3.1	3.0	3.9	3.2	1.7	1.1
13	XMFN32PP	STONE, CLAY AND GLASS	-2.01	0.4	1.3	2.0	2.8	2.0	1.0	3.0	1.5	1.7	1.9
14	XMFN33PP	PRIMARY METALS	-0.61	2.7	2.7	3.2	2.7	1.0	0.5	2.3	0.8	0.7	1.1
15	XMFN34PP	FABRICATED METAL PRODUCTS	-1.01	1.7	1.3	2.6	2.5	1.5	1.3	2.5	1.4	1.7	1.7
16	XMFN35PP	NON-ELECTRICAL MACHINERY	2.91	2.1	2.1	3.6	3.5	1.7	1.5	2.5	1.6	1.9	1.9
17	XMFN36PP	ELECTRICAL MACHINERY	2.71	2.4	0.6	4.5	4.5	3.8	3.6	4.2	3.4	3.6	3.6
18	XMFN37PP	MOTOR VEHICLES	0.51	-0.8	3.0	4.3	5.4	4.0	3.6	5.3	4.1	4.0	4.0
19	XMFN37SP2PP	NONAUTO TRAN EQ & OPR & MISC MFD	0.41	2.6	1.0	3.1	2.8	2.1	2.1	3.0	2.2	2.3	2.3
20	XMFN38PP	INSTRUMENTS	-0.21	1.7	1.6	3.7	3.8	3.0	2.6	3.5	2.6	2.5	2.3
21													
22													
23	XMFNPP	NONDURABLE GOODS	4.21	2.8	2.6	4.4	4.4	3.7	3.3	4.0	3.2	3.1	2.9
24													
25	XMFN20PP	FOOD AND BEVERAGE	3.31	4.0	1.5	4.5	5.0	4.7	4.1	3.8	3.0	2.5	2.3
26	XMFN21PP	TOBACCO	2.61	2.6	2.4	4.9	5.0	4.8	4.4	5.8	5.4	5.2	4.0
27	XMFN22PP	TEXTILES	3.21	2.9	2.8	4.9	4.5	3.5	3.1	4.0	3.0	2.7	2.7
28	XMFN23PP	APPAREL	8.01	2.7	3.0	4.6	4.6	4.2	4.1	4.9	4.4	4.4	4.5
29	XMFN26PP	PAPER	5.21	2.6	2.4	4.2	4.4	3.5	3.1	4.4	3.7	3.4	3.5
30	XMFN27PP	PRINTING AND PUBLISHING	5.71	2.9	4.1	2.9	3.1	2.2	1.7	2.2	1.6	1.5	1.3
31	XMFN28PP	CHEMICALS	5.41	2.7	3.0	6.1	5.8	4.8	4.2	5.1	4.2	3.9	3.7
32	XMFN29PP	PFTHOLEIN	2.51	0.9	2.2	4.7	4.8	4.1	3.8	5.2	4.7	4.7	4.6
33	XMFN30PP	RUBBER	1.21	1.6	2.4	3.8	3.2	2.0	1.6	2.9	1.9	2.0	1.9
34	XMFN31PP	LEATHER	2.91	2.5	1.3	3.0	3.2	3.2	3.3	3.8	3.3	3.2	3.4
35													
36	XRCPP	REGULATED INDUSTRIES	3.11	1.6	2.9	5.0	3.2	3.4	2.8	3.1	2.5	2.4	3.3
37													
38	XRC1PP	TRANSPORTATION	1.71	-0.6	-0.2	3.1	2.8	1.8	1.5	2.4	1.3	0.8	1.5
39													
40	XRC48PP	COMMUNICATIONS	2.11	5.1	6.2	5.8	3.6	5.5	4.6	4.1	2.9	3.6	5.1
41													
42	XRC449PP	UTILITIES	3.51	0.8	3.6	6.0	5.7	4.0	3.2	3.5	4.1	4.0	3.7
43													
44	XCI1PP	COMMERCIAL AND OTHER	-0.21	-1.3	-0.5	0.3	1.1	0.9	0.9	1.8	1.4	1.2	0.9
45	XCCPP	CONTRACT CONSTRUCTION	-0.01	-6.8	-4.0	-1.5	0.9	-0.0	0.0	3.4	1.7	1.4	0.8
46	XFT1PP	FINANCE, INSURANCE & REAL ESTATE	-0.51	-0.4	-1.0	-0.7	0.9	1.7	1.7	2.1	1.8	1.7	1.5
47	XSVPP	SERVICES	1.31	-4.3	-0.3	-0.1	0.9	0.7	0.5	1.2	0.9	0.8	0.7
48	XHPP	WHOLESALE AND RETAIL TRADE	-0.21	-6.3	0.5	1.8	1.8	1.1	0.9	1.9	1.4	1.3	1.0
49													
50	XGVPP	GOVERNMENT	-1.11	-0.4	-0.7	0.6	0.8	0.5	0.5	0.5	0.3	0.3	0.3

A PRODUCT OF MARTIN LEE, INC., 3624 EIGHTH ST., PHILA., PA 19104. WITH PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

LINE	VAR LABEL	TABLE 12.10 ORIGINAL OUTPUT (CURRENT \$)											
		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
1	1 ALL INDUSTRIES	2105.712508.1	2509.9	2805.0	3131.2	3463.8	3793.7	4172.7	4530.5	4888.3	5239.0		
2	1 SUM OF MINIMAL OUTPUTS	2103.612305.1	2506.9	2802.0	3128.2	3460.8	3790.7	4172.7	4530.5	4888.3	5239.0		
3	1 STATISTICAL DISCREPANCY	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0		
4	1 AGRIC, FORESTRY AND FISHERIES	62.11	63.9	68.6	75.5	84.7	94.6	104.6	117.4	129.1	138.8	147.4	
5	1 MINING	63.31	76.7	88.5	103.4	119.3	135.0	149.5	166.3	182.5	199.1	216.3	
6	1 MANUFACTURING	510.11	567.8	619.6	692.5	770.5	844.5	916.7	1005.5	1084.9	1161.2	1241.5	
7	1 DURABLE GOODS	314.01	351.0	388.6	441.1	498.2	550.5	600.4	663.6	718.5	773.0	827.2	
8	1 LUMBER	16.41	17.7	19.2	21.2	23.8	26.5	29.0	32.6	36.3	39.6	43.2	
9	1 FURNITURE	7.91	8.7	9.6	10.5	11.6	12.7	13.7	15.1	16.1	17.2	18.2	
10	1 STONE, CLAY AND GLASS	17.61	19.5	21.4	24.1	26.4	28.1	29.9	32.5	34.6	36.6	38.6	
11	1 PRIMARY METALS	16.51	40.8	44.2	49.4	55.4	60.4	64.4	69.4	73.2	76.2	79.2	
12	1 FABRICATED METAL PRODUCTS	35.91	39.9	43.5	49.6	56.0	62.0	67.7	74.8	80.7	86.6	92.2	
13	1 NON-ELECTRICAL MACHINERY	60.61	67.9	76.7	88.2	101.6	113.7	125.2	139.8	152.5	165.4	178.1	
14	1 ELECTRICAL MACHINERY	48.31	54.9	60.4	68.7	77.0	84.6	92.1	101.0	108.8	116.6	124.7	
15	1 MOTOR VEHICLES	44.21	48.6	55.2	63.8	73.5	82.6	91.3	102.8	112.9	123.3	133.4	
16	1 INSTRUMENTS	12.61	14.2	15.6	17.5	19.5	21.4	23.3	25.8	27.9	30.1	32.3	
17	1 NONAUTO TRANS EQ + ORD + MISC	34.01	39.0	42.7	48.0	53.5	58.6	63.7	70.0	75.6	81.4	87.3	
18	1 NONAUTO TRANS EQUIP + ORD	26.31	30.3	33.3	37.5	41.7	45.5	49.4	54.2	58.4	62.8	67.3	
19	1 MISCELLANEOUS MANUFACTURING	7.71	8.7	9.5	10.5	11.7	13.0	14.3	15.8	17.2	18.6	20.0	
20	1 NONDURABLE GOODS	196.21	216.7	231.0	251.4	272.4	294.0	316.3	341.9	366.4	390.2	414.3	
21	1 FOOD AND BEVERAGES	44.21	47.9	50.1	52.4	55.0	58.2	61.5	65.4	69.4	73.9	77.7	
22	1 TOBACCO	6.01	6.6	7.1	7.7	8.3	8.9	9.6	10.3	11.1	11.8	12.5	
23	1 TEXTILES	18.01	15.4	16.5	18.2	20.0	21.9	23.9	26.1	28.2	30.2	32.0	
24	1 APPAREL	15.31	16.8	17.9	19.6	21.5	23.5	25.6	27.6	29.6	31.4	33.2	
25	1 PAPER	20.11	22.8	24.7	27.0	29.6	32.5	35.4	38.5	41.6	44.7	47.8	
26	1 PRINTING AND PUBLISHING	25.11	27.9	29.8	32.9	36.1	39.6	43.2	47.2	51.2	55.3	59.4	
27	1 CHEMICALS	40.11	44.5	47.5	52.0	56.1	59.9	63.9	69.0	73.6	78.0	82.4	
28	1 PETROLEUM	13.31	14.8	15.8	17.6	19.2	20.7	22.1	23.8	25.2	26.7	28.1	
29	1 RUBBER	15.01	16.6	18.0	20.0	22.1	24.1	26.2	28.7	30.9	32.9	35.0	
30	1 LEATHER	3.11	3.4	3.6	3.9	4.3	4.6	4.9	5.3	5.6	5.8	6.1	
31	1 COMMERCIAL AND OTHER	1026.41	1120.6	1216.5	1365.6	1536.3	1711.2	1884.0	2080.7	2264.2	2446.6	2625.8	
32	1 TRANSPORTATION	77.71	82.9	87.7	94.6	102.5	111.0	119.9	130.0	140.4	151.7	162.6	
33	1 UTILITIES	52.91	58.1	64.7	73.0	81.1	89.1	97.8	108.1	118.0	127.6	136.7	
34	1 COMMUNICATIONS	55.41	59.8	64.7	72.8	76.0	81.9	87.3	94.0	101.2	109.2	118.2	
35	1 GOVERNMENT AND GOV. ENTERPRISES	255.61	275.4	296.5	324.5	357.7	393.5	430.9	470.7	510.2	549.0	587.6	
36	1 FEDERAL GOVERNMENT	226.61	245.4	265.7	290.0	318.5	349.5	382.2	416.6	451.0	485.1	519.8	
37	1 FEDERAL ENTERPRISES	15.41	15.8	16.4	18.3	20.6	22.9	25.3	28.1	30.8	33.3	35.1	
38	1 STATE AND LOCAL ENTERPRISES	13.51	14.1	14.4	16.3	18.6	21.0	23.4	26.0	28.3	30.6	32.6	

A PRODUCT OF CHARTER FEA, P.C., 3628 MARKET ST., PHILA, PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUANTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH-P PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 12.20 NOMINAL OUTPUT, GROWTH RATES

LINE	VAR LABEL	T T F "	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GOPS	I ALL INDUSTRIES	11.61	9.5	8.7	11.8	11.6	10.6	9.5	10.1	8.6	7.8	7.2
2	XVGUSPIS	I SUP OF NOMINAL OUTPUTS	11.71	9.6	8.8	11.8	11.6	10.6	9.5	10.1	8.6	7.8	7.2
3	XVGAGS	I AGRIC, FORESTRY AND FISHERIES	10.41	2.8	7.4	10.2	12.2	11.6	10.6	12.3	9.9	7.5	6.2
4	XVGMGS	I MINING	27.51	21.3	15.4	16.8	15.3	13.2	10.7	11.2	9.8	9.1	8.6
5	XVGMFS	I MANUFACTURING	13.01	11.3	9.1	11.8	11.3	9.6	8.6	9.7	7.9	7.2	6.7
6	XVGMFD8	I DURABLE GOODS	15.41	11.8	10.7	13.5	12.9	10.5	9.1	10.5	8.3	7.6	7.0
7	XVGMFD243	I LUMBER	15.31	7.7	8.6	10.3	12.1	11.2	9.6	12.4	11.1	9.2	8.9
8	XVGMFD253	I FURNITURE	16.61	10.0	10.4	9.7	10.0	9.2	8.5	9.7	6.7	6.9	6.0
9	XVGMFD323	I STORE, CLAY AND GLASS	20.11	10.4	10.2	12.4	9.6	6.4	6.5	7.7	5.5	5.9	5.4
10	XVGMFD333	I PRIMARY METALS	7.31	11.7	8.4	11.8	12.1	9.1	6.5	7.7	5.5	4.1	3.9
11	XVGMFD343	I FABRICATED METAL PRODUCTS	16.61	10.9	9.2	14.0	12.8	10.7	9.3	10.5	7.9	7.3	6.5
12	XVGMFD353	I NONELECTRICAL MACHINERY	17.21	12.2	12.9	15.0	15.1	12.0	10.1	11.6	9.1	8.4	7.7
13	XVGMFD363	I ELECTRICAL MACHINERY	18.71	13.7	10.0	13.7	12.1	9.8	8.9	9.7	7.7	7.2	7.0
14	XVGMFD3713	I MOTOR VEHICLES	17.31	9.9	13.6	15.6	15.3	12.4	10.5	12.6	9.8	9.2	8.2
15	XVGMFD383	I INSTRUMENTS	8.91	12.7	10.3	12.0	11.2	9.8	9.2	10.3	8.3	7.9	7.3
16	XVGMFD393	I NONAUTO TRANS EQ + ORD + MISC	13.11	14.7	9.6	12.4	11.3	9.5	8.8	9.9	8.1	7.6	7.2
17	XVGMFD373P13	I HUMANITRANS EQUIP + ORD	13.61	15.3	9.7	12.6	11.2	9.2	8.4	9.7	7.9	7.5	7.2
18	XVGMFD393	I MISCELLANEOUS MANUFACTURING	11.51	12.6	9.2	11.1	11.8	10.8	9.9	10.6	9.0	8.0	7.6
19	XVGMFS	I NONDURABLE GOODS	9.31	10.5	6.6	6.8	8.3	8.0	7.6	8.1	7.2	6.5	6.2
20	XVGMFD203	I FOOD AND BEVERAGES	7.91	8.5	4.4	4.6	5.0	5.7	5.8	6.3	6.2	5.7	5.8
21	XVGMFD213	I TOBACCO	6.81	10.4	6.6	8.5	8.3	7.9	7.2	7.9	7.1	6.6	6.2
22	XVGMFD223	I TEXTILES	8.51	10.0	7.6	10.1	9.9	9.7	9.2	9.2	8.0	6.9	6.0
23	XVGMFD233	I APPAREL	12.61	9.3	6.9	9.6	9.6	9.3	8.7	7.9	7.3	6.2	5.6
24	XVGMFD263	I PAPER	10.81	13.5	8.4	9.3	9.6	9.8	8.9	8.7	8.0	7.4	7.0
25	XVGMFD273	I PRINTING AND PUBLISHING	11.81	11.3	6.7	10.6	9.7	9.5	9.2	9.3	8.4	7.9	7.5
26	XVGMFD283	I CHEMICALS	9.91	11.2	6.7	9.5	8.0	6.8	6.6	7.9	6.7	6.0	5.7
27	XVGMFD293	I PETROLEUM	7.21	11.0	7.2	11.2	9.3	7.6	6.8	7.5	6.3	5.6	5.5
28	XVGMFD303	I RUBBER	6.21	10.5	8.1	11.6	10.5	9.1	8.5	9.7	7.4	6.7	6.3
29	XVGMFD313	I LEATHER	9.31	9.6	5.4	8.8	8.6	7.6	6.9	6.9	5.8	5.1	5.1
30	XVGUS	I COMMERCIAL AND OTHER	11.21	9.2	8.6	12.3	12.5	11.4	10.1	10.4	8.8	8.1	7.3
31	XVGRG13	I TRANSPORTATION	9.91	6.7	5.8	7.8	8.3	8.3	8.0	8.4	8.0	8.1	7.2
32	XVGRG23	I UTILITIES	12.91	9.8	11.4	12.7	11.2	9.8	9.8	10.5	9.2	8.2	7.0
33	XVGRG33	I COMMUNICATIONS	12.21	7.8	8.2	12.6	4.4	7.8	6.5	7.7	7.7	7.9	8.3
34	XVGRG43	I GOVERNMENT AND GOV. ENTERPRISES	8.61	7.7	7.7	9.5	10.2	10.0	9.5	9.2	8.4	7.6	7.0
35	XVGRG53	I GENERAL GOVERNMENT	9.01	8.3	8.3	9.1	9.8	9.8	9.3	9.0	8.3	7.6	7.2
36	XVGRG63	I FEDERAL ENTERPRISES	10.01	2.9	3.3	11.5	12.6	11.5	10.2	11.2	9.8	8.0	5.6
37	XVGRG73	I STATE AND LOCAL ENTERPRISES	1.71	4.3	2.6	13.2	14.1	12.9	11.3	10.9	9.0	7.9	6.7

A PRODUCT OF QUANTON INC., P.O. BOX 3620, WILMINGTON, DE 19806. ALL OTHER REPRESENTATION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WARTON ANNUAL AND INDUSTRY FORECASTING MODEL HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 13.10 EMPLOYMENT (THOUSANDS)

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	HEMT	98257	106180	98070	100638	103017	105012	106605	108287	109636	110987	112310
2	MEHA	3310	3165	3081	3118	3173	3208	3211	3203	3182	3161	3142
3	MEETING	862	868	863	868	863	863	843	851	864	874	890
4	MEETING											
5	MEETING											
6	MEETING	20266	120492	20964	21289	21648	21882	21980	22178	22268	22304	22299
7	MEETING	12075	12441	12677	12987	13333	13565	13670	13800	13942	13975	13978
8	MEETING	667	672	672	687	707	726	726	756	771	786	800
9	MEETING	534	545	556	565	578	588	597	612	616	625	633
10	MEETING	692	721	739	748	762	773	779	792	801	807	810
11	MEETING	1251	1276	1289	1320	1359	1380	1379	1395	1403	1367	1351
12	MEETING	1531	1575	1615	1664	1719	1755	1770	1795	1805	1808	1804
13	MEETING	2290	2354	2433	2521	2620	2696	2738	2800	2813	2851	2857
14	MEETING	2044	2127	2159	2193	2233	2259	2269	2289	2295	2295	2291
15	MEETING	965	988	1005	1029	1044	1049	1045	1046	1036	1021	1004
16	MEETING	1547	1607	1624	1663	1701	1720	1726	1747	1759	1768	1772
17	MEETING	437	444	455	471	488	499	506	516	522	524	524
18	MEETING	1110	1163	1169	1191	1213	1220	1220	1231	1237	1243	1248
19	MEETING	940	994	1000	1020	1056	1070	1075	1089	1094	1106	1112
20	MEETING	162	169	168	164	156	151	145	141	139	137	137
21	MEETING	554	574	586	598	611	620	626	635	642	647	652
22	MEETING	8192	8251	8287	8302	8315	8317	8310	8318	8326	8329	8325
23	MEETING	1745	1719	1698	1677	1648	1615	1587	1567	1555	1548	1544
24	MEETING	70	70	70	70	70	69	68	68	67	66	66
25	MEETING	994	1000	998	1002	1009	1016	1021	1021	1032	1035	1036
26	MEETING	1303	1313	1317	1320	1320	1316	1307	1298	1285	1271	1254
27	MEETING	713	726	734	742	751	757	760	764	765	765	763
28	MEETING	1125	1147	1162	1175	1187	1202	1217	1235	1253	1272	1289
29	MEETING	1069	1076	1081	1070	1065	1061	1058	1057	1057	1057	1056
30	MEETING	211	217	221	221	220	218	215	212	209	205	201
31	MEETING	688	701	718	737	759	779	794	812	825	836	845
32	MEETING	274	282	287	287	287	285	282	279	277	274	271
33	MEETING											
34	MEETING	4709	4782	4789	4881	4917	4975	5016	5088	5174	5259	5300
35	MEETING	2691	2742	2757	2797	2855	2910	2952	3002	3058	3119	3150
36	MEETING	768	780	775	769	764	763	763	766	762	758	751
37	MEETING	1250	1261	1257	1315	1298	1302	1300	1319	1353	1382	1399
38	MEETING											
39	MEETING	49497	150933	52053	54012	55716	57154	58369	59513	60486	61487	62549
40	MEETING	44129	145528	46386	48211	49781	51128	52282	53360	54283	55136	56072
41	MEETING	4245	4370	4429	4721	4965	5116	5180	5197	5141	5095	5079
42	MEETING	4735	4906	5054	5251	5408	5492	5574	5651	5726	5802	5879
43	MEETING	1682	16644	17033	17781	18408	18973	19527	20062	20569	21089	21620
44	MEETING	10067	117608	19869	20888	21009	21548	22001	22450	22807	23151	23494
45	MEETING	6279	6435	6697	6807	6917	7006	7084	7169	7269	7371	7482
46	MEETING	478	470	470	470	470	470	470	470	470	470	470
47	MEETING	1349	1500	1500	1476	1452	1450	1467	1487	1496	1490	1475
48	MEETING											
49	MEETING	15612	15920	16320	16490	16718	16958	17187	17415	17662	17898	18130
50	MEETING	2757	2770	2770	2776	2783	2791	2800	2810	2822	2834	2846
51	MEETING	12854	13150	13550	13714	13936	14167	14387	14605	14880	15068	15283

A PRODUCT OF WARTON, INC., 5625 AVENUE ST., DALLAS, TX 75244. NOTATION PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 13.20 EMPLOYMENT, GROWTH RATES

LINE	VAR LABEL	I T F M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	HEHT	I ALL INDUSTRIES	4.11	2.3	1.8	2.6	2.4	1.9	1.5	1.5	1.3	1.2	1.2
2													
3	NEHA	B FARM	2.01	-4.4	-2.7	1.2	1.8	1.1	0.1	-0.3	-0.6	-0.7	-0.6
4	HEFTMG	B MINING	3.81	3.0	-2.8	-1.8	-0.6	-0.1	0.0	1.0	1.5	1.7	1.4
5													
6	HEETMF	I MANUFACTURING	3.61	2.1	1.3	1.5	1.7	1.1	0.4	0.9	0.4	0.2	-0.0
7	HEETMFD	I DURABLE GOODS	5.21	3.0	1.9	2.4	2.7	1.7	0.8	1.4	0.6	0.2	-0.0
8	HEETMFD24	B LUMBER	3.91	0.7	-0.0	-2.3	2.9	2.6	2.3	1.9	1.9	1.9	1.8
9	HEETMFD25	B FURNITURE	4.71	2.2	2.0	1.5	2.3	1.8	1.5	2.5	0.7	1.5	1.2
10	HEETMFD32	A STONE, CLAY AND GLASS	6.01	4.2	2.5	1.3	1.8	1.4	0.8	1.7	1.1	0.7	0.4
11	HEETMFD33	A PRIMARY METALS	4.01	2.0	1.0	2.4	3.0	1.5	-0.1	0.7	-0.8	-1.2	-1.2
12	HEETMFD34	B FARRICATED METAL PRODUCTS	5.51	2.9	2.6	3.0	3.3	2.1	0.8	1.4	0.6	0.1	-0.2
13	HEETMFD35	A NONELECTRICAL MACHINERY	4.71	2.8	3.3	3.6	3.9	2.9	1.5	2.3	1.2	0.6	0.2
14	HEETMFD36	A ELECTRICAL MACHINERY	5.61	4.1	1.5	1.6	1.8	1.1	0.5	0.9	0.2	0.0	-0.2
15	HEETMFD37	A MOTOR VEHICLES	8.31	2.5	1.6	2.4	1.4	0.5	-0.4	0.1	-0.9	-1.4	-1.7
16	HEETMFD37SP2	B NONAUTO TRANS FO + OPD + MISC	4.51	3.9	1.0	2.4	2.3	1.1	0.4	1.2	0.7	0.5	0.3
17	HEETMFD39	B MISCELLANEOUS MANUFACTURING	4.51	1.7	2.4	3.6	3.6	2.3	1.3	2.0	1.2	0.4	-0.0
18	HEETMFD37SP1	B NONAUTO TRANS FO + (ORD)	4.51	4.8	0.5	1.9	1.8	0.6	0.0	0.9	0.5	0.5	0.4
19	HEETMFD372.9	B NONAUTO TRANS FO	4.51	4.8	0.7	2.7	2.8	1.3	0.5	1.3	0.8	0.7	0.5
20	HEETMFD39	B ORDNANCE MANUFACTURING	4.51	4.6	-0.7	-2.8	-4.4	-3.7	-3.5	-2.7	-1.9	-1.1	-0.4
21	HEETMFD38	B INSTRUMENTS	5.01	3.7	2.1	2.0	2.2	1.5	1.0	1.4	1.1	0.9	0.7
22	HEETMFD39	B NONDURABLE GOODS	1.51	0.7	0.4	0.2	0.2	0.0	-0.1	0.1	0.1	0.0	-0.1
23	HEETMFD20	B FOOD AND BEVERAGES	1.41	-1.5	-1.2	-1.2	-1.8	-2.0	-1.8	-1.2	-0.8	-0.5	-0.3
24	HEETMFD21	B TEXTILES	0.71	-0.4	-0.1	-0.4	-0.6	-0.8	-1.0	-0.9	-1.0	-1.1	-1.2
25	HEETMFD22	B APPAREL	1.31	0.6	-0.2	0.4	0.7	0.7	0.5	0.6	0.5	0.3	0.1
26	HEETMFD23	B PAPER	1.21	0.8	0.3	0.2	0.0	-0.3	-0.7	-0.7	-0.9	-1.1	-1.3
27	HEETMFD26	B PRINTING AND PUBLISHING	2.11	1.8	1.1	1.1	1.1	0.8	0.5	0.4	0.2	-0.0	-0.3
28	HEETMFD27	B CHEMICALS	1.41	2.0	1.3	1.1	1.0	1.2	1.3	1.5	1.5	1.5	1.4
29	HEETMFD28	B PETROLEUM	1.11	0.7	0.5	-1.0	-0.5	-0.3	-0.4	-0.1	0.0	-0.0	-0.1
30	HEETMFD29	B RUNNER	0.91	2.9	1.8	-0.3	-0.5	-0.8	-1.1	-1.3	-1.6	-1.8	-2.0
31	HEETMFD30	B LEATHER	1.91	1.8	2.5	2.6	3.0	2.6	2.0	2.2	1.7	1.3	1.0
32	HEETMFD31	B REGULATED INDUSTRIES	3.51	3.0	1.9	0.1	-0.3	-0.7	-1.1	-1.0	-0.9	-1.0	-1.0
33													
34	HEETMG	I REGULATED INDUSTRIES	2.61	1.5	0.2	1.9	0.7	1.2	0.8	1.4	1.7	1.6	0.8
35	HEETMG	B TRANSPORTATION	0.51	1.9	0.6	1.5	2.1	2.0	1.4	1.7	1.9	2.0	1.0
36	HEETMG49	B UTILITIES	3.21	1.5	-0.6	-0.8	-0.6	-0.2	0.1	0.4	-0.5	-0.6	-1.0
37	HEETMG48	B COMMUNICATIONS	7.11	0.9	-0.3	4.6	-1.3	0.3	-0.1	1.5	2.6	2.1	1.3
38													
39	HEETMG	I COMMERCIAL AND OTHER	5.01	2.9	2.2	3.8	3.2	2.6	2.1	2.0	1.6	1.7	1.7
40	HEETMG	I COMMERCIAL	5.11	3.2	1.9	3.9	3.3	2.7	2.3	2.1	1.7	1.6	1.7
41	HEETMG	B CONTRACT CONSTRUCTION	10.41	2.9	1.4	6.6	5.2	3.0	1.3	0.3	-1.1	-0.9	-0.3
42	HEETMG	B FINANCE, INSUR, REAL ESTATE	5.01	3.6	3.0	3.9	2.8	1.7	1.5	1.4	1.3	1.3	1.3
43	HEETMG	B SERVICES	4.91	3.5	2.3	4.4	3.5	3.1	2.9	2.7	2.5	2.5	2.5
44	HEETMG	B WHOLESALE AND RETAIL TRADE	4.21	2.8	1.3	2.9	2.7	2.6	2.1	2.0	1.6	1.5	1.5
45	HEETMG	F SELF-EMPLOYED WORKERS, MANAG-	4.61	2.5	0.1	1.6	1.6	1.3	1.1	1.2	1.4	1.4	1.5
46	HEETMG	F UNPAID FAMILY WORKERS, MANAG-	-2.81	-1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47	HEETMG3-ET	E CONCEPTUAL DIFF, MGT VS ESTAB-	3.91	8.0	0.0	-1.6	-1.6	-0.1	1.2	1.3	0.6	-0.4	-1.0
48													
49	HEETMG	I GOVERNMENT	2.81	2.0	2.5	1.0	1.4	1.4	1.4	1.3	1.4	1.3	1.3
50	HEETMG/F	B FEDERAL	1.11	0.5	0.0	0.2	0.2	0.3	0.3	0.4	0.4	0.4	0.4
51	HEETMG	B STATE AND LOCAL	3.11	2.3	3.0	1.2	1.6	1.7	1.6	1.5	1.6	1.5	1.5

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QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
MILKIN PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE I T E H
LINE VAR LABEL

		1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988									
1 PT		218.51 220.51 222.24 224.29 226.43 228.60 230.79 232.98 235.17 237.33 239.48									
2		15.36 15.68 16.09 16.69 17.33 17.95 18.48 18.88 19.15 19.33 19.45									
3		14.89 16.49 16.10 15.57 15.42 15.54 15.86 16.26 16.46 17.51 18.12									
4		18.58 18.06 17.80 17.82 17.64 17.36 16.96 16.56 16.03 15.87 15.98									
5		21.06 20.91 20.60 20.41 19.40 18.78 18.26 18.00 18.02 17.84 17.57									
6		4.14 4.08 3.91 3.69 3.59 3.51 3.56 3.64 3.72 3.41 3.23									
7		8.42 8.28 8.15 7.92 7.54 7.23 7.05 7.02 7.15 7.31 7.09									
8		8.51 8.56 8.54 8.39 8.27 8.04 7.65 7.34 7.15 7.12 7.25									
9		20.45 20.72 20.90 21.10 21.07 20.46 20.81 20.49 19.91 19.31 18.70									
10		18.04 18.44 18.92 19.31 19.76 20.13 20.39 20.57 20.75 20.72 20.62									
11		15.89 16.56 17.24 18.14 18.08 18.40 18.80 19.28 19.67 20.12 20.49									
12		13.06 13.59 14.04 14.29 15.43 15.92 16.58 17.28 18.16 18.10 18.40									
13		11.32 11.51 11.69 12.41 13.13 13.66 14.10 14.36 15.49 15.94 15.94									
14		11.36 11.21 11.03 11.00 11.05 11.16 11.35 11.53 11.81 12.23 12.94									
15		11.82 11.72 11.50 11.40 11.31 11.26 11.16 11.11 11.00 10.86 10.71									
16		9.43 9.57 9.80 10.00 10.28 10.47 10.59 10.61 10.63 10.55 10.49									
17		8.57 8.66 8.71 8.78 8.83 8.89 9.03 9.25 9.45 9.71 9.89									
18		15.44 15.84 16.29 16.66 17.03 17.40 17.77 18.13 18.45 18.75 19.07									
19		6.36 6.56 6.79 6.94 7.07 7.17 7.26 7.30 7.36 7.41 7.47									
20		9.08 9.28 9.49 9.72 9.95 10.23 10.51 10.83 11.09 11.34 11.60									
21		163.55 166.00 168.35 170.52 172.45 174.25 175.94 177.64 179.40 181.21 182.70									
22		146.63 149.17 151.66 154.20 156.64 158.98 161.23 163.28 165.09 166.78 168.36									
23		84.13 85.51 86.85 88.35 89.75 91.59 93.24 94.84 96.53 98.29 100.08									
24		75.94 77.50 79.06 80.65 82.24 83.82 85.36 86.86 88.31 89.74 91.14									
25		58.26 59.27 60.26 61.27 62.31 63.32 64.29 65.20 66.10 66.97 67.82									
26		21.57 22.12 22.68 23.24 23.78 24.32 24.86 25.40 25.90 26.39 26.88									
27		2.12 2.09 2.07 2.07 2.07 2.07 2.07 2.07 2.07 2.07 2.07									
28		161.44 163.92 166.28 168.45 170.38 172.18 173.87 175.57 177.33 179.14 180.63									
29		77.64 78.80 79.88 80.81 81.61 82.39 83.12 83.92 84.77 85.65 86.18									
30		83.79 85.11 86.40 87.63 88.77 89.79 90.75 91.65 92.56 93.49 94.44									
31		100.32 102.74 104.84 106.46 107.99 109.54 111.02 112.54 114.15 115.84 117.38									
32		58.50 59.76 60.65 60.81 61.33 61.86 62.36 62.92 63.53 64.18 64.66									
33		41.83 42.98 44.19 45.65 46.66 47.67 48.66 49.63 50.62 51.66 52.71									
34		63.05 63.59 63.98 64.13 64.32 64.56 64.80 65.06 65.34 65.64 65.97									
35		77.79 78.25 78.27 77.77 77.26 77.12 77.00 76.95 76.94 76.93 76.89									
36		49.44 50.45 51.16 52.16 52.72 53.30 53.87 54.41 54.95 55.52 56.17									
37		94.26 96.38 98.07 100.64 103.02 105.02 106.61 108.25 109.64 110.99 112.31									
38		6.07 6.36 6.77 5.02 4.98 4.52 4.41 4.30 4.51 4.85 5.07									
39		6.05 6.19 6.46 5.47 4.61 4.13 3.97 3.82 3.95 4.19 4.32									
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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 14.20 POPULATION AND LABOR FORCE, GROWTH RATES

