

United Arab Emirates: Selected Issues and Statistical Appendix

This Selected Issues paper and Statistical Appendix for the **United Arab Emirates** was prepared by a staff team of the International Monetary Fund as background documentation for the periodic consultation with the member country. It is based on the information available at the time it was completed on **January 27, 2003**. The views expressed in this document are those of the staff team and do not necessarily reflect the views of the government of the **United Arab Emirates** or the Executive Board of the IMF.

The policy of publication of staff reports and other documents by the IMF allows for the deletion of market-sensitive information.

To assist the IMF in evaluating the publication policy, reader comments are invited and may be sent by e-mail to publicationpolicy@imf.org.

Copies of this report are available to the public from

International Monetary Fund • Publication Services
700 19th Street, N.W. • Washington, D.C. 20431
Telephone: (202) 623 7430 • Telefax: (202) 623 7201
E-mail: publications@imf.org • Internet: <http://www.imf.org>

Price: \$15.00 a copy

International Monetary Fund
Washington, D.C.

INTERNATIONAL MONETARY FUND

UNITED ARAB EMIRATES

Selected Issues and Statistical Appendix

Prepared by a staff team consisting of Ugo Fasano, John Wilson, Mangal Goswami,
Rishi Goyal, and Saeed Mahyoub (all MED)

Approved by the Middle Eastern Department

January 27, 2003

| | |
|--|----|
| Overview..... | 4 |
| I. The Financial Sector..... | 4 |
| A. Introduction..... | 4 |
| B. Structure of the Financial System..... | 5 |
| C. The Banking Sector..... | 6 |
| D. Other Segments of the Financial Sector..... | 16 |
| E. Anti-Money Laundering and Combating the Financing of Terrorism..... | 20 |
| II. Long-Term Fiscal Developments, 1980–2001..... | 21 |
| A. Introduction..... | 21 |
| B. Quality of Fiscal Data..... | 22 |
| C. Fiscal Structure..... | 23 |
| D. The Performance of the Consolidated Fiscal Accounts..... | 24 |
| E. Fiscal Performance of the Federal Government..... | 25 |
| F. Fiscal Performance of Abu Dhabi..... | 26 |
| G. Fiscal Performance of Dubai and Sharjah..... | 27 |
| H. Conclusion..... | 28 |
| III. Fiscal Sustainability with Oil Resources..... | 38 |
| A. Introduction..... | 38 |
| B. The Framework..... | 39 |
| C. The Case of the United Arab Emirates..... | 40 |
| IV. Non-Oil Growth, Competitiveness, and the Labor Market..... | 41 |
| A. Introduction..... | 41 |
| B. Non-Oil Growth Performance..... | 43 |
| C. Non-Oil Exports and Competitiveness..... | 46 |
| D. Policies for the Employment of Nationals..... | 49 |
| E. Summary and Conclusions..... | 54 |
| V. Real Gross Domestic Product and Real Gross Domestic Income..... | 59 |
| A. Introduction..... | 59 |

| | |
|---|----|
| B. The Theoretical Framework | 59 |
| C. Empirical Results | 59 |
| Appendices | |
| 1. Non-Oil Growth Accounting for the United Arab Emirates..... | 56 |
| 2. A Model of Demand for National Labor | 58 |
| Appendix I Table | |
| 1. Non-Oil Output Growth and Input Growth, 1981–2000 | 57 |
| Text Boxes | |
| 1. Key FSAP Findings on Banking Supervision..... | 7 |
| 2. Domestic Bond Market | 18 |
| Text Tables | |
| 1. Commercial Banking System of Selected GCC Countries, 2001 | 5 |
| 2. Banking Sector Soundness Indicators, 1996–2001 | 8 |
| 3. Sectoral Loan Concentration Ratios, 1999–2002 | 12 |
| 4. Securities Market Activity, 2000–02 | 17 |
| 5. Consolidated Fiscal Accounts, 1980–2001 | 29 |
| 6. Federal Fiscal Accounts, 1980–2001 | 31 |
| 7. Abu Dhabi Fiscal Accounts, 1980–2001 | 33 |
| 8. Dubai Fiscal Accounts, 1980–2001 | 35 |
| 9. Sharjah Fiscal Accounts, 1991–2001..... | 37 |
| 10. Summary of Main Assumptions and Parameters..... | 41 |
| 11. Real Gross Domestic Product and Income, and Oil Prices, 1990–2002..... | 61 |
| 12. Correlation Matrix | 62 |
| 13. Summary of the Cointegration Relations | 62 |
| Figures | |
| 1. Banking Structure in the United Arab Emirates | 6 |
| 2. Returns on Assets and Equity for Commercial Banks, 1996–2001 | 9 |
| 3. Interest Rate Spread Between Lending and Deposit Rates, October 2000–June 2002 | 10 |
| 4. Total Expenses to Total Revenues, 1996–2001 | 11 |
| 5. Sources of Bank Profits, 1996–2001 | 13 |
| 6. Non-Oil Growth and the Changing Structure of GDP, 1980–2002..... | 44 |
| 7. GDP Per Capita, Population, Consumption, and Investment, 1980–2002 | 45 |
| 8. Employment, Wages, and Labor Productivity, 1981–2001 | 47 |
| 9. CPI-Based Effective Exchange Rates and Export Performance, 1980–2002..... | 48 |
| 10. Alternative Measures of Non-Oil Competitiveness, 1990–2002..... | 50 |
| 11. Real GDP, Real GDI, and Crude Oil Prices, 1991–2002 | 63 |
| 12. Change in RGDI and Consumption, 1991–2002 | 64 |
| 13. Change in RGDI and Investment, 1991–2002 | 65 |
| 14. RGDI and Imports, 1991–2002..... | 66 |

Statistical Appendix Tables

| | |
|---|-----|
| Basic Data | 67 |
| 1. Sectoral Origin of GDP at Constant (1995) Prices, 1997–2001 | 69 |
| 2. Real Growth by Economic Sector, 1997–2001 | 70 |
| 3. Sectoral Origin of GDP at Current Prices, 1997–2001 | 71 |
| 4. Sectoral Distribution of Nominal GDP, 1993–2001 | 72 |
| 5. Use of Resources at Current Prices, 1997–2001 | 73 |
| 6. Distribution of GDP at Factor Cost by Emirate, 1997–2001 | 74 |
| 7. Gross Fixed Capital Formation by Sector at Current Prices, 1997–2001 | 75 |
| 8. Oil and Gas Production, Exports, and Prices, 1997–2001 | 76 |
| 9. NGLs, LNG, and Refined Product Exports, 1997–2001 | 77 |
| 10. Average Crude Oil Prices, 1997–2001 | 78 |
| 11. Agricultural Production, 1997–2001 | 79 |
| 12. Population by Emirate, 1997–2001 | 80 |
| 13. Sectoral Distribution of Civilian Employment, 1997–2001 | 81 |
| 14. Labor Market Indicators, 1995 | 82 |
| 15. Average Annual Compensation by Economic Sector, 1997–2001 | 83 |
| 16. Selected Price Indices, 1997–2001 | 84 |
| 17. Consumer Price Index by Major Components, 1998–2001 | 85 |
| 18. Consolidated Government Finances, 1997–2001 | 86 |
| 19. Government Current Expenditures by Economic Category and Emirate, 1997–2001 | 87 |
| 20. Federal Government Financial Operations, 1997–2002 | 88 |
| 21. Pension Fund Operations, 2000–01 | 89 |
| 22. Federal Subsidies and Transfers, 1997–2002 | 90 |
| 23. Federal Development Expenditures, 1997–2002 | 91 |
| 24. Abu Dhabi Operations, 1997–2002 | 92 |
| 25. Abu Dhabi Development Expenditures, 1997–2002 | 93 |
| 26. Dubai Government Fiscal Operations, 1997–2002 | 94 |
| 27. Sharjah Government Fiscal Operations, 1997–2002 | 95 |
| 28. Monetary Survey, 1997–2002 | 96 |
| 29. Factors Affecting Domestic Liquidity, 1997–2002 | 97 |
| 30. Summary Accounts of the Central Bank, 1997–2002 | 98 |
| 31. Balance Sheets of Commercial Banks, 1996–2002 | 99 |
| 32. Balance Sheet of Restricted License Bank, 1997–2002 | 100 |
| 33. Licensed Commercial Banks, June 2002 | 101 |
| 34. Balance of Payments, 1997–2001 (In U.S. dollars) | 102 |
| 35. Balance of Payments, 1997–2001 (In U.A.E. dirhams) | 103 |
| 36. Merchandise Imports by Harmonized System Sections, 1997–2001 | 104 |
| 37. Merchandise Exports by Harmonized System Sections, 1997–2001 | 105 |
| 38. Direction of Trade: Imports, 1997–2001 | 106 |
| 39. Direction of Trade: Exports, 1997–2001 | 107 |

OVERVIEW

This Selected Issues Paper presents five essays examining issues in the United Arab Emirates related to the financial sector, long-term fiscal trends, fiscal sustainability, the competitiveness of the non-oil economy, and the labor market, as well as estimates of the real gross domestic income (RGDI). Chapter I presents trends of financial soundness indicators; recent developments in the nascent equity, bond, and insurance markets; as well as progress made in implementing legislation on anti-money laundering; and the combating of terrorism financing. Chapter II assesses long-term trends and cross-emirate variation in the fiscal structure, and the evolution of the United Arab Emirates' consolidated fiscal and non-hydrocarbon balances from 1980–2001. An effort was also made to address some of the important shortcomings in the country's fiscal statistics. The following chapter provides a practical framework to estimate the United Arab Emirates' permanent income available from its oil wealth to assess the sustainability of the current fiscal stance. Chapter IV examines the relationship between the labor market and non-oil real economic growth in the United Arab Emirates based on a growth accounting exercise. It also develops an analytical model to propose policies for increasing private sector job opportunities for U.A.E. nationals. The last chapter examines the relationship between RGDI and other key macroeconomic variables in the country from 1990–2002.

