Recent Developments
In Nonresidential Construction Activity

By C. Alan Garner

Americans have watched in recent years as the skylines of their cities changed rapidly. A nationwide boom in office construction has transformed many downtown areas and, in the process, has raised office vacancy rates dramatically. Construction of office space has been robust in the suburbs as well, and new stores and shopping centers have been built in growing residential areas. In contrast, industrial construction has been lackluster in the last year and a half after a relatively normal recovery from the 1981-82 recession. No doubt, many observers have wondered what forces lie behind these differing construction patterns and whether existing patterns can be maintained.

Recent conditions in nonresidential real estate markets also pose important questions for makers and students of U.S. economic policy. The strength of commercial construction and the comparative weakness of industrial building partly reflect current fiscal and financial policies. Moreover, developments in the nonresidential real estate markets could affect U.S. financial institutions and economic performance in the years ahead. One Federal Reserve official has noted that "important areas of the nation's real estate market are currently experiencing serious difficulties and are creating problems of varying degrees of severity for our financial institutions." As a result, future decisions about fiscal and financial policies should take into account the effects of these policies on U.S. real estate markets and the relation of these markets to broader economic and financial stability.

This article analyzes recent patterns of commercial and industrial construction and examines the economic policy issues raised by these developments. The first section describes trends in nonresidential construction and

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vacancy rates during the 1980s. The second section explains some of the factors that have contributed to the commercial building boom, and the third section analyzes the contrasting pattern of weak industrial construction. The last section discusses policy issues related to the nonresidential real estate markets.

Recent trends

Private nonresidential building has recovered substantially from the 1981-82 recession. Private nonresidential building includes industrial, office, other commercial, institutional, and miscellaneous construction.\(^2\) Government, farm, and public utility construction are excluded. Chart 1 shows that nonresidential building fluctuated in the $35 billion to $40 billion range (measured in 1977 dollars) in the late 1960s and early 1970s before dropping sharply in 1974-76. Since then, nonresidential building has been on an upward trend, despite brief declines in 1980 and 1982-83.\(^1\)

Activity in various categories of nonresidential construction has differed notably in recent years. Construction of new housing includes parts of the residential building. Construction of buildings and structures except housing. Miscellaneous building covers such nonresidential structures as radio and television stations, health clubs, airline terminals, and motion picture theaters. Institutional and miscellaneous construction are not discussed in this article but are part of the total figure in Chart 1. Further description of the construction data can be found in Value of New Construction Put in Place, Bureau of the Census, U.S. Department of Commerce, May 1985.

\(^2\) Industrial building includes factories and related structures but not durable equipment. Office building refers to office and professional structures not located at industrial sites. Other commercial construction encompasses stores, shopping centers, retail and wholesale warehouses, and banks. Institutional building includes hospitals, nursing homes, and educational structures.

years. Commercial construction boomed in 1984 and 1985, while industrial construction was comparatively weak. Chart 2 shows the two major categories of commercial construction, office and other commercial building. Office construction began increasing in 1978 from the slow pace of the mid-1970s and, after a brief downturn following the 1981-82 recession, soared to record levels in 1984-85. In contrast, other commercial construction far outpaced office construction in 1972-74 but then slowed through 1982. Other commercial construction started rising in 1983, however, and has contributed to the general boom of commercial building in 1984-85.

Industrial construction, on the other hand, has been relatively weak following the 1981-82 recession. Chart 3 shows that industrial construction declined substantially in the late 1960s and early 1970s and remained at comparatively low levels until 1977, when industrial building rebounded sharply. Industrial construction reached the $11 billion to $12 billion range (1977 dollars) during the 1978-81 period, though with a decline in 1979-80. A more pronounced drop came in 1982-83, and the ensuing recovery has been too weak to return industrial building to its previous peak.

