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Volume Title: Explorations in Economic Research, Volume 3, number 3
Volume Author/Editor: NBER

Volume Publisher: NBER

Volume URL: http://www.nber.org/books/sarg76-1
Publication Date: 1976

Chapter Title: ASA/NBER Business Outlook Survey: Second Quarter 1976
Chapter Author: ASA/NBER

Chapter URL: http://www.nber.org/chapters/c9487
Chapter pages in book: (p. 433-443)

# ASA/NBER Business Outlook Survey: Second Quarter 1976 


#### Abstract

The following summary based on a quarterly survey, which is conducted jointly by the American Statistical Association and the National Bureau of Economic Research, is not a formal research report. These quarterly summaries will be published in each isues of Explorations in Economic Research for informationa! purposes only and therefore have been exempled from the rules governing submission to, and critical review by, the Board of Directors of the National Bureatu of Economic Research.


Forecasts of the economy's growth in 1976 now average 6.4 percent in terms of the rise in real GNP from 1975, and corresponding forecasts of the rate of inflation (increase in the GNP price index) average 5.5 percent. Three months ago, comparable figures predicted that real output and prices would grow by 6.1 and 6.0 percent, respectively. The somewhat higher real growth rates and somewhat lower inflation rates being predicted illustrate a continuation of the improvement in economic oullook. The forecasts of GNP in current dollars remain virtually unchanged.

This report is based on the medians of detailed numerical forecasts submitted in late May 1976 by 48 participants in the most recent American Statistical Association survey. The ASA surveys have been conducted quarterly since 1968, and the respondents include many leading business, academic, and government economists who are professionally engaged in forecasting. Data from the surveys are analyzed for the ASA by the National Bureau of Economic Research, an independent nonprofit research
institution whose basic studies include analyses of business cyeles and evaluations of economic foreasts. Dr. Charlote Boschan of the NBER and Professor Victor Zarnowitz of the Craduate School of Business of the University of Chicago and NBER jointly direct the analysis of these quarterly surveys.

## FROM RECOVERY TO FULL EXPANSION

In the current quarter (April-fune 1976), real GNP is estimated at an annual rate of $\$ 1.253$ bilion, which is up 1.2 percent from the previous quarter and nearly 1 percent from the last peak level in Q 441973 . This means that the recovery phase of the expansion-the process of regaining the ground lost in the past recession-has been completed in overall terms. This involved a rise of about 7 percent in the output of goods and services: from the QI 1975 trough level. Any further gain in that output (measured by real GNP) will represent net expansion, and the forecasters expect that such growth will amount to some 5.3 percent by the second guarter of 1977 when GNP in 1972 dollars is projected to reach $\$ i, 320$ billion.

The index of industrial production, which covers manufacturing, mining, and utilities, is estimated to have risen 15 percent from its trough a year ago to a value of $123(1967=100)$ in the current quarter. This still leaves the index about 3 percent below its last peak level in Q4 1973. It will be only in Q4 1976 that industrial production will move beyond that level to 129). The value of the production index in Q2 1977 is projected to be 133, 20.6 percent above the trough of Q2 1975 and 4.7 percent above the Q4 1973 peak. Thus, the sector covered by the index, which as usual has been hit harder by recession than the rest of the economy (mainly senvices), will take ionger to recover, despite a taster rate of achance.

## SMALL DOWNWARD REVISIONS IN UNEMPLOYMENT FORECASTS

The unemployment rate (percent of labor force) will decline steadily, if slowly, from 7.4 in the current quarter to 6.7 a year from now-by about 0.2 of one percent per quarter. These figures are lower than the corresponding median predictions of March 1976, with the differences varying between 0.3 and 0.4 of one percentage point, but the projected pace of the clecline in unemployment is about the same in this ASA/NBER survey as in the last. That pace remains relatively slow and, accordingly, the anticipated levels of unemployment remain relatively high. Compare the median
forecast of 6.7 percent unemplovment rate in (Q2 1977 with the 47 percent rate recorded at the past business cycle peak in Q4 1973.)