I. THE FINANCIAL SECTOR¹

A. Introduction

1. The United Arab Emirates has long played an important role as a regional financial center for the Middle East based on its location, the legacy of an open and liberal trade regime, and the proactive stance of the governments of the emirates to promote modern and technologically advanced infrastructure. The backbone of the financial system is the banking sector, which is one of the most developed in the region.
2. This section addresses issues relevant to the United Arab Emirates' financial sector. These include a background of the structure of the banking sector, the performance trends of financial soundness indicators, and the ongoing efforts by the Central Bank of United Arab Emirates (CBU) to enhance regulatory and supervisory changes in line with the rapid changes in the increasingly global banking environment. The chapter also discusses the developments, reforms, and challenges in other areas of the financial sector, including the nascent equity, bond, and insurance markets. The last section highlights the progress in implementing the Anti-Money Laundering and Combating the Financing of Terrorism (AML/CFT) legislation. In fact, this area of reform has advanced the most over the past year, as a significant amount of CBU resources have been devoted not only to revise and issue new

¹ This chapter was written by Mangal Goswami (MED).

legislation, but also to support and cooperate with several countries in international initiatives in this area.

B. Structure of the Financial System

3. The United Arab Emirates' well-developed banking system is the second largest in the GCC in terms of total assets. This is illustrated by the degree of banking presence in the U.A.E. economy, with bank lending to private nonbanks representing more than 50 percent of GDP (Table 1). The financial system primarily consists of commercial banks, money exchange houses, insurance companies, and securities firms. In comparison to Kuwait and Saudi Arabia, there are more commercial banks per capita in the United Arab Emirates, with 21 domestic commercial banks, 26 branches of foreign banks, and 105 head offices of money changing houses, as well as one restricted licensed bank. National commercial banks are geographically distributed among the emirates with each one, except for Ajman, having its own national bank, although most of the banks are headquartered in Abu Dhabi or Dubai. Among the 21 national banks, 14 have some federal or local government ownership. Only very few commercial banks are wholly operating as Islamic banks, but the demand for Islamic banking services is increasing, with some non-Islamic banks allowed to offer Islamic products.²

Table 1. Commercial Banking System of Selected GCC Countries, 2001

| | Bahrain | Kuwait | Saudi Arabia | U.A.E. |
|--|---------|--------|--------------|--------|
| Credit to the private sector (in percent of GDP) | 46.6 | 68.1 | 26.8 | 52.3 |
| Total assets (in millions of U.S. dollars) | 10,218 | 52,056 | 126,150 | 77,288 |
| Number of banks per 100,000 persons | 2.37 | 0.43 | 0.05 | 1.82 |

Sources: IMF, *World Economic Outlook*; IMF, *International Financial Statistics*; and national authorities.

4. The structure of the banking sector has been stable for quite some time. Apart from one-off cases, there have been very few mergers among local banks, while a ban on new foreign entry has been in place since 1982. Some of the reasons for the dearth of mergers among the local banks are the following:

- Profitability has been good and capital ratios have been healthy.
- Large banks already have substantial market share and are generally not anxious to expand further, although they are aggressive in seizing opportunities to increase scale in certain products or areas, such as credit cards.

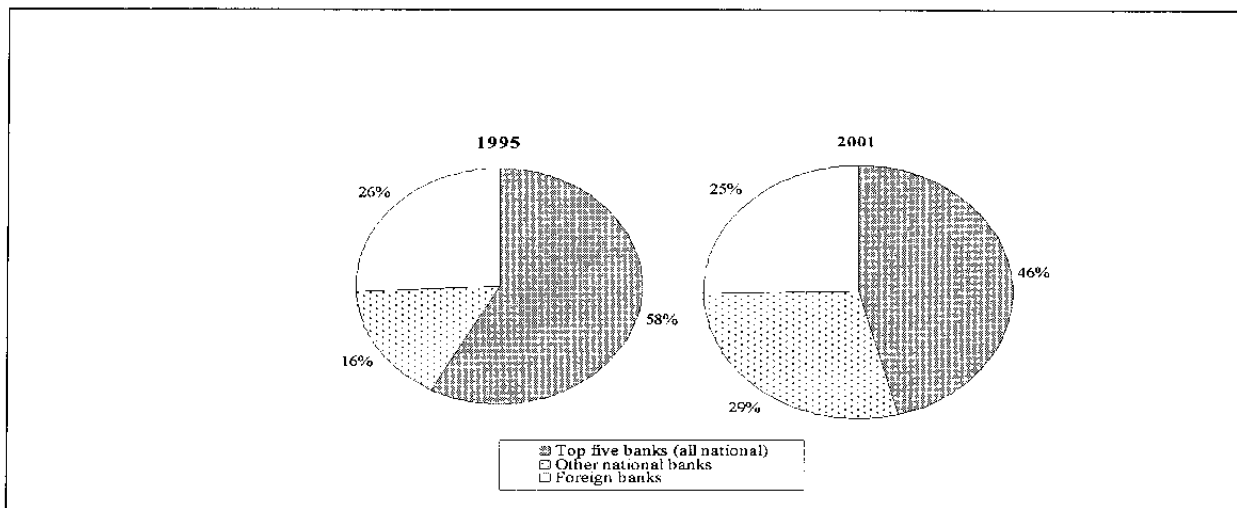
² The National Bank of Sharjah transformed itself into a full-fledged Islamic bank in July 2002. This is the third Islamic bank in the United Arab Emirates.

- Family ownership of a number of banks has resulted in reluctance to forge consolidation.

5. There are signs, however, that the financial sector landscape could be poised for change. This is driven in the near term, by the increased competition from smaller banks to gain market share within the domestic market; in the medium term, by further liberalization of the financial services sector as part of WTO commitments and the development of capital markets. While the top five national banks still represent about half of the banking system's total assets, along with deposits and loans and advances, their dominance has seen gradual erosion since the mid-1990s, with smaller national banks gaining share in all of these categories (Figure 1). Further competition is expected, since the United Arab Emirates will in all likelihood open up the banking sector to the GCC in the near-term. Alternative sources of financing, as the capital markets develop further, is also expected to put competitive pressure on the banking sector as corporations that have traditionally depended on bank borrowing diversify their funding profile.

Figure 1. Banking Structure in the United Arab Emirates

Share in Total Banking Sector Assets, Deposits, Loans, and Advances



Source: Central Bank of the United Arab Emirates.

C. The Banking Sector

Prudential regulations, bank supervision, and recent performance

6. Since the establishment of the United Arab Emirates as a federation of seven emirates in December 1971, there has been considerable progress in developing legislation supporting the development of the banking sector. The central bank supervises commercial banks, foreign branches, and money changers. One of the key elements of the current financial system is the strength of banking supervision, which has evolved in response to a series of

high profile failures in the early 1990s. In this regard, the main findings of the 2001 Financial Sector Assessment Program (FSAP) mission are highlighted in Box 1.

Box 1. Key FSAP Findings on Banking Supervision

- The banking sector is buttressed by strong banking supervision.
- Stress tests on banking sector vulnerability indicate that the system is well cushioned, with ample liquidity and a high risk-weighted capital adequacy ratio to withstand any significant shocks.
- Banks are well managed and the CBU is largely compliant with the Basel Core Principles (BCPs) with only a few exceptions.
- The CBU observes most good transparency practices in conducting monetary policy and banking supervision, but further improvement is needed in the area of transparency practices with regard to publishing more information on itself, its monetary operations, and financial sector developments.

7. Financial soundness indicators continue to point to a healthy banking sector, with all banks complying with prudential standards. Banks have shown strong performance in asset, deposit, lending growth, capitalization, profitability, and efficiency since the mid-1990s (Table 2). This trend continued in 2001, especially in the case of national banks, the leading ones posting double-digit growth in net profits, despite the downturn in global oil prices. Total assets and deposits of national banks also registered a sizable expansion, albeit at a slower pace relative to the previous year. Results reported for the first half of 2002 indicate that both national and foreign banks remained profitable with their asset quality registering further improvement.

Table 2. Banking Sector Soundness Indicators, 1996–2001 1/

(In percent, unless indicated otherwise)

| Commercial Banks and One Restricted Licensed Bank | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 |
|--|-------|-------|-------|-------|-------|------|
| Risk-weighted capital to asset ratio 2/ | 20.8 | 19.4 | 20.0 | 20.5 | 20.2 | 20.0 |
| Gross nonperforming loans/gross loans | 15.2 | 14.4 | 13.5 | 13.6 | 12.7 | 11.2 |
| Loan loss reserves/nonperforming loans | 88.6 | 89.6 | 89.5 | 86.1 | 86.0 | 88.5 |
| Return on assets (commercial banks) | 1.9 | 2.0 | 2.0 | 1.5 | 1.8 | 1.7 |
| Return on equity (commercial banks) | 17.1 | 18.3 | 17.7 | 12.8 | 14.9 | 14.6 |
| Total expenses to total revenues | 35.0 | 36.3 | 35.4 | 38.3 | 37.5 | 38.3 |
| Earnings per employeec (in millions of U.A.E. dirhams) | 0.25 | 0.27 | 0.28 | 0.23 | 0.27 | 0.31 |
| Liquid assets to total assets | 37.3 | 38.0 | 34.5 | 31.3 | 34.8 | 33.8 |
| Deposits as a percent of M2 | 92.2 | 92.2 | 91.7 | 90.7 | 92.1 | 93.3 |
| Foreign currency deposits as percent of M2 | 19.9 | 19.6 | 20.0 | 21.2 | 22.4 | 23.8 |
| Loans to private sector as percent of total deposits | 101.5 | 106.0 | 116.8 | 113.6 | 105.4 | 91.9 |
| Number of commercial banks | 46 | 46 | 47 | 47 | 47 | 47 |
| Local | 19 | 19 | 20 | 20 | 20 | 20 |
| Foreign | 27 | 27 | 27 | 27 | 27 | 27 |

Source: Central Bank of the United Arab Emirates.