Further perspective is gained by comparing private nonresidential building and its major components with GNP. The apparent growth of nonresidential construction in recent years could be misleading because aggregate economic activity also has expanded. Table 1 shows nonresidential construction and two important components, commercial and industrial building, as percentages of GNP. Nonresidential building fell from 2.1 percent of GNP in 1970 to 1.7 percent in 1975 but then strengthened gradually to 1.9 percent of GNP in 1980 and 2.2 percent in 1985. Compared with GNP, therefore, nonresidential building
was only a little stronger in 1985 than in 1970. The table confirms, however, the divergence of commercial and industrial construction in recent years. Together, office and other commercial construction equaled 1.0 percent of GNP in 1970. This fraction fell to 0.8 percent in 1975 but climbed to 1.1 percent in 1980 and 1.5 percent in 1985, considerably higher than in 1970. Industrial construction has been weakening relative to total economic activity. Industrial building was equal to 0.6 percent of GNP in 1970 but only 0.5 percent in 1980 and 0.4 percent in 1985. Thus, while real industrial building was higher in 1985 than in 1970, it was lower relative to GNP.

The strength of office construction and the relative weakness of industrial construction are mirrored in the office and industrial vacancy
rates shown in Chart 4. The supply of commercial office space has grown more rapidly than demand. As a result, office vacancy rates in downtown areas climbed from less than 4 percent in early 1980 to 16.5 percent at the end of 1985. The office vacancy rate in suburban areas (not shown) is even higher, 22.0 percent in December 1985. Industrial vacancy rates also have climbed but much less dramatically than office vacancy rates. Nationwide, the industrial vacancy rate was 5.0 percent in December 1985, up from 3.5 percent at the beginning of 1980.

Vacancy rates for office buildings are especially high in some cities. Downtown vacancy rates in December 1985 were 26.0 percent in Denver, 20.2 percent in Houston, 23.7 percent in Oklahoma City, and 23.4 percent in San Diego. Suburban vacancy rates were 31.0 percent in Houston and 29.2 percent in Phoenix. Most Sunbelt cities had vacancy rates above the national average. On the other hand, vacancy rates were well below the national average in such cities as Boston, Chicago, and St. Louis, and in downtown and midtown Manhattan. Perhaps more than any other real estate market development, nearly vacant office towers in such towns as Denver and Houston have drawn national attention and expressions of concern.

Factors affecting commercial construction

The recent strength of office and retail construction has been due to a variety of economic, financial, and tax factors. The economic factors considered here are fundamental business determinants of demand for office and retail space. Financial factors include the
TABLE 2
Selected economic factors affecting commercial construction

<table>
<thead>
<tr>
<th>Year</th>
<th>Nonagricultural Employment</th>
<th>FIRE Employment</th>
<th>Service Employment</th>
<th>Total Housing Starts (thousands)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>0.6</td>
<td>3.7</td>
<td>4.5</td>
<td>1,313</td>
</tr>
<tr>
<td>1981</td>
<td>0.8</td>
<td>2.7</td>
<td>4.1</td>
<td>1,100</td>
</tr>
<tr>
<td>1982</td>
<td>-1.7</td>
<td>0.8</td>
<td>2.2</td>
<td>1,072</td>
</tr>
<tr>
<td>1983</td>
<td>0.7</td>
<td>2.4</td>
<td>3.5</td>
<td>1,713</td>
</tr>
<tr>
<td>1984</td>
<td>4.7</td>
<td>3.9</td>
<td>5.4</td>
<td>1,756</td>
</tr>
<tr>
<td>1985</td>
<td>3.4</td>
<td>4.3</td>
<td>5.6</td>
<td>1,736</td>
</tr>
</tbody>
</table>

Source: Economic Report of the President, 1986

cost of funds for financing real estate projects and the investment preferences and expectations of capital suppliers. Tax factors include depreciation schedules, investment tax credits, and other provisions of the tax code that affect the expected after-tax returns to real estate developers and investors. To some extent, all of these factors have encouraged greater commercial construction activity as the economy recovered from the 1981-82 recession.