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 NPT	0.81	0.8	0.9	0.9	1.0	1.0	1.0	1.0	0.9	0.9	0.9
2											
3 NPT00.04	0.81	2.1	2.6	3.7	3.9	3.5	2.9	2.2	1.5	0.9	0.6
4 NPT05.09	-1.61	-2.3	-2.4	-3.3	-1.0	0.8	2.1	2.5	3.7	3.8	3.5
5 NPT10.14	-3.21	-2.8	-1.5	0.2	-1.0	-1.6	-2.3	-2.4	-3.2	-1.0	0.7
6 NPT15.19	-0.51	-0.7	-1.5	-2.9	-3.0	-3.2	-2.8	-1.4	0.2	-1.0	-1.6
7 NPT15	-1.61	-1.4	-4.2	-5.5	-2.7	-2.3	1.3	2.4	2.2	-8.3	-5.8
8 NPT16.17	-0.21	-1.7	-1.5	-2.8	-4.8	-4.1	-2.5	-0.5	1.9	2.3	-3.1
9 NPT18.19	-0.31	0.6	-0.2	-1.7	-1.5	-2.8	-2.8	-4.1	-2.5	-0.5	1.9
10 NPT20.24	1.91	1.3	0.9	0.9	-0.1	-0.5	-0.7	-1.5	-2.9	-3.0	-3.2
11 NPT25.29	1.71	2.2	2.6	2.1	2.3	1.8	1.3	0.9	0.9	-0.2	-0.5
12 NPT30.34	3.11	4.2	4.1	5.2	7.9	3.2	2.2	2.5	2.1	2.3	1.8
13 NPT35.39	5.81	4.0	3.3	1.8	7.9	3.2	4.2	4.2	5.1	-0.3	1.7
14 NPT40.44	1.11	1.6	1.6	2.5	3.6	5.8	4.0	3.3	1.8	7.9	3.2
15 NPT45.49	-1.31	-1.4	-1.6	-0.3	0.4	1.1	1.6	1.6	2.5	3.6	5.8
16 NPT50.54	-0.51	-0.8	-0.5	-1.1	-1.2	-1.3	-1.3	-1.5	-0.2	0.4	1.1
17 NPT55.59	1.91	1.1	0.2	0.1	-0.8	-0.5	-0.8	-0.5	-1.1	-1.3	-1.3
18 NPT60.64	0.71	1.5	2.4	2.1	2.7	1.9	1.1	0.2	0.1	-0.8	-0.5
19 NPT65.69	1.41	1.1	0.5	0.8	0.6	0.7	1.5	2.5	2.2	2.8	1.9
20 NPT70.74	2.61	2.6	2.8	2.3	2.2	2.2	2.1	2.0	1.8	1.6	1.7
21 NPT75.79	3.61	3.2	3.5	2.2	1.9	1.4	1.2	0.6	0.8	0.6	0.8
22 NPT75+	2.01	2.1	2.4	2.4	2.4	2.8	2.7	3.0	2.4	2.3	2.3
23											
24 NPT16+	1.61	1.5	1.4	1.3	1.1	1.0	1.0	1.0	1.0	1.0	0.8
25 NPT20+	1.81	1.7	1.7	1.7	1.6	1.5	1.4	1.3	1.1	1.0	0.9
26 NPT30.64	1.71	1.6	1.6	1.7	1.6	1.8	1.8	1.7	1.8	1.8	1.8
27											
28 NCH	2.11	2.1	2.0	2.0	2.0	1.9	1.8	1.8	1.7	1.6	1.6
29 NCF	1.71	1.7	1.7	1.7	1.7	1.6	1.5	1.8	1.4	1.3	1.3
30 NCU	2.61	2.6	2.5	2.5	2.3	2.3	2.2	2.2	2.0	1.9	1.8
31											
32 NLM	-0.81	-1.4	-0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
33											
34 NPC16+	1.61	1.5	1.4	1.3	1.1	1.1	1.0	1.0	1.0	1.0	0.8
35 NPCM16+	3.21	1.5	1.4	1.2	1.0	1.0	0.9	1.0	1.0	1.0	0.6
36 NPCF16+	0.11	1.6	1.5	1.4	1.3	1.2	1.1	1.0	1.0	1.0	1.0
37											
38 NLC	3.01	2.4	2.0	1.5	1.4	1.4	1.3	1.4	1.4	1.5	1.3
39 NLCM16+	1.81	2.2	1.5	0.3	0.9	0.9	0.8	0.9	1.0	1.0	0.8
40 NLCF16+	4.71	2.7	2.8	3.3	2.2	2.2	2.1	2.0	2.0	2.1	2.0
41											
42 NEMT+	4.11	2.3	1.8	2.6	2.4	1.9	1.5	1.5	1.3	1.2	1.2
43 NUT	-11.51	4.8	6.5	-18.1	-18.5	-9.2	-2.4	-2.6	5.0	7.5	4.4

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WHARTON AGRICULTURAL AND INDUSTRY FORECASTING MODEL
WHEAT PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 10.50 LARGEST FARMER PARTICIPATION RATES (FRACTIONS)

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	MALTF10A	0.7774	0.7825	0.7827	0.7747	0.7726	0.7712	0.7700	0.7695	0.7694	0.7693	0.7689
2	MALTF16A	0.6201	0.6109	0.6199	0.6241	0.6307	0.6339	0.6401	0.6429	0.6450	0.6456	0.6394
3	MALTF20A	0.8569	0.8551	0.8548	0.8416	0.8377	0.8348	0.8332	0.8315	0.8299	0.8289	0.8272
4	MALTF25A	0.9495	0.9535	0.9545	0.9494	0.9484	0.9482	0.9493	0.9503	0.9517	0.9538	0.9557
5	MALTF35A	0.9555	0.9609	0.9619	0.9495	0.9475	0.9467	0.9471	0.9474	0.9481	0.9495	0.9506
6	MALTF45A	0.9149	0.9219	0.9223	0.9104	0.9076	0.9060	0.9052	0.9043	0.9039	0.9042	0.9046
7	MALTF55A	0.7351	0.7489	0.7444	0.7235	0.7069	0.6916	0.6760	0.6717	0.6679	0.6649	0.6624
8	MALTF65A	0.2044	0.2032	0.1999	0.1950	0.1904	0.1860	0.1817	0.1771	0.1726	0.1683	0.1642
9												
10	MALTF10A	0.4984	0.5045	0.5116	0.5216	0.5272	0.5330	0.5387	0.5441	0.5495	0.5552	0.5617
11	MALTF16A	0.5362	0.5348	0.5409	0.5600	0.5858	0.5915	0.5960	0.6189	0.6273	0.6309	0.6303
12	MALTF20A	0.6812	0.6916	0.6989	0.7110	0.7116	0.7159	0.7218	0.7247	0.7295	0.7367	0.7468
13	MALTF25A	0.6206	0.6289	0.6435	0.6556	0.6562	0.6602	0.6656	0.6677	0.6708	0.6759	0.6833
14	MALTF35A	0.6151	0.6202	0.6327	0.6531	0.6690	0.6847	0.6981	0.7077	0.7172	0.7271	0.7388
15	MALTF45A	0.5671	0.5701	0.5749	0.5809	0.5839	0.5918	0.6042	0.6173	0.6344	0.6501	0.6655
16	MALTF55A	0.4148	0.4280	0.4328	0.4354	0.4373	0.4410	0.4482	0.4411	0.4426	0.4444	0.4468
17	MALTF65A	0.0835	0.0832	0.0842	0.0839	0.0837	0.0841	0.0844	0.0843	0.0843	0.0847	0.0855
18												
19	MALTF10A	0.6305	0.6339	0.6398	0.6413	0.6432	0.6456	0.6480	0.6506	0.6534	0.6564	0.6597
20	MALTF16A	0.5778	0.5768	0.5802	0.5918	0.6041	0.6145	0.6178	0.6308	0.6361	0.6382	0.6348
21	MALTF20A	0.7658	0.7704	0.7740	0.7740	0.7724	0.7732	0.7755	0.7762	0.7778	0.7810	0.7854
22	MALTF25A	0.7805	0.7870	0.7951	0.7991	0.7987	0.8007	0.8040	0.8056	0.8079	0.8116	0.8163
23	MALTF35A	0.7788	0.7862	0.7911	0.7959	0.8034	0.8113	0.8185	0.8237	0.8290	0.8349	0.8415
24	MALTF45A	0.7350	0.7401	0.7430	0.7404	0.7406	0.7439	0.7499	0.7562	0.7648	0.7730	0.7812
25	MALTF55A	0.5660	0.5795	0.5800	0.5716	0.5648	0.5596	0.5520	0.5505	0.5497	0.5493	0.5495
26	MALTF65A	0.1330	0.1319	0.1314	0.1292	0.1272	0.1256	0.1239	0.1220	0.1202	0.1186	0.1174
27												

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FINAL REPORT FOR OFFICE OF NAVAL RESEARCH CONTRACT N00014-76-C---ETC(U)
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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 14.40 LABOR FORCE

LINE VAR LABEL	I	T	F	1974	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
LABOR FORCE (MILLIONS)														
1														
2														
3	MLCM16+	B		50.497	50.762	60.653	60.814	61.333	61.864	62.360	62.919	63.530	64.175	64.662
4	MLCM16,19	B		5.054	5.024	4.988	4.903	4.794	4.676	4.509	4.419	4.417	4.468	4.396
5	MLCM20,24	B		8.025	8.130	8.206	8.163	8.111	8.039	7.964	7.816	7.560	7.301	7.035
6	MLCM25,34	B		15.281	15.458	16.429	16.948	17.106	17.420	17.709	18.075	18.375	18.605	18.762
7	MLCM35,44	B		10.991	11.106	11.690	11.800	12.508	13.064	13.620	14.152	14.692	15.213	15.605
8	MLCM45,54	B		10.137	10.115	10.028	9.837	9.767	9.735	9.739	9.731	9.637	10.042	10.409
9	MLCM55,64	B		7.098	7.324	7.372	7.241	7.142	7.039	6.898	6.854	6.792	6.699	6.621
10	MLCM65+	B		1.910	1.925	1.940	1.922	1.905	1.891	1.879	1.872	1.858	1.848	1.833
11														
12	MLCM25,54	I		36.410	37.359	38.187	38.585	39.381	40.219	41.109	41.958	42.903	43.860	44.776
13														
14	MLCF16+	B		41.827	42.977	44.192	45.646	46.660	47.675	48.656	49.625	50.619	51.664	52.715
15	MLCF16,19	B		4.442	4.403	4.414	4.468	4.530	4.617	4.287	4.343	4.385	4.445	4.412
16	MLCF20,24	B		6.866	7.067	7.206	7.400	7.396	7.403	7.403	7.323	7.160	7.013	6.884
17	MLCF25,34	B		10.546	11.018	11.684	12.290	12.432	12.733	13.057	13.318	13.577	13.824	14.065
18	MLCF35,44	B		7.637	7.976	8.290	8.735	9.467	10.107	10.722	11.276	11.836	12.307	12.882
19	MLCF45,54	B		6.733	6.687	6.667	6.689	6.692	6.775	6.928	7.082	7.365	7.702	8.163
20	MLCF55,64	B		4.478	4.680	4.788	4.864	4.923	4.992	4.984	4.981	4.968	4.934	4.910
21	MLCF65+	B		1.125	1.146	1.183	1.201	1.219	1.246	1.276	1.302	1.328	1.360	1.399
22														
23	MLC	I		100.324	102.739	104.844	106.460	107.993	109.538	111.016	112.544	114.149	115.819	117.376
24	MLC16,19	I		9.496	9.427	9.402	9.371	9.324	9.098	8.796	8.762	8.802	8.913	8.808
25	MLC20,24	I		14.891	15.197	15.412	15.563	15.507	15.443	15.367	15.140	14.720	14.314	13.919
26	MLC25,34	I		25.627	26.876	28.073	29.230	29.538	30.153	30.806	31.392	31.952	32.429	32.827
27	MLC35,44	I		18.628	19.362	19.980	20.535	21.975	23.171	24.342	25.428	26.521	27.600	28.487
28	MLC45,54	I		16.870	16.802	16.695	16.526	16.459	16.510	16.668	16.813	17.202	17.743	18.572
29	MLC55,64	I		11.576	12.004	12.159	12.104	12.065	12.031	11.881	11.835	11.761	11.632	11.531

A PRODUCT OF WHARTON FFA, INC., 3624 MARKET ST, PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ALGUAL AND INDUSTRY FORECASTING MODEL
 HUMAN PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 14.40 LABOR FORCE

LINE VAR LABEL	J	T	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
LABOR FORCE (% CHANGE)														
1														
2	MALE, TOTAL													
3	NLCM16+	R		1.41	2.2	1.5	0.3	0.9	0.9	0.8	0.9	1.0	1.0	0.8
4	NLCM16-19	R		1.31	-0.6	-0.7	-1.7	-2.2	-2.5	-3.6	-2.0	-0.0	1.2	-1.6
5	NLCM20-24	R		1.01	1.3	0.9	-0.5	-0.6	-0.9	-0.9	-1.9	-3.3	-3.4	-3.6
6	NLCM25-34	R		2.61	3.0	3.6	3.2	0.9	4.0	1.9	1.0	1.7	1.3	0.8
7	NLCM35-44	R		3.51	3.6	2.7	0.9	6.0	4.4	4.3	3.9	3.8	3.6	2.6
8	NLCM45-54	R		-0.51	-0.2	-0.9	-1.9	-0.7	-0.3	0.0	-0.1	1.1	2.1	3.7
9	NLCM55-64	R		0.81	3.2	0.7	-1.0	-1.4	-1.4	-2.0	-0.6	-0.9	-1.4	-1.2
10	NLCM65+	R		3.51	0.8	0.7	-0.9	-0.9	-0.7	-0.6	-0.4	-0.8	-0.5	-0.8
11	FEMALE, TOTAL													
12	NLCF16+	R		2.01	2.6	2.1	1.1	2.1	2.1	2.2	2.1	2.3	2.2	2.1
13	NLCF16-19	R		4.71	2.7	2.8	3.3	2.2	2.2	2.1	2.0	2.0	2.1	2.0
14	NLCF20-24	R		4.11	-0.9	0.2	1.2	1.4	-2.5	-3.0	1.3	1.0	1.4	-0.7
15	NLCF25-34	R		7.11	2.9	2.0	2.7	-0.1	0.1	0.0	-1.1	-2.2	-2.1	-1.0
16	NLCF35-44	R		7.11	0.5	5.7	5.5	1.2	2.4	2.5	2.0	1.9	1.8	1.7
17	NLCF45-54	R		6.81	0.4	3.9	5.4	8.4	6.8	6.1	5.2	5.0	4.7	4.0
18	NLCF55-64	R		0.51	-0.7	-0.3	0.3	0.1	1.2	2.3	2.2	4.0	4.6	6.0
19	NLCF65+	R		2.51	0.5	2.3	1.6	1.2	1.4	-0.2	-0.1	-0.3	-0.7	-0.5
20	NLCF65+	R		5.61	1.9	3.3	1.6	1.5	2.7	2.4	2.1	2.0	2.4	2.8
21	BOTH SEXES, TOTAL													
22	NLC	I		3.01	2.4	2.0	1.5	1.4	1.4	1.3	1.4	1.4	1.5	1.3
23	NLC16-19	I		2.61	-0.7	-0.3	-0.3	-0.5	-2.5	-3.3	-0.4	0.5	1.3	-1.2
24	NLC20-24	I		3.21	2.1	1.4	1.0	-0.4	-0.4	-0.5	-1.5	-2.8	-2.8	-2.8
25	NLC25-34	I		4.41	4.1	4.5	4.1	1.0	2.1	2.2	1.9	1.8	1.5	1.2
26	NLC35-44	I		4.81	3.9	3.2	2.8	7.0	5.4	5.1	4.5	4.3	4.0	3.2
27	NLC45-54	I		-0.11	-0.4	-0.6	-1.0	-0.4	0.3	1.0	0.9	2.3	3.1	4.7
28	NLC55-64	I		1.51	3.7	1.3	-0.5	-0.3	-0.3	-1.2	-0.4	-0.6	-1.1	-0.9

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CHAPTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 14.50 UNEMPLOYMENT RATES (PERCENT)

LINE	VAR LABEL	I	T	E	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	HRUTM16+	1			5.201	5.35	5.69	4.70	4.03	3.61	3.52	3.41	3.57	3.80	3.93
2	HRUTM16,19	0			15.501	15.09	16.25	14.09	12.17	11.20	10.97	10.69	11.20	12.07	12.77
3	HRUTM20,24	0			9.091	9.31	10.05	8.56	7.21	6.51	6.42	6.28	6.64	7.12	7.39
4	HRUTM25,34	0			4.211	4.40	4.49	4.05	3.42	3.06	2.99	2.90	3.04	3.23	3.34
5	HRUTM35,44	0			2.881	3.04	3.28	2.71	2.28	2.04	2.02	1.98	2.10	2.25	2.34
6	HRUTM45,54	0			2.791	2.89	3.01	2.49	2.09	1.87	1.86	1.85	1.98	2.14	2.22
7	HRUTM55,64	0			2.791	2.94	3.16	2.62	2.27	2.08	2.07	2.05	2.20	2.39	2.55
8	HRUTM65+	0			4.591	4.68	4.95	4.04	3.27	3.18	3.10	3.00	3.13	3.36	3.53
9	NRUTM25,34	1			3.421	3.57	3.90	3.24	2.73	2.44	2.40	2.34	2.48	2.64	2.73
10	NRUTM16+	1			7.231	7.35	7.52	6.38	5.37	4.79	4.56	4.34	4.48	4.67	4.80
11	NRUTM16,19	0			17.101	17.02	16.98	14.77	12.72	11.64	11.18	10.71	10.99	11.70	12.29
12	NRUTM20,24	0			10.291	10.41	10.67	9.05	7.55	6.73	6.39	6.04	6.15	6.42	6.55
13	NRUTM25,34	0			6.761	6.92	7.14	6.03	5.07	4.55	4.36	4.16	4.27	4.50	4.64
14	NRUTM35,44	0			5.011	5.17	5.34	4.50	3.81	3.43	3.31	3.18	3.30	3.50	3.63
15	NRUTM45,54	0			4.121	4.33	4.52	3.80	3.21	2.89	2.80	2.69	2.80	2.97	3.09
16	NRUTM55,64	0			3.171	3.50	3.70	3.09	2.61	2.34	2.28	2.20	2.30	2.45	2.54
17	NRUTM65+	0			3.941	4.15	4.28	3.63	3.04	2.72	2.59	2.46	2.51	2.63	2.70
18	NRUTM16,19	1			6.051	6.19	6.46	5.47	4.61	4.13	3.97	3.82	3.95	4.19	4.32
19	NRUTM16,19	0			16.251	16.42	16.60	14.42	12.84	11.42	11.07	10.70	11.09	11.89	12.53
20	NRUTM20,24	1			9.641	9.82	10.34	8.79	7.37	6.62	6.40	6.17	6.40	6.77	6.98
21	NRUTM25,34	1			5.251	5.43	5.83	4.89	4.11	3.69	3.57	3.43	3.56	3.77	3.90
22	NRUTM35,44	1			3.751	3.91	4.14	3.47	2.94	2.65	2.59	2.51	2.64	2.81	2.92
23	NRUTM45,54	1			3.321	3.46	3.61	3.02	2.54	2.29	2.25	2.20	2.33	2.50	2.60
24	NRUTM55,64	1			2.941	3.18	3.37	2.81	2.41	2.19	2.16	2.11	2.24	2.42	2.54
25	NRUTM65+	1			4.351	4.49	4.63	3.91	3.32	2.99	2.89	2.78	2.87	3.05	3.17
26	NRUTM16,19	1			0.697310	0.6937	0.6970	0.7040	0.7025	0.6993	0.6991	0.6955	0.6930	0.6940	0.7067
27	NRUTM16,19	0			0.895010	0.8877	0.8905	0.8914	0.8910	0.8897	0.8881	0.8873	0.8878	0.8888	0.8896
28	NRUTM20,24	1			0.488410	0.4837	0.4890	0.4994	0.4825	0.4797	0.4775	0.4785	0.4839	0.4902	0.4985
29	NRUTM20,24	0			0.259910	0.2584	0.2604	0.2621	0.2647	0.2666	0.2669	0.2667	0.2670	0.2671	0.2680
30	NRUTM16,19	1			0.661310	0.6736	0.6795	0.6691	0.6474	0.6452	0.6460	0.6360	0.6369	0.6429	0.6538
31	NRUTM16,19	0			0.204710	0.2140	0.2213	0.2237	0.2233	0.2241	0.2265	0.2297	0.2334	0.2384	0.2435
32	NRUTM20,24	1			5.6311	5.618	5.589	5.412	5.196	4.987	4.803	4.734	4.768	4.873	4.831
33	NRUTM20,24	0			3.7301	3.681	3.634	3.529	3.352	3.209	3.123	3.109	3.178	3.255	3.154
34	NRUTM25,34	1			1.9001	1.937	1.955	1.844	1.844	1.778	1.680	1.625	1.598	1.618	1.677
35	NRUTM25,34	0			2.4131	2.472	2.508	2.559	2.579	2.572	2.547	2.510	2.431	2.356	2.287
36	NRUTM16,19	1			5.5501	5.598	5.538	5.186	4.966	4.862	4.575	4.461	4.469	4.580	4.629
37	NRUTM16,19	0			2.1271	2.248	2.308	2.323	2.322	2.331	2.345	2.342	2.323	2.303	2.275
38	NRUTM20,24	1			1837.1	1854	1871	1871	1940	1962	1978	1994	2008	2021	2035
39	NRUTM20,24	0			55.1	55	56	56	56	55	54	53	52	51	51
40	NRUTM25,34	1			118.1	121	128	128	131	134	136	137	138	139	140
41	NRUTM25,34	0													
42	NRUTM35,44	1													
43	NRUTM35,44	0													
44	NRUTM45,54	1													
45	NRUTM45,54	0													
46	NRUTM55,64	1													
47	NRUTM55,64	0													
48	NRUTM65+	1													
49	NRUTM65+	0													
50	NRUTM16,19	1													
51	NRUTM16,19	0													

A PRODUCT OF QUANTIS, INC., 3024 MARKET ST., PHILA, PA 19104. CRITIC PERMISSIO MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON AIRMAIL AND INDUSTRY FORECASTING MODEL
 WHARTON PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 14.60 NUMBER OF UNEMPLOYED

LINE	VAN LIND	TITLE	1974	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1		NUMBER OF UNEMPLOYED											
2		(MILLIONS)											
3		MALE, TOTAL	3.0821	3.149	3.452	2.910	2.470	2.235	2.194	2.143	2.266	2.440	2.539
4	NUT16+	AGES 16 TO 19	0.7831	0.794	0.811	0.691	0.584	0.524	0.495	0.472	0.495	0.539	0.561
5	NUT16-19	AGES 20 TO 24	0.7291	0.757	0.825	0.699	0.585	0.523	0.511	0.491	0.502	0.519	0.520
6	NUT20-24	AGES 25 TO 34	0.6441	0.697	0.804	0.687	0.585	0.533	0.531	0.524	0.558	0.601	0.627
7	NUT25-34	AGES 35 TO 44	0.3171	0.346	0.384	0.320	0.285	0.267	0.275	0.280	0.309	0.343	0.364
8	NUT35-44	AGES 45 TO 54	0.2831	0.292	0.302	0.245	0.204	0.182	0.182	0.180	0.195	0.215	0.232
9	NUT45-54	AGES 55 TO 64	0.1981	0.218	0.233	0.190	0.162	0.146	0.143	0.140	0.149	0.167	0.169
10	NUT55-64	AGES 65 AND OVER	0.0881	0.090	0.094	0.078	0.067	0.060	0.058	0.056	0.058	0.062	0.065
11	NUT65+	MALE, AGES 25 TO 54	1.2441	1.335	1.489	1.252	1.073	0.982	0.987	0.983	1.062	1.159	1.223
12	NUT25-54	FEMALE, TOTAL	3.0251	3.160	3.322	2.913	2.506	2.284	2.217	2.153	2.246	2.412	2.528
13	NUT16+	AGES 16 TO 19	0.7601	0.749	0.750	0.660	0.576	0.514	0.479	0.465	0.482	0.520	0.542
14	NUT16-19	AGES 20 TO 24	0.7061	0.735	0.769	0.670	0.559	0.498	0.473	0.462	0.480	0.450	0.451
15	NUT20-24	AGES 25 TO 34	0.7131	0.763	0.832	0.742	0.631	0.579	0.569	0.554	0.580	0.622	0.652
16	NUT25-34	AGES 35 TO 44	0.3021	0.412	0.443	0.393	0.360	0.347	0.355	0.359	0.390	0.434	0.460
17	NUT35-44	AGES 45 TO 54	0.2781	0.289	0.301	0.254	0.215	0.196	0.194	0.191	0.206	0.229	0.252
18	NUT45-54	AGES 55 TO 64	0.1421	0.164	0.177	0.151	0.128	0.117	0.114	0.110	0.114	0.121	0.125
19	NUT55-64	AGES 65 AND OVER	0.0441	0.048	0.051	0.044	0.037	0.034	0.033	0.032	0.033	0.036	0.038
20	NUT	BOTH SEXES, TOTAL	6.0471	6.359	6.774	5.822	4.976	4.519	4.411	4.296	4.513	4.852	5.067
21	NUT16+	AGES 16 TO 19	1.5431	1.548	1.560	1.351	1.160	1.038	0.974	0.937	0.977	1.059	1.104
22	NUT16-19	AGES 20 TO 24	1.4351	1.492	1.594	1.364	1.143	1.022	0.984	0.934	0.942	0.970	0.971
23	NUT20-24	AGES 25 TO 34	1.1571	1.460	1.636	1.429	1.215	1.112	1.100	1.078	1.116	1.224	1.280
24	NUT25-34	AGES 35 TO 44	0.5611	0.582	0.603	0.499	0.418	0.377	0.375	0.370	0.401	0.444	0.483
25	NUT35-44	AGES 45 TO 54	0.3401	0.382	0.410	0.340	0.290	0.263	0.256	0.250	0.264	0.281	0.293
26	NUT45-54	AGES 55 TO 64	0.1321	0.138	0.145	0.122	0.104	0.094	0.091	0.088	0.092	0.098	0.102
27	NUT55-64	AGES 65 AND OVER											

A PRODUCT OF WHARTON EFA, INC., 3624 MARKET ST., PHILA., PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 14.60 NUMBER OF UNEMPLOYED

LINE VAR LABEL	T	F	M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NUMBER OF UNEMPLOYED													
2	(% CHANGE)													
3	MALE, TOTAL													
4	NUTM16+	I			5.2	7.9	-15.7	-15.1	-9.5	-1.8	-2.3	5.7	7.7	4.1
5	NUTM16.19	B			1.9	1.6	-14.8	-15.5	-10.2	-5.6	-6.5	4.7	9.0	4.1
6	NUTM20.24	H			3.8	9.0	-15.3	-16.3	-10.5	-2.4	-3.9	2.2	3.5	0.1
7	NUTM25.34	H			8.3	15.3	-14.5	-14.9	-8.8	-0.5	-1.3	6.6	7.7	4.3
8	NUTM35.44	H			9.3	10.9	-16.6	-10.9	-6.5	3.0	1.9	10.3	11.0	6.4
9	NUTM45.54	H			3.3	3.3	-19.1	-16.7	-10.7	-0.1	-1.1	6.7	10.1	7.8
10	NUTM55.64	H			10.0	6.7	-18.4	-14.8	-9.8	-2.2	-1.7	6.2	7.4	5.3
11	NUTM65+	B			2.9	4.3	-16.7	-15.1	-9.8	-3.1	-3.5	5.7	6.5	4.3
12	NUTM25.50	I			7.4	11.5	-16.0	-14.3	-8.5	0.5	-0.4	8.0	9.1	5.6
13	NUTF16+	I			4.5	5.1	-12.3	-14.0	-8.9	-2.9	-2.9	4.4	7.4	4.8
14	NUTF16.19	B			-1.3	0.0	-11.9	-12.7	-10.8	-6.8	-3.0	3.6	7.9	4.3
15	NUTF20.24	H			4.1	4.6	-12.9	-16.6	-10.8	-5.1	-6.5	-0.5	2.4	0.2
16	NUTF25.34	H			6.9	9.1	-10.8	-15.0	-8.2	-1.7	-2.7	4.8	7.3	4.8
17	NUTF35.44	H			7.8	7.5	-11.3	-8.3	-3.9	2.5	1.1	8.8	11.1	7.9
18	NUTF45.54	H			4.2	4.1	-15.7	-15.5	-8.9	-0.9	-1.5	8.1	11.1	10.0
19	NUTF55.64	H			15.3	4.1	-14.9	-14.7	-8.9	-2.8	-3.3	4.2	5.6	3.1
20	NUTF65+	B			7.4	6.5	-14.0	-15.0	-8.7	-2.5	-3.2	4.1	7.4	5.4
21	BOTH SEXES, TOTAL													
22	NUT	I			4.4	6.5	-14.1	-14.5	-9.2	-2.4	-2.6	5.0	7.5	4.4
23	NUT16.19	I			0.3	0.8	-13.4	-14.1	-10.5	-6.2	-3.8	4.2	8.5	4.2
24	NUT20.24	I			4.0	6.8	-14.1	-16.5	-10.6	-3.7	-3.8	4.2	8.5	4.2
25	NUT25.34	I			7.6	12.0	-12.6	-15.0	-8.5	-1.1	-2.0	5.6	7.5	4.6
26	NUT35.44	I			4.5	9.0	-13.7	-9.5	-5.0	2.7	1.4	9.4	11.0	7.3
27	NUT45.54	I			3.7	3.7	-17.4	-16.1	-9.8	-0.5	-1.3	8.8	10.6	8.9
28	NUT55.64	I			12.2	7.3	-16.9	-14.7	-9.4	-2.5	-2.4	5.3	6.6	4.4
29	NUT65+	I			4.4	5.0	-15.7	-15.0	-9.4	-2.9	-3.4	3.8	6.8	4.7

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QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 14.70 CIVILIAN NONINSTITUTIONAL POPULATION