1/ Includes commercial banks and one restricted licensed bank.

2/ Represents BIS Tier I plus Tier II capital.

8. The credit culture is gradually evolving from collateral-based lending toward the global trend of risk-based approach to assessing credit. The fact that counterparty credit risk from corporate lending by banks are secured almost fully by collateral—usually real estate—indicates that most corporate balance sheets are still not very transparent, with substandard accounting practices and poor corporate governance. However, banks are increasingly moving away from the traditional practice of “name lending” in favor of considering potential credits with proper credit risk assessment, thereby gradually making the use of collateral as a means only to mitigate risks.³ To this end, the CBU is currently implementing a comprehensive risk management module for banks that encompasses market risk, operational risk, credit risk, and corporate governance.⁴ In essence, full implementation of this risk review process of banks will result in enhanced banking supervision through an early warning system, while moving the operational underpinnings of the banking system to

³ According to the BIS guidance note on Credit Risk Management (July 1999), banks need to be mindful that the value of collateral may well be impaired by the same factors that have led to the diminished recoverability of the credit.

⁴ Implementation of comprehensive risk management was part of the FSAP recommendation.

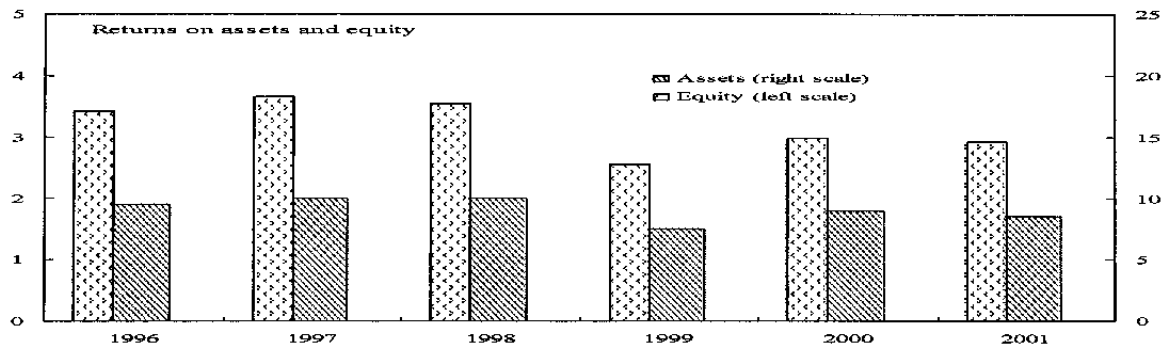
a relatively more risk-based platform. This program is expected to emerge from its current pilot stage to being fully operational by the first quarter of 2003.

9. Some of the other reforms in banking supervision that were part of the FSAP recommendations are ongoing. There is now a concerted effort to provide adequate lead time to banking and other supervisors as well as market participants, to ensure that significant structural changes can be safely and effectively implemented (e.g., the implementation of the AML/CFT legislation). However, reforms are lagging in the area of debt recovery through foreclosure of the underlying collateral in the case of loan default. With real estate being the most widely used collateral in the emirates except for Abu Dhabi,⁵ there is a general reluctance to take land away from the debtor or even go to court to resolve such issues. Therefore, the modernization and enforcement of the bankruptcy law remains an important agenda of reform for the authorities.

Profitability

10. Indicators of profitability since the mid-1990s have compared very favorably to international standards. Net profits of the banking system have averaged about 12 percent since 1996, while the return-on-assets (ROA) of national banks has ranged between 1 percent to 3 percent, and return-on-equity (ROE) from 10 percent to greater than 20 percent (Figure 2). Foreign banks in the United Arab Emirates have also had high profits, averaging about 20 percent a year during the same period. Accumulated profits of banks over the past years have bolstered the capital positions of banks. Banking sector stocks, which form a significant part of the stock market capitalization, have performed strongly since their listing in the formal exchanges, rising by 14 percent in 2001.

Figure 2. Returns on Assets and Equity for Commercial Banks, 1996–2001



Source: Central Bank of the United Arab Emirates.

⁵ All land in Abu Dhabi is government owned.

11. Net profits of commercial banks remained healthy in 2001. Aggregate data for national banks in the United Arab Emirates indicate that net profits grew by 8 percent in 2001, following a 12.5 percentage expansion in the previous year. Net profits of most foreign banks were also strong, although aggregate results showed a decline of 16.5 percent, driven mainly by the net losses of two large foreign banks, one of which increased its provisions for loan losses and wrote-off its bad loans from the Solo Industries debacle in 1999. The ROA for the banking sector as a whole registered 1.7 percent, while the ROE was 14.6 percent, a relatively good performance by international standards. Results from the first half of 2002 indicate that net profits grew by 11.5 percent and 40.9 percent on an annualized basis for national and foreign banks respectively.

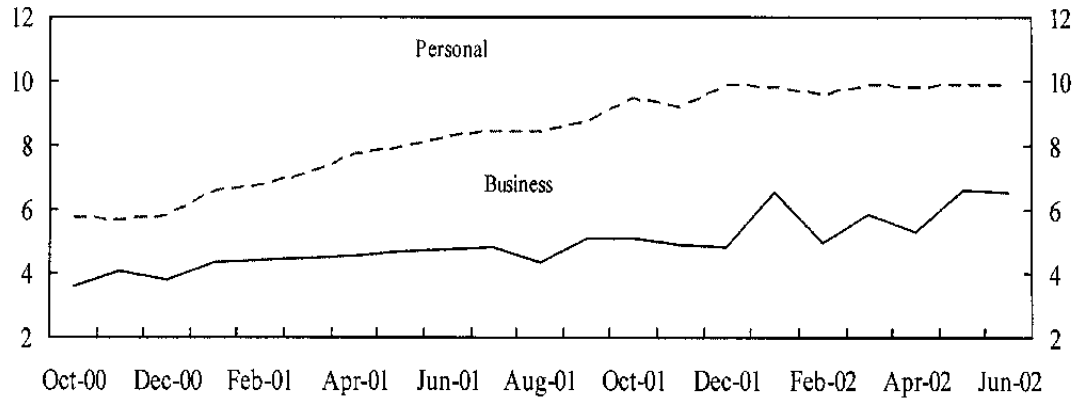
12. The banking sector has been able to sustain relatively high profits, despite a large number of banks serving the domestic market.⁶ Some of the factors that have helped U.A.E. banks to maintain their profitability are the following:

- Net interest margins at 2.5–3 percent over the past five years have been the primary reason for income. Margins for personal loans have risen as a result of increased loan demand, which has encouraged most banks to expand their business into retail banking (Figure 3).
- Revenue diversification is another new source of profits for the banking sector. Income from fee business has risen, indicating that sources of income other than interest margins are on the rise.
- Ample liquidity in the system from a stable deposit base has kept funding costs low, while banks have maintained their cost efficiency; the expatriate labor force still accounts for a significant portion of the total labor force in this sector.⁷
- Banks have taken advantage of new business opportunities in the area of consumer lending (credit cards and auto loans) where margins are attractive. The demand for consumer loans is supported by the high level of per capita GDP in the United Arab Emirates and the demographics of the maturing population. For example, foreign banks, such as Citibank, have aggressively expanded in the credit card business and several other local banks have followed suit.

⁶ Smaller banks are becoming more aggressive to gain market share, generating intense pressure on banks to make more efficient use of their capital.

⁷ The banking sector is the only one in the United Arab Emirates subject to mandatory measures to increase the percentage of nationals in their workforce—albeit flexibly applied. The expected increase will be 4 percent a year.

Figure 3. Interest Rate Spread Between Lending and Deposit Rates, October 2000–June 2002

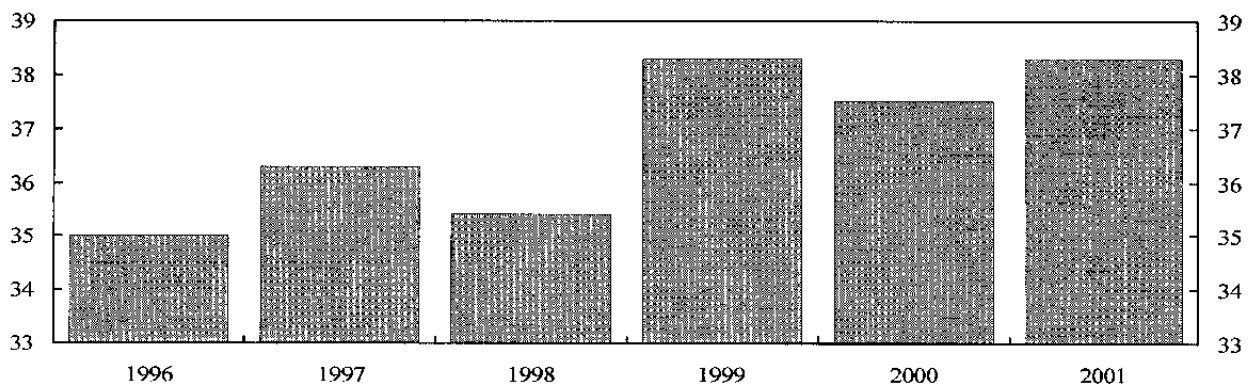


Source: Central Bank of the United Arab Emirates

13. Domestic loan demand has risen significantly in the past years. This rise reflects the opening up of the residential property sector to foreigners in Dubai, the rapid expansion of the free trade zones, the booming tourism industry, and several large private and public sector infrastructure project financing.

14. The flexible wage structure has delivered efficiency ratios that are among the lowest in the world. While total expenses to total revenues have been on the rise, primarily due to expenditures on new technology, the cost-to-income ratio is very competitive (Figure 4).

Figure 4. Total Expenses to Total Revenues, 1996–2001



Source: Central Bank of the United Arab Emirates.