Economic factors

The demand for commercial office and retail space depends ultimately on the purchases by consumers or other firms of the goods and services produced in that space. Demand for commercial office space is related most closely to the growth of employment in the finance, insurance, and real estate (FIRE) sector and the service sector of the economy. Employees of these industries usually work out of commercial office buildings, while many white-collar employees in other industries work in offices in factories or warehouses. Employment in the FIRE and service sectors has grown much more rapidly than total nonagricultural employment during the 1980s. For example, Table 2 shows that nonagricultural employment fell 1.7 percent from 1981 to 1982. Meanwhile, employment rose 0.8 percent in the FIRE sector and 2.2 percent in the service sector. Total nonagricultural employment expanded a respectable 3.4 percent from 1984 to 1985, but both FIRE and service employment outstripped this gain by growing 4.3 percent and 5.6 percent, respectively. Strong growth of FIRE and service employment has fueled the demand for office space. Nevertheless, office vacancy rates have climbed because the supply of commercial office space has increased even more rapidly.

Other commercial construction has been stimulated by the higher levels of office and residential building following the 1981-82


Federal Reserve Bank of Kansas City
recession. Retail projects usually are located near where people work or live. New construction of commercial office buildings, therefore, may generate some additional retail construction because of expected higher sales near the new office structures. However, new residential construction probably has been even more powerful in stimulating retail construction. After falling to about 1.1 million units annually in 1981 and 1982, total housing starts rose above 1.7 million units annually for the next three years (Table 2). More housing starts were the result of sharp declines in mortgage rates, rising incomes, and favorable demographic factors. Residential construction has a strong effect on the demand for retail space because large investments in shopping centers and other commercial structures are often needed when developers open new areas of suburban housing.

Differences in office vacancy rates between cities often reflect differing fortunes of the industries that influence office demand and employment growth in those areas. The most important example is the effect of oil prices on employment and construction in energy-producing regions of the country. Sharp increases in energy prices during the 1970s spurred a boom in energy exploration and related activities. Employment grew rapidly not only in the energy industries but also in the service and financial industries that support the energy sector. Demand for office space grew dramatically in such energy centers as Denver, Houston, Oklahoma City, and Tulsa. Developers responded by starting new nonresidential construction projects. Because of the long time lags involved in commercial construction, several years can elapse between the planning of a project and its completion. The demand for workers also led to migration into the energy states, creating new demands for housing and, therefore, retail space. When the energy boom ended unexpectedly in the 1980s, demand for office and retail space dropped at the same time that many new construction projects were being completed. As a result, commercial vacancy rates skyrocketed and commercial rents were depressed.

**Financial factors**

Financial factors have contributed to the strong performance of commercial construction in recent years. Funds have flowed readily into commercial real estate investments from a variety of sources. Institutional investors, such as pension funds and insurance companies, have increased the fractions of their investment portfolios devoted to real estate in an effort to seek high returns and provide a hedge against possible future inflation. Commercial banks have channeled funds into real estate development partly because of reduced opportunities to make large corporate loans. Some thrift institutions have taken advantage of liberalized financial regulations by expanding nonresidential real estate loans. Households in high tax brackets often have chosen real estate investments in hopes of achieving higher after-tax returns and protection against inflation.

Investors' beliefs about real estate returns have been formed in light of historical experience, particularly that of the 1970s and early 1980s. Historical evidence suggests that long-term real estate investments can be a valuable component of a balanced investment portfolio. Data show that returns from long-term real estate investments have been comparable to
the returns from common stocks. Furthermore, real estate returns have been greater over the long term than the inflation rate and returns on Treasury bills or bonds. One survey of real estate investment studies found that the pre-tax real return on unleveraged properties had averaged 5.7 percent during the postwar era. Assessing real estate returns is difficult, however, because of data limitations. Current market values of investment properties are hard to obtain because these properties are not traded often. Also, the most reliable evidence on real estate returns is from the 1970s and 1980s, periods when returns may not have been typical. Historical evidence suggests, in addition, that real estate investments involve substantial risks but may add valuable diversification to investment portfolios because real estate returns have had low or negative correlations with stock and bond returns.

Fear of inflation and the desire for more diversification have encouraged many private and institutional investors to increase the commercial real estate portions of their portfolios. The economic experience of the 1970s convinced many investors that real estate could provide high returns in an inflationary environment. Common stocks and other financial instruments yielded low, or even negative, real returns during much of the 1970s. Although the inflation rate has declined substantially compared with the late 1970s and early 1980s, it has remained relatively high by U.S. historical standards. Inflation expectations may have declined less than actual inflation because of the long period of high inflation, the continued large federal deficit, and the potential for depreciation of the dollar.