## INFLATION TO CONTINUE AT STEADY MODERATE RATE

The GNP implicit price deflator will rise by about 1.4 percent per quarter through 1976 and the first half of 1977 . This is very close to the average rate of 1.48 percent recorded for the five quarters ending in Q1 1976. It appears, then, that the forecasters do not anticipate any major speedup in inflation, but also that they discount the recent slowdown (to 0.9 percent in Q1 1976) as a transitory improvement that cannot be exirapolated. Between the second quarters of 1976 and 1977, the price index is expected to rise from $132.3(1972=100)$ to 140 , an annual rate of 5.8 percent. This median forecast must be regarded as relatively optimistic, since many have worried that expansion might be accompanied by renewed inflationary pressures in the near future.

## THE IMPROVING OUTLOOK FOR BUSINESS INVESTMENT

Business expenditures for plant and equipment should expand from $\$ 120.7$ billion to $\$ 137.8$ billion, or 14.2 percent, in the year ending in Q2 1977. This would mean a rise of 8.4 percent in real terms if prices of capital goods increase no more than the GNP price index is expected to increase during the same period. The forecasts imply that business capital spending will accelerate, the gain between 1975 and 1976 being only 9 percent (from $\$ 112.8$ billion to $\$ 123$ billion).

While the March survey's median forecasts for the first quarter of 1976 were on the whole quite accurate, particularly for total CNP, they strongly underestimated business inventory investment. The rise from a slightly negative figure in Q4 1975 to $\$ 14$ billion (annual rate) in Q1 1976 surprised forecasters who predicted a shift to positive investment that was only one-lifth of the actual figure. Consequently, the predictions of change in business inventories were sharply raised in the latest survey; for instance, the figure for the year 1976 as a whole was approximately doubled (from $\$ 7.2$ billion to $\$ 14.1$ billion). However, additions to business inventories are, on the average, expected to remain fairly stable, at annual rates of $\$ 14$ billion to $\$ 16$ billion in each quarter covered, although
some respondents anticipate much higher rates of inventory acrumulation and others somewhat lower rates.

Corporate profits after taxes are predicted to reach $\$ 91.3$ billion in 1976. up 28.3 percent from their 1975 kevel, and $\$ 103.7$ billion (annual rate) in Q2 1977, up 16 percent from Q2 1976. The outlook for profits can be described as persistently optimistic; it appears to have changed very little in recent months.

## SUBSTANTIAL RECOVERY IN HOUSING, GROWTH IN CONSUMER DURABLES

New private housing starts, measured at annual rates, are expected to rise from 1.5 million in Q2 1976 to 1.76 million in (Q2 1977, or 17.3 percent. This would still leave starts below their 1971-1973 record levels of more than 2 million units, but it would carry them to levels higher than those recorded at any other time during the post-World War II period. The rate of growth in residential construction implied by these forecasts is lower than the rate attained in the early recovery of 1975. (The increase in housing starts over the calendar year is predicted to be as high as 32.9 percent.) But it is clear that the early recovery rates based on very low initial levels of building activity could not be maintained for long, and that the growth in housing presently forecast is high by comparison with the overall real growth projected for the econonly at large.

Consumer expenditures for durable goods will rise 13.9 percent-_iron $\$ 15$ ! billion to $\$ 172$ billion-between the current quarter and Q2 1977. This, too, spells some slackening of growth since the 1975-1976 gain in this area is assessed at 20.3 percent. But the median forecasts here go well beyond the recovery phase and imply substantial net expansion in real terms, at an annual rate of possibly 8 percent.

## MOST OF THE INDIVIDUAL FORECASTS falriy similar

The dispersion of the reported forecasts continues to be relatively small, making the median figures appear bairly representative of the current consensus. For example, the first and third quartiles of real GNP forecasts for Q2 1976 are $\$ 1,250$ billion and $\$ 1,25$, billion, respectively, and the corresponding figures for Q2 1977 are $\$ 1,311$ billion and $\$ 1,330$ billion. (The quartiles bracket the central half of the predictions, leaving out the
extreme top and bottom quarters.) For the GNP price deflator, the quartile forecasts for Q2 1977 are 139.4 and $141.0(1972=100)$; for the unemployment rate they are 6.4 and 6.9 percent. The dispersion of the forecasts typically increases with the predictive span, so the predictions for the earlier quarters are clustered more closely around the averages. There are a few variables, however, for which the individual predictions vary considerably. This is the case for change in business inventories, where the quartiles for Q2 1977 are $\$ 11.9$ billion and $\$ 22.0$ billion at an annual rate.