15. U.A.E. banks have been quite successful so far in developing business from non-interest income business, in particular, commission income (Table 3; Figure 5). Owing to the competition in the domestic banking system, banks have increasingly diversified their

balance sheet into areas of investment banking, treasury and treasury-related services, wealth management through market-linked investment products to their retail customers and increased participation in syndicated lending. The U.A.E. banks are increasingly following their corporate clients in the area of investment banking by underwriting and providing advisory services on equity and debt financing, as well as providing facilities to trade securities. For example, the National Bank of Dubai and Emirates Bank International were co-managers in the Emirates Airlines local currency bond issue in 2001. Several banks are already offering wealth management products such as insurance, asset management, and mutual funds.

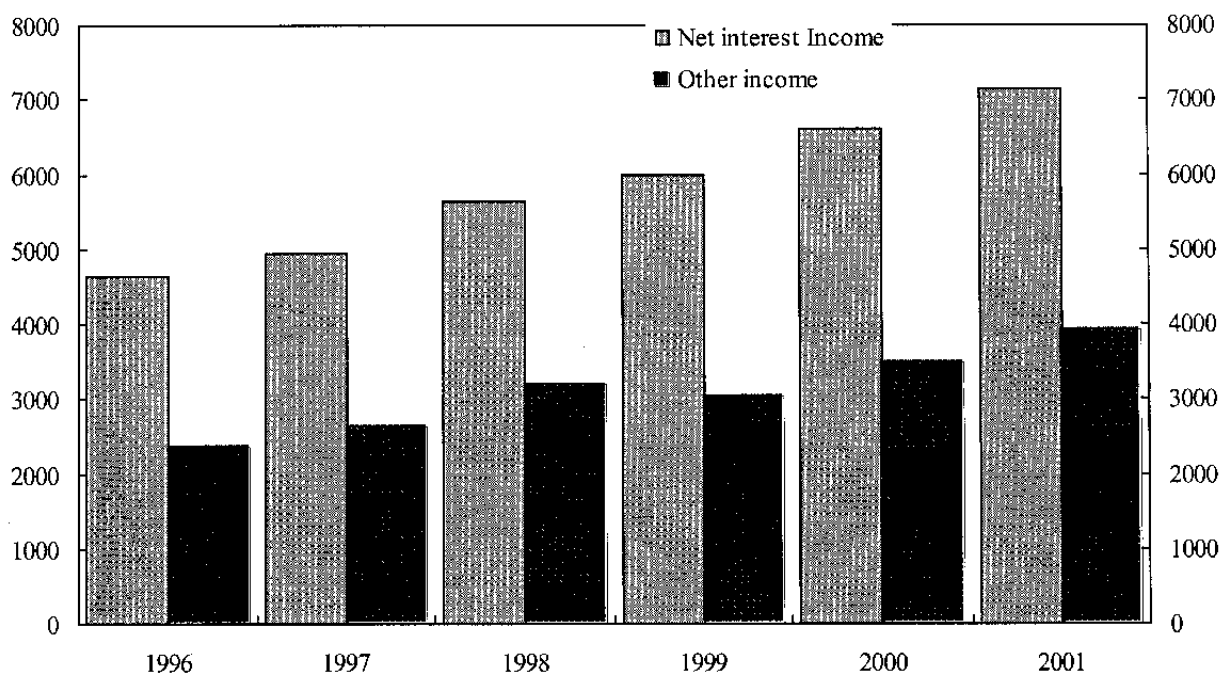
Table 3. Sectoral Loan Concentration Ratios, 1999–2002

(In percent of total loans)

| | 1999 | 2000 | 2001 | June 2002 |
|---|------|------|------|-----------|
| Agriculture | 1.1 | 1.2 | 1.0 | 0.9 |
| Mining and quarrying | 2.4 | 2.1 | 1.8 | 1.5 |
| Manufacturing | 6.6 | 7.0 | 6.2 | 6.2 |
| Electricity, gas, and water | 0.1 | 0.3 | 0.9 | 1.0 |
| Construction | 15.5 | 15.7 | 16.5 | 16.1 |
| Trade | 29.7 | 30.4 | 30.4 | 29.5 |
| Transportation, storage, and communication | 2.8 | 3.0 | 3.1 | 3.1 |
| Financial institutions (excluding banks) | 1.4 | 1.4 | 1.3 | 1.6 |
| Government | 11.9 | 9.1 | 7.3 | 7.4 |
| Personal loans for business and consumption | 22.4 | 23.0 | 24.9 | 25.4 |
| Business | 11.5 | 12.4 | 14.2 | 14.6 |
| Consumer | 10.9 | 10.6 | 10.7 | 10.8 |
| Others | 6.1 | 6.7 | 10.7 | 7.2 |

Source: Central Bank of the United Arab Emirates.

Figure 5. Sources of Bank Profits, 1996–2001



Source: Central Bank of the United Arab Emirates.

16. U.A.E. banks also have a strong funding profile and manage excess liquidity quite efficiently to maximize returns. Most of the banks have ready access to a relatively stable deposit base, supplemented by a low cost of funds. In particular, the top five national banks get large deposits from government entities, such as Abu Dhabi National Oil Company, that have high cash flows. The big five banks that usually have a high level of excess liquidity, have also adopted a proactive stance in efficiently managing this liquidity through well-run treasury operations. The treasury operations of the National Bank of Dubai, for example, contributed significantly to its overall profits in 2001, and during the first half of 2002, by adequately hedging against a low interest rate environment and actively reducing the reliance on the interbank market in the portfolio mix.

Capital adequacy

17. U.A.E. banks continued to remain well capitalized during 2001 and the first-half of 2002. The risk-weighted capital adequacy ratio (CAR) of the overall banking sector remaining stable at 20 percent, significantly above the 8 percent minimum BIS capital adequacy ratio and the 10 percent requirement set by the CBU. The high CAR has been sustained partly by high profitability (profit retention) of commercial banks in the United Arab Emirates. Additional capital was also raised in the stock exchange by two banks via new issuance of stocks.

Asset quality

18. The improved trend in the asset quality of the banks' portfolio has been a key development since the mid-1990s. The ratio of gross nonperforming loans (NPLs) to gross loans declined to 10.7 percent as of June 2002 from 15.2 percent in 1996 (Table 1). Given the strength of the prudential indicators of the entire banking system, the relatively high level of NPLs is partly due to the enhanced reporting requirements of NPLs, which date back to the 1980s. While most of these loans have not been written off, they are well provisioned for at close to 90 percent as of end-2001, mitigating the concern over the high NPL level. On this point, U.A.E. bankers seem generally reluctant to write down NPLs, because according to common practice in the country, once loans are written off, the legal basis for recovering any of these assets weakens considerably. To this end, it is worth noting that some of the claims by Mashreq Bank from the Solo Industries debt default have reportedly been recently recovered.

Sectoral distribution of credit

19. Credit activity to the private sector has been underscored by a significant increase in consumer and construction loans since the late 1990s. Consumer lending has largely been driven by personal business borrowings to fund small- to medium-sized enterprises, while other consumer loans, such as credit card loans, are on the rise as well. Other sectors that also contributed to the credit expansion were wholesale and retail trade as well as transportation and communication. However, credit to the manufacturing sector has declined over the past few years.

20. The shift in the lending profile of banks since the mid-1990s, with increased concentration in construction and consumer loans, has raised some market concerns because of the possible risk of default owing to an economic downturn.⁸ This concern, however, is mitigated by the strict implementation of existing regulations and their ongoing refinement by CBU's Banking Supervision Department. Under the current regulatory practice, most personal loans are secured or are backed by collateral in the form of securities, real estate, wages and deposits. Current regulations limit personal loans to Dh 250,000 and new personal loans are reported to the Risk Bureau, where a central database of individual loan portfolio is maintained on a consolidated basis. A mechanism to calibrate loan limits to certain parameters of repayment capabilities like salaries is currently under consideration. Also, regulations for lending to the construction sector have been recently tightened in that banks can now only lend up to 20 percent of customer deposits to the construction sector. Moreover, any potential large exposure, prior to advance, will have to be first submitted to the CBU for a detailed analysis of the underlying collateral and the project under

⁸ For example, Standard & Poor's Report (July 2002) on *Bank Industry Risk Analysis: United Arab Emirates* stated that "lending concentrations in the personal and construction sectors accentuate banks' risk profiles."

consideration.⁹ These ongoing refinements supplement already existing prudential regulations such as limits on large exposures and on-site inspections to verify that proper internal control systems are in place to identify and limit large exposures.

Liquidity

21. National banks in the United Arab Emirates are reasonably liquid, with a relatively stable deposit base and a high level of interbank placements in banks abroad. The fact that the United Arab Emirates is structurally a net creditor country with a fixed exchange rate has provided the banking system with a net accumulation of foreign assets, supporting its ample liquidity situation. Despite a decline in both oil prices and domestic interest rates, deposits of the banking system rose by 11 percent in 2001. This occurred while the net interbank placement of funds abroad as a proportion of total assets, which has steadily declined since mid-1990s, still constituted an important part of banks' liquidity cushion at 14 percent of total assets as of end-2001. The ratio of liquid assets to total assets remained high at about 34 percent in 2001, while the liquid asset to short-term liabilities increased to over 60 percent. Another indicator of liquidity, the loan to deposit ratio, also declined to about 75 in 2001 from 89 during the previous year.

Foreign exchange exposure and dealings

22. The share of foreign assets in the total assets of the banking sector has remained stable at about 35 percent since 1998. Commercial banks were able to build on their net foreign asset position in 2001, despite a lower balance of payments surplus and lower interest rates. The share of foreign currency-denominated private sector deposits in total private sector deposits largely remained stable in 2001. Most foreign exchange operations of U.A.E. national banks are in U.S. dollars, but these pose no imminent exchange rate risk given the United Arab Emirates' peg to the U.S. dollar exchange rate regime, which has lasted with only very minor adjustments since 1980, and is backed, by large official reserves and prudent macroeconomic policies. Exposure to foreign exchange risk in other currencies is limited, with the very low net foreign open foreign currency position in non-U.S. dollars.