Concern that the United States would resume high inflation may have influenced some investors heavily in the first half of the 1980s. Past investment results, of course, do not guarantee future investment results. The recent sharp decline in oil prices may reduce inflation to lower levels than investors had expected previously. In addition, some experts now warn that commercial real estate may not be an effective inflation hedge for the rest of the 1980s. High office vacancy rates might keep commercial rent increases below general inflation for the next few years. Moreover, real estate returns during the 1970s may have been buoyed by the maturing of the "baby boom" generation, which contributed to strong housing demand and employment growth. Demographic factors are not expected to provide as much support to real estate in the late 1980s and the 1990s. However, the belief that real estate furnishes protection against inflation surely has contributed to the flow of capital into the commercial real estate sector in recent years.

Some real estate analysts have argued that recent changes in financial regulations have accentuated the movement of funds into commercial real estate investments. The deregulation of deposit rates at commercial banks and thrift institutions has increased their average cost of funds. And, these depository institutions have responded by making riskier loans, including commercial real estate loans, to earn higher returns on their assets. Federal deposit insurance may have facilitated the process by making insured depositors unconcerned about lending risks as long as the federal govern-

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7 For example, see Richard W. Kopcke and Peter C. Aldrich, "A Real Estate Crisis: Averted or Just Postponed?" *Journal of Portfolio Management*, Spring 1984, pp. 21-29.

ment guarantees the insured deposits. Changes in state financial regulations, moreover, have given some state-chartered commercial banks and thrift institutions new opportunities to invest in commercial real estate. Also, the Garn-St Germain Depository Institutions Act of 1982 raised the limit for nonresidential real estate loans by federally chartered savings and loans and mutual savings banks from 20 percent of assets to 40 percent. Financial deregulation, therefore, may have joined with other financial factors to expand the flow of funds into commercial real estate investments.

Tax factors

Changes in the federal tax code, past and prospective, have helped boost commercial construction in recent years. The Economic Recovery Tax Act of 1981 (ERTA) increased the after-tax return to real estate investment by shortening the tax lifetime that could be assumed for nonresidential properties when computing depreciation allowances. The depreciation period for nonresidential property was reduced to 15 years, regardless of the type or age of the property. Previously, the tax lifetime for nonresidential structures had not been uniform but averaged about 35 years. Concentrating depreciation allowances early in the economic life of an investment project makes that project more attractive by reducing the investor's tax liability. By one estimate, ERTA reduced the effective purchase price of a representative nonresidential structure by about 10 percent after taxes. Subsequent legislation has raised the depreciation period for most nonresidential structures to 18 years, still less than the average tax lifetime before ERTA. Another provision of ERTA created an investment tax credit of up to 25 percent for the rehabilitation of historic structures. The passage of ERTA thus bolstered the incentives to invest in nonresidential structures at about the time that fundamental economic factors and financial factors were stimulating office and other commercial construction.

Recent tax reform proposals also may have encouraged strong commercial construction expenditures in 1985, even though tax reform ultimately may reduce nonresidential construction incentives. Proponents of tax reform have sought to lengthen the depreciation period for nonresidential structures investments, thereby undoing the original effect of ERTA. Setting the tax lifetimes of investment projects approximately equal to their economic lifetimes, it is argued, would enhance economic growth by achieving a more efficient alloca-

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*The effect of deposit insurance on bank risk-taking is analyzed in William R. Keeton, "Deposit Insurance and the Deregulation of Deposit Rates," Economic Review. Federal Reserve Bank of Kansas City, April 1984, pp. 28-46. The notion that higher deposit rates could induce a bank to invest in riskier assets remains controversial. Keeton has provided theoretical arguments showing why deposit rate deregulation could exacerbate the distortion of bank risk-taking behavior created by fixed-rate deposit insurance. However, empirical evidence suggesting that deposit rate deregulation might lower bank risk is presented by John J. Mingo, "The Effect of Deposit Rate Ceilings on Bank Risk," Journal of Banking and Finance. December 1978. pp. 367-378.