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	CIV NONINST POPULATION (MILLIONS)											
2	MALLES TOTAL	75,197,176	77,491	78,496	79,390	80,217	80,990	81,766	82,576	83,418	84,095	
3	AGES 16 TO 19	8,150,181	8,047	7,856	7,602	7,331	7,045	6,731	6,408	6,091	5,875	
4	AGES 20 TO 24	4,207,116	4,077	3,959	3,765	3,611	3,520	3,503	3,568	3,621	3,547	
5	AGES 25 TO 29	3,943,136	3,970	3,897	3,837	3,720	3,525	3,370	3,279	3,262	3,120	
6	AGES 30 TO 34	3,361,950	3,600	3,699	3,682	3,630	3,558	3,400	3,109	2,808	2,505	
7	AGES 35 TO 39	16,095,116	17,212	17,842	18,037	18,371	18,697	19,020	19,307	19,507	19,432	
8	AGES 40 TO 44	8,533,877	8,979	9,171	9,391	9,564	9,696	9,780	9,873	9,855	9,803	
9	AGES 45 TO 49	7,562,789	8,233	8,671	8,946	9,001	9,001	9,241	9,433	9,652	9,829	
10	AGES 50 TO 54	11,503,111	12,154	12,428	13,200	13,799	14,181	14,938	15,495	16,032	16,416	
11	AGES 55 TO 59	6,128,438	6,407	6,737	7,298	7,583	7,867	8,207	8,635	9,004	9,354	
12	AGES 60 TO 64	5,375,462	5,547	5,691	5,902	6,256	6,514	6,731	6,860	7,417	7,662	
13	AGES 65 TO 69	11,081,091	10,873	10,805	10,761	10,745	10,759	10,761	10,883	11,105	11,507	
14	AGES 70 AND OVER	5,456,130	5,301	5,280	5,296	5,350	5,418	5,517	5,659	5,866	6,213	
15	AGES 16 TO 19	5,624,150	5,572	5,526	5,465	5,395	5,325	5,248	5,224	5,240	5,294	
16	AGES 20 TO 24	5,650,170	5,903	6,008	6,103	6,178	6,204	6,204	6,240	6,246	6,275	
17	AGES 25 TO 29	5,305,136	5,385	5,392	5,353	5,338	5,303	5,289	5,246	5,187	5,119	
18	AGES 30 TO 34	4,351,411	4,518	4,616	4,750	4,801	4,901	4,915	4,924	4,808	4,875	
19	AGES 35 TO 39	9,370,195	9,703	9,857	10,005	10,143	10,345	10,570	10,765	10,901	11,166	
20	AGES 40 TO 44	3,701,350	3,773	3,805	3,828	3,858	3,915	4,015	4,105	4,225	4,304	
21	AGES 45 TO 49	5,645,174	5,930	6,053	6,177	6,305	6,430	6,554	6,660	6,756	6,862	
22	AGES 50 TO 54	13,923,185	14,181	14,384	14,508	14,621	14,718	14,811	14,901	15,031	15,166	
23	AGES 55 TO 59	8,204,123	8,488	8,799	9,132	9,468	9,792	10,117	10,442	10,767	11,092	
24	AGES 60 TO 64	4,177,403	4,372	4,564	4,811	5,058	5,305	5,552	5,799	6,046	6,293	
25	AGES 65 TO 69	10,080,110	10,310	10,408	10,394	10,341	10,257	10,105	9,816	9,520	9,217	
26	AGES 70 AND OVER	16,990,171	17,319	18,096	18,745	19,286	19,618	19,945	20,280	20,552	20,844	
27	AGES 16 TO 19	9,015,120	9,444	9,643	9,870	10,055	10,190	10,281	10,375	10,359	10,307	
28	AGES 20 TO 24	7,970,831	8,652	9,102	9,076	9,232	9,428	9,664	9,865	10,094	10,277	
29	AGES 25 TO 29	12,416,112	13,103	13,374	14,151	14,761	15,359	15,934	16,503	17,037	17,436	
30	AGES 30 TO 34	6,644,609	7,134	7,260	7,822	8,069	8,402	8,753	9,198	9,688	9,321	
31	AGES 35 TO 39	5,772,111	5,968	6,115	6,329	6,691	6,957	7,181	7,305	7,469	7,615	
32	AGES 40 TO 44	11,873,111	12,300	12,598	12,811	13,042	13,292	13,562	13,832	14,102	14,372	
33	AGES 45 TO 49	5,747,105	5,614	5,606	5,635	5,697	5,795	5,890	6,035	6,245	6,461	
34	AGES 50 TO 54	6,061,025	5,984	5,908	5,827	5,751	5,671	5,582	5,575	5,502	5,468	
35	AGES 55 TO 59	10,705,103	11,063	11,170	11,258	11,321	11,320	11,293	11,225	11,101	10,990	
36	AGES 60 TO 64	5,827,107	5,898	5,901	5,852	5,813	5,755	5,717	5,644	5,566	5,492	
37	AGES 65 TO 69	4,968,107	5,164	5,269	5,406	5,508	5,566	5,576	5,581	5,535	5,499	
38	AGES 70 AND OVER	13,480,113	14,054	14,314	14,563	14,819	15,111	15,444	15,742	16,000	16,149	
39	AGES 16 TO 19	4,686,132	4,753	4,787	4,816	4,848	4,926	5,044	5,151	5,286	5,383	
40	AGES 20 TO 24	8,798,103	9,301	9,527	9,747	9,971	10,185	10,400	10,592	10,774	10,966	
41	AGES 25 TO 29	15,912,016	16,566	17,167	17,768	18,369	18,970	19,571	20,172	20,773	21,374	
42	AGES 30 TO 34	16,438,163	16,206	15,835	15,334	14,799	14,237	13,690	13,138	12,586	12,034	
43	AGES 35 TO 39	19,481,192	19,911	20,107	20,076	19,971	19,815	19,505	19,028	18,427	17,722	
44	AGES 40 TO 44	23,089,134	23,500	23,648	23,698	23,657	23,515	23,265	22,915	22,565	22,215	
45	AGES 45 TO 49	23,920,124	24,256	24,502	24,756	24,960	25,124	25,288	25,452	25,616	25,780	
46	AGES 50 TO 54	22,954,127	23,271	23,319	23,223	23,193	23,125	23,057	22,989	22,921	22,853	
47	AGES 55 TO 59	20,451,120	21,178	21,361	21,500	21,524	21,524	21,497	21,394	21,176	20,945	
48	AGES 60 TO 64	22,452,123	23,293	24,172	24,568	24,962	25,356	25,750	26,144	26,538	26,932	
49	AGES 65 TO 69	19,481,192	19,911	20,107	20,076	19,971	19,815	19,505	19,028	18,427	17,722	
50	AGES 70 AND OVER	13,480,113	14,054	14,314	14,563	14,819	15,111	15,444	15,742	16,000	16,149	

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QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 14.70 CIVILIAN NONINSTITUTIONAL POPULATION

LINE	VAR LABEL	TIME	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
CIV NONINST POPULATION (% CHANGE)													
1	NPCHM16+	MALE, TOTAL	1.71	1.6	1.5	1.3	1.1	1.0	1.0	1.0	1.0	1.0	0.8
2	NPCHM16.19	AGES 16 TO 19	-0.21	-0.5	-0.8	-2.4	-3.2	-3.6	3.9	-2.4	-0.4	1.0	-0.7
3	NPCHM16.17P2	AGES 16 TO 17	-0.21	-1.7	-1.4	-2.9	-4.9	-4.1	-2.5	-0.5	1.9	2.5	-3.1
4	NPCHM18.19P2	AGES 18 TO 19	-0.21	0.8	-0.1	-1.8	-1.5	-3.0	-5.2	-4.4	-2.7	-0.5	-3.1
5	NPCHM20.24	AGES 20 TO 24	1.81	1.5	1.0	1.0	-0.2	-0.5	-0.7	-1.7	-3.1	-3.3	-3.4
6	NPCHM25.34	AGES 25 TO 34	3.11	3.3	3.5	3.7	1.1	1.9	1.8	0.9	1.5	1.0	0.6
7	NPCHM35.49P2	AGES 35 TO 49	1.91	2.4	2.8	2.1	2.4	1.9	1.3	0.9	1.0	-0.2	-0.5
8	NPCHM50.54P2	AGES 50 TO 54	3.31	4.4	4.3	5.3	-0.3	1.8	2.3	2.7	2.1	2.3	1.8
9	NPCHM60.64P2	AGES 60 TO 64	3.71	3.0	2.6	2.3	6.2	4.5	4.2	3.9	3.7	1.4	2.5
10	NPCHM35.39P2	AGES 35 TO 39	6.21	4.2	3.4	2.0	8.3	3.3	4.3	4.3	5.2	-0.4	1.7
11	NPCHM45.49P2	AGES 45 TO 49	1.01	1.6	1.6	2.6	3.7	6.0	4.1	3.3	1.9	8.1	3.3
12	NPCHM55.54P2	AGES 55 TO 59	-0.91	-1.0	-0.9	-0.6	-0.4	-0.1	0.1	0.0	1.1	2.0	3.6
13	NPCHM65.64P2	AGES 65 TO 69	-1.31	-1.3	-1.5	-0.4	0.3	1.0	1.6	1.5	2.6	3.7	5.9
14	NPCHM75.64P2	AGES 75 TO 79	-0.31	-0.6	-0.3	-0.8	-1.1	-1.3	-1.3	-1.5	-0.4	0.3	1.0
15	NPCHM85.64P2	AGES 85 TO 89	1.41	1.3	1.3	1.1	0.9	0.8	0.3	-0.0	-0.3	-0.9	-0.8
16	NPCHM95.64P2	AGES 95 TO 99	1.91	1.2	0.3	0.1	-0.7	-0.3	-0.6	-0.3	-0.8	-1.1	-1.3
17	NPCHM55.59P2	AGES 55 TO 59	0.81	1.4	2.4	2.2	2.9	1.9	1.2	0.3	0.2	-0.7	-0.3
18	NPCHM60.64P2	AGES 60 TO 64	1.61	1.9	1.9	1.6	1.5	1.6	1.8	2.2	1.9	2.0	1.7
19	NPCHM65.64P2	AGES 65 TO 69	1.41	1.3	0.6	0.0	0.6	0.0	1.5	2.6	2.2	2.9	1.9
20	NPCHM70.64P2	AGES 70 TO 74	2.31	2.3	2.7	2.1	2.0	2.1	2.0	1.9	1.6	1.4	1.6
21	NPCHM75.64P2	AGES 75 TO 79	1.81	1.5	1.4	1.3	1.1	1.1	1.0	1.0	1.0	1.0	0.8
22	NPCHM85.64P2	AGES 85 TO 89	-0.21	-0.6	-0.9	-2.2	-3.1	-3.4	-3.7	-2.4	-0.4	0.0	-0.6
23	NPCHM95.64P2	AGES 95 TO 99	-0.21	-1.7	-1.6	-2.7	-4.7	-4.2	-2.5	-0.5	-2.5	2.1	-3.1
24	NPCHM16.17P2	AGES 16 TO 17	-0.21	0.5	-0.2	-1.7	-1.5	-2.7	-4.8	-4.1	-2.5	-0.6	-1.9
25	NPCHM18.19P2	AGES 18 TO 19	2.21	1.4	0.9	0.9	-0.1	-0.5	-0.6	-1.5	-2.9	-3.0	-3.2
26	NPCHM20.24	AGES 20 TO 24	2.61	3.1	3.3	3.6	1.1	1.8	1.7	1.7	1.5	1.0	0.6
27	NPCHM25.34	AGES 25 TO 34	2.71	2.1	2.6	2.1	2.4	1.9	1.3	0.9	0.9	-0.2	-0.5
28	NPCHM35.49P2	AGES 35 TO 44	3.01	4.1	4.1	5.2	-0.3	1.7	2.1	2.5	2.1	2.3	1.8
29	NPCHM45.49P2	AGES 45 TO 49	3.41	2.9	2.5	2.1	5.8	4.3	4.1	3.7	3.6	3.2	2.3
30	NPCHM55.54P2	AGES 55 TO 59	5.11	4.0	3.3	1.8	7.8	3.2	4.1	4.2	5.1	-0.3	1.7
31	NPCHM65.64P2	AGES 65 TO 69	1.11	1.7	1.7	2.5	3.5	5.7	4.0	3.2	1.7	7.7	3.1
32	NPCHM75.64P2	AGES 75 TO 79	-1.11	-1.2	-1.1	-0.7	-0.4	-0.1	0.2	0.1	1.2	2.1	3.5
33	NPCHM85.64P2	AGES 85 TO 89	-1.31	-1.8	-1.6	-0.1	0.5	1.1	1.7	1.6	2.4	3.5	5.7
34	NPCHM95.64P2	AGES 95 TO 99	-0.71	-1.0	-0.7	-1.3	-1.4	-1.3	-1.4	-1.6	-0.1	0.5	1.1
35	NPCHM50.54P2	AGES 50 TO 54	1.41	1.3	1.2	1.0	0.8	0.6	-0.0	-0.2	-0.6	-1.1	-1.0
36	NPCHM55.54P2	AGES 55 TO 59	1.81	1.6	0.2	0.1	-0.8	-0.7	-1.0	-0.7	-1.3	-0.4	-1.3
37	NPCHM60.64P2	AGES 60 TO 64	3.11	2.1	2.1	2.0	2.6	1.9	1.0	0.2	0.1	-0.4	-0.7
38	NPCHM65.64P2	AGES 65 TO 69	1.41	1.0	0.4	0.7	0.6	0.7	1.6	2.4	2.1	2.6	1.8
39	NPCHM70.64P2	AGES 70 TO 74	2.81	2.8	2.9	2.4	2.3	2.3	2.2	2.1	1.8	1.7	1.8
40	NPCHM75.64P2	AGES 75 TO 79	1.71	1.5	1.4	1.3	1.1	1.1	1.0	1.0	1.0	1.0	0.8
41	NPCHM85.64P2	AGES 85 TO 89	-0.21	-0.6	-0.9	-2.3	-3.2	-3.5	-3.8	-2.4	-0.4	0.9	-0.7
42	NPCHM95.64P2	AGES 95 TO 99	2.01	1.4	0.9	1.0	-0.2	-0.5	-0.8	-1.6	-3.0	-3.2	-3.3
43	NPCHM16.19	AGES 16 TO 19	2.91	3.2	3.4	3.6	1.1	1.8	1.7	1.7	1.5	1.0	0.6
44	NPCHM25.34	AGES 25 TO 34	3.51	3.0	2.5	2.2	6.0	4.4	4.1	3.8	3.6	3.3	2.4
45	NPCHM35.49	AGES 35 TO 44	-1.01	-1.1	-1.0	-0.7	-0.4	-0.1	0.1	0.0	1.2	2.1	3.6
46	NPCHM45.49	AGES 45 TO 49	1.41	1.3	1.2	1.0	0.9	0.7	0.1	-0.1	-0.5	-1.0	-0.9
47	NPCHM55.54	AGES 55 TO 59	2.51	2.0	2.0	1.7	1.6	1.7	1.9	2.2	1.9	2.0	1.6
48	NPCHM65.64	AGES 65 TO 69	1.41	1.0	0.4	0.7	0.6	0.7	1.6	2.4	2.1	2.6	1.8
49	NPCHM75.64	AGES 75 TO 79	2.81	2.8	2.9	2.4	2.3	2.3	2.2	2.1	1.8	1.7	1.8
50	NPCHM85.64	AGES 85 TO 89	1.71	1.5	1.4	1.3	1.1	1.1	1.0	1.0	1.0	1.0	0.8
51	NPCHM95.64	AGES 95 TO 99	-0.21	-0.6	-0.9	-2.3	-3.2	-3.5	-3.8	-2.4	-0.4	0.9	-0.7
52	NPCHM16.19	AGES 16 TO 19	2.01	1.4	0.9	1.0	-0.2	-0.5	-0.8	-1.6	-3.0	-3.2	-3.3
53	NPCHM25.34	AGES 25 TO 34	3.51	3.0	2.5	2.2	6.0	4.4	4.1	3.8	3.6	3.3	2.4
54	NPCHM35.49	AGES 35 TO 44	-1.01	-1.1	-1.0	-0.7	-0.4	-0.1	0.1	0.0	1.2	2.1	3.6
55	NPCHM45.49	AGES 45 TO 49	1.41	1.3	1.2	1.0	0.9	0.7	0.1	-0.1	-0.5	-1.0	-0.9
56	NPCHM55.54	AGES 55 TO 59	2.51	2.0	2.0	1.7	1.6	1.7	1.9	2.2	1.9	2.0	1.6
57	NPCHM65.64	AGES 65 TO 69	1.41	1.0	0.4	0.7	0.6	0.7	1.6	2.4	2.1	2.6	1.8
58	NPCHM75.64	AGES 75 TO 79	2.81	2.8	2.9	2.4	2.3	2.3	2.2	2.1	1.8	1.7	1.8
59	NPCHM85.64	AGES 85 TO 89	1.71	1.5	1.4	1.3	1.1	1.1	1.0	1.0	1.0	1.0	0.8
60	NPCHM95.64	AGES 95 TO 99	-0.21	-0.6	-0.9	-2.3	-3.2	-3.5	-3.8	-2.4	-0.4	0.9	-0.7

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 15.10 MANHOURS (MILLIONS)

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NMLTTFN	H WINGING	1.951	1.97	1.92	1.90	1.89	1.89	1.87	1.88	1.90	1.92	1.93
2	NMLTTFN	I MANUFACTURING	42.471	43.36	43.84	44.56	45.44	45.95	46.18	46.66	46.85	46.92	46.88
3	NMLTTFN	I DURABLE GOODS	25.701	26.46	26.92	27.62	28.41	28.87	29.02	29.46	29.59	29.62	29.58
4	NMLTTFN	R LUMBER	1.381	1.39	1.40	1.43	1.47	1.51	1.54	1.57	1.60	1.62	1.65
5	NMLTTFN	R FURNITURE	1.091	1.13	1.16	1.18	1.21	1.23	1.25	1.28	1.29	1.31	1.32
6	NMLTTFN	R STONE, CLAY AND GLASS	1.501	1.57	1.62	1.65	1.68	1.71	1.71	1.74	1.76	1.76	1.76
7	NMLTTFN	R PRIMARY METALS	2.681	2.74	2.78	2.86	2.96	3.00	2.99	3.02	3.01	2.97	2.92
8	NMLTTFN	R FABRICATED METAL PRODUCTS	3.251	3.32	3.40	3.50	3.63	3.70	3.72	3.78	3.80	3.80	3.79
9	NMLTTFN	R NON-ELECTRICAL MACHINERY	4.951	5.04	5.22	5.43	5.67	5.82	5.88	6.03	6.08	6.10	6.10
10	NMLTTFN	R ELECTRICAL MACHINERY	4.291	4.48	4.51	4.58	4.66	4.71	4.72	4.76	4.77	4.76	4.75
11	NMLTTFN	R MOTOR VEHICLES	2.121	2.15	2.16	2.20	2.23	2.23	2.22	2.23	2.20	2.17	2.14
12	NMLTTFN	R NON-AUTO TRANS EQ + MISC	3.281	3.44	3.44	3.53	3.61	3.65	3.66	3.71	3.74	3.76	3.77
13	NMLTTFN	R INSTRUMENTS	1.161	1.22	1.24	1.26	1.29	1.31	1.32	1.34	1.36	1.37	1.38
14	NMLTTFN	I NON-DURABLE GOODS	16.771	16.89	16.92	16.95	17.02	17.08	17.12	17.20	17.26	17.30	17.30
15	NMLTTFN	B FOOD AND BEVERAGES	3.621	3.56	3.49	3.42	3.37	3.32	3.28	3.26	3.25	3.25	3.25
16	NMLTTFN	B TOBACCO	0.141	0.14	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13
17	NMLTTFN	B TEXTILES	2.041	2.03	2.02	2.03	2.06	2.08	2.10	2.12	2.14	2.15	2.15
18	NMLTTFN	B APPAREL	2.401	2.44	2.44	2.45	2.45	2.45	2.44	2.43	2.40	2.38	2.35
19	NMLTTFN	B PAPER	1.571	1.60	1.61	1.64	1.67	1.69	1.70	1.71	1.72	1.73	1.73
20	NMLTTFN	B PRINTING AND PUBLISHING	2.221	2.29	2.32	2.35	2.39	2.42	2.46	2.50	2.54	2.58	2.61
21	NMLTTFN	B CHEMICALS	2.321	2.33	2.34	2.32	2.31	2.30	2.31	2.31	2.32	2.32	2.32
22	NMLTTFN	B PETROLEUM	0.461	0.48	0.48	0.48	0.48	0.47	0.46	0.46	0.45	0.44	0.43
23	NMLTTFN	B RUBBER	1.461	1.49	1.53	1.57	1.62	1.67	1.70	1.74	1.76	1.79	1.80
24	NMLTTFN	B LEATHER	0.521	0.53	0.55	0.55	0.55	0.55	0.54	0.54	0.54	0.53	0.53

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGH-M PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 15.20 HOURS, GROWTH RATES

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NHLYTTC	R MINING	2.11	1.4	-2.5	-1.3	-0.2	-0.3	-0.8	0.5	1.0	1.0	0.5
2													
3	NHLYTTF	I MANUFACTURING	3.61	2.1	1.1	1.7	2.0	1.1	0.4	1.1	0.4	0.2	-0.1
4													
5	NHLYTTFD	I DURABLE GOODS	5.31	3.0	1.7	2.6	2.9	1.6	0.5	1.5	0.4	0.1	-0.1
6													
7	NHLYTTFD24	R LUMBER	3.31	0.5	0.4	2.4	3.1	2.7	2.1	1.7	1.7	1.6	1.4
8	NHLYTTFD25	R FURNITURE	5.91	3.6	2.8	1.5	2.5	1.7	1.5	2.8	0.5	1.5	0.9
9	NHLYTTFD32	R STONE, CLAY AND GLASS	6.71	4.5	3.7	1.6	2.1	1.3	0.5	1.7	0.9	0.3	0.0
10	NHLYTTFD33	R PRIMARY METALS	4.21	2.1	1.4	2.9	3.6	1.4	-0.4	1.0	-0.4	-1.3	-1.5
11	NHLYTTFD34	R FABRICATED METAL PRODUCTS	5.21	2.3	2.2	3.2	3.6	1.9	0.5	1.6	0.4	0.1	-0.2
12	NHLYTTFD35	R NON ELECTRICAL MACHINERY	4.71	1.8	3.4	4.1	4.4	2.7	1.1	2.4	0.9	0.4	0.0
13	NHLYTTFD36	R ELECTRICAL MACHINERY	6.01	4.4	0.8	1.4	1.8	1.0	0.3	0.9	0.1	-0.1	-0.3
14	NHLYTTFD371	R MOTOR VEHICLES	3.61	1.5	0.6	1.9	1.1	0.3	-0.6	0.3	-1.0	-1.5	-1.7
15	NHLYTTFD37SP2	R NONAUTO TRANS ED + MISC	6.31	4.6	0.3	2.5	2.4	1.0	0.3	1.4	0.7	0.5	0.3
16	NHLYTTFD3A	R INSTRUMENTS	4.91	4.7	1.6	2.0	2.3	1.5	0.9	1.6	1.1	0.9	0.8
17													
18	NHLYTTFH	I NONDURABLE GOODS	1.41	0.8	0.1	0.2	0.5	0.4	0.2	0.4	0.4	0.2	0.0
19													
20	NHLYTTFH20	R FOOD AND BEVERAGES	1.41	-1.6	-1.9	-2.0	-1.6	-1.4	-1.2	-0.7	-0.2	-0.1	0.1
21	NHLYTTFH21	R TOBACCO	0.11	-1.3	-1.4	-1.1	-0.9	-0.9	-0.9	-0.6	-1.1	-1.2	-1.3
22	NHLYTTFH22	R TEXTILES	-0.91	-0.6	-0.7	0.0	1.3	1.1	0.8	1.1	0.8	0.5	-0.2
23	NHLYTTFH23	R APPAREL	1.31	1.5	-0.0	0.3	0.3	0.0	-0.6	-0.6	-0.9	-1.0	-1.2
24	NHLYTTFH26	R PAPER	1.01	1.6	1.0	1.6	1.7	1.3	0.8	0.8	0.6	0.3	-0.0
25	NHLYTTFH27	R PRINTING AND PUBLISHING	1.91	3.1	1.4	1.4	1.3	1.5	1.5	1.7	1.6	1.5	1.3
26	NHLYTTFH28	R CHEMICALS	1.21	0.6	0.4	-1.1	-0.5	-0.3	0.3	0.4	0.3	0.1	-0.1
27	NHLYTTFH29	R PETROLEUM	-0.51	2.6	1.1	-0.6	-0.7	-1.0	-1.3	-1.4	-1.6	-1.6	-2.0
28	NHLYTTFH30	R RUBBER	1.61	2.0	2.3	2.8	3.4	2.7	1.9	2.3	1.6	1.3	0.9
29	NHLYTTFH31	R LEATHER	2.81	2.2	2.9	0.5	0.0	-0.5	-0.9	-0.7	-0.7	-0.7	-0.8

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 16.10 REAL OUTPUT PER MANHOUR (1972 \$ / MANHOUR)

LINE	VAR LABEL	T I T L E	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	X1GMM	MINING	10.71	10.9	11.6	12.4	13.1	13.7	14.3	14.9	15.3	15.7	16.1
2	X1FMM	MANUFACTURING	8.11	8.2	8.4	8.7	9.1	9.3	9.6	9.9	10.1	10.4	10.7
3	X1FMM	MANUFACTURING	8.11	8.2	8.4	8.7	9.1	9.3	9.6	9.9	10.1	10.4	10.7
4	X1FMM	MANUFACTURING	8.11	8.2	8.4	8.7	9.1	9.3	9.6	9.9	10.1	10.4	10.7
5	X1FMM	DURABLE GOODS	7.91	8.0	8.2	8.5	8.8	9.0	9.2	9.5	9.7	10.0	10.2
6	X1FMM	DURABLE GOODS	7.91	8.0	8.2	8.5	8.8	9.0	9.2	9.5	9.7	10.0	10.2
7	X1FMM	LUMBER	7.21	7.5	7.9	8.2	8.5	8.7	8.8	9.0	9.2	9.5	9.7
8	X1FMM	FURNITURE	4.81	4.8	4.9	5.1	5.3	5.4	5.6	5.8	6.0	6.1	6.2
9	X1FMM	STONE, CLAY AND GLASS	7.21	7.2	7.2	7.4	7.5	7.7	7.9	8.1	8.2	8.4	8.6
10	X1FMM	PRIMARY METALS	7.81	8.0	8.2	8.4	8.5	8.6	8.7	8.9	9.0	9.2	9.4
11	X1FMM	FABRICATED METAL PRODUCTS	6.51	6.6	6.7	6.9	7.0	7.1	7.2	7.4	7.5	7.6	7.8
12	X1FMM	NON-ELECTRICAL MACHINERY	7.61	7.8	8.0	8.2	8.5	8.6	8.8	9.0	9.2	9.4	9.6
13	X1FMM	ELECTRICAL MACHINERY	7.61	7.8	7.9	8.3	8.6	9.0	9.3	9.7	10.1	10.4	10.8
14	X1FMM	MOTOR VEHICLES	16.41	16.5	17.1	18.0	19.0	19.8	20.5	21.6	22.5	23.5	24.4
15	X1FMM	NON-AUTO TRANSPORT & MISC MFD	6.51	6.6	6.7	6.9	7.1	7.3	7.5	7.7	7.8	8.0	8.2
16	X1FMM	INSTRUMENTS	7.91	7.9	8.1	8.4	8.7	9.0	9.2	9.5	9.8	10.0	10.2
17	X1FMM	NON-DURABLE GOODS	8.31	8.5	8.8	9.1	9.5	9.8	10.1	10.5	10.8	11.1	11.4
18	X1FMM	NON-DURABLE GOODS	8.31	8.5	8.8	9.1	9.5	9.8	10.1	10.5	10.8	11.1	11.4
19	X1FMM	FOOD AND BEVERAGES	9.01	9.4	9.6	10.1	10.6	11.1	11.4	11.8	12.1	12.3	12.6
20	X1FMM	TORACCO	35.21	36.4	37.8	40.0	42.1	44.2	46.1	48.6	51.3	54.0	56.7
21	X1FMM	TEXTILES	4.91	5.1	5.3	5.5	5.7	5.9	6.1	6.3	6.4	6.6	6.8
22	X1FMM	APPAREL	5.21	5.3	5.5	5.7	6.0	6.2	6.4	6.8	7.0	7.3	7.7
23	X1FMM	PAPER	8.11	8.4	8.6	8.9	9.2	9.5	9.8	10.1	10.5	10.8	11.2
24	X1FMM	PRINTING AND PUBLISHING	7.61	7.7	8.0	8.3	8.5	8.6	8.8	8.9	9.1	9.2	9.3
25	X1FMM	CHEMICALS	11.71	12.0	12.4	13.2	13.9	14.6	15.1	15.8	16.4	17.0	17.7
26	X1FMM	PETROLEUM	19.41	19.6	20.2	21.2	22.3	23.3	24.2	25.5	26.7	27.9	29.2
27	X1FMM	RUBBER	7.31	7.4	7.6	7.9	8.1	8.3	8.4	8.7	8.8	9.0	9.2
28	X1FMM	LEATHER	4.61	4.8	4.8	4.9	5.0	5.2	5.4	5.5	5.7	5.9	6.1
29	X1FMM	LEATHER	4.61	4.8	4.8	4.9	5.0	5.2	5.4	5.5	5.7	5.9	6.1

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 1978 PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

LINE	VAR LABEL	T I T E	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
TABLE 1A.20 REAL OUTPUT PER MANHOUR, % CHANGE													
1	XMF001	MINING	2.71	2.1	5.9	7.0	6.0	4.5	4.2	4.3	2.8	2.5	2.8
2	XMF002												
3	XMF003	MANUFACTURING	2.51	2.1	2.4	3.8	3.6	2.8	2.6	3.3	2.6	2.6	2.6
4	XMF004												
5	XMF005	DURABLE GOODS	1.21	1.7	2.1	3.5	3.4	2.5	2.4	3.1	2.4	2.4	2.4
6	XMF006												
7	XMF007	LUMBER	4.51	3.5	4.8	4.3	4.1	1.9	1.8	2.3	2.9	2.4	2.5
8	XMF008	FURNITURE	-0.11	0.4	2.2	3.2	3.9	3.2	3.1	3.6	3.5	1.7	1.4
9	XMF009	STONE, CLAY AND GLASS	-2.51	0.2	0.1	1.7	2.6	2.1	2.2	3.0	1.8	2.0	2.3
10	XMF010	PRIMARY METALS	-0.81	2.5	2.3	2.6	2.1	1.1	0.9	1.9	0.8	0.8	1.4
11	XMF011	FABRICATED METAL PRODUCTS	-0.71	2.2	1.6	2.4	2.2	1.6	1.6	2.3	1.5	1.7	1.7
12	XMF012	NON ELECTRICAL MACHINERY	2.91	3.1	2.0	3.1	3.0	2.0	2.0	2.4	1.9	2.1	2.1
13	XMF013	ELECTRICAL MACHINERY	2.31	2.1	1.3	4.6	4.5	4.0	3.8	4.2	3.6	3.7	3.7
14	XMF014	MOTOR VEHICLES	5.01	0.2	4.0	4.8	5.7	4.3	3.8	5.1	4.2	4.4	4.0
15	XMF015	NONAUTO TRAN EQ & MISC MFD	-1.31	1.9	1.8	3.1	2.7	2.2	2.2	2.8	2.1	2.2	2.2
16	XMF016	INSTRUMENTS	-0.01	0.8	2.0	3.7	3.7	3.0	2.7	3.3	2.6	2.5	2.3
17	XMF017												
18	XMF018	NONDURABLE GOODS	4.31	2.7	2.9	4.4	4.1	3.4	2.9	3.6	3.0	2.9	2.8
19	XMF019												
20	XMF020	FOOD AND BEVERAGES	3.31	4.2	2.3	5.4	4.8	4.1	3.4	3.2	2.4	2.1	1.9
21	XMF021	TORACCO	3.21	3.6	3.8	5.7	5.4	4.9	4.3	5.5	5.5	5.4	4.9
22	XMF022	APPAREL	7.91	1.9	3.4	4.5	4.2	3.8	4.0	4.7	4.3	4.3	4.4
23	XMF023	TEXTILES	5.51	4.1	3.3	4.5	3.8	3.0	2.8	3.6	2.7	2.5	3.0
24	XMF024	PAPER	6.31	2.0	2.5	3.7	3.8	3.1	2.8	4.0	3.4	3.1	3.2
25	XMF025	PRINTING AND PUBLISHING	5.11	1.9	4.0	2.7	2.8	1.9	1.5	2.0	1.5	1.4	1.4
26	XMF026	CHEMICALS	5.31	2.7	3.1	6.2	5.7	4.8	3.5	4.6	3.9	3.8	3.7
27	XMF027	PETROLEUM	4.01	1.2	2.9	5.0	5.1	4.3	4.0	5.3	4.7	4.8	4.7
28	XMF028	RUBBER	1.51	1.3	2.6	3.6	2.9	1.9	1.7	2.8	1.9	2.1	2.0
29	XMF029	LEATHER	3.71	3.3	0.3	2.6	2.9	3.0	3.1	3.5	3.1	3.0	3.1