Monetary policy, monetary instruments, and money markets

23. Given the fixed exchange rate arrangement, CBU conducts its monetary operations in an accommodative manner, whereby it stands ready to buy and sell any amount of U.S. dollars demanded at the announced official rate. Because of balance of payments surpluses, CBU has continued to build its net foreign assets by buying U.S. dollars mainly from the government and selling a large part of these funds primarily to commercial banks. The main

⁹ A large exposure is defined as lending of greater than 7 percent of a bank's capital to a single customer (defined as an individual, company, or group of companies under common ownership).

monetary instruments currently used by CBU to smooth out fluctuations are the certificates of deposits (CDs) to absorb liquidity and foreign exchange swaps to inject liquidity.

24. Although the domestic interbank market is very liquid, further measures to enhance the intermediation of the domestic money market are under way. The relatively short reserve compliance period has encouraged banks to actively participate in the interbank market to manage their liquidity positions. Nonetheless, to further improve the efficiency and effectiveness of the money market, the CBU is currently considering increasing the issuance of CDs at the longer end of the maturity spectrum of the yield curve. Further measures to facilitate the maturing process of money markets would hinge on developing more market-based instruments to complement the current use of deposits and loans in the domestic dirham interbank market. In this regard, the introduction of repos could potentially increase the liquidity in that market. Given that repos are short-maturity collateralized instruments, repo markets have a strong linkage with the securities market and other short-term money markets, thereby laying the foundation for the development of a domestic bond market.

25. The reserve requirement has not been actively used as a monetary instrument in recent years other than the adjustment made in January 2000, to encourage the repatriation of deposits held abroad by banks. The reserve ratio on time deposits was lowered from 2–5 percent to 1 percent, and the ratio for deposits (current, savings, and call accounts) was raised from 6–8 percent to 14 percent. In addition, banks were already required to hold 30 percent of net short-term dirham placements with the CBU. As a result of the change in reserve requirements, some repatriation of funds from overseas branches of U.A.E. banks has taken place. Nonetheless, authorities have chosen to consider all the deposits of U.A.E. residents booked in the overseas branches to be part of domestic liquidity. The rationale for this decision was based on their observation that almost all of the funds that were deposited in overseas branches, to circumvent the lower but still existing reserve requirement, found their way back to the domestic banking system.

D. Other Segments of the Financial Sector

Securities markets

26. The U.A.E. authorities have taken important steps to address the volatility and malpractices that plagued the local securities markets in 1997 and 1998. These include the enactment of Federal Law No. 4 of 2000 (Securities Law), the creation of the Emirate Securities and Commodities Authority (the Authority) for brokerage houses, investment funds and the stock exchanges in Dubai and Abu Dhabi. The Securities Law requires that all intermediaries, exchanges and clearance and settlement facilities be licensed by the Authority, in addition to all shares being listed on a licensed exchange.

27. There has been a marked increase in activity since the establishment of the Dubai Financial Market (DFM) and the Abu Dhabi Securities Market (ADSM) in March and November of 2000, respectively. While the formal exchanges have seen a significant rise in shares traded, trading volume, the number of trades made and market capitalization have

risen significantly, the activity in the non-listed companies that continue to be traded in the over the counter (OTC) market has seen a substantial decline during the same period. The number of listed companies in both stock exchanges has increased rapidly. Blue chip companies, such as Etisalat, have been listed to increase the depth and liquidity of the market. Out of the publicly traded companies, the banking sector has the largest contribution in terms of trading volume, followed by the insurance sector and the services sector in both the securities exchanges. The Emirates equity market index (Emnex) rose 25.6 percent in 2001 and a further 13.6 percent through end-October 2002, while total market capitalization of the DFM and the ADSM has risen from less than 20 percent of GDP in 2001 to over 35 percent of GDP as of end-September 2002 (Table 4).

Table 4. Securities Market Activity, 2000–02

(In millions of U.A.E. dirhams)

| | Abu Dhabi Securities Market | | | Dubai Financial Market | | |
|---|-----------------------------|--------|-----------|------------------------|--------|-----------|
| | 2000 | 2001 | Oct. 2002 | 2000 | 2001 | Oct. 2002 |
| Number of shares traded | 0.5 | 18.6 | 50.9 | 24.0 | 58.7 | 129.0 |
| Value of shares traded | 8.1 | 534.1 | 1,086.7 | 436.6 | 981.0 | 2,471.3 |
| Number of executed deals (In thousands of dirhams) | 0.202 | 5.7 | 9.1 | 6.6 | 13.6 | 23.0 |
| Market Capitalization | 14,000 | 21,205 | 70,923 | 28,391 | 28,925 | 33,244 |

Source: National authorities.

28. Securities regulation in the United Arab Emirates is at the early stage of development, although the establishment of the ASDM and the DFM has strengthened the regulatory structure and its implementation. The Authority has already issued several sets of regulations covering its own structure and the operations; the licensing of securities exchanges; the structure and operation of clearance and settlement facilities; the membership of the securities exchanges; disclosure and transparency; and the use of alternative dispute resolution in securities and commodities transactions. Nevertheless, further amendments to the existing laws and regulations are needed, in order to bring them in line with current best practices. Strengthening corporate governance environment also remains crucial. In this regard, improvements in corporate transparency and accounting standards need to be addressed expeditiously. For example, the nonbank sector is yet to migrate their accounting practices to the IAS39, while most listed companies except for banks do not yet report quarterly results.

The development of the bond market

29. The local debt market in the United Arab Emirates is in its nascent stages, although recently it has been enhanced by several bond issues in the local market (Box 2). However, trading in the secondary market is not very active with only one of the bonds listed in the

securities exchange market. Nonetheless, with more issuance in the pipeline, including the one by the Dubai government to fund infrastructure projects in 2003, activity in the bond market is expected to pick up in the period ahead.

| Issuer | Issued | Maturity | Amount |
|---------------|--------|----------|------------------|
| BMW | 1999 | 11/2002 | Dh 350 million |
| Abey National | 2000 | Called | Dh 400 million |
| Emirates | 2001 | 06/2006 | Dh 1,500 million |

Source: Central Bank of the United Arab Emirates.

30. Notwithstanding the encouraging trend in the bond market, several factors have inhibited its development in the United Arab Emirates. Some of them are as follows:

- The use of deposits and loans as the only instruments in the domestic dirham liquidity market has prevented the development of a repo market that is the key building block for debt markets.¹⁰
- Inadequate issuance of government securities to provide a reliable benchmark yield curve and the collateral generally used for repos.¹¹
- Lack of transparency in the balance sheet of various corporations to form adequate credit assessment.

¹⁰ An active repo market facilitates increased market activity in the OTC markets where most debt is traded. Without such collateralized borrowing arrangements, trading and position taking would have to resort to more expensive uncollateralized bank credit lines.

¹¹ Owing to the United Arab Emirates' relatively large foreign asset holdings, there has been no need to issue government debt. However, cities like Singapore and Hong Kong, despite generally running budget surpluses, governments are developing the local bond markets to diversify risk.

- Financial legislation is not at par with international standards to discipline financial disclosures and high standards of corporate governance.
- A major institutional investor in the National Pension Fund is largely absent from investing in the domestic bond market.

31. The motivation for developing debt markets, in the case of United Arab Emirates, would mainly be to make the functioning of financial markets more effective and diversify the undue dependence on the banking system for financial intermediation. The bond market could also allow banks to raise funds to finance projects that require longer term financing, thereby mitigating the possible asset-liability mismatches. Similarly, corporations could have the flexibility to finance the acquisition of long-term assets and fixed investment projects that are expected to yield returns only in the long term.

32. Another reason for developing the local bond market is to diversify the risk of sterilizing large inflows from oil into a wider spectrum. Currently, the sterilization of the large inflows from oil-related receipts, in the absence of a developed bond market, take place by the issuance of short-term papers by the CBU and the sizeable placement of short-term interbank deposits abroad by commercial banks. A liquid bond market could provide another conduit for risk diversification across the maturity spectrum, making liquidity management more efficient.

33. The development of capital markets would also provide opportunities for the significant pool of savings to be deployed into resources other than bank deposits. Institutional investors, including the National Pension Fund, other private pension funds, insurance companies, and asset management, would benefit from the development of capital market products.

Insurance

34. The insurance sector penetration in United Arab Emirates is one of the highest in the GCC. The FSAP report indicated that the insurance industry is well capitalized at the aggregate level, and there seemed to have been no systemic risk arising from the insurance industry to the banking sector. However, in contrast to the banking sector, the insurance sector is relatively small (though there are more than 50 companies), less systemically important, less developed, and inadequately supervised.

35. Several initiatives along the lines of the FSAP recommendations are currently being pursued. To this end, the Emirates Insurance Association (EIA), an organization originally set up to promote cooperation between member insurance companies and agencies, as well

raise insurance awareness, has intensified its efforts recently.¹² The EIA, in its unique capacity as a technical extension of the Ministry of Economy and Commerce (MOEC), has identified the key deficiencies in the insurance market, which include the Insurance Act of 1984, supervision and examination of the insurance sector, and the organization structure of the insurance industry. The EIA intends to recommend a very fundamental approach to reforming the insurance sector and not take a piecemeal approach. For example, the EIA has recommended that a separate and independent supervisory body be set up rather than just extend the staff of the Insurance Division of the MOEC, which goes beyond the FSAP recommendations.

E. Anti-Money Laundering and Combating the Financing of Terrorism

36. Several important steps have been taken in the past few years to address money laundering and financing of terrorist activities. The authorities established a Financial Intelligence Unit (FIU) in July 1998 (which was changed to the Anti-Money Laundering and Suspicious Cases Unit in November 2000), formed a National Anti-Money Laundering Committee in July 2000, and issued a circular in November 2000 to all financial institutions operating in the country to report suspicious transactions, scrutinize Letters of Credit and related documents, and stressed customer identification. Also, the CBU is in the process of registering and supervising the “hawaladars,” who are now required to provide details of remitters and beneficiaries as well as report suspicious transfers. In addition, authorities have extended full cooperation to other jurisdictions, including six investigation teams from the United States and other countries such as Germany, Pakistan, and the United Kingdom, some GCC countries, since September 11, to facilitate investigations relating to anti-money laundering and combating of terrorist financing.