11 Kopcke and Aldrich. p. 24. For a representative nonresidential building. ERTA raised the present value of the depreciation allowances by more than 20 percent of the property's purchase price. The calculations assumed a 46 percent tax rate, straight-line depreciation, and a pre-ERTA tax lifetime of 30 years. All other factors affecting the project's return were assumed to be constant.
tion of capital. Proponents of tax reform also have sought to eliminate the investment tax credit for the rehabilitation of historic structures. Commercial construction may have been stimulated in 1985, however, as some developers accelerated their real estate projects in order to secure the more generous existing tax provisions.

Overall, then, several factors apparently have fostered the strong commercial building activity since the 1981-82 recession. Demand for office space has grown because employment has increased rapidly in the FIRE and service sectors of the U.S. economy. More residential construction has stimulated the demand for retail and other commercial buildings. Many suppliers of capital have chosen to invest in commercial real estate projects because of the high returns witnessed during the 1970s, a desire to diversify their investment portfolios, and changing financial regulations. Finally, enactment of ERTA in 1981 raised the after-tax returns to nonresidential real estate investment. Expectations that reform proposals would eliminate these tax incentives also may have helped sustain commercial construction spending in 1985.

**Factors affecting industrial construction**

Industrial construction, unlike commercial building, has been relatively sluggish lately after an initial recovery from the 1981-82 recession. Like commercial building, industrial construction has been affected by a variety of economic, financial, and tax factors. The main reason for the recent weakness of industrial construction has been the slower growth of industrial sales and output, partly as a result of the rising U.S. trade deficit. Industrial real estate generally has not attracted large capital inflows from institutional investors and households but has benefited from the tax law changes in the early 1980s.

**Economic factors**

Business investment in industrial structures is influenced heavily by expected sales and output in the goods-producing sectors of the economy. Economists have labeled this relationship the acceleration principle. If firms try to keep their stocks of physical capital at a constant multiple of expected output, the level of investment spending depends on changes in expected output. Therefore, production growth in the industrial sector is important for the demand for industrial structures. Investment spending responds only gradually to output growth because of adjustment costs and lags in the production of business equipment and structures.

The sluggish performance of U.S. industrial sales and output is the main reason industrial construction has been weaker than commercial construction. Industrial output declined sharply in the recession year of 1982 (Table 3) but posted strong gains during the recovery period in 1983 and 1984. The growth rate of U.S. industrial production eased, however, from 11.5 percent in 1984 to only 2.2 percent in 1985. The capacity utilization rate for U.S. industry shows a similar cyclical pattern, falling from 81.2 percent in 1984 to 80.6 percent in 1985. Falling capacity utilization reflected the slow growth of U.S. output plus some installation of new industrial capacity. The

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12 For further explanation of the acceleration principle, see Kahn, pp. 31-32.
TABLE 3
Selected economic factors affecting industrial construction

<table>
<thead>
<tr>
<th>Year</th>
<th>Industrial Production (percent change)</th>
<th>Industrial Capacity Utilization (percent)</th>
<th>Manufacturing Employment (millions)</th>
<th>Net Exports (billions of 1982 dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1980</td>
<td>-1.9</td>
<td>80.9</td>
<td>20.3</td>
<td>57.0</td>
</tr>
<tr>
<td>1981</td>
<td>2.2</td>
<td>79.9</td>
<td>20.2</td>
<td>49.4</td>
</tr>
<tr>
<td>1982</td>
<td>-7.1</td>
<td>72.1</td>
<td>18.8</td>
<td>26.3</td>
</tr>
<tr>
<td>1983</td>
<td>5.9</td>
<td>74.7</td>
<td>18.4</td>
<td>-19.4</td>
</tr>
<tr>
<td>1984</td>
<td>11.5</td>
<td>81.2</td>
<td>19.4</td>
<td>-85.0</td>
</tr>
<tr>
<td>1985</td>
<td>2.2</td>
<td>80.6</td>
<td>19.4</td>
<td>-105.1</td>
</tr>
</tbody>
</table>

Source: Economic Report of the President, 1986

The weakness of the U.S. industrial sector is illustrated further by the growth in manufacturing employment. Manufacturing employment did not begin to recover from the recession until 1984, and it showed virtually no growth from 1984 to 1985. Manufacturing employment in 1985 was about 19.4 million workers, well below the peak of 21.0 million reached in 1979.