## PROBABILITIES AND ASSUMPTIONS

Forecasters' confidence in the durability of the expansion has grown; they see little likelihood of another recession starting any time soon. The distributions of their assessments of the probability that real GNP will decline have means increasing from 1.8 to 12.8 percent over the period Q2 1976-Q2 1977. Most of the survey participants (34) assume that the increase in the money supply during the period covered by their forecasts will be "on target"; only a few assume deviations, most of those in the direction of "more restrictive" monetary policy. Other common assumptions are that the tax cuts will be extended at least through 1976, and that there will be no severe energy or other international crises, major strikes, or imposition of new incomes policies or price and wage controls.
TABLE 1 Projections of GNP and Other Economic Indicators, 1976-1977 Q2

| - Indicator | Number of Forecasters | $\begin{gathered} \text { Actual } \\ 1976 \\ \text { Q1 } \end{gathered}$ | Q2 | $1976$ <br> Q3 | $\begin{aligned} & \text { Forecast } \\ & \text { Q4 } \end{aligned}$ | Q1 | Q2 | $\begin{aligned} & \text { Actual } \\ & 1975 \end{aligned}$ | nual $\qquad$ Forecast 1976 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Gross national product (\$bil.) <br> 2. GNP implicit price deflator $(1972=100)$ | 48 | 1616.3 | 1659 | 1707 | 17.57 | 1806 | 1854 | 1498.9 | $\underline{-2}$ |
| 3. GNP in constant dollars (bil. 1972 \$) | 48 48 | 130.5 1238.4 | 132.3 | 134.1 | 136.2 | 138.0 | 140.0 | 126.4 | 133.3 |
| 4. Industrial production $(1967=100)$ | 48 46 | 1238.4 | 1253* | 1271: | 1287: | $1305^{\text {i }}$ | $1320^{\circ}$ | 1186.1 | $1262{ }^{\prime \prime}$ |
| 5. Unemployment rate (percent) | 46 | 120.2 | 123 | 126 | 129 | 131 | 133 | 113.8 | 124.6 |
| 6. Corporate profits after taxes (\$bil.) | 48 44 | 7.6 | 7.4 89.4 | 7.2 | 7.0 | 6.8 | 6.7 | 8.5 | 7.3 |
| 7. Plant and equipment expenditures OBE-SEC (\$bil.) | 44 46 | $84.2{ }^{\prime \prime}$ | 89.4 | 93.7 | 98.0 | 101.0 | 103.7 | 71.2 | 91.3 |
| 8. New private housing units | 46 | $118.7^{\prime}$ | 120.7 | 124.1 | 128.4 | 133.4 | 137.8 | 112.8 | 123.0 |
| 9. Change in bus. inventories, GNP accounts (\$bil.) | 46 | 1.414 | 1.50 | 1.59 | 1.67 | 1.71 | 1.76 | 1.162 | 1.544 |
| 10. Consumer expenditures for durable goods (\$bil.) | 4 | 14.1 | 14.5 | 14.0 | 14.0 | 15.5 | 15.7 | $-14.6$ | 17.15 |
| 11. National defense purchases. | 46 | 146.5 | 151.0 | 156.4 | 162.4 | 167.4 | 172.0 | 128.1 | 15-1.1 |
| (\$b | 46 | 87.0 | 88.0 | 89.6 | 91.9 | 93.6 | 95.0 | 84.0 | 89.12 |