37. The United Arab Emirates passed the Anti-Money Laundering Law (Federal Law No. 4) in January 2002, which criminalizes money laundering activity. This federal legislation fully incorporates the Financial Action Task Force’s FATF 40 recommendations and its 8 special recommendations dealing with terrorist financing. The Federal Law No. 4 also covers terrorism and money related to terrorism. It states that money originating from terrorists acts or vice versa is criminal money and subject to prosecution. The Federal Law empowers the CBU to issue freeze orders relating to funds that may be used to facilitate terrorism.

38. The National Anti-Money Laundering Committee was established in July 2000 to undertake the overall responsibility of coordinating the AML policy in the United Arab Emirates. This committee, headed by the CBU governor, is represented by the Ministry of Interior, Ministry of Finance and Industry, Ministry of Justice, Ministry of

¹² The Emirates Insurance Association was established in 1988 after a decree passed by the MOEC, which is the regulatory and supervisory authority for insurance companies and pensions.

Economy and Commerce, Islamic Affairs and Endowments, the U.A.E. Customs Council, the Secretariat General of Municipalities, the Chambers of Commerce and Industry, in addition to as observers, a large number of banks and the three main moneychangers as observers. The authorities have also strengthened the Anti-Money Laundering and Suspicious Cases Unit by increasing its number of members, financial resources and its technological capabilities. The U.A.E. FIU also became the first full member of the Egmont Group out of the GCC in January 2002, which is expected to facilitate information exchange among the group members which are all implementing AML legislation.¹³

39. The U.A.E. compliance level on AML was assessed by the Financial Action Task Force Mutual Evaluation Team. It concluded that the United Arab Emirates has put in place a comprehensive regime of anti-money laundering law and regulations. Moreover, the country has fully implemented all UN Security Council Resolutions in this area since 1999. Moreover, based on the responses to the AML/CFT questionnaire, the IMF has also assessed that the U.A.E. authorities have a well-developed and comprehensive AML/CFT system. The law is not only meant for licensed financial institutions, but also covers other financial, commercial, and economic establishments in the United Arab Emirates, while the list of predicate crimes covers all offenses referred to in international conventions to which the United Arab Emirates is a party.

II. LONG-TERM FISCAL DEVELOPMENTS, 1980–2001¹⁴

A. Introduction

40. Fiscal policy in the United Arab Emirates—a federation of seven emirates founded in 1971—is decentralized. This reflects the complexity of the country’s political structure, with each emirate retaining considerable political, judicial, financial, and economic autonomy. In addition, sharp disparities in resource endowments among the emirates have resulted in variations in the scale, level, and composition of spending and revenue, as well as fiscal trends, with the fiscal activities of the Emirate of Abu Dhabi being by far the largest and most important in the country.¹⁵ Moreover, over time, the emirates have transferred some

¹³ Since 1995, a number of the FIUs began working together in an informal organization known as the Egmont Group to provide a forum for FIUs to improve support to their respective national anti-money laundering programs by systematizing the exchange of financial intelligence.

¹⁴ This chapter was written by John Wilson, Hamid Davoodi, and Ugo Fasano (all MED).

¹⁵ In the second-half of the 1990s, Abu Dhabi’s own spending and revenue (i.e., spending net of intergovernmental grants) accounted for about 60 and 75 percent of consolidated government spending and revenues, respectively.

activities, such as defense, to the federal government. As a result, the budget of the federal government is now the second most important.¹⁶

41. U.A.E. fiscal statistics are beset with important shortcomings. Although these vary across emirates, the following ones can be highlighted: incomplete coverage of fiscal accounts such as investment income from government savings, off-budget activities (e.g., expenditures under control of the Rulers' Offices and municipalities, and debt), no information on financing of the budget, double counting of some government activities, and lack of full adherence to international standards for classification of government expenditures and revenues.

42. This chapter compiles fiscal data over a long period (1980–2001) at various levels of aggregation. It then assesses long-term trends and cross-emirate variation in the fiscal structure, as well as the evolution of the United Arab Emirates' overall fiscal and non-hydrocarbon balances over the period.¹⁷ Data for this chapter were in part assembled from IMF documents extending back to the 1980s, and cover accounts of the federal government and the largest four emirates (Abu Dhabi, Dubai, Sharjah, and Ras Al Khaimah). The consolidated fiscal balance represents a combination of the federal government and these four emirates, including estimated investment income on official foreign assets of Abu Dhabi.

B. Quality of Fiscal Data

43. The fiscal data used in this chapter has been compiled with the intention of addressing some of the shortcomings mentioned above.¹⁸ First, an effort was made to ensure continuity of the component fiscal series, as well as consistency in compilation, detail, and definitions. For instance, the prominence role of "Abu Dhabi federal services" has changed over time, and investment income, that is, income earned on government external assets, was missing for much of the 1980s. Second, the data on the consolidated accounts now net out intergovernmental grants. Until recently, however, the authorities' presentation of the consolidated accounts double-counted these grants—though intergovernmental grants need to

¹⁶ Dubai government activities are only about one-fifth the scale of Abu Dhabi's and one-half that of the federal government. Sharjah, in turn, is only a fraction of Dubai. Ras Al Khaimah and the other Northern Emirates rapidly diminish in fiscal scale toward *de minimus* levels. Fiscal statistics for the other three emirates are not available; but due to their relative small size, their exclusion does not significantly hamper the analysis.

¹⁷ See Chapter III for a framework and a detailed discussion of the relevance of non-hydrocarbon fiscal balance for the United Arab Emirates.

¹⁸ See the accompanying staff report on statistical issues regarding fiscal and other data.

be included for each level of government.¹⁹ Third, an important issue for the United Arab Emirates is that investment income is missing from the official fiscal accounts. Excluding this income from official fiscal statistics provides a misleading picture of the fiscal stance and hampers macroeconomic assessment. In the absence of direct information on investment income, the data in this chapter therefore include Fund staff estimates. These estimates are derived in such a way that they are consistent with the level of official government external asset holdings as provided recently by the authorities to the IMF staff.²⁰

C. Fiscal Structure

44. The differences in the revenue structure among the emirates and the federal government reflect the wide disparities in resource endowments and sources of revenue, including the ability to impose fees and charges. The federal government depends largely on grants from Abu Dhabi and Dubai for its budget, though fees and charges have increased rapidly in the past years—the federal government does not hold foreign assets and has no access to domestic or external financing. Oil revenue and investment income account for most of Abu Dhabi government receipts. Oil revenue remains the most importance source of Dubai government revenue, even though non-hydrocarbon activities account for more than 70 percent of the emirate’s GDP. Despite efforts to broaden the revenue base in the 1990s, the United Arab Emirates’ dependence on oil has increased from 54 percent of total consolidated revenues in the 1980s to 57 percent in the 1990s through 2001.

45. Some similarities exist in the expenditure structure across emirates. Current spending currently represents more than 60 percent of the total in the emirates and close to 95 percent in the federal government. The wage bill (excluding military personnel) and goods and services account for much of this spending in Dubai and Sharjah as well as the federal government. In contrast, the wage bill only represents about 4 percent of total spending in the emirate of Abu Dhabi, and grants to the federal government, 17 percent. Expenditures on subsidies and transfers as well as defense have become the largest spending items,

¹⁹ Recorded “grants” in the U.A.E. fiscal accounts are in part cash contributions by Abu Dhabi and Dubai to the federal government. There are also some Abu Dhabi expenditures that are “attributed” to federal activities. To the extent such activities are acknowledged in the federal accounts, the income flow has been netted down in the consolidated totals. Abu Dhabi defense and internal security outlays—also regarded as “federal services” by the emirate—are not netted out, because they are not recorded in the federal accounts as “revenue.”

²⁰ U.S. dollar short-term LIBOR rates were used from the early 1980s to approximate income flows that pertain to Abu Dhabi’s fiscal accounts. The exercise was conducted so that asset stocks near the end of the period converged with the information provided by the authorities. However, the implicit path of assets derived for the 1980s and most of the 1990s may diverge from actual market values in each year.

accounting for close to 45 percent of total spending (including grants) in Abu Dhabi. In all emirates, following the completion of important infrastructure projects, development expenditures declined significantly during the 1980s. Although, they have recovered since the early 1990s, development outlays reached about 5 percent of GDP of consolidated spending in 2001. Among other long-term characteristics of the budgets, one can note that the current fiscal balance, which provides a measure of the government's contribution to national savings, in the federal government and emirates has always recorded a surplus over the past two decades.²¹

D. The Performance of the Consolidated Fiscal Accounts

46. Several broad trends are evident from 1980–2001 (Table 5). Reflecting diversification efforts, non-hydrocarbon receipts (excluding investment income) have increased over the years—albeit from a low base. Fees and charges are the main source of non-hydrocarbon revenue, followed by income taxes (on foreign banks and gas companies) and profit transfers. Customs revenue only accounts for about 10 percent of the total owing to low level of import tariffs. Although the share of non-oil revenues (excluding investment income) in the total has not changed much over the past two decades, these revenues have accompanied the rapid growth in non-oil GDP, averaging about 11 percent of non-oil GDP a year during much of the 1990s. Despite the rising importance of these revenues, total government revenue has fluctuated sharply over the years because of continued high dependence on oil. In fact, in the late 1990s, the level of total revenue was slightly higher than the level reached in the early 1980s, implying a sharp decline in real terms and in percent of GDP. Meanwhile, investment income has been a far more important source of revenue in the 1980s about 20 percent of GDP, as compared with 10 percent in the 1990s.