The U.S. trade deficit has been a major cause of the sluggish industrial sector. As Table 3 shows, U.S. net exports declined from a surplus of $57.0 billion (1982 dollars) in 1980 to a deficit of $105.1 billion in 1985. The trade deficit rose sharply in 1984 and 1985 because of the dramatic appreciation of the dollar made imported goods less expensive and severely eroded the competitiveness of U.S. exports. As a result, many purchases by U.S. households and firms did not represent sales by domestic manufacturers. Domestic producers, following the acceleration principle, had little incentive to add capacity by building new factories or warehouses. In contrast, the economic sectors driving commercial construction—finance, services, and home-building—were relatively free from import competition. Moreover, the distribution of imported goods strengthened commercial construction rather than industrial construction because retail and wholesale warehouses are considered commercial structures.

Financial factors

Financial factors do not seem to be a major explanation for the contrasting behavior of commercial and industrial construction. Both sectors have been subject to the same basic trends in real interest rates. By one measure, real interest rates declined substantially in 1982 but rose to a new peak in mid-1984 before declining again in the second half of 1984 and in 1985. Average real interest rates in the 1980s were high by historical standards. High real interest rates are consistent with low levels of industrial construction but not with the boom in the office sector. Another factor suggesting that financial factors have not been the major explanation of weak industrial construction is that corporate cash flows have

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remained healthy in recent years. Liberalized depreciation allowances resulting from ERTA have helped to maintain the internally generated funds that corporations use for much of their investment spending. Therefore, financial constraints do not appear to be the primary cause of sluggish industrial construction.

One financial factor is consistent, however, with the contrasting levels of activity in the commercial and industrial real estate sectors. Commercial real estate has attracted investment funds from institutions and households to

Financial constraints do not appear to be the primary cause of sluggish industrial construction.

a much greater extent than industrial real estate has. Most of these investors are not in the real estate business as such but regard commercial real estate as a valuable component of a balanced portfolio. Industrial real estate generally has not attracted such investments because the resale market for most industrial properties is limited. Industrial structures often are highly specialized because factories and warehouses are tailored to the needs of a particular firm or industry. The difficulty of finding another buyer reduces the attractiveness of specialized industrial structures to such investors as pension funds and wealthy households. This difference in ability to attract capital may play some part in explaining the contrasting patterns of commercial and industrial construction.

Tax factors

Tax considerations do not seem to be a major reason for the contrasting behavior of commercial and industrial construction. The Economic Recovery Tax Act of 1981 reduced the tax lifetime for industrial structures as well as for commercial buildings. Industrial structures, however, may have had a smaller effective tax reduction because of differences in the ways commercial and industrial projects typically are financed. Debt financing is obtained more readily for commercial projects because commercial properties are easier to resell. The higher degree of leverage for commercial real estate and the tax deductibility of interest payments may have combined to produce greater tax advantages for commercial structures investment. Greater tax benefits for commercial construction are consistent with the strong performance of this sector, but shorter tax lifetimes should have encouraged greater industrial construction as well. Therefore, tax factors do not adequately explain the recent weakness of industrial construction.

The principal reason for the relative weakness of industrial construction has been the sluggish growth of domestic goods production, which is partly a result of the large U.S. trade deficit. When U.S. industry invested to meet the challenge of foreign competition, the investment more often took the form of machinery and office equipment than of new factories and warehouses. Financial and tax factors apparently have not been major causes of weak industrial construction. However, recent financial and tax changes may have stimulated commercial building more than industrial construction because of the higher risk of industrial structures resulting from their limited resale potential.

Policy concerns

Policymakers, journalists, and business people have expressed concern about the future health of the nonresidential real estate mar-

14 See Bosworth, pp. 27-34.
meters. Particular attention has been paid to the record pace of construction and the rise in vacancy rates in many commercial office markets. What harm might be done by commercial overbuilding or by industrial underbuilding? Should the Federal Reserve play an active role in solving any emerging real estate problems? What other policy actions, legislative or regulatory, might be considered? This section provides an overview of these important policy-related issues.