[^0]TABLE 2 Projected Percentage Changes in GNP and Other Economic Indicators, 1976-1977 Q2

| Indicator | Number of Forecasters | $\begin{aligned} & \text { Q1 } 76 \\ & \text { to } \\ & \text { Q2 } 76 \end{aligned}$ | Q2 76 to <br> Q3 76 | Q3 76 Q4 76 | $\begin{aligned} & Q 476 \\ & \text { to } \\ & Q 177 \end{aligned}$ | $\begin{aligned} & \text { Q1 } 77 \\ & \text { to } \\ & \text { Q } 77 \end{aligned}$ | $\begin{gathered} 1974 \\ \text { to } \\ 1975 \end{gathered}$ | $\begin{gathered} 1975 \\ \text { to } \\ 1976 \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Gross national product (sbil.) | 48 | 2.6 | 2.9 | 2.9 | 2.8 | 2.7 | 6.5 | 12.4 |
| 2. GNP implicit price deflator $(1972=100)$ | 48 | 1.4 | 1.4 | 1.6 | 1.3 | 1.4 | 8.8 | 5.5 |
| 3. GNP in constant dollars (\$ bil. 1972) ${ }^{\text {a }}$ | 48 | 1.2 | 1.4 | 1.3 | 1.4 | 1.1 | -2.0) | 6.4 |
| 4. Industrial production $(1967=100)$ | 46 | 2.3 | 2.4 | 2.4 | 1.6 | 1.5 | -8.8 | 9.5 |
| 5. Unemployment rate (percent)" | 48 | $-0.2$ | -0.2 | -0.2 | -0.2 | -0.1 | 2.9 | $-1.2$ |
| 6. Corporate profits after taxes (\$bil.) | 44 | 6.2 | 4.8 | 4.6 | 3.1 | 2.7 | $-10.4$ | 28.3 |
| 7. Plant and equipment expenditures OBE-SEC (\$bil.) | 46 | 1.7 | 2.8 | 3.5 | 3.9 | 3.3 | 0.34 | 9.0 |
| 8. New private housing units started kann. rate mil.) | 46 | 6.1 | 6.0 | 5.0 | 2.4 | 2.9 | --13.0 | 32.4 |
| 9. Change in burs. inventories, GNP accounts (\$bil. ic $^{\text {C }}$ | 45 | 0.3 | $-0.5$ | 0 | 1.5 | 0.2 | -24.3 | 28.8 |
| 10. Consumer expenditures for durable goods (\$bil.) | 46 | 3.1 | 3.6 | 3.8 | 3.1 | 2.7 | 5.1 | 20.3 |
| 11. National defense purchases, GNP accounts (\$bil.) | 46 | 1.1 | 1.8 | 2.6 | 1.8 | 1.5 | 8.5 | 6.1 |

[^1]IABLE 3 Estimated Probability of Decline in GNP in Constant Dollars

| Estimated probability (chances in 100) | $\begin{gathered} \text { Q1 } 76 \\ \text { to } \\ Q 276 \end{gathered}$ | $\begin{gathered} \text { Q2 } 76 \\ \text { to } \\ \text { Q3 } 76 \end{gathered}$ | $\begin{gathered} \text { Q3 } 76 \\ \text { to } \\ \text { Q } 476 \end{gathered}$ | Q4 76 Q1 77 | $\begin{aligned} & Q 177 \\ & \text { t } 17 \\ & \text { Q2 } 77 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Leas than 1 |  |  | er of for |  |  |
| 1-10 |  | 53.1 | 40.8 | 26.5 |  |
| 11-20 | 28.6 | 44.9 | 4.4 .9 | 44.9 | 18.4 |
| 21-30 | 10.0 | 0.0 | 10.2 | 16.3 | 40.8 |
| $31-40$ | 0.0 0.0 | 2.0 | 4.1 | 12.2 | 24.3 8.2 |
| 41.30 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 |
| $31-60$ | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 |
| $61 \quad 70$ 71 | 0.0 0.0 | 0.0 0.0 | 0.0 | 0.0 | 2.0 0.0 |
| 7180 | 0.0 0.0 | 0.0 0.0 | 0.0 | 0.0 | 0.0 |
| 81 and cover | 0.0 | 0.0 | 0.0 | 0.0 | 11.0 |
| Medion protratbility chame ere in 1or), | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Mean problability (chance.e in la()) | 0.0 | 0.0 | 3.0 | 6.0 | 3.0 |
| chariem | 1.8 | 3.3 | 3.6 | 4.1 |  |