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 OUTPUT PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 17.10 AVERAGE WEEKLY HOURS

LINE	VAR LABEL	I	J	K	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NONDUR	0	0	0	43.181	42.72	42.56	43.04	43.19	43.11	42.77	42.57	42.32	42.02	41.65
2	MANUFACT	1	1	1	40.301	40.29	40.21	40.26	40.36	40.38	40.37	40.46	40.46	40.45	40.43
3	DURABLE	1	1	1	40.901	40.91	40.84	40.90	40.98	40.92	40.82	40.88	40.81	40.76	40.71
4	LUMBER	0	0	0	39.071	39.78	39.94	39.99	40.06	40.07	40.01	39.91	39.81	39.69	39.55
5	FURNITURE	0	0	0	39.241	39.79	40.11	40.08	40.18	40.15	40.13	40.24	40.14	40.14	40.03
6	STONE, CLAY AND GLASS	0	0	0	41.641	41.74	42.27	42.40	42.49	42.48	42.30	42.31	42.20	42.06	41.91
7	PRIMARY METALS	0	0	0	41.171	41.24	41.39	41.52	41.86	41.81	41.65	41.82	41.79	41.74	41.62
8	FABRICATED METAL PRODUCTS	0	0	0	40.801	40.58	40.43	40.51	40.62	40.56	40.44	40.52	40.48	40.45	40.44
9	NON-ELECTRICAL MACHINERY	0	0	0	41.601	41.20	41.25	41.43	41.61	41.52	41.33	41.39	41.26	41.16	41.08
10	ELECTRICAL MACHINERY	0	0	0	40.351	40.47	40.20	40.14	40.13	40.07	39.99	39.09	39.93	39.88	39.85
11	MOTOR VEHICLES	0	0	0	42.191	41.78	41.36	41.15	41.03	40.93	40.86	40.94	40.91	40.90	40.91
12	INDUSTRIAL TRANS P & MISC	0	0	0	40.831	41.11	40.80	40.83	40.86	40.83	40.81	40.87	40.88	40.90	40.91
13	INSTRUMENTS	0	0	0	40.351	40.73	40.57	40.58	40.63	40.60	40.56	40.63	40.62	40.62	40.63
14	NONDURABLE GOODS	1	1	1	39.361	39.37	39.26	39.25	39.37	39.50	39.63	39.76	39.86	39.94	39.97
15	FOOD AND BEVERAGES	0	0	0	39.911	39.85	39.55	39.23	39.29	39.51	39.75	39.96	40.17	40.33	40.49
16	TOBACCO	0	0	0	38.091	37.72	37.23	36.95	36.81	36.77	36.81	36.94	36.91	36.86	36.81
17	TEXTILES	0	0	0	39.511	39.05	38.86	39.01	39.25	39.23	39.55	39.73	39.86	39.96	39.83
18	APPAREL	0	0	0	35.031	35.70	35.57	35.62	35.74	35.86	35.90	35.94	35.97	36.00	36.05
19	PAPER	0	0	0	42.341	42.26	42.22	42.44	42.67	42.87	43.01	43.18	43.34	43.48	43.60
20	PRINTING AND PUBLISHING	0	0	0	38.011	38.41	38.45	38.54	38.66	38.78	38.86	38.94	38.99	39.00	38.98
21	CHEMICALS	0	0	0	41.741	41.73	41.69	41.66	41.67	41.67	41.93	42.12	42.25	42.31	42.30
22	PETROLEUM	0	0	0	42.311	42.19	41.91	41.77	41.67	41.59	41.52	41.47	41.44	41.43	41.43
23	RUBBER	0	0	0	40.861	40.96	40.86	40.96	41.10	41.13	41.09	41.12	41.10	41.07	41.03
24	LEATHER	0	0	0	36.721	36.45	36.79	36.93	37.03	37.10	37.16	37.26	37.36	37.45	37.55

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 WICAP PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 17.20 AVERAGE WEEKLY HOURS, % CHANGE

LINE	VAR LABEL	TYPE	1974	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	MINING		-1.4	-1.5	0.1	0.4	0.4	-0.2	-0.8	-0.5	-0.6	-0.7	-0.9
2													
3	MANUFACTURING		-0.0	-0.0	-0.2	0.1	0.3	0.0	-0.0	0.2	0.0	-0.0	-0.1
4													
5	DURABLE GOODS		0.1	-0.1	-0.2	0.1	0.2	-0.1	-0.3	0.1	-0.2	-0.1	-0.1
6													
7	LUMBER		-0.6	-0.2	0.4	0.1	0.2	0.0	-0.2	-0.2	-0.3	-0.3	-0.3
8	FURNITURE		1.1	1.4	0.8	-0.1	0.3	-0.1	-0.0	0.3	-0.3	0.0	-0.3
9	STONE, CLAY AND GLASS		0.6	0.2	1.3	0.3	0.2	-0.1	-0.3	0.0	-0.2	-0.3	-0.3
10	PRIMARY METALS		0.2	0.2	0.4	0.6	0.6	-0.1	-0.4	0.4	-0.1	-0.1	-0.3
11	FABRICATED METAL PRODUCTS		-0.2	-0.6	-0.4	0.2	0.3	-0.2	-0.3	0.2	-0.1	-0.1	-0.0
12	NONMETAL MINING		-0.0	-1.0	0.1	0.4	0.4	-0.2	-0.5	0.1	-0.3	-0.2	-0.2
13	ELECTRICAL MACHINERY		0.4	0.3	-0.7	-0.1	-0.0	-0.2	-0.2	-0.0	-0.2	-0.1	-0.1
14	MOTOR VEHICLES		-4.3	-1.0	-1.0	-0.5	-0.3	-0.2	-0.2	0.2	-0.1	-0.0	0.0
15	NONAUTO TRAN EQUIP + TRD & MISC		1.4	0.7	-0.7	0.1	0.1	-0.1	-0.1	0.2	0.0	0.0	0.0
16	INSTRUMENTS		-0.1	1.0	-0.4	0.0	0.1	-0.1	-0.1	0.2	-0.0	-0.0	0.0
17													
18	NONDURABLE GOODS		-0.1	0.0	-0.3	-0.0	0.3	0.3	0.3	0.3	0.3	0.2	0.1
19													
20	FOOD AND BEVERAGES		0.0	-0.1	-0.8	-0.8	0.2	0.6	0.6	0.5	0.5	0.4	0.4
21	TOBACCO		-0.5	-1.0	-1.3	-0.8	-0.4	-0.1	0.1	0.3	-0.1	-0.1	-0.1
22	TEXTILES		-2.2	-1.2	-0.5	0.4	0.6	0.5	0.3	0.4	0.3	0.2	-0.3
23	APPAREL		0.1	0.8	-0.4	0.1	0.3	0.3	0.1	0.1	0.1	0.1	0.1
24	PAPER		-1.1	-0.2	-0.1	0.5	0.6	0.5	0.3	0.4	0.4	0.3	0.3
25	PRINTING AND PUBLISHING		0.6	1.0	0.1	0.2	0.3	0.3	0.2	0.2	0.3	0.0	-0.1
26	CHEMICALS		0.1	-0.0	-0.1	-0.1	0.0	-0.0	0.6	0.5	0.3	0.1	-0.0
27	PETROLEUM		-1.4	-0.3	-0.7	-0.3	-0.2	-0.2	-0.2	-0.1	-0.1	-0.0	-0.0
28	RUBBER		-0.3	0.2	-0.2	0.2	0.3	0.1	-0.1	0.1	-0.1	-0.1	-0.1
29	LEATHER		-0.4	-0.7	0.9	0.4	0.3	0.2	0.2	0.3	0.3	0.2	0.3

A PRODUCT OF WHARTON EPA, INC., 3624 MARKET ST, PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 1A.10 CAPITAL STOCK (1972 \$)

LINE	VAR LABEL	I T C	1970	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	MTAG	I	45.53	46.62	47.27	49.18	52.21	56.14	60.56	64.82	68.72	72.34	75.76
2													
3	MTAG	I	21.62	22.30	23.28	24.63	26.34	28.17	29.89	31.63	33.42	35.49	37.79
4													
5													
6													
7	MTAGD24	I	10.60	11.01	11.37	11.81	12.37	13.03	13.72	14.45	15.20	16.00	16.84
8	MTAGD25	I	1.83	1.86	1.89	1.95	2.01	2.07	2.13	2.20	2.27	2.33	2.41
9	MTAGD32	I	17.54	18.03	18.62	19.29	20.25	21.34	22.39	23.40	24.35	25.31	26.33
10	MTAGD33	I	36.45	37.95	39.28	40.98	42.83	44.72	46.55	48.45	50.29	51.97	53.88
11	MTAGD39	I	19.30	19.94	20.59	21.37	22.24	23.16	24.10	25.04	25.92	26.77	27.63
12	MTAGD35	I	44.39	46.52	48.83	51.44	54.59	57.51	60.62	63.87	67.14	70.47	73.83
13	MTAGD36	I	27.41	28.41	29.49	30.85	32.45	34.14	35.80	37.47	39.16	40.90	42.71
14	MTAGD37	I	18.84	20.15	21.68	23.31	24.85	26.40	27.87	29.30	30.62	31.98	33.41
15	MTAGD37SP2	I	9.55	9.76	10.03	10.43	10.95	11.53	12.09	12.66	13.21	13.60	14.41
16	MTAGD38	I	9.89	9.46	9.87	10.36	10.93	11.55	12.17	12.84	13.52	14.21	14.90
17													
18													
19													
20	MTAGD20	I	27.73	28.26	28.86	29.62	30.36	31.06	31.81	32.75	33.61	35.04	36.48
21	MTAGD21	I	1.46	1.50	1.54	1.58	1.63	1.68	1.74	1.80	1.87	1.94	2.02
22	MTAGD22	I	7.34	7.36	7.42	7.55	7.77	8.03	8.30	8.57	8.84	9.09	9.31
23	MTAGD23	I	2.06	2.08	2.12	2.18	2.26	2.35	2.46	2.57	2.69	2.82	2.94
24	MTAGD24	I	24.82	26.17	27.61	29.18	30.98	32.97	35.04	37.16	39.33	41.58	43.92
25	MTAGD27	I	7.54	7.50	7.66	7.78	7.96	8.17	8.41	8.69	8.99	9.31	9.68
26	MTAGD28	I	40.29	41.54	43.03	44.94	47.23	49.91	52.84	55.83	58.75	61.89	65.11
27	MTAGD29	I	96.76	101.05	105.05	109.49	114.66	120.27	125.94	131.51	136.84	141.52	146.34
28	MTAGD30	I	13.86	14.35	14.90	15.54	16.41	17.37	18.35	19.42	20.56	21.74	22.96
29	MTAGD31	I	1.65	1.68	1.71	1.75	1.80	1.85	1.91	1.96	2.01	2.06	2.11
30													
31	MTAGD31	I	60.13	59.98	59.89	60.22	60.68	61.15	61.73	62.59	63.63	65.03	66.80
32													
33	MTAGD39	I	209.53	219.40	230.28	242.25	255.45	269.60	284.24	299.49	314.78	330.35	346.61
34													
35	MTAGD38	I	113.42	117.69	122.94	129.36	136.80	144.96	153.39	162.05	170.63	179.50	188.81
36													
37	MTAGD31	I	437.43	436.46	452.25	470.37	491.11	512.87	534.75	558.05	580.29	602.66	625.31
38	MTAGD31	I	196.25	197.47	199.60	203.08	208.03	213.99	220.60	228.06	235.69	243.69	252.10
39													
40	MTAGD31	I	1276.41	1321.6	1364.5	1405.6	1455.2	1511.2	1567.7	1621.8	1681.2	1737.8	1791.9
41													
42	MTAGD31	I	156.01	159.7	163.6	170.7	179.8	188.4	195.5	203.3	210.4	217.0	222.2
43													
44	MTAGD31	I	717.31	730.7	740.9	755.2	775.2	796.7	818.2	845.3	873.3	899.1	928.8
45													
46	MTAGD31	I	278.85	285.65	291.59	302.77	318.76	336.16	353.55	372.52	391.30	409.85	428.19
47	MTAGD31	I	9.71	9.85	9.89	10.25	10.60	11.32	12.16	12.98	13.58	14.12	14.72
48	MTAGD31	I	130.25	132.94	140.60	145.33	152.98	161.64	170.58	180.01	189.94	198.77	207.71
49	MTAGD31	I	130.89	137.06	141.09	147.16	155.17	163.20	170.85	179.52	188.59	196.96	205.76
50													

A PRODUCT OF HARTMAN, L. C., 3624 GARY ST., FOLEA, VA 22040. WITH PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGH-PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 1A.20 CAPITAL STOCK, GROWTH RATES

LINE	VAR LABEL	Y T F M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	KIAG	I FARM	1.91	2.4	1.4	4.0	6.2	7.5	7.9	7.0	6.0	5.3	4.7
2													
3	KIANG	I MINING	2.91	3.3	4.2	5.8	7.0	6.9	6.1	5.8	5.6	4.2	6.5
4													
5		DURABLE GOODS											
6													
7	KIADF24	I LUMBER	3.21	3.4	3.3	3.9	4.7	5.3	5.3	5.4	5.2	5.2	5.3
8	KIADF25	I FURNITURE	1.21	1.4	1.8	3.0	3.1	2.9	3.1	3.3	2.9	3.0	3.1
9	KIADF32	I STONE, CLAY AND GLASS	2.81	2.7	3.3	3.6	5.0	5.4	4.9	4.5	4.1	4.0	4.0
10	KIADF33	I PRIMARY METALS	2.31	3.0	3.5	4.3	4.5	4.4	4.1	4.1	3.4	3.4	2.9
11	KIADF34	I FABRICATED METAL PRODUCTS	3.21	3.3	3.2	3.8	4.0	4.2	4.0	3.9	3.5	3.3	3.2
12	KIADF35	I HOMELECTRICAL MACHINERY	4.41	4.8	5.0	5.3	5.8	5.7	5.4	5.4	5.1	5.0	4.8
13	KIADF36	I ELECTRICAL MACHINERY	2.91	3.6	3.8	4.4	5.2	5.2	4.9	4.7	4.5	4.5	4.4
14	KIADF371	I MOTOR VEHICLES	6.11	7.0	7.6	7.5	6.6	4.8	4.0	4.5	4.7	4.3	3.5
15	KIADF37SP2	I NONAUTO TRANS EO + ORD + MISC	1.71	2.3	2.8	4.0	5.0	5.2	4.9	4.7	4.4	4.4	4.4
16	KIADF38	I INSTRUMENTS	4.11	4.0	4.4	4.9	5.5	5.7	5.4	5.4	5.3	5.1	4.9
17													
18		NONDURABLE GOODS											
19													
20	KIADF20	I FOOD AND BEVERAGES	2.11	1.9	2.1	2.6	2.5	2.3	2.4	2.9	3.2	3.4	4.1
21	KIADF21	I TOBACCO	2.71	2.5	2.5	2.8	3.1	3.3	3.5	3.7	3.8	3.8	3.9
22	KIADF22	I TEXTILES	0.11	0.2	0.8	1.8	2.9	3.4	3.3	3.4	3.1	2.8	2.5
23	KIADF23	I APPAREL	1.11	1.0	1.8	2.8	3.6	4.1	4.4	4.7	4.6	4.6	4.6
24	KIADF26	I PAPER	4.81	5.4	5.5	5.7	6.2	6.4	6.3	6.0	5.8	5.7	5.6
25	KIADF27	I PRINTING AND PUBLISHING	0.51	0.9	1.1	1.6	2.2	2.7	2.9	3.3	3.4	3.7	3.9
26	KIADF28	I CHEMICALS	3.11	3.1	3.6	4.4	5.1	5.7	5.9	5.7	5.2	5.3	5.2
27	KIADF29	I PETROLEUM	5.01	4.4	4.0	4.2	4.7	4.9	4.7	4.4	3.9	3.6	3.4
28	KIADF30	I RUBBER	3.41	3.6	3.8	4.3	5.6	5.8	5.7	5.8	5.8	5.8	5.6
29	KIADF31	I LEATHER	1.31	1.4	2.0	2.6	2.6	2.9	2.9	2.9	2.6	2.4	2.3
30													
31	KIARGT	I TRANSPORTATION	0.01	-0.3	-0.2	0.6	0.8	0.8	1.0	1.4	1.7	2.2	2.7
32													
33	KIARGU49	I UTILITIES	4.71	4.7	4.9	5.2	5.4	5.5	5.4	5.4	5.1	5.0	4.9
34													
35	KIARGC48	I COMMUNICATIONS	3.61	3.8	4.5	5.2	5.8	6.0	5.8	5.6	5.3	5.2	5.2
36													
37	KIACD	I COMMERCIAL AND OTHER	5.01	4.5	3.6	4.0	4.4	4.4	4.3	4.4	4.0	3.9	3.8
38	KIACM	I COMMERCIAL	0.51	0.6	1.1	1.7	2.4	2.9	3.1	3.4	3.3	3.4	3.5
39													
40	KYGP	I STOCK OF REAL WEALTH	3.41	3.5	3.2	3.0	3.5	3.8	3.7	3.5	3.7	3.4	3.1
41													
42	KCEA	I STOCK OF AUTOS	5.41	2.4	2.4	4.3	5.3	4.8	3.8	4.0	3.5	3.1	2.4
43													
44	KIACM	I STOCK OF NONFARM RESID. STRUCTURES	3.31	1.9	1.4	1.9	2.6	2.8	2.7	3.3	3.3	3.0	2.4
45													
46	KIRIA	I TOTAL INDUSTRY INVENTORIES	4.41	2.4	2.1	3.8	5.3	5.5	5.2	5.4	5.0	4.7	4.5
47	KIRIDAV	I STOCK OF AUTO DEALER INVENTORIES	-1.01	1.4	0.4	3.4	3.4	4.8	7.4	6.7	4.6	4.0	4.2
48	KIRIDAV	I STOCK OF MANUFACTURERS' INVENTORIES	4.21	2.8	1.9	3.4	5.3	5.7	5.5	5.6	5.2	4.9	4.5
49	KIRIDAV	I STOCK OF WHOLESALE INVENTORIES	5.31	2.2	2.3	4.3	5.4	5.2	4.7	5.1	4.9	4.6	4.5

A PRODUCT OF WARTON P.A., P.O. BOX 4024, WILMINGTON, DE 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 19.00 DEPRECIATION (CURRENT \$)

LINE	VAP LABEL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	CCATS	I ALL INDUSTRIES	217.00	202.24	265.91	298.69	327.05	362.67	400.97	441.81	484.57	528.93	575.11
2	CCATAGS	9 AGRIC. FORESTRY & FISHERIES	10.94	11.90	13.04	14.44	16.36	18.70	21.41	24.24	27.12	30.03	33.02
3	CCATAGS	8 MINING	7.04	7.75	8.43	9.39	10.57	11.89	13.29	14.77	16.37	18.10	20.21
4	CCATAGS	1 MANUFACTURING	42.35	46.50	50.68	56.40	62.91	70.16	78.04	86.43	95.32	104.72	114.69
5	CCATAGS	1 DURABLE GOODS	24.98	27.44	29.96	33.43	37.38	41.73	46.41	51.38	56.64	62.16	67.96
6	CCATAGS	8 LUMBER	1.77	1.96	2.13	2.39	2.69	3.04	3.43	3.85	4.30	4.78	5.30
7	CCATAGS	8 FURNITURE	0.26	0.27	0.29	0.32	0.35	0.39	0.43	0.47	0.51	0.55	0.60
8	CCATAGS	8 STONE, CLAY AND GLASS	1.66	1.81	1.96	2.16	2.40	2.68	2.97	3.28	3.59	3.92	4.28
9	CCATAGS	8 PRIMARY METALS	3.85	4.14	4.45	4.79	5.18	5.60	6.05	6.52	7.01	7.51	8.00
10	CCATAGS	8 FABRICATED METAL PRODUCTS	1.69	1.83	1.96	2.15	2.37	2.60	2.86	3.12	3.40	3.68	3.97
11	CCATAGS	8 NONELECTRICAL MACHINERY	5.33	5.98	6.65	7.52	8.52	9.63	10.84	12.13	13.50	14.95	16.49
12	CCATAGS	8 ELECTRICAL MACHINERY	4.52	5.03	5.55	6.31	7.18	8.15	9.19	10.29	11.45	12.68	13.99
13	CCATAGS	8 MOTOR VEHICLES	2.96	3.20	3.46	3.87	4.30	4.72	5.15	5.63	6.15	6.69	7.21
14	CCATAGS	8 NONAUTO TRANS & ORG + MISC	1.83	1.99	2.16	2.39	2.66	2.97	3.29	3.64	4.00	4.38	4.80
15	CCATAGS	8 INSTRUMENTS	1.11	1.24	1.36	1.53	1.73	1.95	2.19	2.45	2.72	3.02	3.33
16	CCATAGS	1 NONDURABLE GOODS	17.37	19.06	20.72	22.96	25.53	28.42	31.63	35.05	38.68	42.56	46.73
17	CCATAGS	8 FOOD AND BEVERAGES	3.40	3.67	3.92	4.27	4.64	5.03	5.45	5.92	6.42	6.97	7.59
18	CCATAGS	8 TOBACCO	0.43	0.48	0.53	0.60	0.68	0.76	0.85	0.93	1.00	1.17	1.29
19	CCATAGS	8 TEXTILES	1.32	1.43	1.54	1.71	1.90	2.13	2.37	2.63	2.89	3.16	3.43
20	CCATAGS	8 APPAREL	0.29	0.31	0.33	0.36	0.40	0.44	0.48	0.53	0.58	0.64	0.70
21	CCATAGS	8 PAPER	2.32	2.60	2.87	3.21	3.59	4.03	4.52	5.05	5.61	6.21	6.86
22	CCATAGS	8 PRINTING AND PUBLISHING	1.45	1.56	1.67	1.83	2.02	2.22	2.45	2.70	2.97	3.25	3.57
23	CCATAGS	8 CHEMICALS	5.25	5.79	6.34	7.03	7.83	8.75	9.80	10.91	12.08	13.34	14.70
24	CCATAGS	8 PETROLFUM	1.63	1.83	2.02	2.29	2.59	2.94	3.31	3.69	4.08	4.48	4.90
25	CCATAGS	8 RUBBER	1.18	1.28	1.39	1.56	1.76	2.00	2.25	2.53	2.84	3.17	3.52
26	CCATAGS	8 LEATHER	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.14	0.15	0.16	0.17
27	CCATAGS	8 TRANSPORTATION	9.82	10.71	11.60	12.47	13.39	14.37	15.43	16.55	17.76	19.08	20.56
28	CCATAGS	8 UTILITIES	13.33	14.98	16.67	18.45	21.30	24.04	27.06	30.29	33.72	37.34	41.25
29	CCATAGS	8 COMMUNICATIONS	12.40	14.19	15.92	18.12	20.65	23.53	26.70	30.07	33.64	37.44	41.55
30	CCATAGS	8 COMMERCIAL AND OTHER	77.22	86.28	94.17	105.78	118.88	133.18	148.45	165.07	182.44	200.13	218.03
31	CCATAGS	8 RES. STRUCTURES, SINGLE UNITS	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
32	CCATAGS	8 RES. STRUCTURES, MULTIPLE UNITS	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06	1.06
33	CCATAGS	8 RES. STRUCTURES, MULTIPLE UNITS	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
34	CCATAGS	8 CAPITAL CONSUMPTION ADJUST.	-18.12	-21.03	-24.11	-25.11	-26.11	-27.11	-28.11	-29.11	-30.11	-31.11	-32.11
35	CCATAGS	8 CORPORATE PROFITS & INVEST.	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
36	CCATAGS	8 PROPERTIES, EQUIP., SUPPLIES	-5.21	-5.74	-6.56	-7.36	-8.16	-9.06	-9.76	-10.56	-11.36	-12.16	-12.96
37	CCATAGS	8 PROPERTIES, EQUIP., SUPPLIES	-20.91	-23.08	-25.08	-27.08	-29.08	-31.08	-33.08	-35.08	-37.08	-39.08	-41.08

A REPORT OF QUARTON INC., P.O. BOX 1000, LITTLE ROCK, AR 72201. QUARTON INC. IS A COMPANY OF QUARTON CORPORATION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGHLY PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 20.00 USER COST OF CAPITAL

LINE	VAR LABEL	ITEM	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	UCKR0G	I FARM	39.11	43.5	44.7	48.4	52.5	54.8	57.9	60.7	63.3	65.9	69.2
2	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
3	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
4	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
5	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
6	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
7	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
8	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
9	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
10	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
11	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
12	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
13	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
14	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
15	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
16	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
17	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
18	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
19	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
20	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
21	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
22	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
23	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
24	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
25	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
26	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
27	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
28	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
29	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
30	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
31	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
32	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
33	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
34	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
35	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
36	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
37	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
38	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
39	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
40	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
41	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
42	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7
43	UCKR0G	I MINING	36.61	40.9	40.9	44.4	48.4	50.1	52.7	54.9	56.9	58.9	61.7

A PRODUCT OF WHARTON LFA, INC., 3620 MARKET ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

UNION ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 21.10 EMPLOYEE COMPENSATION (CURRENT \$)

LINE	VAR LABEL	T I F M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	UNCS	I ALL INDUSTRIES	1299.811434.1	1563.5	1734.7	1921.6	2118.3	2319.2	2537.4	2752.7	2969.4	3191.8	
2													
3	WACGCS	I AGRIC., FORESTRY AND FISHERIES	12.31	13.4	14.3	16.2	18.2	20.0	21.7	23.7	25.5	27.3	29.1
4													
5	WACGCS	I MINING	20.51	23.4	24.8	26.7	29.0	31.7	34.3	37.5	40.9	44.4	47.7
6													
7	WACMFS	I MANUFACTURING	165.81	408.9	450.0	498.0	551.3	604.3	656.1	715.4	770.1	822.0	874.7
8													
9	WACMFS	I DURABLE GOODS	237.11	266.8	295.7	330.8	369.3	406.6	442.0	484.0	521.5	556.9	592.9
10													
11	WACMFD243	I LUMBER	8.91	9.7	10.6	11.8	13.3	14.8	16.4	18.0	19.6	21.2	22.9
12	WACMFD253	I FURNITURE	6.41	7.2	8.0	8.8	9.8	10.8	11.8	13.0	13.9	15.0	16.0
13	WACMFD323	I STONE, CLAY AND GLASS	12.61	14.5	16.4	18.2	20.2	22.3	24.3	26.7	28.9	31.0	33.1
14	WACMFD333	I PRIMARY METALS	30.51	34.1	37.4	41.8	46.8	51.1	54.7	59.0	62.5	65.2	67.8
15	WACMFD343	I FABRICATED METAL PRODUCTS	27.81	30.9	34.8	39.2	44.3	49.2	53.8	59.1	63.9	68.4	73.0
16	WACMFD353	I NONFABRICATED METAL PRODUCTS	45.91	50.9	57.2	64.9	73.4	81.7	89.3	98.6	106.7	114.3	122.1
17	WACMFD363	I ELECTRICAL MACHINERY	36.31	41.4	45.6	50.6	56.0	61.4	66.8	72.8	78.3	83.6	89.1
18	WACMFD373	I MOTOR VEHICLES	28.31	31.3	34.5	38.4	42.1	45.7	49.5	54.3	58.5	62.5	66.6
19	WACMFD37923	I NONMOTOR VEHICLES	30.51	35.0	38.3	42.7	47.6	52.2	56.6	61.9	66.9	71.8	76.9
20	WACMFD383	I INSTRUMENTS	10.31	11.7	12.9	14.3	15.9	17.4	18.9	20.7	22.3	23.9	25.5
21													
22	WACMFS	I NONDURABLE GOODS	128.71	142.1	154.3	167.3	182.0	197.7	214.1	231.4	248.6	265.1	281.6
23													
24	WACMFS203	I FOOD AND BEVERAGES	28.81	30.9	32.7	34.5	36.6	38.8	41.1	43.7	46.4	49.1	52.0
25	WACMFS213	I TOBACCO	1.31	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3
26	WACMFS223	I TEXTILES	10.81	11.8	12.9	14.2	15.8	17.6	19.3	21.3	23.1	24.9	26.5
27	WACMFS233	I APPAREL	12.81	14.4	15.6	17.0	18.6	20.4	22.2	24.1	25.8	27.5	29.0
28	WACMFS243	I PAPER	13.71	15.4	16.9	18.5	20.4	22.5	24.6	26.9	29.2	31.4	33.6
29	WACMFS253	I PRINTING AND PUBLISHING	18.21	20.7	22.9	25.3	27.8	30.6	33.5	36.6	39.8	42.9	46.1
30	WACMFS263	I CHEMICALS	23.81	26.1	28.1	30.0	32.1	34.4	36.9	39.5	42.2	44.7	47.1
31	WACMFS273	I PETROLEUM	5.61	6.3	6.9	7.5	8.1	8.6	9.1	9.6	10.1	10.5	10.9
32	WACMFS283	I RUBBER	11.01	12.2	13.5	15.1	16.9	18.7	20.5	22.5	24.4	26.3	28.1
33	WACMFS313	I LEATHER	2.71	3.0	3.4	3.7	4.0	4.4	4.7	5.1	5.5	5.8	6.2
34													
35	WACGCS	I TRANSPORTATION	55.81	60.6	65.8	72.0	79.5	87.9	96.6	106.1	116.4	127.3	137.6
36													
37	WACGCS	I UTILITIES	17.11	18.6	20.1	21.6	23.2	25.2	27.3	29.7	31.8	33.9	36.0
38													
39	WACGCS	I COMMUNICATIONS	29.51	32.1	34.7	39.5	42.5	46.3	50.2	55.1	60.9	66.7	72.4
40													
41	WACGCS	I COMMERCIAL AND OTHER	545.01	603.1	657.1	736.6	822.6	913.5	1007.6	1107.0	1206.5	1310.0	1419.6
42													
43	WACGCS	I GOVERNMENT	253.51	274.2	296.8	328.1	355.2	389.5	425.3	462.9	500.6	537.7	574.7
44													
45	WACGCS	I FEDERAL	88.31	94.8	101.9	110.3	119.6	129.7	140.6	151.7	162.8	173.6	184.2
46	WACGCS	I STATE AND LOCAL	165.21	179.4	194.9	213.8	235.6	259.8	284.7	311.2	337.9	364.1	390.5

A PRODUCT OF UNION FFA, INC., 3624 MARKET ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 21.20 EMPLOYEE COMPENSATION, GROWTH RATES