Reasons for policy concern

One reason for concern about nonresidential construction is that a downturn in construction spending would affect real GNP and employment. Office construction seems most susceptible to a sharp downturn because of the high office vacancy rates and weakening rents. Tax reform also could reduce the incentive to invest in commercial real estate by lengthening depreciation schedules and removing investment tax credits for the rehabilitation of historic structures. Many real estate experts expect a correction in the commercial office market. Projections show a decline in office building, though analysts do not agree on the timing or magnitude of the prospective downturn. A lower level of commercial building would reduce the activity of construction companies, real estate developers, and firms supplying construction services and materials.

Another reason for concern about commercial real estate is that overbuilding could trigger bankruptcies among developers and higher loan losses for lenders. High vacancy rates for commercial property depress rental income and price appreciation. Although their investment returns would be lowered by an oversupply of commercial space, many real estate investors have the resources to ride out short-term market weaknesses with the expectation that their projects will be profitable over the long term. However, other developers with less capital or riskier projects might be forced into bankruptcy. Commercial banks and other lenders could find themselves holding commercial properties that could be sold only at depressed prices. Failures of some financial institutions cannot be ruled out, especially where institutions have plunged into risky real estate loans or where the local real estate market is severely depressed.

A third possible reason for concern about the nonresidential real estate market is the effect of weak industrial construction on U.S. capital formation and productivity. Many analysts expect little improvement in industrial construction spending during 1986. Surveys of business investment plans for 1986 support this view. The high average value of the dollar in 1983-85 may have temporarily reduced industrial production below levels that are consistent with the long-run competitive position of U.S. producers. Recent declines in the dollar should help to stimulate exports and raise domestic capacity utilization. Continuing sluggish industrial construction, therefore, could produce future capacity shortages that might intensify inflationary pressures in times of strong aggregate demand. Weak industrial

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16 For example, see Christie, p. 15.
construction also might raise production costs and reduce the international competitiveness of U.S. firms by keeping them from using the most efficient production technologies.

**The Federal Reserve's role**

What should the role of the Federal Reserve be in addressing these concerns about commercial and industrial construction? It is generally maintained that monetary policy should focus on aggregate economic conditions rather than the health of any specific region or industry. Some people may recommend that the Federal Reserve ease monetary policy to encourage industrial construction and lessen any commercial real estate problems. However, monetary policy has broad effects on consumer and business spending, the exchange rate, and inflation expectations. Policy actions stimulative enough to help the most depressed sectors of the U.S. economy might be too stimulative for many other regions or industries. As a result, inflationary pressures could build with harmful effects on general economic welfare. The Federal Reserve, therefore, is generally advised to direct monetary policy toward the goals of aggregate economic growth and price stability.

If consistent with general price stability and sustainable growth, however, lower interest rates would tend to reduce problems developing in the nonresidential real estate markets. Some troubled real estate projects would be refinanced, while commercial banks and other real estate lenders would pay less for their funds. Lower rates also would increase the demand for commercial and industrial space by promoting general economic growth. The appropriateness of lower interest rates, however, would depend on a number of factors, including the current and prospective state of the economy, inflationary pressures and expectations, and the foreign exchange value of the U.S. dollar.

The Federal Reserve also has a role in dealing with nonresidential real estate problems as a regulator of commercial banks. Diligent regulatory efforts are necessary to limit the problems that bad real estate loans could pose for the financial system. Federal bank regulators already are devoting special attention to real estate loans. The banking agencies have issued new guidelines to examiners regarding the classification of troubled real estate loans. Surveys have been conducted to identify real estate risks and to target some institutions for special examinations. The Federal Reserve has undertaken a program to enhance its general supervisory activities, partly by increasing the frequency of bank holding company inspections and examinations at state member banks. Finally, to the extent that real estate loan problems affect financial institutions, federal safeguards exist to prevent a widespread banking crisis. Federal deposit insurance and the Federal Reserve's powers as lender of last resort help guarantee that real estate loan problems will be restricted to specific institutions instead of threatening the entire banking system.

**Structural issues**

Recent nonresidential construction patterns also raise a variety of structural policy issues.