TABLE 4 Mean Probability Distributions of Changes in GNP and Prices, 1975-1976


[^2]TABLE 5 Forecasting Methods Used

| Method | Number of Forecasters |  | Number <br> Most important | orecaster <br> Second <br> Most <br> Impor- <br> tant | sing Each <br> Third <br> Most <br> Important | Method Whi Fourth Most Important | Rariked it Fifth Most Important |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Using | Not Using |  |  |  |  |  |
| Informal GNP model | 38 | 11 |  |  |  |  |  |
| Leading indicators | 32 | 17 | 28 4 | ${ }^{6}$ | $\because$ | 1 | $1)$ |
| Anticipations surveys | 30 | 19 | 4 | 1.3 | 11 | 1 | 1 |
| Econometric model (outside) | 29 | 20 | 2 | 14 | 11 | 4 | , |
| Econometric model (own) | 12 | 37 | 2 | 11 | 8 | 8 | $1)$ |
| Other methods | 4 | 45 | 9 | 0 | 1 | , | , |
|  |  |  | 2 | 2 | 0 | 0 | 0 |

SOURCE:- American Statistical Association and National Bureau of Economic Research, Businese Outhook Survey Mav lu-th

TABLE 6 Forecasters' Affiliation
Primary Affiliation
Number of Forecasters

| Manufacturing | 14 |
| :--- | :---: |
| Commercia! banking | 3 |
| Other financial institutions | 3 |
| Consulting or research | 11 |
| Merchandising | 0 |
| Trade association | 0 |
| Academic | 7 |
| Government | 6 |
| Labor union | 0 |
| Other | 5 |
| Total | 49 |

SOURCE: American Statistical Association and National Bureau of Emomic Research, Business Outhok
Survey, May 1976.

## TABLE 7 Key Assumptions Underlying Forecasts

$$
\text { Assumption } \quad \text { Number of Forecasters }
$$

Energy Problem
No severe crisis
Controls phased out ..... 16
Increase in prices ..... 3 ..... 7

No change in prices

No change in prices
No ..... 3
Monetary Policy
Increase in money supply is on target ..... 34
More restrictive ..... 7
Less restrictive ..... 2
Fiscal Policy
As budgeted ..... 6
Larger deficit ..... 7
Tax cut extended through forecast period ..... 15
Tax cut extended through 1976 ..... 5
No change in policy ..... 7
Other
No major international crisis, no war ..... 10
No incomes policy ..... 10
No major strikes ..... 9
Prolonged strikes ..... 3
Wage settlements moderately inflationary ..... 4
Wage settlements inflationary ..... 2

[^3]
## Another

ANNALS OF

## ECONOMIC AND SOCIAL MEASUREMENT

The Annals of Economic and Social Measurement, a journal of computers, information retrieval, and research methodology, was created in 1972 to promote the exchange of ideas in quantitative research. This quarterly journal contains articles generated within the National Bureau's research program, mainly but not solely dealing with data generation, computer application, and methodological problems. Although research methodology is stressed, descriptions of computer programs, information retrieval techniques, and data sets are also published. Such an emphasis means that scientists can benefit from work in fields outside their immediate range of research. The journal's objective, therefore, is to provide rapid and wide dissemination of advances in the state of the art-resulting in more effective use of the computer in quantitative analysis.

Participants in workshops helo by the NBER's Conference on the Computer in Economic and Social Research and researchers affiliated with the NBER's Computer Research Center for Economics and Management Science are encouraged to contribute papers. Throughout the coming year, special issues will focus on such topics as the analysis of consumer demand data, stochastic control theory applications, and data documentation techniques.

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[^0]:    

[^1]:    SOURCE: Computed mon Table':
    -Change in rate in percentage points.
    c Change in billions of chellars
    439

[^2]:    SOURCE: American Statistical Association and National Bureau of Economic Ressarch, Business Outlook Survey, May 1976.
    American Sutistical ital rumber of forecasters included is 48 .

[^3]:    SOURCE: American Statistical Association and National Bureau of Economic Research, Business Oitlook Sunvey, May 1976.