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	MACS	I ALL INDUSTRIES-----	12.71	10.4	9.0	10.9	10.8	10.2	9.5	9.4	8.5	7.9	7.5
2	MACAGS	I AGRIC., FORESTRY AND FISHERIES-----	9.41	9.0	6.8	13.5	12.1	10.2	8.7	8.8	7.7	7.1	6.7
3	MACMGS	I MINING-----	18.21	14.1	6.0	7.5	8.9	9.1	8.3	9.2	9.1	8.4	7.5
4	MACMFS	I MANUFACTURING-----	13.31	11.8	10.1	10.7	10.7	9.6	8.6	9.0	7.6	6.7	6.4
5	MACMFS	I DURABLE GOODS-----	14.91	12.5	10.8	11.8	11.7	10.1	8.7	9.5	7.7	6.8	6.5
6	MACMFS	I LUMBER-----	10.81	9.0	6.7	11.7	12.3	11.6	10.6	9.6	9.0	8.3	7.8
7	MACMFS	I FURNITURE-----	12.91	12.6	11.0	10.2	11.1	9.9	9.3	10.2	7.2	7.7	6.8
8	MACMFS	I STONE, CLAY AND GLASS-----	15.91	15.2	13.2	10.7	11.2	10.2	9.0	9.8	8.4	7.1	6.7
9	MACMFS	I PRIMARY METALS-----	12.41	11.8	10.0	11.5	12.0	9.3	6.9	8.0	5.4	4.3	4.1
10	MACMFS	I FABRICATED METAL PRODUCTS-----	15.71	12.6	12.6	12.9	12.9	11.0	9.3	10.0	8.1	7.0	6.6
11	MACMFS	I NONELECTRICAL MACHINERY-----	17.11	10.9	12.5	13.4	13.2	11.2	9.3	10.4	8.2	7.1	6.8
12	MACMFS	I ELECTRICAL MACHINERY-----	16.01	14.2	10.0	10.9	10.8	9.7	8.7	9.0	7.6	6.8	6.6
13	MACMFS	I MOTOR VEHICLES-----	13.41	10.5	10.1	11.4	9.4	8.6	8.4	9.6	7.8	6.8	6.6
14	MACMFS	I NONAUTO TRANS FU + MISC-----	15.01	14.9	9.3	11.6	11.3	9.7	8.6	9.3	8.1	7.2	7.1
15	MACMFS	I INSTRUMENTS-----	14.21	13.8	10.3	10.8	10.8	9.7	8.8	9.2	8.0	7.2	6.9
16	MACMFS	I NONDURABLE GOODS-----	10.61	10.4	8.6	8.4	8.8	8.7	8.3	8.1	7.4	6.7	6.3
17	MACMFS	I FOOD AND BEVERAGES-----	13.51	7.2	5.8	5.6	6.0	6.1	6.1	6.1	6.2	5.9	6.0
18	MACMFS	I TOBACCO-----	10.51	7.6	6.3	6.7	6.7	6.6	6.2	6.0	4.9	4.2	4.0
19	MACMFS	I TEXTILES-----	8.81	8.9	9.1	10.7	11.3	10.8	10.2	9.9	8.8	7.7	6.6
20	MACMFS	I APPAREL-----	10.81	11.8	8.7	8.9	9.7	8.8	8.2	8.2	7.3	6.3	5.7
21	MACMFS	I PAPER-----	11.91	12.5	9.6	9.8	10.3	10.2	9.5	9.2	8.5	7.4	7.1
22	MACMFS	I PRINTING AND PUBLISHING-----	11.41	13.7	10.7	10.3	9.9	10.0	9.6	9.3	8.6	7.8	7.4
23	MACMFS	I CHEMICALS-----	8.71	9.6	7.9	6.6	7.1	7.1	7.4	7.2	6.6	6.0	5.5
24	MACMFS	I PETROLEUM-----	8.81	12.3	9.6	8.1	7.6	7.0	6.1	5.5	4.7	4.1	3.7
25	MACMFS	I RUBBER-----	6.61	11.2	10.8	11.5	11.8	10.9	9.8	9.8	8.5	7.5	7.0
26	MACMFS	I LEATHER-----	12.51	12.6	12.2	9.4	9.2	8.8	8.0	7.7	7.1	6.3	6.0
27	MACMFS	I TRANSPORTATION-----	10.21	8.6	8.6	9.5	10.5	10.6	9.9	9.9	9.7	9.4	8.1
28	MACMFS	I UTILITIES-----	12.01	8.6	8.2	7.5	7.7	8.3	8.5	8.6	7.3	6.7	6.1
29	MACMFS	I COMMUNICATIONS-----	16.81	8.7	8.3	14.0	7.4	9.0	8.5	9.8	10.4	9.6	8.5
30	MACMFS	I COMMERCIAL AND OTHER-----	14.01	10.7	9.0	12.1	11.7	11.0	10.3	9.9	9.0	8.6	8.4
31	MACMFS	I GOVERNMENT-----	8.91	8.2	8.2	9.2	9.6	9.7	9.2	8.8	8.2	7.4	6.9
32	MACMFS	I FEDERAL-----	8.71	7.4	7.5	8.2	8.8	8.5	8.4	7.9	7.3	6.7	6.1
33	MACMFS	I STATE AND LOCAL-----	9.01	8.6	8.6	9.7	10.2	10.3	9.6	9.3	8.6	7.8	7.3

A PRODUCT OF QUANTUM CFA, INC., 3620 WALLEY ST., PHILA, PA 19104. WRITING PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 22.10 WAGE RATES (CURRENT \$)

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	WRCG	I ALL INDUSTRIES (PER WEEK)	265.11	266.15	306.59	331.48	358.71	387.90	418.36	450.78	482.88	519.50	546.58
2	WRCAGS	R FARM (PER WEEK)	71.22	81.22	89.12	99.93	110.06	119.95	130.21	142.09	154.04	166.14	178.28
3	WRCMGS	R MINING (PER HOUR)	10.55	11.86	12.89	14.05	15.34	16.78	18.31	19.90	21.51	23.14	24.76
4		DURABLE GOODS (PER HOUR)											
5	WRCMFD243	B LUMBER	6.86	7.00	7.59	8.28	9.02	9.80	10.62	11.45	12.27	13.08	13.90
6	WRCMFD253	B FURNITURE	5.88	6.39	6.89	7.49	8.12	8.78	9.45	10.14	10.81	11.47	12.14
7	WRCMFD323	B STONE, CLAY AND GLASS	8.42	9.28	10.12	11.03	12.01	13.07	14.18	15.31	16.45	17.56	18.74
8	WRCMFD333	B PRIMARY METALS	11.37	12.44	13.49	14.62	15.82	17.05	18.30	19.56	20.78	21.97	23.20
9	WRCMFD343	B FABRICATED METAL PRODUCTS	8.44	9.24	10.23	11.20	12.21	13.29	14.44	15.64	16.83	18.00	19.23
10	WRCMFD353	B NONELECTRICAL MACHINERY	9.26	10.08	10.96	11.94	12.95	14.03	15.18	16.36	17.56	18.73	20.00
11	WRCMFD363	B ELECTRICAL MACHINERY	8.46	9.26	10.10	11.05	12.02	13.05	14.15	15.29	16.43	17.54	18.77
12	WRCMFD373	B MOTOR VEHICLES	13.39	14.58	15.96	17.45	18.88	20.46	22.31	24.38	26.54	28.78	31.19
13	WRCMFD37SP28	R NONAUTO TRANS ED + MISC	9.28	10.20	11.11	12.11	13.16	14.28	15.46	16.68	17.89	19.09	20.38
14	WRCMFD383	B INSTRUMENTS	8.86	9.63	10.46	11.35	12.29	13.29	14.33	15.40	16.45	17.49	18.55
15		NONDURABLE GOODS (PER HOUR)											
16	WRCMFD203	B FOOD AND BEVERAGES	7.96	8.67	9.35	10.08	10.86	11.69	12.54	13.41	14.28	15.12	16.00
17	WRCMFD213	R TOBACCO	9.18	9.96	10.74	11.59	12.48	13.41	14.36	15.31	16.23	17.11	18.01
18	WRCMFD223	B TEXTILES	5.30	5.80	6.38	7.00	7.69	8.43	9.21	10.01	10.81	11.58	12.36
19	WRCMFD233	B APPAREL	5.35	5.89	6.46	6.94	7.59	8.33	9.12	9.93	10.75	11.54	12.34
20	WRCMFD263	B PAPER	6.71	7.11	7.66	8.20	8.77	9.34	9.92	10.50	11.08	11.63	12.23
21	WRCMFD273	B PRINTING AND PUBLISHING	8.19	9.03	9.86	10.73	11.65	12.62	13.63	14.65	15.66	16.63	17.63
22	WRCMFD283	B CHEMICALS	10.25	11.16	12.00	12.93	13.91	14.94	16.01	17.09	18.16	19.22	20.28
23	WRCMFD293	B PETROLEUM	12.09	13.24	14.36	15.62	16.93	18.29	19.67	21.05	22.41	23.75	25.13
24	WRCMFD303	B RUBBER	7.51	8.18	8.86	9.61	10.39	11.22	12.09	12.97	13.85	14.70	15.59
25	WRCMFD313	D LEATHER	5.13	5.65	6.16	6.70	7.32	8.00	8.72	9.46	10.20	10.92	11.67
26	WRCMFD323	R TRANSPORTATION (PER WEEK)	398.52	424.84	458.66	494.82	535.67	580.92	629.30	679.94	731.88	784.94	840.05
27	WRCMFD493	R UTILITIES (PER WEEK)	427.93	458.03	498.69	540.07	584.92	634.61	688.11	744.54	802.52	861.21	922.49
28	WRCMFD483	R COMMUNICATIONS (PER WEEK)	453.76	489.00	530.87	578.43	629.39	684.01	742.58	803.42	865.16	929.07	995.03
29	WRCMFD5	R COMMERCIAL AND OTHER (PER WEEK)	211.75	227.70	242.75	262.26	283.94	307.35	331.97	357.71	383.59	409.70	436.46
30	WRCMFD5	I GOVERNMENT (PER WEEK)	274.95	292.88	310.39	335.61	363.53	393.66	424.70	456.87	487.91	517.84	547.16
31	WRCMFD5	R FEDERAL	308.27	335.58	365.01	417.68	473.79	533.28	595.13	659.66	724.94	790.80	858.45
32	WRCMFD5	R STATE & LOCAL	287.16	312.35	346.59	382.82	425.14	472.62	520.55	569.83	620.43	672.42	724.92

A PRODUCT OF WHARTON EFA, INC., 3624 MARKET ST. PHILA., PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
 HICHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 22.20 WAGE RATES, % CHANGE

LINE	VAR LABEL	I T F "	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	WRCG	I ALL INDUSTRIES (PER WEEK)	8.21	7.9	7.1	8.1	8.2	8.1	7.9	7.8	7.1	6.6	6.2
2	WRCAGS	B FARM (PER WEEK)	7.31	14.0	9.7	12.1	10.1	9.0	8.6	9.1	8.4	7.9	7.3
3	WRCMGS	B MINING (PER HOUR)	15.81	12.5	8.7	9.0	9.2	9.4	9.1	8.7	8.1	7.6	7.0
4		DURABLE GOODS (PER HOUR)											
5													
6													
7													
8	WRCMFD243	B LUMBER	7.31	8.5	8.3	9.1	8.9	8.7	8.3	7.8	7.2	6.6	6.3
9	WRCMFD253	B FURNITURE	6.71	8.7	7.9	8.7	8.4	8.1	7.7	7.2	6.7	6.1	5.9
10	WRCMFD323	B STONE, CLAY AND GLASS	8.71	10.3	9.1	8.9	8.9	8.8	8.5	8.0	7.4	6.8	6.7
11	WRCMFD333	B PRIMARY METALS	7.91	9.5	8.4	8.4	8.2	7.8	7.3	6.9	6.3	5.7	5.6
12	WRCMFD343	B FABRICATED METAL PRODUCTS	10.01	10.1	10.2	9.4	9.0	8.9	8.7	8.3	7.6	7.0	6.8
13	WRCMFD353	B NONELECTRICAL MACHINERY	11.91	8.9	8.7	8.9	8.5	8.3	8.2	7.8	7.3	6.7	6.7
14	WRCMFD363	B ELECTRICAL MACHINERY	9.41	9.4	9.1	9.3	8.8	8.6	8.4	8.0	7.5	6.9	6.9
15	WRCMFD373	B MOTOR VEHICLES	9.51	8.9	9.5	9.3	8.2	8.3	9.1	9.3	8.9	8.4	8.4
16	WRCMFD383	B NONAUTO TRANS (Q + ORD + MISC)	8.11	9.9	9.0	8.9	8.7	8.5	8.3	7.8	7.3	6.7	6.8
17	WRCMFD393	B INSTRUMENTS	8.91	8.8	8.5	8.6	8.3	8.1	7.9	7.4	6.9	6.3	6.1
18													
19													
20		NONDURABLE GOODS (PER HOUR)											
21													
22	WRCMFD203	B FOOD AND BEVERAGES	11.91	8.9	7.9	7.8	7.7	7.6	7.3	6.9	6.4	5.9	5.8
23	WRCMFD213	B TOBACCO	10.31	9.0	7.8	7.9	7.7	7.5	7.1	6.6	6.0	5.4	5.4
24	WRCMFD223	B TEXTILES	9.81	9.5	9.9	9.8	9.8	9.6	9.3	8.7	7.9	7.1	6.8
25	WRCMFD233	B APPAREL	9.81	10.1	8.7	8.5	9.3	9.7	9.4	8.9	8.2	7.4	6.9
26	WRCMFD243	B PAPER	10.81	10.7	8.5	8.0	8.5	8.8	8.6	8.3	7.8	7.1	7.1
27	WRCMFD253	B PRINTING AND PUBLISHING	9.31	10.3	9.2	8.8	8.5	8.4	8.0	7.5	6.9	6.2	6.0
28	WRCMFD263	B CHEMICALS	7.41	8.9	7.5	7.8	7.6	7.4	7.1	6.8	6.3	5.8	5.8
29	WRCMFD273	B PETROLEUM	9.31	9.5	8.4	8.8	8.4	8.0	7.5	7.0	6.4	6.0	5.8
30	WRCMFD283	B RUBBER	4.91	8.9	8.3	8.4	8.1	8.0	7.7	7.3	6.8	6.2	6.0
31	WRCMFD293	B LEATHER	9.01	10.2	9.0	8.8	9.2	9.3	9.0	8.5	7.8	7.1	6.8
32													
33	WRCMFD303	B TRANSPORTATION (PER WEEK)	9.71	6.6	8.0	7.9	8.3	8.4	8.3	8.0	7.6	7.2	7.0
34													
35	WRCMFD313	B UTILITIES (PER WEEK)	8.61	7.0	8.9	8.3	8.3	8.5	8.4	8.2	7.8	7.3	7.1
36													
37	WRCMFD323	B COMMUNICATIONS (PER WEEK)	8.71	7.8	8.6	9.0	8.8	8.7	8.6	8.2	7.7	7.4	7.1
38													
39	WRCMFD333	B COMMERCIAL AND OTHER (PER WEEK)	8.51	7.5	6.6	8.0	8.3	8.2	8.0	7.8	7.2	6.8	6.5
40													
41	WRCMFD343	B GOVERNMENT (PER WEEK)	6.41	6.5	6.0	8.2	8.3	8.3	7.9	7.6	6.8	6.1	5.7
42													
43	WRCMFD353	B FEDERAL	8.01	7.8	7.8	8.1	8.3	8.3	8.2	7.7	7.1	6.4	5.8
44	WRCMFD363	B STATE AND LOCAL	5.71	6.1	5.4	8.4	8.4	8.5	7.9	7.7	6.8	6.2	5.7

A PRODUCT OF WHARTON E&A, INC., 3628 MARKET ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 25.10 PRICE DEFLECTIONS (1972 = 100)

LINE	NAME	1970	1971	1972	1973	1974	1975	1976	1977	1978
1	PGGUP	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
2	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
3	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
4	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
5	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
6	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
7	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
8	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
9	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
10	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
11	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
12	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
13	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
14	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
15	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
16	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
17	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
18	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
19	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
20	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
21	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
22	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
23	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
24	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
25	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
26	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
27	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
28	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
29	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
30	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
31	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
32	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
33	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
34	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
35	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
36	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
37	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
38	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
39	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
40	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
41	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
42	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
43	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
44	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
45	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
46	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
47	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
48	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
49	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6
50	PGNIN	152.1	162.9	173.2	185.3	190.1	211.6	225.2	238.7	251.6

A PRODUCT OF MARTIN P.B., INC., 5024 CLEVELAND ST., DALLAS, TX 75204. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 23.20 PRICE DEFATORS, GROWTH RATES

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 PGNP	7.41	7.1	6.3	7.0	6.9	6.8	6.4	6.0	5.4	4.8	4.4
2											
3 PNYI	6.91	7.1	6.3	7.0	6.9	6.8	6.4	6.0	5.4	4.8	4.4
4											
5 PRCF	6.91	7.0	6.5	6.8	6.6	6.4	6.0	5.6	5.0	4.5	4.1
6 POCED	5.51	6.0	5.3	5.8	5.1	4.9	4.6	4.2	3.9	3.6	3.3
7 POCEDA	7.51	8.4	7.0	5.5	4.7	5.1	5.3	4.8	4.8	4.6	4.3
8 POCEDAVI	8.01	7.0	5.7	6.0	4.2	4.4	4.5	4.1	4.0	3.8	3.7
9 POCEDAVI	6.31	11.8	11.6	6.6	4.8	5.5	5.7	5.9	5.7	5.6	4.6
10 POCEDAVI	8.01	7.6	6.5	6.7	6.7	6.7	6.5	5.9	5.6	5.2	4.9
11 POCEDAVI	6.81	8.3	7.2	6.5	6.2	6.1	5.9	5.4	4.8	4.8	4.1
12 POCEDF	3.91	4.7	3.9	5.6	5.2	4.8	4.3	3.9	3.3	3.0	2.6
13 POCEDF	4.61	4.8	4.2	5.7	5.5	5.2	4.8	4.2	3.7	3.3	2.9
14 POCEN	6.91	6.4	5.8	6.0	6.1	6.0	5.7	5.3	4.7	4.1	3.7
15 POCENF	9.71	7.9	7.1	5.7	6.1	6.2	6.0	5.8	5.1	4.4	3.9
16 POCENC	3.01	3.5	3.3	5.4	5.4	5.1	4.7	4.1	3.5	3.0	2.5
17 POCENG	3.61	6.7	6.4	7.8	7.4	7.1	6.6	6.0	5.6	5.2	5.0
18 POCENH	5.61	5.9	5.5	6.7	6.6	6.3	6.0	5.4	4.9	4.5	4.1
19 POCES	7.31	7.7	7.5	7.9	7.6	7.3	6.8	6.3	5.6	5.1	4.7
20 POCESH	7.51	8.3	8.2	7.7	7.6	7.1	6.5	5.9	5.1	4.5	4.0
21 POCESH	6.91	6.9	6.5	6.6	5.5	5.2	4.9	4.6	4.1	3.6	3.3
22 POCESY	7.71	7.2	7.0	7.6	7.6	7.5	7.2	6.6	6.1	5.7	5.2
23 POCESO	7.31	7.7	7.3	8.5	8.4	8.1	7.6	7.0	6.4	5.9	5.4
24											
25 PPIBF	9.41	8.6	7.3	7.9	7.7	7.2	6.9	6.7	6.1	5.4	5.0
26											
27 PPIBFN	8.21	7.9	6.5	7.6	7.3	7.1	6.8	6.3	6.0	5.6	5.3
28 PPIBFN	12.11	12.3	10.3	8.7	8.1	7.9	7.4	6.5	6.1	5.7	5.4
29 PPIBFN	12.31	12.5	10.5	8.8	8.1	8.0	7.5	6.5	6.2	5.8	5.5
30 PPIBFN	12.31	12.1	10.3	5.8	5.6	5.2	5.0	4.8	4.6	4.4	4.5
31 PPIBFN	8.01	7.0	6.0	6.0	7.1	6.9	6.5	5.9	5.2	4.7	4.2
32											
33											
34 PINSR31	20.61	9.6	6.5	9.7	9.7	9.1	9.4	9.1	7.8	7.3	6.6
35 PINSR3M	20.01	7.3	7.0	6.0	6.6	7.9	8.3	7.1	7.0	6.0	7.8
36 PINSR3H	15.21	8.7	10.7	10.0	9.7	9.6	7.9	8.5	9.0	7.1	4.0
37											
38 PTER	6.71	5.9	5.1	6.3	6.3	6.4	6.0	5.6	5.0	4.5	4.1
39 PTHR	4.31	7.9	7.5	6.4	5.8	5.0	4.7	4.7	4.5	4.2	4.5
40											
41 PDCVPT	7.81	6.7	6.1	7.0	7.0	6.9	6.7	6.3	5.7	5.3	4.9
42 PDCVPT	7.31	6.4	6.0	7.1	6.9	6.6	6.3	5.9	5.3	4.9	4.6
43 PDCVPS	7.91	6.9	6.2	6.9	7.0	7.1	6.8	6.5	5.9	5.4	5.1
44											
45											
46 PING	3.61	6.7	6.4	7.7	7.4	7.0	6.5	6.0	5.5	5.1	4.8
47 PING13	2.71	2.3	2.3	2.0	1.9	1.9	1.9	2.1	2.0	2.0	1.9
48 PING1F	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
49 PINGX	4.01	7.9	7.0	9.1	8.6	8.1	7.4	6.8	6.1	5.7	5.3

A PRODUCT OF WARTON & CO., INC., 1620 MARKET ST., PHILA., PA 19104. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTERLY ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH-W PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 25.00 GROSS NATIONAL PRODUCT, NATIONAL INCOME, PERSONAL INCOME

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 GNP	2105.712308.1	2509.9	2805.0	3131.2	3463.0	3793.7	4175.6	4533.5	4888.5	5239.0	
2 CCATA	217.11	242.2	265.9	294.7	327.1	362.7	401.0	441.8	484.6	528.9	575.1
3 CCATA											
4 NHPS	1888.712065.9	2244.0	2510.3	2804.1	3101.1	3392.7	3733.8	4049.0	4359.3	4663.9	
5 NHPS											
6 TXCRS	177.91	188.3	202.0	216.9	238.7	264.6	292.2	319.5	343.7	368.4	386.7
7 TXCRS											
8 TXCRFS	27.81	29.0	29.9	29.5	33.1	36.7	40.2	44.2	47.8	51.3	47.9
9 TXCRFS											
10 TXCRSS	150.11	159.3	172.1	187.4	205.5	227.9	252.1	275.3	295.9	317.0	338.8
11 TXCRSS											
12 TRBNS	10.71	11.8	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4
13 TRBNS											
14 SDS	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
15 SDS											
16 GVBURTS	3.91	3.5	3.5	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
17 GVBURTS											
18 YNS	1701.911866.3	2029.5	2281.4	2552.6	2822.8	3086.0	3359.1	3689.2	3974.1	4259.5	
19 YNS											
20 CPARTS	161.51	170.3	186.8	230.7	270.6	302.3	324.3	369.9	402.7	431.7	459.9
21 CPARTS											
22 TXCRITS	164.01	188.7	202.9	223.9	249.4	276.4	304.3	335.0	365.8	397.3	430.1
23 TXCRITS											
24 SUPTES	69.41	77.2	78.1	86.2	96.0	106.4	117.2	129.0	140.8	153.0	165.6
25 SUPTES											
26 WALNS	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27 WALNS											
28 TRTPS	226.71	254.5	287.3	314.7	345.5	380.0	417.6	456.7	498.2	541.3	585.3
29 TRTPS											
30 TRTPFS	182.31	204.3	230.6	252.2	276.8	304.6	335.3	367.4	401.8	437.7	474.4
31 TRTPFS											
32 TRTPFS	9.21	9.8	10.7	9.0	7.2	6.4	6.7	6.9	8.3	10.2	11.7
33 TRTPFS											
34 TRBNS	173.11	194.5	219.9	243.3	269.6	298.2	328.6	360.5	393.5	427.5	462.7
35 TRBNS											
36 YINTGCS	33.71	38.4	43.6	48.7	54.1	60.0	66.1	72.3	78.6	85.0	91.5
37 YINTGCS											
38 YINTGCS	10.71	11.8	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4
39 YINTGCS											
40 YINTGCS	52.91	63.2	70.6	75.8	80.3	84.4	88.3	91.8	95.2	97.9	100.6
41 YINTGCS											
42 YINTGCS	33.71	38.3	42.3	45.3	48.3	51.3	54.3	57.3	60.3	63.3	66.3
43 YINTGCS											
44 YINTGCS	35.51	41.3	44.8	47.0	48.5	49.6	50.5	51.0	51.4	51.1	50.8
45 YINTGCS											
46 YINTGCS	-7.71	-9.3	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7
47 YINTGCS											
48 YPS	1705.311881.1	2060.9	2288.6	2538.4	2797.6	3061.6	3351.1	3612.8	3913.3	4195.0	
49 YPS											

A PRODUCT OF QUARTON (PA, INC., 3024 MARKET ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGH-P PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 26.00 NATIONAL INCOME (CURRENT \$)

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 YNS											
1 NATIONAL INCOME	1701.9	1866.3	2029.5	2281.4	2552.6	2822.8	3086.0	3399.1	3684.2	3974.1	4259.5
2 WHCS											
1 COMPENSATION OF EMPLOYEES	1299.4	1434.1	1583.5	1734.7	1921.6	2118.3	2319.2	2537.4	2752.7	2969.4	3191.8
4											
5 YENTFS											
E FARM INCOME	24.3	28.1	30.7	32.7	34.7	36.7	38.7	40.7	42.7	44.7	47.1
6											
7 YOTHS											
B RENT, INTEREST & PROPRIETORS' INC	239.2	257.8	274.9	312.5	357.4	399.7	440.3	489.7	531.6	570.7	608.8
8 CCAAYRENTS											
E CCA, RENTAL INCOME OF PERSONS	-20.9	-23.1	-25.1	-27.1	-29.1	-31.1	-33.1	-35.1	-37.1	-39.1	-41.1
9 IVAUS											
R PROPRIETORS' INVENTORY VAL ADJ	-1.9	-1.3	-1.7	-2.5	-2.9	-3.4	-3.7	-3.9	-3.8	-3.6	-3.5
10 CCAAYRENTS											
E CCA, PROPRIETORS' INCOME, MINIFARM	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
11											
12 CPANTS											
I CORPORATE PROFITS AND INV VAL ADJ	161.5	170.3	186.8	230.7	270.6	302.3	324.3	349.9	402.7	431.7	459.9
13											
14 IVACS											
B INVENTORY VALUATION ADJUSTMENT	-23.0	-20.4	-19.5	-26.8	-31.1	-35.8	-38.3	-40.4	-39.6	-37.8	-36.4
15 CCAACPS											
E CCA, COR PROFITS & IVA	-18.1	-21.4	-24.1	-25.1	-26.1	-27.1	-28.1	-29.1	-30.1	-31.1	-32.1
16											
17 CPURTS											
I PROFITS BEFORE TAXES	202.0	212.1	230.4	282.6	327.8	365.2	390.7	434.5	472.4	500.6	528.4
18 TXCCTS											
I PROFITS TAX LIABILITY	83.7	82.9	83.7	104.9	123.9	139.2	150.2	170.7	185.3	198.2	210.4
19 CPURTS											
I PROFITS AFTER TAX	118.9	129.2	146.7	177.7	204.0	226.0	240.5	268.7	287.1	302.8	318.1
20 YDIVTS											
R DIVIDENDS	49.3	56.1	63.2	71.2	80.0	89.1	98.4	108.4	118.7	129.1	139.7
21 RETS											
I UNDISTRIBUTED PROFITS	69.6	73.2	83.6	106.5	124.0	136.8	142.1	160.3	168.4	173.3	178.4

A PRODUCT OF WHARTON EFA, INC., 3624 MARKET ST., PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

CHARTER ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 27.00 PERSONAL INCOME (CURRENT \$)

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 PERSONAL INCOME	1705.31	1881.1	2060.9	2268.6	2538.4	2797.6	3061.6	3351.1	3632.8	3913.3	4195.0
2 WPCS	1299.41	1439.1	1563.5	1734.7	1921.6	2118.3	2319.2	2537.4	2752.7	2969.4	3191.8
3 WALDS	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 VOTHS	239.21	257.8	274.9	312.5	357.4	399.7	440.3	489.7	531.6	570.7	608.4
5 IVANS	-1.91	-1.3	-1.7	-2.5	-2.9	-3.4	-3.7	-3.9	-3.8	-3.6	-3.5
6 YENIFS	24.31	28.1	30.7	32.7	34.7	36.7	38.7	40.7	42.7	44.7	47.1
7 DIVIDS	49.31	56.1	63.2	71.2	80.0	89.1	98.4	108.4	118.7	129.1	139.7
8 YINTGS	52.95	63.15	70.62	75.79	80.29	84.39	88.29	91.79	95.19	97.89	100.59
9 YINTCS	33.71	38.3	42.3	45.3	48.3	51.3	54.3	57.3	60.3	63.3	66.3
10 YINTGS	-7.71	-9.3	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7
11 YINTGS	35.51	41.3	44.8	47.0	48.5	49.6	50.5	51.0	51.4	51.1	50.8
12 TRTOPS	226.71	254.5	287.3	314.7	345.5	380.0	417.6	456.7	498.2	541.3	585.3
13 TRUS	10.71	11.8	13.0	13.8	14.6	15.4	16.2	17.0	17.8	18.6	19.4
14 TRGPPS	182.31	204.3	230.6	252.2	276.8	304.6	335.3	367.4	401.8	437.7	474.4
15 TRTOPS	9.21	9.8	10.7	9.0	7.2	6.4	6.7	6.9	8.3	10.2	11.7
16 TRGPPS	173.11	194.5	219.9	243.3	269.6	298.2	328.6	360.5	393.5	427.5	462.7
17 TRGPPS	33.71	38.8	43.6	48.7	54.1	60.0	66.1	72.3	78.6	85.0	91.5
18 TXCSTS	164.01	188.7	202.9	221.9	249.4	276.4	304.3	335.0	365.8	397.3	430.1
19 SUPES	94.51	111.5	124.8	137.7	153.4	170.0	187.2	206.0	225.0	244.4	264.5
20 TXCSTS	69.41	77.2	78.1	86.2	96.0	106.4	117.2	129.0	140.8	153.0	165.6
21 TXCPS	255.21	279.5	299.6	333.8	369.3	408.4	449.0	493.7	537.8	582.4	629.0
22 YPDS	1450.11	1601.5	1761.2	1954.8	2169.0	2389.2	2611.8	2857.3	3094.9	3311.0	3566.0
23 YPDOUTS	1371.31	1504.9	1627.7	1821.1	2011.6	2213.6	2419.8	2644.2	2861.6	3080.8	3297.0
24 CES	1336.51	1465.4	1599.3	1774.7	1962.2	2161.2	2364.4	2585.8	2800.2	3016.4	3229.6
25 YINTCS	33.71	38.3	42.3	45.3	48.3	51.3	54.3	57.3	60.3	63.3	66.3
26 TRPEFS	1.11	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
27 YPDSAVS	78.81	96.7	114.5	133.7	157.4	175.6	192.0	213.1	233.4	250.2	269.0
28 YPDSAVR	5.41	6.0	6.7	6.8	7.3	7.4	7.4	7.5	7.5	7.5	7.5
29 ADDENDUM PERI INCOME (1972 \$)											
30 YPD	964.41	995.5	1024.0	1067.9	1111.1	1149.8	1195.2	1228.3	1266.9	1304.5	1341.1

A PRODUCT OF CHARTER (P.A., INC., 3028 WILSON ST., CHULA, PA 19108) WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