47. Consolidated expenditures have more than doubled in nominal terms over the past two decades.²² Current expenditures have roughly tripled. The largest percent increase was Abu Dhabi “federal services,” which mostly comprise defense spending (the latter reached about 11 percent of GDP in 2001). Also, subsidies and transfers have practically doubled since 1997. In contrast, development outlays have not presented a clear trend during much of the 1990s.

48. Reflecting these changes in revenues and expenditures, the consolidated fiscal balance deteriorated in the 1990s. While recording a surplus (including investment income) from 1980–92, in the following years through 2001, the consolidated fiscal balance switched to a deficit, except in 1997 and 2000 (Table 5). Despite this deterioration, the non-

²¹ The current fiscal balance represents the difference between total revenue and current expenditures.

²² After peaking at almost 48 percent of GDP in 1991, total spending averaged 39 percent of GDP in the 1990s.

hydrocarbon deficit (including investment income) shows that fiscal policy remained in line with international economic objectives through 2000.²³ With average global prices of almost \$26 per barrel in the 1980s, the non-hydrocarbon deficit was relatively low, averaging Dh 15.3 billion a year (about 15 percent of GDP)—that is, government consumption could have been much higher than it actually was. Thus, with an average consolidated fiscal surplus equivalent to 11 percent of GDP a year in that decade, the United Arab Emirates was clearly able to accumulate sizable government assets. In the 1990s, with oil prices declining, on average, to about \$19 per barrel, the non-hydrocarbon deficit more than doubled in nominal terms, though this deterioration compares to a period of relatively low government consumption.²⁴ The increase in expenditure in the 1990s was matched by rising revenue from fees and charges and rising investment income, leading, after an initial jump in 1990, to a relatively stable nominal non-hydrocarbon deficit (at about Dh 37 billion) through 2000. The consolidated fiscal deficit averaged 0.7 percent of GDP from 1990–2000. Nevertheless, in 2001, the non-hydrocarbon deficit surged to Dh 62 billion (equivalent to 24 percent of GDP), indicating that at that level, the current fiscal appears to be unsustainable, as well as out of line with international economic equity objectives (see Chapter III for further details).

E. Fiscal Performance of the Federal Government

49. The federal budget has become more important over time with the transfer of some fiscal activities. There are currently 16 federal ministries, among them defense; agriculture and fisheries; economy and commerce; planning; health; education; labor and social affairs; and foreign affairs. Federal spending currently accounts for about 22 percent of consolidated expenditures. Grants from Abu Dhabi and Dubai represent about 65 percent of total revenue, while fees and charges (largely from expatriates) make up almost 25 percent. Federal receipts from “enterprise profits” have risen in recent years—these mainly represent profits from the central bank and the telecommunications government monopoly, Etisalat (Table 6).

50. Over the years, the composition of spending has shifted toward wages and transfer and away from goods and services. The increase in the wage bill (which accounts for 35 percent of total spending) reflects the key role played by the federal government to provide employment to Emirati nationals, particularly from the northern poor emirates. It also reflects the hiring of teachers and health workers to keep up with the rapid increase in population. The federal authorities are currently engaged in increasing expenditure efficiency and reducing the overall wage costs. Recent steps taken include labor saving innovations such as “e-government” and “e-dirham” transactions (for fees, charges, and permits) and,

²³ The non-oil fiscal balance is a better indicator of underlying fiscal trends in oil-dependent economies than the traditional overall fiscal balance because it abstracts from the volatility in oil prices and revenue.

²⁴ In percent of GDP, the non-hydrocarbon deficit (excluding investment income) remained relatively stable in the 1980s and 1990s (at about 34 percent).

beginning in 2001, the privatization of various services provided to the federal public sector. Since the federal government has no financing options, its expenditure trajectory must follow revenues rather closely. Thus, ex post, the federal fiscal balance has generally recorded a surplus or a very small deficit.

F. Fiscal Performance of Abu Dhabi

51. Endowed with most of the United Arab Emirates' natural resources, the Emirate of Abu Dhabi is the federation's fiscal heavyweight. Oil income dominates Abu Dhabi's revenue structure. Indeed, in the second-half of the 1990s, this source made up about 60 percent of total revenue, even higher than the 54 percent in the first-half of the 1980s (Table 7).²⁵ Investment income—the second most important source of revenue in the emirate—has proved to be as volatile as oil receipts, ranging, according to staff estimates, between Dh 9–25 billion over the past two decades. Non-hydrocarbon revenues (excluding investment income) has, however, increased over the years, though they continue to account for less than 10 percent of total revenue. This increase is mainly accounted for by a rise in income taxes, but it must be noted these taxes are derived exclusively from natural gas companies (e.g., ADGAS). Thus, almost all of Abu Dhabi's budget revenue is still associated with hydrocarbon activities.

52. Abu Dhabi's total expenditures have more than doubled, and current expenditures have risen almost seven-fold since the early 1980s. Indeed, current expenditures have expanded rapidly to about 60 percent of total outlays from only about 20 percent in earlier years. This has occurred mainly at the cost of grants both to the federal government and foreign grants. In terms of their role in Abu Dhabi's expenditures, federal grants (excluding defense services) have fallen from 50–60 percent of the emirate's outlays, though they still account for roughly 20 percent of the total.

53. Composition of recurrent spending has changed over the period. Apart from the grant element to the federal government for defense, discussed earlier, spending on goods and services and on wages and salaries has contracted while those on subsidies and transfers have increased sharply. The rise in Abu Dhabi's subsidies and transfers is noteworthy.²⁶ In recent years these outlays have been focused on power and utilities (even after creation of the Abu Dhabi Water and Electricity Authority—ADWEA). Considerable funds have also been

²⁵ This income is a mixture arising from royalties, taxes (on ADNOC, as well as on foreign companies), and many individual concession agreements, so that responsiveness to spot hydrocarbon prices is somewhat complicated.

²⁶ These were, especially in the 1980s, termed "compensation and transfers," reflecting payments for land appropriated by the government for public projects. The surge of subsidies and transfers in 1996 was in connection with obligations arising from the liquidation of a bank (BCCI).

spent in support of agriculture. Subsidies and transfers from Abu Dhabi reached almost 6 percent of GDP in 2001. The diminished shares of wages and salaries and goods and services in total current expenditures mask the fact that in nominal terms, the former doubled and the latter roughly tripled over the past two decades. Development expenditures almost doubled over these years, with both water and electricity and other infrastructure sharing in the increase. They accounted for 14 percent of total spending in 2001, significantly below the importance of subsidies and transfers. The emirate's overall balance has switched from a surplus from 1980–90 to a deficit through 2001 (except in 1997 and 2000), ranging from 2-5.5 percent of GDP.

G. Fiscal Performance of Dubai and Sharjah

54. At the outset, two observations should be noted. First, the smaller emirates seem to face fiscal constraints similar to the federal government. Some kind of budget equilibrium is required on a high frequency basis because they do not hold external assets that could be drawn down—though at times, they have borrowed from local banks to finance fiscal deficits.²⁷ Second, fiscal data from Dubai and Sharjah suffer from various classification problems that hinders a full assessment of their fiscal developments.²⁸

55. More than half of Dubai's revenues are classified as oil and gas. Another important portion is trade-related, owing to Dubai's prominent international commercial activities, especially through its various free zones (Table 8). Similar to other levels of government, current expenditures account for about two-thirds of total outlays—having risen from less than a third in the early 1980s—and the wage bill represents approximately half of these outlays. Dubai also makes significant development expenditures, including the municipality and water and electricity sector.²⁹ In addition, it also makes regular cash contributions to the federal government. Fiscal accounts show overall balances close to zero, or in recent years, relatively small deficits that have averaged 0.3 percent of GDP from 1995–2001.

56. Further analysis of the Dubai fiscal accounts is problematic, in part because of significant classification problems. Financial activities in the emirate interact with activities of the Ruler's Court, and the lines defining and separating various revenues and expenditures, and operations from financing, are not very clear. As examples, "oil and gas" income booked by the Dubai Finance Department are those revenues passed along to the department by the Ruler's Court under that rubric, and the exact connection to oil and gas

²⁷ Government debt to the local banking system remains small, at less than 5 percent of GDP by end of 2001.

²⁸ However, the assessment of consolidated fiscal developments is not much affected because of these data issues in the smaller emirates.

²⁹ Unlike Abu Dhabi, Dubai has not moved to privatize its Electricity and Water Authority (DEWA). Development expenditures have fluctuated close to Dh 2 billion for many years.

operations is not specified. Customs revenue may include income received from Jebel Ali and other free zones. Various loans and amortizations with the banking system appear to be mixed in with “other revenues and expenditures.” Finally, many utilities-related transactions with the Dubai Water and Electricity Authority (DEWA) are missing, because according to officials, these are settled in an off-budget account.

57. Similar problems hamper a full analysis of the Sharjah Finance Department accounts (Table 9). Here, too, ad hoc operations with and support from the Ruler’s Court appear to be included in some line items; current and development outlays are somewhat entangled; support for water and electricity operations is not included in the statements; and Sharjah Municipality accounts are off-budget. In addition, debt service is also off-budget.³⁰

H. Conclusion

58. Long-term trends appear to indicate that the U.A.E. authorities have adopted until recently a fiscal policy in line with intergenerational economic objectives. This policy has resulted in fiscal savings over the past two decades. However, the consolidated and non-hydrocarbon balances have deteriorated significantly since 2001, owing mainly to higher expenditures. The authorities cannot rely with confidence on upturns in world oil prices and on a turnaround in returns on financial assets to improve the fiscal position in the years ahead. Cuts in spending and a broadening of the revenue base—in the long run, the adoption of a federal tax system could be an important step towards broadening the revenue—are in order to restore fiscal discipline. Abu Dhabi (and to some extent the federal government because of importance of grants from Abu Dhabi in its revenue), as the largest and richest emirate, will have to bear responsibility for many of the initiatives needed to address the recent deterioration in the fiscal accounts. Without adjustment measures, in particular cuts in subsidies, the authorities might need to liquidate foreign assets and/or incur debt. Finally, the U.A.E. fiscal statistics could benefit from greater transparency, consistency, as well as adoption of internationally accepted classification of fiscal revenues and expenditures.