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relating to the tax laws and financial institutions. Tax law changes and financial deregulation may have contributed to the boom in office construction. Other factors have been important, however, and the exact contribution of structural changes is hard to assess. Some analysts argue that these structural factors along with changes in investor expectations have produced chronic biases in the real estate markets that need to be corrected.\(^\text{18}\) Although a detailed analysis is beyond the scope of this article, some of these structural policy issues deserve a brief mention.

Tax reform proposals have raised a number of policy issues that could affect the strength of nonresidential construction activity. Propponents of tax reform want to provide a "level playing field" where the tax laws do not distort investment decisions regarding the kind of capital good or business structure. Recent proposals have sought to abolish the investment tax credit and to depreciate nonresidential structures over periods close to their useful economic lives. Critics of these proposals have argued, however, that the incentive to invest in productive plant and equipment would be harmed. Martin Feldstein, a former chairman of the Council of Economic Advisors, wrote that recent proposals "would divert a larger share of our nation's scarce capital into shopping centers, office buildings, vacation homes and larger houses for upper-income taxpayers."\(^\text{19}\) Regardless of the outcome of current reform efforts, tax provisions affecting nonresidential construction activity are likely to remain prominent in future policy debates.

Financial structure issues center on the ability of depository institutions to lend to risky real estate ventures or take equity stakes in them. Many economists have argued that federal deposit insurance induces commercial banks and thrift institutions to make riskier loans than they would if deposits were not insured. The removal of deposit interest ceilings in the 1980s may have increased this distortion of bank behavior and encouraged further risky loans to commercial real estate ventures. Regulators have begun to explore ways of reducing the deposit insurance distortion by making insurance premiums vary with an institution's risk level, by relating capital requirements to risk, or by tightening regulatory oversight. Another financial structure issue concerns whether commercial banks and thrift institutions should be allowed to invest directly in commercial real estate. Proponents argue that equity investments could provide valuable earnings and portfolio diversification.

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\(^\text{18}\) Downs has been a leading exponent of this view. In addition to the book cited previously, see Anthony Downs, "This Building Boom Shows Something's Busted," *The Wall Street Journal*, October 29, 1985.


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*Federal bank regulators already are devoting special attention to real estate loans.*

while critics contend that direct investment would exacerbate existing risk problems and increase the bias in real estate finance.

If problems develop in the commercial real estate market, as some observers fear, structural reforms may be examined in an effort to prevent future excesses. Macroeconomic policies such as the size of the federal deficit and the degree of monetary restraint have broad economic impacts and should not be varied in response to specific sectoral problems. For that reason, the tax structure and financial regulation may become primary targets for reform because these policies can be directed more
accurately at nonresidential construction and real estate finance. Both the costs and the benefits of structural reforms should be weighed carefully, however, as policies that limit financial risks also might have undesirable side effects.

Conclusion

The contrasting patterns of commercial and industrial construction largely reflect the influence of fundamental economic determinants. Strong commercial construction has been fueled by rapid employment growth in the service and financial sectors and by higher levels of homebuilding. Weak industrial construction has resulted primarily from the sluggish expansion of industrial output, produced partly by the large U.S. trade deficit and the strong dollar. Tax and financial factors generally have reinforced the boom in commercial construction, while industrial property has benefited less from these factors. Industrial real estate, being relatively illiquid, is often not suitable for high levels of debt finance and has not attracted substantial investments by institutions and wealthy households.

Recent commercial and industrial construction patterns have suggested potential problems to some observers. Most obvious is the danger that overbuilding of commercial offices will lead to bankruptcies by developers and failures of financial institutions. Moreover, continuing weak industrial construction and possible reductions in commercial building could cause softer aggregate demand and, therefore, less production and employment. Weak industrial construction also might harm U.S. productivity and industrial capacity.

Evolving real estate developments require ongoing monitoring by the Federal Reserve and the other bank regulatory agencies. It is generally believed, however, that monetary policy should focus on aggregate economic conditions rather than sectoral problems because the instruments of monetary policy have broad economic impacts. Nevertheless, federal regulators already have intensified their efforts to identify troubled real estate loans and to enhance general bank supervision. Over the longer run, real estate problems may influence state and federal legislators to consider changes in the tax laws and financial structure affecting nonresidential building.