TABLE 28.00 SOURCES AND USES OF GROSS SAVINGS
 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 SVRS	120.51	152.6	189.9	455.4	538.6	611.7	674.2	767.6	842.1	910.7	975.4
2 YPDSAVS	78.81	96.7	118.5	133.7	157.4	175.6	192.0	213.1	233.4	250.2	269.0
3 RETS	60.61	73.2	83.6	106.5	124.0	136.8	142.1	160.3	168.4	173.3	178.4
4 RETS	23.01	20.4	19.5	26.8	31.1	35.8	38.3	40.4	34.6	37.8	36.4
5 IVACS	18.11	21.4	24.1	25.1	26.1	27.1	28.1	29.1	30.1	31.1	32.1
6 CCAACPS	217.11	242.2	265.9	294.7	327.1	362.7	401.0	441.8	484.6	528.9	575.1
7 CCATS	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8 WALNS	-3.91	-17.6	-39.5	-27.6	-12.6	-0.6	5.6	21.9	25.5	27.2	21.4
9	-31.01	-40.6	-63.3	-54.4	-41.5	-31.4	-27.1	-13.2	-9.9	-8.7	-17.2
10 GVSURPS	27.11	22.9	23.7	26.8	28.9	30.8	32.6	35.1	35.4	35.8	38.6
11 GVSURPFS	0.01	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12 GVSURPSS	322.71	355.6	387.9	458.4	541.6	614.7	677.2	770.6	845.1	913.7	978.4
13	345.71	362.0	388.8	467.4	557.6	631.1	695.9	787.8	852.8	917.0	977.6
14 TBSDRS	-23.01	-6.4	-0.9	-9.1	-15.9	-16.4	-18.6	-17.2	-7.7	-3.3	0.8
15	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
16 IBS	24.31	26.1	27.9	27.7	28.6	28.7	28.7	28.6	28.6	28.3	28.2
17 IBS	14.41	14.2	15.1	16.5	16.8	16.5	15.5	16.1	15.8	15.3	14.9
18 TBSRFTS	66.91	65.4	62.7	61.0	59.3	59.2	60.0	59.2	59.3	59.9	60.3
19	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
20 SD3	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
21	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
22	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
23	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
24	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
25 VARI	24.31	26.1	27.9	27.7	28.6	28.7	28.7	28.6	28.6	28.3	28.2
26	14.41	14.2	15.1	16.5	16.8	16.5	15.5	16.1	15.8	15.3	14.9
27	66.91	65.4	62.7	61.0	59.3	59.2	60.0	59.2	59.3	59.9	60.3
28 VAR2	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
29	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
30	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
31	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
32 VAR3	2.21	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0

A PRODUCT OF WHARTON EFA, INC., 3624 MARKET ST, PHILA, PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
WHARTON PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 20.00 FINANCIAL SECTOR

LINE VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1 FM4S I MONEY SUPPLY	976.21	1061.5	1152.3	1288.6	1443.7	1619.2	1801.0	1987.2	2174.2	2364.3	2550.6
2 FM4S I	10.81	8.7	8.6	11.8	12.0	12.2	11.2	10.3	9.4	7.8	7.1
3											
4 FCUS H CURRENCY	97.71	107.6	118.0	130.9	144.4	162.7	183.9	206.6	228.3	248.2	269.6
5 FCUS H	10.31	10.1	9.6	10.9	10.3	12.7	13.0	12.4	10.5	8.7	8.6
6											
7 FDRDPS B COMMERCIAL BANK DEMAND DEPOSITS	265.91	279.6	301.6	335.8	364.0	404.5	460.4	522.5	578.6	630.3	682.3
8 FDRDPS B	7.01	5.2	7.9	11.3	8.4	11.1	13.0	13.5	10.7	8.9	5.1
9											
10 FORTS B COMMERCIAL BANK TIME DEPOSITS	612.51	674.0	732.7	822.0	935.4	1052.0	1156.7	1258.1	1367.3	1465.8	1578.7
11 FORTS B	12.41	10.0	8.7	12.2	13.8	12.5	9.9	8.8	8.7	7.2	7.7
12											
13 FREDET E EFFECTIVE RESERVE REQUIREMENT RATIO	0.0466	0.0464	0.0458	0.0457	0.0456	0.0455	0.0454	0.0453	0.0452	0.0451	0.0450
14 FREDA I REQUIRED RESERVES	41.01	44.3	47.4	53.0	59.3	66.3	73.5	80.7	88.0	94.6	100.9
15 FREDA I	40.21	44.3	47.3	52.8	59.0	66.3	73.7	80.9	87.8	94.4	101.0
16 FREDA I	-0.71	-0.0	-0.2	-0.2	-0.3	0.0	0.2	0.2	-0.2	-0.2	0.1
17											
18 FRMDRFB E DISCOUNT RATE	7.431	9.54	8.63	8.98	8.43	8.07	7.56	6.78	6.48	6.57	6.42
19 FRMDRFB B PRIME COMMERCIAL PAPER RATE 4-6 MO.	8.101	10.01	8.63	8.79	8.59	7.99	7.35	7.15	6.97	6.90	6.85
20											
21 FRMCS B ALL BOND RATE	9.061	9.79	9.64	9.77	10.01	9.50	9.26	8.95	8.64	8.37	8.29
22											
23 FRMCSI B INDUSTRIAL	8.901	9.62	9.47	9.60	9.82	9.33	9.11	8.81	8.51	8.24	8.17
24 FRMCSR B RAILS	8.741	9.45	9.30	9.44	9.68	9.15	8.92	8.60	8.28	8.00	7.92
25 FRMCSU B UTILITIES	9.221	9.97	9.81	9.95	10.20	9.66	9.42	9.09	8.77	8.48	8.40
26											
27 FRMBPE E RATE ON SAVINGS DEPOSITS	5.001	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
28 FRMDC E MAX. RATE ON TIME DEP. UNDER REG. D	16.001	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
29											
30 FRMHSE B MORTGAGE RATE, NEWLY BUILT HOMES	9.681	10.46	10.30	10.39	10.52	10.16	9.96	9.76	9.56	9.39	9.33
31 DUMSPREAD I DUMMY FOR INTEREST RATE SPREAD	0.581	0.20	0.60	0.59	0.76	0.80	0.96	0.92	0.87	0.79	0.78
32											
33 FSEL3 B EXTERNAL LIABILITIES	213.11	254.5	300.1	355.5	406.5	456.5	514.4	583.3	657.6	730.8	808.1
34 FSEC3 B EXTERNAL CLAIMS	108.01	113.9	122.1	132.1	141.2	150.7	162.7	178.2	201.4	226.2	250.1
35											
36 FRMED34 E 3 MO. EURODOLLAR RATE	8.591	10.72	9.04	9.42	9.47	9.12	8.72	8.42	8.22	8.12	8.02

A PRODUCT OF WHARTON EFA, INC., 3624 MARKET ST., PHILA., PA 19104 WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
 BENCH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 30.00 FEDERAL GOVERNMENT RECEIPTS AND EXPENDITURES (CURRENT \$)

LINE	VAR LABEL	J Y F	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	GVRF3	I RECEIPTS	429.8	467.1	491.6	550.0	614.9	684.3	752.8	833.8	908.0	983.2	1051.5
2	TXCPFS	R PERSONAL INCOME TAX	172.1	209.0	222.0	245.8	269.9	300.8	333.8	369.2	402.9	438.5	473.2
3	TXCCFS	R CORPORATE PROFITS TAX	71.5	69.4	68.6	85.7	100.8	112.3	120.3	135.3	145.6	154.3	162.9
4	TXCRFS	R INDIRECT BUSINESS TAX	27.8	29.0	29.9	29.5	33.1	36.7	40.2	44.2	47.8	51.3	47.9
5	TXCRFS	R INDIR BUSINESS TAX, GASOLINE	3.1	3.2	3.4	3.5	3.5	3.5	3.5	3.4	3.4	3.4	3.4
6	TXCRFGAS	E ENERGY MILE RECEIPTS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	TXCRFENG	R INDIR BUSINESS TAX, OTHER	24.7	25.7	26.5	26.0	29.6	33.3	36.7	40.8	44.4	47.9	44.5
8	TXCRF-GES	I CONTRIB FOR SOCIAL INSURANCE	138.4	159.8	171.1	180.0	211.1	234.5	258.5	285.1	311.7	339.0	367.5
9	TXCSFIS	R GASOLIN CONTRIBUTIONS	108.8	126.4	133.9	140.6	162.9	180.1	197.7	217.1	236.5	256.4	277.2
10	TXCSFIS	B TOTAL LESS GASOLIN	29.6	33.3	37.2	42.4	48.2	54.4	60.8	68.0	75.2	82.6	90.2
11	TXCSFIS	I EXPENDITURES	460.9	507.7	554.9	604.4	656.4	715.7	779.8	847.0	917.9	991.9	1068.6
12	GVRF3	I PURCHASES OF GOODS AND SERVICES	153.3	167.8	181.0	190.0	216.3	235.6	256.0	277.1	298.3	320.0	342.1
13	GVRF3	I NATIONAL DEFENSE	99.6	106.5	115.3	125.6	136.5	147.9	159.8	172.1	184.4	196.7	209.2
14	GVRF3	I HUNDEFENSE	53.7	61.3	65.7	72.5	79.8	87.7	96.1	104.9	113.9	123.3	132.9
15	GVRF3	I TRANSFER PAYMENTS	185.9	208.4	235.2	257.0	281.8	309.8	340.7	373.0	407.5	443.7	480.5
16	TRCPFS	I TO PERSONS	102.3	204.3	230.6	252.2	276.8	304.6	335.3	367.4	401.8	437.7	474.4
17	TRCPFS	B SUPPL UNEMPL INSUR BENEFITS	9.2	9.8	10.7	9.0	7.2	6.4	6.7	6.9	8.3	10.2	11.7
18	TRCPFS	FLOOD STAMP BENEFITS	4.6	4.1	4.0	4.3	4.7	5.1	5.5	5.9	6.3	6.7	7.1
19	TRCPFS	MILITARY RET & VET BENEFITS	26.2	29.3	32.6	36.2	40.0	44.1	48.4	52.9	57.4	62.2	67.0
20	TRCPFS	MEDICARE	26.0	31.1	37.4	43.0	49.0	55.6	62.8	70.6	78.8	87.6	97.0
21	TRCPFS	SOCIAL SECURITY BENEFITS	91.8	104.5	119.6	130.9	144.5	159.2	174.8	191.0	207.5	224.5	242.0
22	TRCPFS	OTHER TRANSFER PAYMENTS	24.6	25.6	26.4	28.7	31.4	34.3	37.2	40.3	43.4	46.5	49.6
23	TRCPFS	E TO FOREIGNERS (NET)	3.5	4.1	4.5	4.7	4.9	5.1	5.3	5.5	5.8	6.0	6.2
24	GVFIAS	E GRANTS-IN-AID TO STATE, LOC GOV	76.3	80.7	84.4	91.7	99.2	110.0	122.0	135.3	150.1	164.4	184.5
25	YINTGS	E NET INTEREST PAID	35.5	41.3	44.8	47.0	48.5	49.6	50.5	51.0	51.4	51.1	50.8
26	GVSRIFS	E SURPLUS LESS CURRENT SURPLUS	9.9	9.5	9.5	10.7	10.7	10.7	10.7	10.7	10.7	10.7	10.7
27	GVSRIFS	I SURPLUS OR DEFICIT (-)	-31.0	-40.6	-63.3	-58.4	-41.5	-31.4	-27.1	-13.2	-9.9	-8.7	-17.2
28	GVSRIFS	EFFECTIVE TAX RATES (%)	11.27	11.11	10.77	10.74	10.63	10.75	10.90	11.02	11.09	11.21	11.28
29	TXCPFS/VNS	PERSONAL INCOME TAX	35.30	32.69	29.77	30.34	30.74	30.76	30.78	30.80	30.81	30.82	30.83
30	TXCCFS/VNS	CORPORATE PROFITS TAX	1.63	1.55	1.47	1.29	1.30	1.30	1.30	1.30	1.30	1.29	1.12
31	TXCRFGAS/VNS	INDIR BUSINESS TAX, GASOLINE	6.12	5.74	5.39	5.01	4.66	4.36	4.09	3.86	3.66	3.48	3.32
32	TXCRFENG/VNS	INDIR BUSINESS TAX, OTHER	1.45	1.38	1.31	1.14	1.16	1.18	1.19	1.20	1.20	1.21	1.04
33	TXCSFIS/VNS	CONTRIBUTIONS FOR SOCIAL INSURANCE	10.65	11.14	10.94	10.90	10.99	11.07	11.15	11.24	11.32	11.42	11.51

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TABLE 31.00 STATE AND LOCAL RECEIPTS AND EXPENDITURES (CURRENT \$)

LINE	VAR LABEL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	RECEIPTS	327.21	352.9	381.0	421.0	465.6	514.8	565.9	620.5	674.6	729.5	784.3				
2	PERSONAL INCOME TAX	63.11	70.5	77.6	87.9	99.5	107.6	116.0	124.6	134.9	143.8	155.9				
3	CORPORATE PROFITS TAX	12.21	13.5	15.1	19.1	23.1	26.9	30.0	35.4	39.7	43.9	47.5				
4	INDIRECT BUSINESS TAX	156.11	159.3	172.1	187.4	205.5	227.9	252.1	275.3	295.9	317.0	338.8				
5	INDIRECT BUSINESS TAX, GASOLINE	6.61	7.1	7.6	7.9	8.2	8.3	8.4	8.5	8.7	8.8	8.9				
6	INDIRECT BUSINESS TAX, OTHER	143.41	152.1	164.5	179.5	197.3	219.6	243.6	266.8	287.2	308.2	329.9				
7	CONTRIBUTIONS FOR SOCIAL INSURANCE	25.61	28.9	31.7	34.9	38.3	42.0	45.8	49.9	54.1	58.3	62.6				
8	FEDERAL GRANTS-IN-AID	76.31	80.7	84.4	91.7	99.2	110.0	122.0	135.3	150.1	166.4	184.5				
9	EXPENDITURES	300.11	330.0	357.3	394.2	436.7	483.5	533.2	585.4	639.2	691.6	750.7				
10	PURCHASES OF GOODS AND SERVICES	280.11	306.9	330.3	362.2	399.2	440.2	483.8	529.8	577.3	625.3	675.9				
11	EDUCATION	115.61	126.6	134.8	146.2	159.4	173.9	189.0	204.5	220.3	235.7	251.7				
12	HEALTH AND WELFARE	64.71	70.9	77.2	86.7	97.9	110.6	124.5	139.6	155.8	172.7	191.0				
13	SAFETY	22.01	24.2	25.9	28.7	31.9	35.6	39.5	43.6	48.0	52.4	57.1				
14	OTHER	77.71	85.2	92.5	100.6	109.9	120.1	130.9	142.0	153.3	164.5	176.1				
15	TRANSFER PAYMENTS	33.71	38.4	43.6	48.7	54.1	60.0	66.1	72.3	78.6	85.0	91.5				
16	NET INTEREST PAID	-7.71	-9.3	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7	-10.7				
17	CURRENT SURP OF GOVT ENTERPRISES	-5.91	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0	-6.0				
18	SURPLUS OR DEFICIT (-)	27.11	22.9	23.7	26.8	28.9	30.8	32.6	35.1	35.4	35.8	36.6				
19	EFFECTIVE TAX RATES (%)															
20	PERSONAL INCOME TAX	3.701	3.75	3.77	3.84	3.92	3.85	3.79	3.72	3.71	3.67	3.72				
21	CORPORATE PROFITS TAX	6.011	6.39	6.55	6.77	7.05	7.36	7.68	8.05	8.41	8.77	9.08				
22	INDIRECT BUSINESS TAX	8.821	8.54	8.48	8.21	8.05	8.07	8.17	8.10	8.02	7.98	7.95				
23	INDIRECT BUSINESS TAX, GASOLINE	13.171	12.62	12.14	11.49	10.90	10.38	9.93	9.56	9.24	8.97	8.72				
24	INDIRECT BUSINESS TAX, OTHER	8.431	8.15	8.11	7.87	7.73	7.78	7.90	7.85	7.79	7.76	7.75				
25	CONTRIBUTIONS FOR SOCIAL INSURANCE	1.971	2.01	2.03	2.01	1.99	1.98	1.97	1.97	1.96	1.96	1.96				

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UNITED STATES AND INDUSTRY FORECASTING MODEL
 CHANGING PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 37.00 PERSONAL AND INDIRECT TAX RATES

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
STATE TAXES (EFFECTIVE RATES)												
1	PERSONAL INCOME	12.94	12.80	12.52	12.47	12.33	12.45	12.62	12.74	12.43	12.97	13.07
2	TAXES	14.00	11.39	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16
3	EXCEPTED	15.00	14.24	13.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96
4	EXCEPTED	16.00	15.66	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35
5	EXCEPTED	17.00	16.28	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
6	EXCEPTED	19.00	18.11	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74
7	EXCEPTED	22.00	20.83	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42
8	EXCEPTED	25.00	23.80	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33
9	EXCEPTED	28.00	27.46	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92
10	EXCEPTED	32.00	31.13	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
FEDERAL TAXES												
11	PERSONAL INCOME (AVE RATE)	12.94	12.80	12.52	12.47	12.33	12.45	12.62	12.74	12.43	12.97	13.07
12	TAX RATE 1ST BRACKET	14.00	11.39	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16	11.16
13	TAX RATE 2ND BRACKET	15.00	14.24	13.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96	13.96
14	TAX RATE 3RD BRACKET	16.00	15.66	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35	15.35
15	TAX RATE 4TH BRACKET	17.00	16.28	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95	15.95
16	TAX RATE 5TH BRACKET	19.00	18.11	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74	17.74
17	TAX RATE 6TH BRACKET	22.00	20.83	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42	20.42
18	TAX RATE 7TH BRACKET	25.00	23.80	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33	23.33
19	TAX RATE 8TH BRACKET	28.00	27.46	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92	26.92
20	TAX RATE 9TH BRACKET	32.00	31.13	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50	30.50
INCOME PROP. BY TAX BRACKET												
21	PROPORTION IN 1ST BRACKET	0.042610	0.0319	0.0289	0.0277	0.0268	0.0258	0.0244	0.0215	0.0192	0.0170	0.0153
22	PROPORTION IN 2ND BRACKET	0.045710	0.0350	0.0319	0.0304	0.0291	0.0281	0.0266	0.0235	0.0209	0.0186	0.0167
23	PROPORTION IN 3RD BRACKET	0.066210	0.0513	0.0453	0.0428	0.0400	0.0377	0.0349	0.0302	0.0261	0.0223	0.0191
24	PROPORTION IN 4TH BRACKET	0.058410	0.0554	0.0520	0.0490	0.0465	0.0442	0.0414	0.0365	0.0322	0.0284	0.0252
25	PROPORTION IN 5TH BRACKET	0.108710	0.1022	0.0967	0.0933	0.0900	0.0867	0.0839	0.0750	0.0654	0.0567	0.0482
26	PROPORTION IN 6TH BRACKET	0.205610	0.2245	0.2291	0.2293	0.2280	0.2266	0.2301	0.2360	0.2368	0.2393	0.2424
27	PROPORTION IN 7TH BRACKET	0.120610	0.1467	0.1553	0.1602	0.1620	0.1636	0.1663	0.1777	0.1864	0.1938	0.2002
28	PROPORTION IN 8TH BRACKET	0.160210	0.1710	0.1808	0.1920	0.1995	0.2061	0.2122	0.2194	0.2271	0.2340	0.2388
EXEMPTIONS & DEDUCTIONS												
29	TOTAL NUMBER OF RETIREES	90,521	93,133	96,333	99,400	102,266	104,604	106,511	108,471	110,110	111,688	113,211
30	NUMBER OF EXEMPTIONS (THOUS)	230,661	212,566	215,244	230,433	241,444	243,977	245,955	248,122	249,944	251,688	253,337
31	VALUE OF EXEMPTIONS (THOUS)	0.7501	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
32	NUMBER OF STAN DEDUCTIONS	58,221	59,000	60,255	61,300	61,933	62,700	61,966	61,455	61,422	61,766	61,511
33	NUMBER OF ITEM DEDUCTIONS	32,301	34,005	36,007	38,100	40,133	42,444	44,555	46,522	48,288	49,922	51,700
34	VALUE OF STAN DEDUCTIONS PER RET	2.5301	2.6899	2.8700	3.0047	3.2224	3.4055	3.5788	3.7500	3.9222	4.0944	4.2666
35	VALUE OF ITEM DEDUCTIONS PER RET	6.2001	6.1276	6.2222	6.9411	7.7333	8.5733	9.4399	10.4111	11.3600	12.2944	13.1944
36	VALUE OF STAN DEDUCTIONS	147,311	158,900	172,900	186,700	199,600	211,800	221,700	232,100	242,400	252,800	262,400
37	VALUE OF ITEM DEDUCTIONS	203,111	208,600	224,400	240,500	251,900	263,800	270,500	284,300	298,500	313,700	328,200
38	VALUE OF DEDUCTIONS	350,422	367,500	397,300	427,200	451,500	475,600	492,200	516,600	540,900	566,500	594,600
39	PAYING SD DEDUCTIONS TO TOTAL	0.63110	0.6304	0.6255	0.6167	0.6056	0.5944	0.5817	0.5712	0.5615	0.5510	0.5433

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WHARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 37.00 PERSONAL AND INDIRECT TAX RATES

LINE	VAR LABEL	I T E M	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	VPIA35	1 TAXABLE INCOME (MIA BASIS)---	1024,61103.7	1219.1	1370.4	1535.9	1708.4	1873.1	2058.6	2234.6	2406.8	2577.4	
2	TXRHTF	1 INDIRECT TAXES-----	1.631	1.55	1.47	1.29	1.30	1.30	1.30	1.30	1.30	1.29	1.12
3		SOCIAL INSURANCE											
4													
5													
6													
7	TXRSTF	1 EFFECTIVE TAX RATE-----	11.491	12.08	11.89	11.84	11.94	12.01	12.13	12.23	12.33	12.44	12.55
8	TXRSTF	E STATUTORY TAX RATE RATE-----	12.101	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26	12.26
9	TXRSHND	E EFFECTIVE COVERAGE-----	0.901	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
10	TXRSMAXYS	E EARNINGS BASE-----	17.701	22.40	22.90	22.90	24.50	26.22	28.05	30.02	32.12	34.37	36.77
11		RATIOS (X)---											
12	TXCSTPS/TXCSTYS	E PERS CONTRIB TO SI / TOTAL-----	42.341	40.91	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
13	RAWLSS	B TAXABLE ERMGS / COV ERMGS-----	85.351	89.00	89.88	88.40	88.27	88.15	88.09	88.04	88.11	88.28	88.51
14	RAWLSC	E COV ERMGS / TOT PRIV ERMGS-----	92.001	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00	92.00
15		NON-GRASDHI CONTRIB TO SI /											
16	RATXCSTF-S	E PERS INC LESS TRANSFERS-----	2.001	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45	2.50

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MONTHLY ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 45.10 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1970	1971	1972	1973	1974	1975	1976	1977	1978
1	CCAACPS	-18.12	-21.43	-24.11	-25.11	-26.11	-27.11	-28.11	-29.11	-30.11
2	CCAAYENTIS	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
3	CCAAYENTIS	-5.23	-5.76	-6.26	-6.76	-7.26	-7.76	-8.26	-8.76	-9.26
4	CCAAYENTIS	-20.94	-23.08	-25.08	-27.08	-29.08	-31.08	-33.08	-35.08	-37.08
5	CCARNIAG	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
6	CCARNICN	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
7	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
8	CCARNICN	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
9	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
10	CCARNICN	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
11	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
12	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
13	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
14	CCARNICN	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
15	CCARNICN	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
16	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
17	CCARNICN	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
18	CCARNICN	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
19	CCARNICN	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
20	CCARNICN	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
21	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
22	CCARNICN	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
23	CCARNICN	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
24	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
25	CCARNICN	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
26	CCARNICN	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
27	CCARNICN	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
28	CCARNICN	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
29	CCARNICN	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00
30	CCARNICN	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
31	CCARNICN	4.500	4.500	4.500	4.500	4.500	4.500	4.500	4.500	4.500
32	CCARRSH	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061
33	CCARRSH	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863	0.863
34	CCARRSH	25.85	25.85	25.85	25.85	25.85	25.85	25.85	25.85	25.85
35	CCARRSH	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
36	CCARRSH	3.40	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
37	CCARRSH	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60	15.60
38	CCARRSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
39	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	CCARRSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
42	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	CCARRSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
46	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	CCARRSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	CCARRSH	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	CCARRSH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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CHAPTER ANNUAL AND INDUSTRY FORECASTING MODEL
 HIGHLY PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

LINE	VAR LABEL	TABLE 45.10 EXOGENOUS ASSUMPTIONS										
		1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	DIMPXMFN22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	DIMPXMFN26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	DIMPSTLS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	DIMPSTPMFD25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	DIMPSTPMFD37SP2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	DIMPSTPMFN26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	DIMPSTPMFN30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	DIMPSTPMFC	78.00	79.00	80.00	81.00	82.00	83.00	84.00	85.00	86.00	87.00	88.00
10	DIMPSTPMFC	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
11	DIMPSTPMFC	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
12	DIMPSTPMFC	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
13	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	DIMPSTPMFC	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77	1.77
20	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	DIMPSTPMFC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	FREFS	-0.734	-0.000	-0.154	-0.200	-0.300	0.0	0.200	0.200	-0.200	-0.200	0.100
26	FREFS	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
27	FREFS	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00	16.00
28	FREFS	7.43	9.54	8.63	8.43	8.43	8.07	7.56	6.78	6.48	6.42	6.42
29	FREFS	8.59	10.72	9.04	9.42	9.42	9.12	8.72	8.42	8.22	8.12	8.12
30	FREFS	0.0466	0.0466	0.0458	0.0457	0.0456	0.0455	0.0454	0.0453	0.0452	0.0451	0.0450
31	GVPF	76.30	80.67	84.45	91.70	99.20	110.01	122.00	135.30	150.05	166.41	184.54
32	GVPF	36.281	37.164	37.801	38.556	39.311	40.066	40.821	41.576	42.331	43.086	43.841
33	GVPF	65.05	65.34	66.72	67.86	69.01	70.16	71.31	72.58	73.81	75.07	76.31
34	GVPF	35.04	37.61	37.99	39.17	40.34	41.63	42.92	44.25	45.62	47.04	48.47
35	GVPF	13.601	13.623	13.403	13.583	13.763	13.943	14.123	14.303	14.483	14.663	14.843
36	GVPF	72.15	73.97	74.11	75.21	76.60	78.02	79.35	80.64	82.01	83.27	84.59
37	GVPF	40.42	41.42	42.43	43.44	44.45	45.46	46.47	47.48	48.49	49.50	50.51
38	GVPF	13.76	14.19	14.20	14.76	15.35	15.96	16.58	17.20	17.86	18.52	19.21
39	GVPF	44.51	49.71	50.93	51.71	52.80	53.91	54.96	55.99	57.08	58.10	59.19
40	GVPF	9.47	9.47	9.52	10.72	10.72	10.72	10.72	10.72	10.72	10.72	10.72
41	GVPF	-5.92	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00	-6.00
42	GVPF	1.214	1.203	1.221	1.204	1.188	1.171	1.155	1.139	1.123	1.106	1.089
43	GVPF	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595	0.595
44	GVPF	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
45	GVPF	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
46	GVPF	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
47	GVPF	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
48	GVPF	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
49	GVPF	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82	0.82
50	GVPF	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70	-0.70
51	GVPF	5.920	5.920	5.920	5.920	5.920	5.920	5.920	5.920	5.920	5.920	5.920

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2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 2845, 2846, 2847, 2848, 2849, 2850, 2851, 2852, 2853, 2854, 2855, 2856, 2857, 2858, 2859, 2860, 2861, 2862, 2863, 2864, 2865, 2866, 2867, 2868, 2869, 2870, 2871, 2872, 2873, 2874, 2875, 2876, 2877, 2878, 2879, 2880, 2881, 2882, 2883, 2884, 2885, 2886, 2887, 2888, 2889, 2890, 2891, 2892, 2893, 2894, 2895, 2896, 2897, 2898, 2899, 2900, 2901, 2902, 2903, 2904, 2905, 2906, 2907, 2908, 2909, 2910, 2911, 2912, 2913, 2914, 2915, 2916, 2917, 2918, 2919, 2920, 2921, 2922, 2923, 2924, 2925, 2926, 2927, 2928, 2929, 2930, 2931, 2932, 2933, 2934, 2935, 2936, 2937, 2938, 2939, 2940, 2941, 2942, 2943, 2944, 2945, 29

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 HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 45.10 EXOGENOUS ASSUMPTIONS														
LINE	VAR LABEL	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988		
1	ITRACH	5.29	5.29	6.87	6.87	6.87	6.87	6.87	6.87	6.87	6.87	6.87		
2	ITRANFD24	8.46	8.46	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99	10.99		
3	ITRANFD25	6.55	6.55	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52	8.52		
4	ITRANFD32	8.14	8.14	10.58	10.58	10.58	10.58	10.58	10.58	10.58	10.58	10.58		
5	ITRANFD33	8.56	8.56	11.12	11.12	11.12	11.12	11.12	11.12	11.12	11.12	11.12		
6	ITRANFD34	7.88	7.88	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25	10.25		
7	ITRANFD35	6.31	6.31	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20		
8	ITRANFD36	7.93	7.93	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31	10.31		
9	ITRANFD37SP2	7.31	7.31	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50	9.50		
10	ITRANFD371	8.97	8.97	11.66	11.66	11.66	11.66	11.66	11.66	11.66	11.66	11.66		
11	ITRANFD38	7.57	7.57	9.84	9.84	9.84	9.84	9.84	9.84	9.84	9.84	9.84		
12	ITRANFD20	7.74	7.74	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07	10.07		
13	ITRANFD21	8.41	8.41	10.93	10.93	10.93	10.93	10.93	10.93	10.93	10.93	10.93		
14	ITRANFD22	8.38	8.38	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89	10.89		
15	ITRANFD23	7.02	7.02	9.12	9.12	9.12	9.12	9.12	9.12	9.12	9.12	9.12		
16	ITRANFD26	9.10	9.10	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83	11.83		
17	ITRANFD27	7.89	7.89	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26	10.26		
18	ITRANFD28	8.69	8.69	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29	11.29		
19	ITRANFD29	6.31	6.31	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20	8.20		
20	ITRANFD30	8.16	8.16	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61	10.61		
21	ITRANFD31	5.18	5.18	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74	6.74		
22	ITRANFD	6.19	6.19	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05	8.05		
23	ITRANFD48	5.02	5.02	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53		
24	ITRANFD49	6.30	6.30	8.19	8.19	8.19	8.19	8.19	8.19	8.19	8.19	8.19		
25	ITRANFD49	5.58	5.58	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25		
26	LNTRAG	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05	14.05		
27	LNTRAG	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17		
28	LNTRAGD24	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61	13.61		
29	LNTRAGD25	18.81	18.81	18.81	18.81	18.81	18.81	18.81	18.81	18.81	18.81	18.81		
30	LNTRAGD32	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26	17.26		
31	LNTRAGD33	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60	17.60		
32	LNTRAGD34	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40	16.40		
33	LNTRAGD35	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86	16.86		
34	LNTRAGD36	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30	15.30		
35	LNTRAGD37SP2	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46	16.46		
36	LNTRAGD371	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64	11.64		
37	LNTRAGD38	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60	16.60		
38	LNTRAGD20	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04	17.04		
39	LNTRAGD21	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97	16.97		
40	LNTRAGD22	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37	15.37		
41	LNTRAGD23	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29	16.29		
42	LNTRAGD26	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73	15.73		
43	LNTRAGD27	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50	14.50		
44	LNTRAGD28	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37	13.37		
45	LNTRAGD29	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63	24.63		
46	LNTRAGD30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30	16.30		
47	LNTRAGD31	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44	18.44		
48	LNTRAG	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17	21.17		
49	LNTRAGD48	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75	23.75		
50	LNTRAG	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11	23.11		
51	LNTRAGD49	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90	33.90		

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WATSON ANNUAL AND INDUSTRY FORECASTING MODEL
SECOND PRODUCTIVITY ALPHABETIC - DECEMBER 6, 1974

TABLE 45.10 EXISTING ASSUMPTIONS

LINE	VAR LABEL	1974	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NPFC	11.200	12.000	12.000	14.160	15.020	16.685	17.314	17.682	17.859	18.038	18.218
2	NPFC	20.950	22.220	23.740	25.920	28.045	30.149	31.114	31.518	31.754	31.991	32.232
3	NPFC	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350
4	NPFC	50.270	50.270	50.270	61.270	62.310	63.320	64.290	65.200	66.100	66.970	67.820
5	NPFC	75.940	77.500	79.060	80.650	82.240	83.820	85.360	86.860	88.310	89.740	91.140
6	NPFC	21.570	22.120	22.680	23.240	23.780	24.320	24.860	25.400	25.900	26.390	26.880
7	NPFC	6274.660	6435.000	6607.400	6807.000	7006.000	7006.000	7006.000	7169.000	7269.000	7371.000	7482.000
8	NPFC	478.170	478.000	478.000	478.000	478.000	478.000	478.000	478.000	478.000	478.000	478.000
9	NPFC	-1388.510	-1500.280	-1500.440	-1476.000	-1452.000	-1450.000	-1447.000	-1446.500	-1446.000	-1445.000	-1445.000
10	NPFC	2.120	2.040	2.070	2.070	2.070	2.070	2.070	2.070	2.070	2.070	2.070
11	NPFC	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
12	NPFC	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000	1816.809918530000
13	NPFC	55.2000	55.2000	55.2000	55.2000	55.2000	55.2000	55.2000	55.2000	55.2000	55.2000	55.2000
14	NPFC	110.3000	121.3000	124.2000	128.2000	131.2000	133.5000	135.6000	137.4000	138.1200	139.2400	140.1600
15	NPFC	4.130	4.060	3.990	3.890	3.700	3.550	3.460	3.440	3.500	3.580	3.670
16	NPFC	4.210	4.230	4.220	4.150	4.090	3.970	3.790	3.630	3.540	3.520	3.500
17	NPFC	10.160	10.300	10.300	10.490	10.470	10.420	10.340	10.180	9.890	9.600	9.290
18	NPFC	9.060	9.250	9.250	9.690	9.920	10.100	10.240	10.330	10.420	10.410	10.350
19	NPFC	8.010	8.350	8.690	9.140	9.110	9.270	9.470	9.700	9.910	10.140	10.320
20	NPFC	6.670	6.940	7.170	7.290	7.660	8.100	8.440	8.790	9.240	9.210	9.360
21	NPFC	5.600	5.900	6.000	6.140	6.360	6.720	6.990	7.220	7.340	7.910	8.150
22	NPFC	5.620	5.740	5.650	5.640	5.670	5.730	5.830	5.920	6.070	6.280	6.640
23	NPFC	6.130	6.060	6.020	5.940	5.860	5.790	5.710	5.620	5.610	5.640	5.700
24	NPFC	5.670	5.930	5.940	5.950	5.900	5.860	5.800	5.760	5.690	5.610	5.530
25	NPFC	5.010	5.000	5.210	5.320	5.460	5.560	5.620	5.630	5.630	5.590	5.550
26	NPFC	4.770	4.820	4.840	4.840	4.900	4.940	5.020	5.140	5.250	5.380	5.480
27	NPFC	3.670	3.800	3.940	4.030	4.100	4.160	4.200	4.220	4.260	4.280	4.310
28	NPFC	5.800	5.940	6.080	6.240	6.400	6.580	6.770	6.980	7.150	7.320	7.500
29	NPFC	4.290	4.220	4.160	4.040	3.840	3.690	3.600	3.580	3.640	3.730	3.820
30	NPFC	4.310	4.320	4.320	4.240	4.180	4.060	3.870	3.710	3.620	3.600	3.670
31	NPFC	10.290	10.430	10.510	10.610	10.660	10.540	10.470	10.310	10.020	9.710	9.800
32	NPFC	9.980	9.910	9.830	9.620	9.450	9.220	9.010	8.740	8.490	8.240	8.000
33	NPFC	7.080	7.080	7.080	7.000	7.570	7.810	8.140	8.490	8.920	9.040	9.040
34	NPFC	6.390	6.650	6.870	7.000	7.570	7.810	8.140	8.490	8.920	9.040	9.040
35	NPFC	5.520	5.610	5.690	5.840	6.050	6.410	6.670	6.890	7.020	7.580	7.830
36	NPFC	5.540	5.470	5.340	5.360	5.380	5.430	5.520	5.600	5.750	5.950	6.310
37	NPFC	5.700	5.660	5.640	5.600	5.540	5.470	5.390	5.310	5.290	5.310	5.360
38	NPFC	5.470	5.430	5.450	5.460	5.420	5.400	5.370	5.350	5.310	5.250	5.180
39	NPFC	4.010	4.480	4.580	4.680	4.820	4.910	4.990	4.990	4.990	4.960	4.950
40	NPFC	3.790	3.840	3.870	3.900	3.920	3.950	4.010	4.110	4.210	4.310	4.410
41	NPFC	2.680	2.760	2.860	2.910	2.970	3.030	3.060	3.080	3.110	3.130	3.150
42	NPFC	1.280	1.340	1.410	1.410	1.400	1.350	1.374	1.385	1.393	1.402	1.410
43	NPFC	14.400	14.300	14.200	14.100	14.000	13.900	13.800	13.700	13.600	13.500	13.400
44	NPFC	15.360	15.680	16.090	16.690	17.330	17.950	18.480	18.880	19.150	19.330	19.450
45	NPFC	16.890	16.490	16.100	15.570	15.420	15.540	15.860	16.260	16.800	17.110	17.110
46	NPFC	18.590	18.000	17.400	17.820	17.640	17.360	16.960	16.560	16.030	15.870	15.980
47	NPFC	4.140	4.080	3.910	3.690	3.500	3.510	3.560	3.640	3.720	3.810	3.920
48	NPFC	152.250	137.100	146.150	157.830	168.760	180.530	192.140	203.960	215.770	227.580	239.390
49	NPFC	170.350	201.110	221.790	234.750	247.880	260.860	273.830	286.980	300.130	313.270	327.450
50	NPFC	140.760	148.930	152.500	158.160	159.910	163.750	167.680	171.700	175.820	180.050	184.370
51	NPFC	108.950	155.130	153.290	163.590	168.010	172.540	177.200	181.980	186.900	191.940	197.120

A SUMMARY OF WATSON (E) (C) 1974, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988. OTHER PERMISSIONS MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

QUARTERLY ANNUAL AND INDUSTRY FORECASTING MODEL
 LOWER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1976

TABLE 45.10 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	PIM4	225.67	242.53	259.32	276.25	297.30	316.30	336.58	358.22	380.61	404.10	428.31				
2	PIM5DE	140.40	151.06	160.34	167.94	171.73	175.77	179.90	184.12	188.45	192.89	197.41				
3	P1EGICH	393.04	418.96	445.12	472.71	511.01	542.90	578.96	615.60	651.99	688.50	727.02				
4	P1EGIFC	240.13	243.36	340.54	334.96	360.87	387.95	415.26	442.66	471.04	499.29	528.96				
5	P1EGIFH	148.10	155.50	165.80	179.51	193.24	206.88	220.56	235.26	249.96	264.66	280.00				
6	P1EGIFH	196.23	215.12	229.83	244.03	258.26	273.11	288.33	304.43	321.17	338.25	356.23				
7	P1EGIFH	279.70	301.60	334.70	372.57	402.38	426.52	449.98	474.27	499.41	525.38	552.17				
8	P1EGIFH	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00				
9	P1EGIFH	8.60	8.60	9.00	9.18	9.35	9.53	9.71	9.91	10.11	10.31	10.51				
10	P1MGCT30T	8.99	9.53	10.05	10.60	11.19	11.80	12.45	13.13	13.86	14.62	15.42				
11	P1MGCT32V	51.85	56.33	59.50	62.77	66.22	69.87	73.71	77.76	82.04	86.55	91.31				
12	P1MGCT331	14.55	15.71	16.65	17.73	18.80	19.83	20.82	21.86	22.96	24.10	25.31				
13	P1MGCT332A	10.60	11.24	11.85	12.47	13.12	13.81	14.54	15.30	16.11	16.96	17.85				
14	P1MGCT334	277.10	306.20	338.70	354.30	377.90	401.50	425.10	448.70	472.30	495.90	520.69				
15	P1MGCT334	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0				
16	RACEDAVN	0.6834	0.6870	0.6332	0.6204	0.6184	0.6164	0.6144	0.6124	0.6104	0.6084	0.6064				
17	RACENGAUTO	0.3285	0.3361	0.3442	0.3462	0.3482	0.3502	0.3522	0.3542	0.3562	0.3582	0.3602				
18	RATXSFT-S	2.000	2.050	2.100	2.150	2.200	2.250	2.300	2.350	2.400	2.450	2.500				
19	RAWLSC	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000	92.000				
20	RAYPSY	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400	0.8400				
21	REXCA	87.75	86.63	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00				
22	REXFR	22.14	21.25	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00	21.00				
23	REXGE	49.84	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00	51.00				
24	REXIT	0.1175	0.1152	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135	0.1135				
25	REXJA	0.4809	0.5050	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100	0.5100				
26	REXME	4.392	4.100	4.000	3.490	3.490	3.490	3.490	3.490	3.490	3.490	3.490				
27	REXIK	191.34	187.00	185.00	185.54	185.54	185.54	186.09	186.09	186.09	186.09	186.09				
28	SOS	2.17	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00				

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WARTON ANNUAL AND INDUSTRY FORECASTING MODEL
HIGH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 45.20 EXOGENOUS ASSUMPTIONS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	TEHAY	-1.16	-1.04	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
2	TEHCA	-0.57	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
3	TEHDES	8.20	4.02	9.93	10.20	10.50	10.80	11.10	11.40	11.70	12.00	12.30
4	TEHSTERS	0.78	4.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50	8.50
5	TEHSTIS	0.97	10.60	11.00	12.82	14.40	16.17	18.14	20.34	22.41	24.46	26.70
6	TECGDPL4003	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
7	TECGD3	1.00	1.00	1.20	1.20	1.20	1.20	1.40	1.59	1.69	1.79	1.89
8	TEGUT2203	5.00	4.62	7.13	7.52	7.92	8.32	8.72	9.12	9.52	9.92	10.32
9	TEGUT35	14.04	17.22	19.12	20.92	22.68	24.41	26.74	29.07	31.40	33.73	36.06
10	TEHAY	-5.25	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10	-5.10
11	TEHAY	136.38	143.26	149.71	156.69	167.90	177.64	187.94	198.84	210.37	222.57	235.48
12	TEHAY	-0.83	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90	-0.90
13	TEHAY	-3.39	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85	-3.85
14	TEHAY	6.57	7.16	7.88	7.88	7.88	7.88	7.88	7.88	7.88	7.88	7.88
15	TEHAY	2.17	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
16	TEHAY	4.66	5.23	5.83	6.40	6.97	7.60	8.28	8.93	9.64	10.73	11.69
17	TEHAY	302.00	314.00	325.00	331.50	338.13	344.89	351.79	358.82	366.00	373.32	380.79
18	TEHAY	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70
19	TEHAY	2204.70	2455.00	2660.00	2899.41	3131.41	3350.64	3568.46	3768.32	3968.06	4166.48	4366.49
20	TEHAY	511.00	531.00	550.00	568.24	600.95	639.62	688.84	699.81	729.83	759.82	789.81
21	TEHAY	1000.00	1050.00	1400.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00	1800.00
22	TEHAY	0.1179	0.1235	0.1215	0.1215	0.1215	0.1215	0.1215	0.1215	0.1215	0.1215	0.1215
23	TEHAY	0.1205	0.1191	0.1189	0.1169	0.1149	0.1129	0.1109	0.1089	0.1069	0.1049	0.1029
24	TEHAY	10.69	11.84	13.01	15.81	14.61	15.41	16.21	17.01	17.81	18.61	19.41
25	TEHAY	3.55	4.07	4.55	4.75	4.95	5.15	5.35	5.55	5.75	5.95	6.15
26	TEHAY	2.02	2.30	2.13	2.18	2.22	2.26	2.30	2.34	2.39	2.43	2.48
27	TEHAY	17.00	18.20	19.00	19.80	20.49	21.21	21.95	22.72	23.52	24.34	25.19
28	TEHAY	16.35	15.93	15.39	15.69	16.08	16.49	16.90	17.32	17.75	18.20	18.65
29	TEHAY	16.54	18.37	20.60	21.83	22.92	24.07	25.27	26.53	27.86	29.25	30.71
30	TEHAY	61.03	64.93	69.79	71.54	74.04	76.63	79.31	82.09	84.96	87.94	91.01
31	TEHAY	22.39	23.87	25.46	26.59	27.72	28.85	29.98	31.08	32.18	33.28	34.41
32	TEHAY	1.07	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
33	TEHAY	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
34	TEHAY	42.34	40.91	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
35	TEHAY	2.53	2.69	2.87	3.05	3.22	3.40	3.58	3.75	3.92	4.09	4.27
36	TEHAY	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
37	TEHAY	17.70	22.94	22.90	22.90	20.50	26.22	28.05	30.02	32.12	34.37	36.77
38	TEHAY	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030	0.9030
39	TEHAY	13.20	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00
40	TEHAY	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00	67.00
41	TEHAY	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	TEHAY	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15	2.15
43	TEHAY	34.58	33.14	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98	30.98
44	TEHAY	20.33	23.32	21.40	21.80	21.80	21.80	21.80	21.80	21.80	21.80	21.80
45	TEHAY	31.08	29.71	29.71	29.71	29.71	29.71	29.71	29.71	29.71	29.71	29.71
46	TEHAY	31.08	30.61	29.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62	28.62
47	TEHAY	10.02	10.25	10.76	11.26	11.76	12.26	12.76	13.26	13.76	14.26	14.76
48	TEHAY	30.12	37.00	35.05	35.05	35.05	35.05	35.05	35.05	35.05	35.05	35.05
49	TEHAY	40.14	34.50	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00	36.00
50	TEHAY	40.60	38.00	36.37	36.37	36.37	36.37	36.37	36.37	36.37	36.37	36.37
51	TEHAY	45.23	41.24	38.55	38.55	38.55	38.55	38.55	38.55	38.55	38.55	38.55

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TABLE 45.20 EXCISE TAX ASSUMPTIONS

[illegible]

SHORT-TERM ANNUAL AND INDUSTRY FORECASTING MODEL
EIGHTH PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

TABLE 45.10 CONSTANT ADJUSTMENTS												
LINE	VAR LABEL	1974	1977	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	CCATAGS	0.07	-0.02	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21	0.21
2	CCATGHS	-0.76	-0.07	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
3	CCATFD24S	-0.02	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
4	CCATFD25S	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
5	CCATFD32S	0.00	-0.06	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
6	CCATFD33S	0.11	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19
7	CCATFD34S	-0.00	-0.02	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
8	CCATFD35S	0.00	-0.03	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
9	CCATFD36S	-0.07	-0.13	-0.10	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19	-0.19
10	CCATFD37SP23	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
11	CCATFD37S13	-0.11	-0.14	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25	-0.25
12	CCATFD38S	0.00	-0.03	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
13	CCATFD20S	0.00	-0.01	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03	-0.03
14	CCATFD21S	-0.01	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02	-0.02
15	CCATFD22S	-0.01	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
16	CCATFD23S	0.00	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
17	CCATFD26S	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
18	CCATFD27S	-0.01	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
19	CCATFD28S	0.10	0.14	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
20	CCATFD29S	-0.03	-0.05	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
21	CCATFD30S	-0.03	-0.05	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08	-0.08
22	CCATFD31S	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	CCATMG3	0.00	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
24	CCATRG48S	0.11	0.31	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36	0.36
25	CCATRG7S	0.02	0.21	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06
26	CCATRG149S	0.03	-0.01	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06	-0.06
27	CEADP	-0.34	-0.34	-0.20	-0.01	0.17	0.17	0.17	0.17	0.17	0.17	0.17
28	CEDAVH	0.49	-0.01	-0.11	-0.50	-0.59	-0.71	-1.50	-2.00	-2.50	-3.00	-3.50
29	CEDAVAT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	CEDAVU	-0.62	-0.20	-0.28	-0.03	-0.58	-0.73	-0.88	-1.03	-1.18	-1.33	-1.48
31	CEDF	3.70	5.53	5.07	5.38	4.99	4.40	3.91	2.52	1.13	-0.26	-1.65
32	CEFN	0.82	1.59	1.75	1.48	1.19	0.91	0.63	0.35	0.07	-0.21	-0.49
33	CENC	-0.32	1.05	1.05	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
34	CEIF	2.76	1.59	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13	-1.13
35	CENG	0.27	0.59	0.88	1.38	1.38	1.38	1.38	1.38	1.38	1.38	1.38
36	CEHGM	-1.37	0.34	1.68	1.98	1.98	1.98	1.98	1.98	1.98	1.98	1.98
37	CEM	0.10	-2.10	-4.50	-3.04	-1.54	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
38	CEH	2.24	1.59	1.33	2.24	2.49	2.79	3.24	3.84	4.59	5.49	6.54
39	CESS	3.00	3.45	2.71	2.61	2.61	2.61	2.61	2.61	2.61	2.61	2.61
40	CEST	2.76	3.42	3.38	3.62	3.67	4.12	4.37	4.62	4.87	5.12	5.37
41	FCUS	-1.64	1.49	3.03	-0.17	-1.07	0.33	2.53	6.03	9.53	13.03	19.53
42	FHUPS	-77.09	-74.57	-83.02	-102.62	-120.52	-139.62	-155.32	-165.12	-174.92	-184.72	-211.52
43	FHITS	61.01	70.10	67.16	84.56	110.56	135.46	154.66	171.16	184.66	204.16	234.66
44	FHICPM	-0.04	-2.349	-2.719	-1.468	-1.688	-1.473	-1.505	-0.690	-0.405	-0.811	-0.819
45	FHICS	0.766	-0.329	-1.319	-0.498	0.147	-0.135	0.347	0.250	0.200	0.001	0.149
46	FHIC3I	0.076	0.109	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106	0.106
47	FHICSP	-0.577	-0.622	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612	-0.612
48	FHICSU	-0.023	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020	-0.020
49	FHICF	0.970	1.070	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
50	FHICF	46.35	30.10	25.00	25.05	25.07	25.88	25.88	25.00	25.88	25.87	25.89
51	FHICF	-0.00	-0.22	-0.20	-0.22	-0.23	-0.24	-0.24	-0.25	-0.25	-0.25	-0.25

A PRODUCT OF THE ECONOMIC RESEARCH SERVICE, BUREAU OF ECONOMIC ANALYSIS, DEPARTMENT OF COMMERCE. LIMITED PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

UNITED STATES ANNUAL AND INDUSTRY FORECASTING MODEL
 BECHER PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

TABLE 45.30 CONSTANT ADJUSTMENTS

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	INDIV	0.00	0.74	0.15	-0.60	-1.35	-1.10	-0.85	-0.60	-0.35	-0.10	0.15
2	MSPRM	-119.16	-202.30	-179.01	-129.01	-78.95	-28.91	21.08	71.06	121.04	171.03	221.08
3	MSPRM	-408.26	-470.50	-546.81	-620.52	-700.34	-787.22	-880.48	-980.12	-1086.51	-1199.39	-1319.39
4	MSPRM	274.29	426.18	656.18	982.72	137.54	180.22	-10.84	96.88	190.28	220.52	137.14
5	IAAC	-4.026	-2.665	-2.548	-0.528	1.467	3.058	3.525	2.651	1.047	-0.786	-2.491
6	IACH	-2.018	-2.052	-1.058	-0.323	0.300	0.595	0.610	0.672	0.195	0.028	0.038
7	IACHD24	-0.776	-0.730	-0.710	-0.657	-0.503	-0.519	-0.493	-0.491	-0.550	-0.609	-0.662
8	IACHD25	-0.017	-0.008	-0.024	-0.030	-0.030	-0.035	-0.046	-0.062	-0.086	-0.108	-0.128
9	IACHD32	0.019	0.082	0.350	0.436	0.565	0.666	0.699	0.679	0.552	0.427	0.352
10	IACHD33	2.175	2.337	2.270	2.425	2.612	2.768	2.857	2.896	2.731	2.560	2.360
11	IACHD36	-0.156	-0.034	-0.101	-0.089	-0.097	-0.168	-0.300	-0.461	-0.654	-0.792	-0.827
12	IACHD35	0.390	0.014	0.391	0.423	0.477	0.465	0.398	0.358	0.236	0.157	0.057
13	IACHD37	-1.089	-0.049	-0.302	-0.259	-0.207	-0.166	-0.130	-0.076	-0.078	-0.075	-0.089
14	IACHD37P2	-0.606	-0.084	-1.033	-1.230	-1.436	-1.722	-2.022	-2.298	-2.652	-2.948	-3.212
15	IACHD38	-0.552	-0.612	-0.604	-0.610	-0.600	-0.595	-0.606	-0.620	-0.661	-0.696	-0.742
16	IACHD20	0.647	-0.094	-0.526	-0.692	-0.893	-0.970	-1.031	-1.034	-1.032	-0.943	-0.788
17	IACHD22	-0.110	-0.153	-0.147	-0.142	-0.123	-0.118	-0.121	-0.115	-0.124	-0.118	-0.120
18	IACHD23	-0.077	-0.088	-0.089	-0.092	-0.094	-0.103	-0.116	-0.128	-0.146	-0.157	-0.165
19	IACHD26	0.545	0.517	0.568	0.668	0.775	0.854	0.869	0.856	0.757	0.722	0.722
20	IACHD27	-0.081	-0.132	-0.112	-0.084	-0.056	-0.043	-0.043	-0.039	-0.063	-0.074	-0.074
21	IACHD28	0.109	-0.805	-1.105	-0.821	-0.548	-0.275	-0.012	0.237	0.281	0.423	0.549
22	IACHD29	2.640	0.948	1.331	0.013	4.810	5.433	5.785	6.011	5.836	5.711	5.728
23	IACHD30	-1.028	-0.948	-1.032	-1.190	-1.125	-1.080	-1.067	-1.073	-1.128	-1.164	-1.187
24	IACHD31	-0.015	-0.002	0.017	0.031	0.027	0.019	0.007	-0.005	-0.018	-0.026	-0.030
25	IACHD32	0.014	0.068	0.205	0.586	0.879	1.174	1.241	1.350	1.456	1.579	1.728
26	IACHD33	-5.978	-6.055	-5.093	-3.987	-3.250	-2.790	-2.674	-2.656	-3.208	-3.779	-4.379
27	IACHD34	-2.339	-2.814	-3.138	-2.942	-2.772	-2.715	-2.723	-2.733	-2.933	-3.092	-3.221
28	IACHD35	-3.752	-3.708	-3.070	-2.263	-1.539	-1.299	-1.551	-1.846	-2.876	-3.559	-4.356
29	IACHD36	10.110	10.061	5.900	4.032	3.528	3.027	2.528	2.028	1.528	1.028	0.527
30	IACHD37	1.393	2.991	3.236	2.773	2.774	2.774	2.774	2.774	2.774	2.774	2.774
31	IACHD38	-0.66	-1.50	0.33	0.41	0.68	0.94	1.20	1.47	1.74	2.00	2.26
32	IACHD39	0.38	0.62	0.35	0.39	0.39	0.39	0.39	0.39	0.39	0.39	0.39
33	IACHD40	0.01	0.01	-0.07	-0.02	-0.02	-0.03	-0.02	-0.03	-0.02	-0.01	-0.01
34	IACHD41	0.00	0.01	-0.00	0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
35	IACHD42	-2.09	-1.43	-2.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	IACHD43	-2.09	-1.77	-2.39	-1.40	-1.50	-1.60	-1.70	-1.80	-1.90	-2.00	-2.10
37	IACHD44	-0.21	-0.08	-0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	IACHD45	0.03	0.02	-0.01	0.01	-0.01	-0.02	-0.01	-0.02	-0.02	-0.01	-0.01
39	IACHD46	-4.33	-1.20	-1.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	IACHD47	12.59	17.61	17.00	18.88	19.44	20.44	21.44	22.44	23.44	24.44	25.44
41	IACHD48	0.53	0.46	0.38	0.36	0.38	0.38	0.38	0.38	0.38	0.38	0.38
42	IACHD49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	IACHD50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	IACHD51	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
45	IACHD52	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
46	IACHD53	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
47	IACHD54	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
48	IACHD55	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
49	IACHD56	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
50	IACHD57	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00
51	IACHD58	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00

A PRODUCT OF UNITED STATES ANNUAL AND INDUSTRY FORECASTING MODEL - DECEMBER 6, 1978

A PROPERTY OF MATHEMATICS, VOL. 1, OF 1910. KITE'S REVISION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

TABLE 45.30 CONSTANT ADJUSTMENTS																
LINE	VAR LABEL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	NEETICC	44.25	1.45	42.95	-145.14	-01.32	-41.11	-139.02	-62.54	-10.43	-29.05					
2	NEETIFI	51.94	-17.77	50.91	-34.29	-60.75	-39.30	-42.57	-38.42	-37.14	-34.54					
3	NEETIGV	-1.30	0.00	-0.00	0.01	0.00	-0.00	-0.00	-0.00	0.01	0.01					
4	NEETIGVS	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01					
5	NEETIFD19	13.70	2.76	-12.55	-8.04	-7.24	-8.84	-5.84	-7.05	-7.05	-7.05					
6	NEETIFD24	35.51	14.44	11.12	22.71	23.31	25.71	26.31	27.81	30.21	31.81					
7	NEETIFD25	-26.05	-35.24	-41.09	-63.02	-72.96	-82.90	-92.84	-107.78	-112.72	-117.66					
8	NEETIFD32	16.47	10.06	1.56	-8.44	-10.94	-13.44	-15.94	-18.44	-20.94	-23.44					
9	NEETIFD33	62.35	41.18	20.57	14.57	9.57	4.57	-0.43	-5.43	-10.43	-15.43					
10	NEETIFD34	96.57	81.53	67.47	72.47	67.47	62.47	57.47	52.47	47.47	42.47					
11	NEETIFD35	-20.48	-55.54	-71.78	-113.39	-155.04	-204.34	-228.99	-253.64	-278.29	-302.94					
12	NEETIFD36	138.43	155.21	181.94	182.28	186.77	191.26	195.75	204.73	209.22	213.71					
13	NEETIFD37SP1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
14	NEETIFD37SP2	52.00	44.26	36.56	31.05	24.95	18.05	11.15	-2.65	-9.55	-16.45					
15	NEETIFD37I	-90.90	-86.61	-83.42	-80.66	-77.86	-73.26	-68.66	-62.46	-55.26	-48.06					
16	NEETIFD372.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
17	NEETIFD38	-12.76	-19.22	-27.33	-37.59	-47.32	-57.05	-66.78	-76.51	-86.24	-95.97					
18	NEETIFD39	1.44	-7.08	13.11	9.48	8.48	7.47	6.47	5.47	4.47	3.48					
19	NEETIFD20	38.08	-2.99	-7.49	-21.14	-32.83	-40.14	-45.14	-50.64	-56.20	-62.19					
20	NEETIFD21	-1.17	-0.95	-0.34	-0.54	-0.74	-0.93	-1.13	-1.33	-1.52	-1.72					
21	NEETIFD22	56.24	55.60	53.66	50.66	46.66	41.66	36.66	31.66	26.66	21.66					
22	NEETIFD23	-89.40	-97.23	-106.51	-117.97	-129.43	-140.89	-152.35	-163.81	-175.27	-186.73					
23	NEETIFD26	24.32	24.85	23.50	23.33	23.17	23.01	22.85	22.69	22.53	22.37					
24	NEETIFD27	-5.33	-4.36	-3.40	-2.43	-1.46	-0.49	0.48	1.46	2.44	3.42					
25	NEETIFD28	21.00	22.12	23.03	23.63	24.59	25.10	25.61	26.12	26.63	27.14					
26	NEETIFD29	2.61	6.69	4.99	0.59	-0.01	-0.61	-1.21	-1.81	-2.41	-3.01					
27	NEETIFD30	-19.17	-22.11	-23.44	-31.62	-34.96	-38.30	-41.64	-44.98	-48.32	-51.66					
28	NEETIFD31	2.33	-0.71	-2.98	-8.35	-11.42	-14.43	-17.37	-20.09	-22.31	-24.54					
29	NEETIFD32	49.02	41.34	-10.33	-15.34	-17.20	-17.88	-19.04	-19.57	-20.24	-20.63					
30	NEETIFD33	-127.05	-182.95	-196.59	-220.68	-233.42	-249.43	-261.17	-271.17	-280.68	-289.08					
31	NEETIFD34	26.60	81.23	91.76	88.43	83.06	80.46	78.36	73.16	69.26	64.86					
32	NEETIFD35	3.48	-0.74	-27.68	-30.95	-31.65	-30.35	-29.85	-29.15	-28.45	-27.75					
33	NEETIFD36	-127.05	111.24	-153.43	107.44	-214.62	-154.36	-116.68	-89.94	-64.20	-44.25					
34	NEETIFD37	33.83	-62.38	-135.14	27.17	-161.91	-44.89	-33.80	-92.40	-164.27	-246.35					
35	NEETIFD38	423.09	368.43	348.30	368.69	376.99	385.29	393.59	401.89	410.19	418.49					
36	NEETIFD39	0.0	0.0	0.0	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14	-0.14					
37	NEETIFD40	0.0	0.0	0.0	-0.06	-0.12	-0.18	-0.24	-0.30	-0.36	-0.42					
38	NEETIFD41	0.0	0.0	0.0	-0.09	-0.18	-0.27	-0.36	-0.45	-0.54	-0.63					
39	NEETIFD42	0.0	0.0	0.0	-0.18	-0.26	-0.34	-0.42	-0.50	-0.58	-0.66					
40	NEETIFD43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
41	NEETIFD44	0.0	0.0	0.0	-0.15	-0.30	-0.45	-0.60	-0.75	-0.90	-1.05					
42	NEETIFD45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
43	NEETIFD46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
44	NEETIFD47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
45	NEETIFD48	0.0	0.0	0.0	-0.08	-0.16	-0.24	-0.32	-0.40	-0.48	-0.56					
46	NEETIFD49	0.0	0.0	0.0	0.0	0.24	0.48	0.72	0.96	1.20	1.44					
47	NEETIFD50	0.0	0.0	0.0	0.20	0.40	0.60	0.80	1.00	1.20	1.40					
48	NEETIFD51	0.0	0.0	0.0	0.20	0.40	0.60	0.80	1.00	1.20	1.40					
49	NEETIFD52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					
50	NEETIFD53	0.0	0.0	0.0	0.22	0.27	0.32	0.37	0.42	0.47	0.52					
51	NEETIFD54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0					

PLANT AND INDUSTRY FORECASTING MODEL
 HICAP PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1978

LINE	VAN LABEL	1976	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	HLIP-102A	0.0	0.0	0.0	0.0	0.0	0.0	0.30	0.30	0.30	0.30	0.30
2	HLIP-102B	0.0	0.0	0.0	0.0	0.0	0.0	0.15	0.16	0.17	0.18	0.19
3	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	-0.10	-0.12	-0.14	-0.17	-0.19
4	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	-0.29	-0.36	-0.43	-0.50	-0.58
5	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	-1.00	-1.09	-1.00	-0.95	-0.90
6	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	-0.076	-0.094	-0.113	-0.132	-0.151
7	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	6.085	6.285	6.485	6.685	6.885
8	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.195	0.244	0.293	0.341	0.390
9	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.472	0.590	0.708	0.826	0.944
10	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.100	0.120	0.140	0.160
11	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	-0.440	-0.550	-0.660	-0.770	-0.880
12	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
13	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
14	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
15	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
16	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
17	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
18	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
19	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
20	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
21	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
22	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
23	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
24	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
25	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
26	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
27	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
28	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
29	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
30	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
31	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
32	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
33	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
34	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
35	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
36	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
37	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
38	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
39	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
40	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
41	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
42	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
43	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
44	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
45	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
46	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
47	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
48	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
49	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
50	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000
51	HLIP-103	0.0	0.0	0.0	0.0	0.0	0.0	0.000	0.000	0.000	0.000	0.000

A PRODUCT OF HICAP, INC. 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000

TABLE 45.30 CONSTANT ADJUSTMENTS

[illegible]

A PRODUCT OF WHARTON FFA INC., 3620 MARSHFIELD ST., FULLA, PA 19164. WRITTEN PERMISSION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

TABLE 45.40 CONSTANT ADJUSTMENTS
1970-1979 ANNUAL AND INDUSTRY FORECASTING MODEL
INDUSTRY PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

LINE	VAR LABEL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	PC	0.02	1.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	PCCF	-1.05	-1.74	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	PCS	0.90	4.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	PCSR	2.80	4.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	PDCENAP	-0.32	6.55	2.61	2.74	2.74	2.74	2.74	2.74	2.74	3.65	3.21	3.16	3.07	3.05	2.95
6	PDCENAVN	-0.50	-0.09	-7.18	-9.61	-9.61	-9.61	-9.61	-9.61	-9.61	-21.27	-27.13	-33.18	-39.27	-45.29	-51.39
7	PDCENAVR	0.59	-0.25	-6.09	-2.30	-2.30	-2.30	-2.30	-2.30	-2.30	-4.92	-6.25	-7.80	-9.39	-10.91	-12.52
8	PDCENAVR	-6.03	-5.63	-2.97	-14.27	-14.27	-14.27	-14.27	-14.27	-14.27	-49.77	-67.55	-85.61	-103.75	-121.79	-142.93
9	PDCENF	-2.42	-3.51	-4.74	-4.65	-4.65	-4.65	-4.65	-4.65	-4.65	-4.34	-4.21	-4.26	-4.34	-4.37	-4.46
10	PDCENF	0.31	-0.23	-0.04	1.04	1.04	1.04	1.04	1.04	1.04	3.37	4.51	5.46	6.18	7.35	8.25
11	PDCENF	-1.42	-0.25	-5.48	-5.48	-5.48	-5.48	-5.48	-5.48	-5.48	-5.27	-5.05	-5.09	-5.17	-5.20	-5.29
12	PDCENF	2.19	0.66	6.16	5.77	5.77	5.77	5.77	5.77	5.77	5.20	4.89	4.34	3.74	3.21	2.58
13	PDCENG	-2.19	-2.35	-6.73	-2.27	-2.27	-2.27	-2.27	-2.27	-2.27	-8.92	-9.74	-10.79	-11.89	-12.92	-14.04
14	PDCENG	-1.59	-4.72	-6.42	-7.52	-7.52	-7.52	-7.52	-7.52	-7.52	-15.41	-17.57	-19.53	-21.43	-23.40	-25.29
15	PDCESH	2.37	5.00	8.91	11.04	11.04	11.04	11.04	11.04	11.04	15.41	17.57	19.53	21.43	23.40	25.29
16	PDCESU	-0.24	-1.52	-1.52	-4.99	-4.99	-4.99	-4.99	-4.99	-4.99	-1.92	-1.16	-1.20	-1.31	-1.34	-1.47
17	PDCESU	2.71	3.34	3.24	3.24	3.24	3.24	3.24	3.24	3.24	6.95	7.95	8.86	9.73	10.71	11.92
18	PDCESU	0.72	-0.28	-0.50	-0.37	-0.37	-0.37	-0.37	-0.37	-0.37	0.05	0.24	0.20	0.10	0.07	-0.06
19	PDCVPS	0.10	-0.73	-0.76	-0.88	-0.88	-0.88	-0.88	-0.88	-0.88	-0.47	-0.29	-0.34	-0.43	-0.45	-0.57
20	PDCVPS	0.52	0.22	-0.35	-2.23	-2.23	-2.23	-2.23	-2.23	-2.23	-5.82	-7.63	-9.68	-11.77	-13.79	-15.56
21	PDCVPS	-0.49	-0.78	-0.35	-2.00	-2.00	-2.00	-2.00	-2.00	-2.00	-1.57	-1.38	-1.42	-1.53	-1.55	-1.32
22	PDCVPS	7.25	15.16	23.00	28.14	28.14	28.14	28.14	28.14	28.14	38.66	43.90	48.84	53.71	58.68	63.53
23	PDCVPS	6.83	6.57	5.53	3.35	3.35	3.35	3.35	3.35	3.35	3.34	3.34	3.34	3.34	3.34	3.35
24	PDCVPS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	PDCVPS	3.07	2.84	2.60	2.30	2.30	2.30	2.30	2.30	2.30	1.30	0.80	0.30	-0.20	-0.70	-1.20
26	PDCVPS	-0.04	-0.02	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
27	PDCVPS	-2.60	-18.17	-26.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04	-28.04
28	PDCVPS	-26.53	-15.66	-8.03	-7.88	-7.88	-7.88	-7.88	-7.88	-7.88	-7.23	-6.92	-6.98	-7.13	-7.16	-7.35
29	PDCVPS	-0.50	-13.94	-20.81	-20.71	-20.71	-20.71	-20.71	-20.71	-20.71	-20.42	-20.08	-20.12	-20.22	-20.22	-20.49
30	PDCVPS	2.48	9.30	13.24	11.37	11.37	11.37	11.37	11.37	11.37	7.91	6.15	4.08	1.96	-0.08	-2.24
31	PDCVPS	-11.43	-11.43	-16.62	-15.77	-15.77	-15.77	-15.77	-15.77	-15.77	-14.97	-14.63	-14.71	-14.90	-14.95	-15.23
32	PDCVPS	-0.1099	-0.2053	-0.3336	-0.5024	-0.5024	-0.5024	-0.5024	-0.5024	-0.5024	-1.2429	-1.6918	-2.2328	-2.7476	-3.3226	-3.9809
33	PDCVPS	-1.3554	-1.8582	-2.3394	-2.8193	-2.8193	-2.8193	-2.8193	-2.8193	-2.8193	-3.7794	-4.2594	-4.7394	-5.2195	-5.6524	-6.0783
34	PDCVPS	0.1519	0.4455	0.1712	0.0841	0.0841	0.0841	0.0841	0.0841	0.0841	-0.2675	-0.4428	-0.6536	-0.9228	-1.1808	-1.4842
35	PDCVPS	0.23	0.17	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18
36	PDCVPS	-0.13	-0.14	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42	-0.42
37	PDCVPS	0.49	0.49	-0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	PDCVPS	-1.57	3.63	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
39	PDCVPS	0.41	0.01	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
40	PDCVPS	2.38	3.70	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	PDCVPS	-0.30	2.56	1.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	PDCVPS	1.46	0.68	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	PDCVPS	-2.471	-53.21	-63.25	-90.10	-90.10	-90.10	-90.10	-90.10	-90.10	-129.33	-145.94	-161.56	-175.50	-192.97	-213.33
44	PDCVPS	-0.64	-5.69	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39	-6.39
45	PDCVPS	-19.84	-58.64	-56.28	-79.76	-79.76	-79.76	-79.76	-79.76	-79.76	-155.74	-167.44	-198.69	-229.19	-262.22	-302.25
46	PDCVPS	-0.55	-7.24	-9.55	-11.53	-11.53	-11.53	-11.53	-11.53	-11.53	-13.53	-14.53	-15.53	-16.53	-17.53	-18.53
47	PDCVPS	-10.72	-20.22	-26.25	-34.25	-34.25	-34.25	-34.25	-34.25	-34.25	-40.25	-45.25	-50.25	-55.25	-60.25	-65.25
48	PDCVPS	16.42	10.07	19.10	14.11	14.11	14.11	14.11	14.11	14.11	18.11	14.11	14.11	14.11	14.11	14.11
49	PDCVPS	21.54	20.71	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58	16.58
50	PDCVPS	-5.90	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
51	PDCVPS	12.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

A REPORT ON THE 1974-1975-1976-1977-1978-1979-1980-1981-1982-1983-1984-1985-1986-1987-1988-1989-1990-1991-1992-1993-1994-1995-1996-1997-1998-1999-2000-2001-2002-2003-2004-2005-2006-2007-2008-2009-2010-2011-2012-2013-2014-2015-2016-2017-2018-2019-2020-2021-2022-2023-2024-2025-2026-2027-2028-2029-2030-2031-2032-2033-2034-2035-2036-2037-2038-2039-2040-2041-2042-2043-2044-2045-2046-2047-2048-2049-2050-2051-2052-2053-2054-2055-2056-2057-2058-2059-2060-2061-2062-2063-2064-2065-2066-2067-2068-2069-2070-2071-2072-2073-2074-2075-2076-2077-2078-2079-2080-2081-2082-2083-2084-2085-2086-2087-2088-2089-2090-2091-2092-2093-2094-2095-2096-2097-2098-2099-2100-2101-2102-2103-2104-2105-2106-2107-2108-2109-2110-2111-2112-2113-2114-2115-2116-2117-2118-2119-2120-2121-2122-2123-2124-2125-2126-2127-2128-2129-2130-2131-2132-2133-2134-2135-2136-2137-2138-2139-2140-2141-2142-2143-2144-2145-2146-2147-2148-2149-2150-2151-2152-2153-2154-2155-2156-2157-2158-2159-2160-2161-2162-2163-2164-2165-2166-2167-2168-2169-2170-2171-2172-2173-2174-2175-2176-2177-2178-2179-2180-2181-2182-2183-2184-2185-2186-2187-2188-2189-2190-2191-2192-2193-2194-2195-2196-2197-2198-2199-2200-2201-2202-2203-2204-2205-2206-2207-2208-2209-2210-2211-2212-2213-2214-2215-2216-2217-2218-2219-2220-2221-2222-2223-2224-2225-2226-2227-2228-2229-2230-2231-2232-2233-2234-2235-2236-2237-2238-2239-2240-2241-2242-2243-2244-2245-2246-2247-2248-2249-2250-2251-2252-2253-2254-2255-2256-2257-2258-2259-2260-2261-2262-2263-2264-2265-2266-2267-2268-2269-2270-2271-2272-2273-2274-2275-2276-2277-2278-2279-2280-2281-2282-2283-2284-2285-2286-2287-2288-2289-2290-2291-2292-2293-2294-2295-2296-2297-2298-2299-2300-2301-2302-2303-2304-2305-2306-2307-2308-2309-2310-2311-2312-2313-2314-2315-2316-2317-2318-2319-2320-2321-2322-2323-2324-2325-2326-2327-2328-2329-2330-2331-2332-2333-2334-2335-2336-2337-2338-2339-2340-2341-2342-2343-2344-2345-2346-2347-2348-2349-2350-2351-2352-2353-2354-2355-2356-2357-2358-2359-2360-2361-2362-2363-2364-2365-2366-2367-2368-2369-2370-2371-2372-2373-2374-2375-2376-2377-2378-2379-2380-2381-2382-2383-2384-2385-2386-2387-2388-2389-2390-2391-2392-2393-2394-2395-2396-2397-2398-2399-2400-2401-2402-2403-2404-2405-2406-2407-2408-2409-2410-2411-2412-2413-2414-2415-2416-2417-2418-2419-2420-2421-2422-2423-2424-2425-2426-2427-2428-2429-2430-2431-2432-2433-2434-2435-2436-2437-2438-2439-2440-2441-2442-2443-2444-2445-2446-2447-2448-2449-2450-2451-2452-2453-2454-2455-2456-2457-2458-2459-2460-2461-2462-2463-2464-2465-2466-2467-2468-2469-2470-2471-2472-2473-2474-2475-2476-2477-2478-2479-2480-2481-2482-2483-2484-2485-2486-2487-2488-2489-2490-2491-2492-2493-2494-2495-2496-2497-2498-2499-2500-2501-2502-2503-2504-2505-2506-2507-2508-2509-2510-2511-2512-2513-2514-2515-2516-2517-2518-2519-2520-2521-2522-2523-2524-2525-2526-2527-2528-2529-2530-2531-2532-2533-2534-2535-2536-2537-2538-2539-2540-2541-2542-2543-2544-2545-2546-2547-2548-2549-2550-2551-2552-2553-2554-2555-2556-2557-2558-2559-2560-2561-2562-2563-2564-2565-2566-2567-2568-2569-2570-2571-2572-2573-2574-2575-2576-2577-2578-2579-2580-2581-2582-2583-2584-2585-2586-2587-2588-2589-2590-2591-2592-2593-2594-2595-2596-2597-2598-2599-2600-2601-2602-2603-2604-2605-2606-2607-2608-2609-2610-2611-2612-2613-2614-2615-2616-2617-2618-2619-2620-2621-2622-2623-2624-2625-2626-2627-2628-2629-2630-2631-2632-2633-2634-2635-2636-2637-2638-2639-2640-2641-2642-2643-2644-2645-2646-2647-2648-2649-2650-2651-2652-2653-2654-2655-2656-2657-2658-2659-2660-2661-2662-2663-2664-2665-2666-2667-2668-2669-2670-2671-2672-2673-2674-2675-2676-2677-2678-2679-2680-2681-2682-2683-2684-2685-2686-2687-2688-2689-2690-2691-2692-2693-2694-2695-2696-2697-2698-2699-2700-2701-2702-2703-2704-2705-2706-2707-2708-2709-2710-2711-2712-2713-2714-2715-2716-2717-2718-2719-2720-2721-2722-2723-2724-2725-

TABLE FOR ANNUAL AND INDUSTRY FORECASTING MODEL
1964% PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

LINE	VAR LABEL	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	PXVGF035	8.06	7.66	7.03	10.03	11.03	12.03	13.03	14.03	15.03	16.03	17.03	18.03	19.03	20.03	21.03
2	PXVGF036	13.91	15.03	16.77	21.77	24.77	27.77	30.77	33.77	36.77	39.77	42.77	45.77	48.77	51.77	54.77
3	PXVGF037SP1	11.06	11.74	14.43	16.22	17.70	19.36	21.11	22.80	24.56	26.28	28.04	29.81	31.58	33.35	35.12
4	PXVGF037SP2	9.51	9.92	12.61	14.61	16.61	18.61	20.61	22.61	24.61	26.61	28.61	30.61	32.61	34.61	36.61
5	PXVGF0371	11.64	14.21	17.42	19.92	22.42	24.92	27.42	29.92	32.42	34.92	37.42	39.92	42.42	44.92	47.42
6	PXVGF038	-0.34	-11.74	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39	-13.39
7	PXVGF039	2.43	4.51	7.50	10.53	14.55	18.58	23.61	27.77	32.22	36.65	41.09	45.52	49.95	54.38	58.81
8	PXVGF040	-1.54	-1.44	-3.49	-3.44	-3.48	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44	-3.44
9	PXVGF041	7.05	14.67	18.19	22.19	26.19	30.19	34.19	38.19	42.19	46.19	50.19	54.19	58.19	62.19	66.19
10	PXVGF042	9.65	11.52	14.10	16.09	18.09	20.09	22.09	24.09	26.09	28.09	30.09	32.09	34.09	36.09	38.09
11	PXVGF043	5.00	3.70	1.99	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
12	PXVGF046	20.30	19.43	24.14	26.14	28.14	30.14	32.14	34.14	36.14	38.14	40.14	42.14	44.14	46.14	48.14
13	PXVGF047	10.42	9.04	1.04	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
14	PXVGF048	4.64	10.90	11.06	13.06	15.06	17.06	19.06	21.06	23.06	25.06	27.06	29.06	31.06	33.06	35.06
15	PXVGF049	1.33	0.73	-3.76	-4.76	-5.76	-6.76	-7.76	-8.76	-9.76	-10.76	-11.76	-12.76	-13.76	-14.76	-15.76
16	PXVGF051	2.09	-0.37	-5.52	-7.53	-9.53	-11.53	-13.53	-15.53	-17.53	-19.53	-21.53	-23.53	-25.53	-27.53	-29.53
17	PXVGF052	-1.04	-2.42	-2.10	-2.70	-3.30	-3.90	-4.50	-5.10	-5.70	-6.30	-6.90	-7.50	-8.10	-8.70	-9.30
18	PXVGF053	-1.27	-4.24	-7.18	-10.18	-13.18	-16.18	-19.18	-22.18	-25.18	-28.18	-31.18	-34.18	-37.18	-40.18	-43.18
19	PXVGF054	11.25	15.26	22.88	31.84	40.84	49.84	58.84	67.84	76.84	85.84	94.84	103.84	112.84	121.84	130.84
20	PXVGF055	2.58	0.44	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24	0.24
21	PXVGF056	1.02	1.82	2.08	2.24	3.64	5.71	7.46	9.34	11.09	12.71	14.28	15.81	17.34	18.87	20.40
22	PXVGF057	37.03	38.81	35.55	39.66	43.23	47.12	51.36	55.94	60.02	64.51	69.50	74.90	79.90	84.90	89.90
23	PXVGF058	24.72	24.11	77.90	110.90	143.90	175.90	201.90	223.90	245.90	266.90	287.90	308.90	329.90	350.90	371.90
24	PXVGF059	0.0005	-0.0017	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053	-0.0053
25	PXVGF060	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
26	PXVGF061	0.102	0.111	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114	0.114
27	PXVGF062	-15.10	-4.46	9.23	9.28	12.58	15.18	16.78	19.48	22.00	25.24	28.97	33.71	37.71	41.11	44.11
28	PXVGF063	0.49	0.76	0.91	1.31	1.71	2.11	2.51	2.91	3.31	3.71	4.11	4.51	4.91	5.31	5.71
29	PXVGF064	-0.09	-0.25	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
30	PXVGF065	0.91	1.52	1.44	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
31	PXVGF066	9.19	6.00	-0.69	-12.34	-27.70	-43.39	-63.19	-79.60	-92.14	-101.72	-111.55	-121.55	-131.55	-141.55	-151.55
32	PXVGF067	1.11	-0.10	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40	-2.40
33	PXVGF068	0.93	15.33	19.03	25.70	31.49	35.45	46.56	59.15	72.96	86.03	98.67	110.72	121.72	131.72	141.72
34	PXVGF069	-2.51	-10.29	-13.47	-14.47	-15.47	-16.47	-17.47	-18.47	-19.47	-20.47	-21.47	-22.47	-23.47	-24.47	-25.47
35	PXVGF070	0.61	1.00	2.42	2.92	3.42	3.92	4.42	4.92	5.42	5.92	6.42	6.92	7.42	7.92	8.42
36	PXVGF071	0.51	0.81	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86	0.86
37	PXVGF072	-0.05	-0.20	0.23	0.13	0.03	-0.07	-0.17	-0.27	-0.37	-0.47	-0.57	-0.67	-0.77	-0.87	-0.97
38	PXVGF073	-0.05	-0.02	-3.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44	-5.44
39	PXVGF074	0.27	-1.06	-1.61	-1.60	-1.00	-0.61	-0.51	-0.51	-0.51	-0.51	-0.51	-0.51	-0.51	-0.51	-0.51
40	PXVGF075	8.01	6.50	2.95	-0.44	-3.20	-6.63	-10.32	-16.53	-24.50	-31.01	-39.05	-48.14	-56.14	-64.14	-72.14
41	PXVGF076	-2.21	-3.17	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14	-4.14
42	PXVGF077	-3.97	-5.57	-7.33	-11.42	-12.42	-13.03	-13.63	-14.43	-15.22	-16.02	-16.82	-17.62	-18.42	-19.22	-20.02
43	PXVGF078	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
44	PXVGF079	-18.34	-20.45	-33.91	-40.55	-48.49	-57.99	-69.36	-82.95	-98.21	-113.66	-129.00	-144.34	-159.68	-175.02	-190.36
45	PXVGF080	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
46	PXVGF081	1.46	-0.94	-2.74	-1.20	-0.80	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40
47	PXVGF082	-0.42	-0.47	-1.42	-2.02	-2.62	-3.22	-3.82	-4.42	-5.02	-5.62	-6.22	-6.82	-7.42	-8.02	-8.62
48	PXVGF083	-8.91	-5.14	-13.13	-23.06	-34.35	-43.93	-51.78	-59.63	-67.48	-75.33	-83.18	-91.03	-98.88	-106.73	-114.58
49	PXVGF084	-0.00	0.00	0.00	-1.40	-3.00	-4.60	-6.20	-7.80	-9.40	-11.00	-12.60	-14.20	-15.80	-17.40	-19.00
50	PXVGF085	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
51	PXVGF086	-0.24	-5.00	-12.73	-13.73	-14.03	-15.03	-16.03	-17.03	-18.03	-19.03	-20.03	-21.03	-22.03	-23.03	-24.03

A PRODUCT OF THE BUREAU OF ECONOMIC ANALYSIS, U.S. DEPARTMENT OF COMMERCE. BOTTEN PRODUCTION MUST BE OBTAINED FOR SECONDARY DISTRIBUTION.

NATIONAL ANNUAL AND INDUSTRY FORECASTING MODEL
HIGHER PRODUCTIVITY ALTERNATIVE - DECEMBER 9, 1978

LINE	VAR LABEL	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
1	TRC3315	4.55	5.40	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89	5.89
2	TRUPDVIHRS	0.18	-0.53	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85	-0.85
3	TRUPFEN	0.720	7.953	0.814	3.814	2.814	1.814	0.814	-0.186	-1.186	-2.186	-3.186
4	TRUPFRI	-1.943	-1.741	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480	-0.480
5	TRUPFY1	-0.0108	-0.0165	-0.0126	-0.0058	0.0003	0.0050	0.0082	0.0091	0.0095	0.0095	0.0094
6	TRUPFY2	-0.0042	-0.0105	-0.0077	-0.0022	0.0030	0.0070	0.0097	0.0102	0.0104	0.0102	0.0099
7	TRUPFY3	0.0075	-0.0004	-0.0002	-0.0004	0.0035	0.0078	0.0087	0.0083	0.0076	0.0067	0.0056
8	TRUPFY4	0.0004	0.0002	0.0008	0.0030	0.0055	0.0067	0.0092	0.0082	0.0073	0.0063	0.0056
9	TRUPFY5	-0.0532	-0.0830	-0.1050	-0.1395	-0.1632	-0.1994	-0.2317	-0.2712	-0.3069	-0.3401	-0.3715
10	TRUPFY6	-0.1338	-0.1478	-0.1657	-0.2719	-0.3557	-0.4367	-0.5092	-0.5721	-0.6199	-0.6551	-0.6800
11	TRUPFY7	-0.0043	-0.0072	-0.1335	-0.2101	-0.3007	-0.3978	-0.4909	-0.5648	-0.6308	-0.6752	-0.7067
12	TRUPFY8	-0.0787	-0.0038	-0.1049	-0.1367	-0.1814	-0.2308	-0.2836	-0.3393	-0.3901	-0.4358	-0.4781
13	TRC6VG	-2.13	-3.18	-1.65	-2.27	-2.86	-3.45	-4.05	-4.65	-5.25	-5.85	-6.44
14	TRCAGS	0.359	9.050	0.561	0.562	7.920	6.640	4.720	2.159	-1.042	-4.879	-9.358
15	TRCAGS	-0.600	-4.767	-7.785	-6.656	-7.063	-6.900	-6.494	-5.452	-4.523	-2.821	-0.912
16	TRCAGVS	-30.202	-50.771	-69.608	-91.582	-116.049	-142.759	-171.018	-201.398	-232.532	-265.390	-300.354
17	TRCAGVS	-0.831	-0.260	-0.008	-0.027	-0.027	-0.028	-0.028	-0.027	-0.028	-0.027	-0.027
18	TRCAGVS	-0.200	-0.066	0.007	0.117	0.130	0.143	0.156	0.169	0.182	0.195	0.245
19	TRCAGVS	-0.007	-0.014	-0.017	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027	-0.027
20	TRCAGVS	-0.047	-0.017	-0.046	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059	-0.059
21	TRCAGVS	0.009	0.172	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131	0.131
22	TRCAGVS	-0.156	-0.088	-0.035	-0.085	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086	-0.086
23	TRCAGVS	0.268	0.049	0.031	0.081	0.081	0.081	0.081	0.081	0.081	0.081	0.081
24	TRCAGVS	-0.207	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
25	TRCAGVS	-0.024	0.008	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
26	TRCAGVS	-1.012	-0.976	-1.073	-1.173	-1.173	-1.173	-1.173	-1.173	-1.173	-1.173	-1.173
27	TRCAGVS	0.083	0.149	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215	0.215
28	TRCAGVS	0.279	0.061	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
29	TRCAGVS	0.249	0.123	0.027	0.047	0.047	0.047	0.047	0.047	0.047	0.047	0.047
30	TRCAGVS	-0.109	-0.009	-0.070	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090	-0.090
31	TRCAGVS	-0.135	-0.137	-0.126	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133	-0.133
32	TRCAGVS	-0.316	-0.209	-0.324	-0.390	-0.390	-0.390	-0.390	-0.390	-0.390	-0.390	-0.390
33	TRCAGVS	0.137	0.155	0.096	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
34	TRCAGVS	-0.043	0.174	0.080	0.040	0.100	0.110	0.120	0.130	0.140	0.150	0.160
35	TRCAGVS	0.300	0.358	0.328	0.387	0.407	0.427	0.447	0.467	0.487	0.507	0.527
36	TRCAGVS	-0.350	0.036	0.020	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
37	TRCAGVS	0.003	0.116	0.006	0.097	0.097	0.097	0.097	0.097	0.097	0.097	0.097
38	TRCAGVS	0.345	0.142	0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148	-0.148
39	TRCAGVS	-12.438	-8.155	-12.760	-13.670	-14.570	-15.470	-16.370	-17.270	-18.170	-19.070	-20.070
40	TRCAGVS	2.052	-7.750	-2.308	-3.543	-2.705	-2.025	-1.265	-0.504	0.254	1.016	1.778
41	TRCAGVS	-0.703	-0.705	-0.256	-0.436	-0.616	-0.796	-0.976	-1.156	-1.336	-1.516	-1.696
42	TRCAGVS	-0.33	-0.66	-0.79	-0.24	-0.69	-1.14	-1.59	-2.04	-2.49	-2.94	-3.39
43	TRCAGVS	0.31	0.07	-0.00	0.89	1.70	2.55	3.40	4.25	5.10	5.95	6.80
44	TRCAGVS	-0.50	0.02	0.74	1.24	1.75	2.25	2.75	3.25	3.75	4.25	4.75
45	TRCAGVS	1.03	0.04	0.22	1.01	1.22	1.42	1.63	1.83	2.03	2.23	2.44
46	TRCAGVS	-0.09	-0.00	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22	-1.22
47	TRCAGVS	-0.32	-0.70	-1.00	-0.00	-0.50	-0.20	0.11	0.41	0.71	1.01	1.31
48	TRCAGVS	0.02	0.02	1.00	1.50	1.74	1.94	2.14	2.34	2.54	2.74	2.94
49	TRCAGVS	-0.07	0.07	0.20	0.26	0.26	0.26	0.26	0.26	0.26	0.26	0.26
50	TRCAGVS	1.14	0.00	1.36	1.01	1.47	1.53	1.59	1.65	1.71	1.77	1.84
51	TRCAGVS	1.17	1.72	2.39	2.69	2.94	3.24	3.54	3.84	4.14	4.44	4.74

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QUARTERLY ANNUAL AND INDUSTRY FORECASTING MODEL
 1974 PRODUCTIVITY ALTERNATIVE - DECEMBER 6, 1974

LINE	VAR LABEL	TABLE 45.40 CONSTANT ADJUSTMENTS												1984	1985	1986	1987	1988
		1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990					
1	XVGF034	0.34	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
2	XVGF035	0.43	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63	2.63
3	XVGF036	0.70	1.11	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
4	XVGF037	-0.04	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
5	XVGF038	1.34	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
6	XVGF039	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01	-0.01
7	XVGF040	-0.20	-0.17	-0.12	-0.07	-0.02	0.03	0.08	0.13	0.18	0.23	0.28	0.33	0.38	0.43	0.48	0.53	0.58
8	XVGF041	1.04	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64	1.64
9	XVGF042	-0.12	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33	-0.33
10	XVGF043	-0.48	-1.13	-1.23	-1.34	-1.44	-1.54	-1.64	-1.74	-1.84	-1.94	-2.04	-2.14	-2.24	-2.34	-2.44	-2.54	-2.64
11	XVGF044	0.22	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26	-0.26
12	XVGF045	0.05	0.34	0.45	0.55	0.65	0.75	0.85	0.95	1.05	1.15	1.25	1.35	1.45	1.55	1.65	1.75	1.85
13	XVGF046	0.42	1.02	1.02	2.02	2.22	2.42	2.62	2.82	3.02	3.22	3.42	3.62	3.82	4.02	4.22	4.42	4.62
14	XVGF047	0.22	0.12	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
15	XVGF048	-0.28	-0.14	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05	-0.05
16	XVGF049	-0.32	-0.19	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07	-0.07
17	XVGF050	-0.03	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04	-0.04
18	XVGF051	0.05	0.14	0.18	0.27	0.36	0.45	0.54	0.63	0.72	0.81	0.90	0.99	1.08	1.17	1.26	1.35	1.44
19	XVGF052	0.19	0.69	0.94	1.17	1.41	1.65	1.89	2.13	2.37	2.61	2.85	3.09	3.33	3.57	3.81	4.05	4.29
20	XVGF053	3.21	5.34	6.27	7.19	8.11	9.03	9.95	10.87	11.79	12.71	13.63	14.55	15.47	16.39	17.31	18.23	19.15
21	XVGF054	0.33	0.94	0.90	1.01	1.12	1.23	1.34	1.45	1.56	1.67	1.78	1.89	2.00	2.11	2.22	2.33	2.44
22	XVGF055	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	XVGF056	-0.03	-0.17	-0.19	-0.22	-0.24	-0.26	-0.29	-0.31	-0.34	-0.36	-0.39	-0.41	-0.43	-0.45	-0.47	-0.49	-0.51
24	XVGF057	0.03	-1.34	0.08	-3.00	-3.98	-5.55	-6.73	-7.63	-8.39	-9.08	-9.71	-10.29	-10.82	-11.31	-11.79	-12.27	-12.75
25	XVGF058	-0.57	-0.61	-0.53	-0.33	-0.23	-0.13	-0.03	0.07	0.17	0.27	0.37	0.47	0.57	0.67	0.77	0.87	0.97
26	XVGF059	-0.50	-0.56	-0.61	-0.55	-0.49	-0.43	-0.37	-0.31	-0.25	-0.19	-0.13	-0.07	-0.01	0.05	0.11	0.17	0.23
27	XVGF060	0.00	-0.27	-0.81	-1.09	-1.37	-1.65	-1.93	-2.21	-2.49	-2.77	-3.05	-3.33	-3.61	-3.89	-4.17	-4.45	-4.73
28	XVGF061	0.04	-0.10	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24	-0.24
29	XVGF062	-0.47	-1.27	-1.30	-1.33	-1.36	-1.39	-1.42	-1.45	-1.48	-1.51	-1.54	-1.57	-1.60	-1.63	-1.66	-1.69	-1.72
30	XVGF063	-0.12	-0.18	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27	-0.27
31	XVGF064	0.06	0.04	0.09	0.17	0.21	0.25	0.29	0.33	0.37	0.41	0.45	0.49	0.53	0.57	0.61	0.65	0.69
32	XVGF065	1.34	1.50	1.58	1.64	1.69	1.74	1.79	1.84	1.89	1.94	1.99	2.04	2.09	2.14	2.19	2.24	2.29
33	XVGF066	-0.54	-2.21	-2.29	-3.30	-3.79	-4.29	-4.79	-5.29	-5.79	-6.29	-6.79	-7.29	-7.79	-8.29	-8.79	-9.29	-9.79
34	XVGF067	1.33	-5.04	-7.63	-7.03	-7.22	-7.02	-6.82	-6.62	-6.41	-6.21	-6.01	-5.81	-5.61	-5.41	-5.21	-5.01	-4.81
35	XVGF068	2.15	2.60	0.43	2.24	3.00	3.72	4.45	5.17	5.89	6.61	7.33	8.05	8.77	9.49	10.21	10.93	11.65
36	XVGF069	-3.50	-0.34	-0.97	-0.72	-0.60	-0.48	-0.36	-0.24	-0.12	-0.01	0.11	0.23	0.35	0.47	0.59	0.71	0.83
37	XVGF070	0.72	1.43	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75	1.75
38	XVGF071	10.04	13.54	13.67	19.17	30.17	35.67	41.17	46.67	52.17	57.67	63.17	68.67	74.17	79.67	85.17	90.67	96.17
39	XVGF072	0.74	2.905	3.306	3.950	4.313	4.516	4.742	4.863	4.863	4.863	4.863	4.863	4.863	4.863	4.863	4.863	4.863

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