³⁰ Dubai Municipality is included in the emirate’s fiscal accounts.

Table 5. United Arab Emirates: Consolidated Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---------------------------------------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|
| Total revenue | 62,114 | 70,945 | 58,358 | 45,328 | 47,292 | 41,486 | 34,367 | 38,582 | 38,820 | 47,843 | 58,605 |
| Hydrocarbon | 44,597 | 45,913 | 34,709 | 26,475 | 24,531 | 22,557 | 15,368 | 17,769 | 16,650 | 22,913 | 34,034 |
| Non-hydrocarbon | 17,517 | 25,032 | 23,649 | 18,853 | 22,761 | 18,929 | 18,999 | 20,813 | 22,170 | 24,930 | 24,571 |
| Customs | 319 | 405 | 254 | 225 | 438 | 378 | 318 | 201 | 174 | 178 | 200 |
| Profit transfers | 0 | 0 | 0 | 0 | 0 | 0 | 1,931 | 1,790 | 679 | 34 | 389 |
| Income tax | 234 | 244 | 188 | 146 | 141 | 131 | 0 | 0 | 0 | 0 | 0 |
| Fees and charges | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Investment income 1/ | 16,965 | 24,383 | 23,207 | 18,482 | 22,182 | 18,420 | 15,284 | 16,288 | 18,296 | 21,259 | 20,113 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 1,466 | 2,534 | 3,021 | 3,459 | 3,869 |
| Total expenditure and grants | 36,887 | 46,138 | 43,576 | 35,118 | 31,146 | 32,417 | 34,354 | 35,920 | 34,321 | 36,647 | 50,537 |
| Current expenditure | 18,527 | 22,270 | 22,793 | 21,490 | 20,841 | 22,797 | 24,766 | 28,911 | 28,654 | 30,452 | 32,202 |
| Wages and salaries | 4,539 | 5,149 | 5,960 | 6,272 | 6,417 | 6,974 | 6,993 | 7,267 | 7,513 | 8,852 | 8,989 |
| Goods and services | 10,921 | 12,397 | 13,444 | 13,107 | 12,595 | 14,293 | 10,992 | 11,083 | 10,679 | 11,805 | 14,211 |
| Abu Dhabi federal services 2/ | 348 | 59 | 718 | 426 | 555 | 264 | 2,616 | 3,279 | 3,194 | 4,010 | 3,562 |
| Subsidies and transfers | 2,719 | 4,665 | 2,671 | 1,685 | 1,274 | 1,266 | 1,573 | 1,574 | 1,500 | 1,590 | 4,143 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 2,592 | 5,708 | 5,768 | 4,195 | 1,297 |
| Development expenditure | 8,294 | 9,509 | 10,227 | 8,499 | 6,452 | 6,907 | 6,115 | 5,370 | 4,523 | 4,913 | 5,374 |
| Loans and equity (net) | 3,915 | 7,634 | 5,549 | 3,864 | 1,696 | 1,434 | 1,813 | 90 | 575 | -27 | 5,622 |
| Domestic | 2,585 | 2,203 | 2,348 | 1,152 | 1,813 | 254 | 1,114 | 111 | 436 | 64 | 517 |
| Foreign | 1,330 | 5,431 | 3,201 | 2,712 | -117 | 1,180 | 699 | -21 | 139 | -91 | 5,105 |
| Foreign grants 3/ | 6,151 | 6,725 | 5,007 | 1,265 | 2,157 | 1,279 | 1,660 | 1,549 | 569 | 1,309 | 7,339 |
| Abu Dhabi | 6,151 | 3,878 | 2,385 | 939 | 1,275 | 900 | 1,445 | 1,249 | 341 | 975 | 6,950 |
| Federal | 0 | 2,847 | 2,622 | 326 | 882 | 379 | 215 | 300 | 228 | 334 | 389 |
| Overall balance | 25,227 | 24,807 | 14,782 | 10,210 | 16,146 | 9,069 | 13 | 2,662 | 4,499 | 11,196 | 8,068 |
| (In percent of GDP) | 23.0 | 20.5 | 13.1 | 9.9 | 15.8 | 9.0 | 0.0 | 3.0 | 5.1 | 10.9 | 6.5 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 43,587 | 48,675 | 35,565 | 23,838 | 26,451 | 18,689 | 9,601 | 9,671 | 10,166 | 17,391 | 26,403 |
| (In percent of GDP) | 39.7 | 40.2 | 31.6 | 23.1 | 25.9 | 18.6 | 12.1 | 11.1 | 11.4 | 17.0 | 21.4 |
| Non-hydrocarbon balance | -19,370 | -21,106 | -19,927 | -16,265 | -8,385 | -13,488 | -15,355 | -15,107 | -12,151 | -11,717 | -25,966 |
| (In percent of GDP) | -17.6 | -17.4 | -17.7 | -15.8 | -8.2 | -13.4 | -19.3 | -17.3 | -13.7 | -11.4 | -21.0 |
| Hydrocarbon revenue/total revenue | | | | | | | | | | | |
| (In percent) | 71.8 | 64.7 | 59.5 | 58.4 | 51.9 | 54.4 | 44.7 | 46.1 | 42.9 | 47.9 | 58.1 |
| Current expenditure/total expenditure | | | | | | | | | | | |
| (In percent) | 50.2 | 48.3 | 52.3 | 61.2 | 66.9 | 70.3 | 72.1 | 80.5 | 83.5 | 83.1 | 63.7 |
| Total expenditure/GDP (In percent) | 33.6 | 38.1 | 38.7 | 34.0 | 30.4 | 32.3 | 43.2 | 41.1 | 38.6 | 35.8 | 40.9 |

Table 5. United Arab Emirates: Consolidated Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|---------------------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|----------------------|
| Total revenue | 61,766 | 56,214 | 48,826 | 50,036 | 57,434 | 65,091 | 70,493 | 61,425 | 64,200 | 99,991 | 82,480 |
| Hydrocarbon | 38,715 | 37,212 | 32,044 | 28,694 | 32,033 | 37,007 | 41,140 | 25,500 | 28,054 | 56,020 | 48,526 |
| Non-hydrocarbon | 23,051 | 19,002 | 16,782 | 21,342 | 25,401 | 28,084 | 29,353 | 35,925 | 36,146 | 43,971 | 33,954 |
| Customs | 245 | 310 | 323 | 606 | 1,335 | 1,427 | 1,676 | 1,821 | 1,886 | 1,779 | 1,846 |
| Profit transfers | 720 | 4,241 | 1,453 | 1,723 | 1,411 | 2,189 | 2,652 | 3,051 | 3,462 | 3,936 | 3,384 |
| Income tax | 1,737 | 1,428 | 1,688 | 1,121 | 1,955 | 3,302 | 2,925 | 1,679 | 2,179 | 4,124 | 3,329 |
| Fees and charges | 1,128 | 1,592 | 2,280 | 2,980 | 3,872 | 4,669 | 5,039 | 5,554 | 4,581 | 4,173 | 5,120 |
| Investment income 1/ | 15,186 | 9,849 | 8,867 | 12,632 | 14,817 | 13,442 | 13,580 | 18,489 | 19,234 | 25,373 | 15,625 |
| Other | 4,035 | 1,582 | 2,171 | 2,280 | 2,011 | 3,055 | 3,481 | 5,331 | 4,804 | 4,586 | 4,650 |
| Total expenditure and grants | 59,438 | 51,396 | 55,068 | 57,946 | 60,756 | 74,080 | 64,101 | 71,730 | 75,538 | 84,348 | 96,083 |
| Current expenditure | 33,034 | 38,012 | 40,732 | 41,251 | 42,102 | 58,995 | 47,420 | 51,487 | 57,930 | 71,247 | 77,372 |
| Wages and salaries | 9,853 | 10,010 | 10,449 | 10,779 | 11,823 | 12,655 | 13,138 | 12,533 | 13,224 | 13,962 | 14,360 |
| Goods and services | 13,735 | 14,265 | 16,007 | 15,833 | 17,594 | 18,259 | 18,993 | 19,657 | 22,616 | 23,385 | 23,582 |
| Abu Dhabi federal services 2/ | 3,360 | 5,870 | 9,696 | 10,108 | 7,190 | 8,584 | 7,774 | 10,876 | 11,899 | 19,440 | 19,082 |
| Subsidies and transfers | 3,041 | 6,984 | 4,187 | 4,122 | 5,399 | 19,343 | 7,098 | 8,017 | 9,849 | 13,945 | 19,716 |
| Other | 3,045 | 882 | 393 | 409 | 95 | 154 | 418 | 404 | 342 | 516 | 632 |
| Development expenditure | 7,170 | 9,584 | 11,362 | 11,745 | 12,017 | 10,261 | 10,912 | 13,987 | 13,765 | 11,230 | 13,280 |
| Loans and equity (net) | 1,791 | 1,532 | 1,657 | 3,997 | 5,663 | 4,035 | 4,566 | 5,047 | 2,435 | 652 | 4,507 |
| Domestic | 1,505 | 1,294 | 1,725 | 4,067 | 5,713 | 4,141 | 4,587 | 2,867 | 2,564 | 714 | 903 |
| Foreign | 286 | 238 | -68 | -70 | -50 | -106 | -21 | 2,180 | -129 | -62 | 3,604 |
| Foreign grants 3/ | 17,443 | 2,268 | 1,316 | 953 | 974 | 789 | 1,203 | 1,209 | 1,408 | 1,219 | 924 |
| Abu Dhabi | 17,213 | 2,233 | 1,278 | 665 | 700 | 751 | 983 | 1,045 | 1,361 | 1,071 | 664 |
| Federal | 230 | 35 | 38 | 288 | 274 | 38 | 220 | 164 | 47 | 148 | 260 |
| Overall balance | 2,329 | 4,819 | -6,242 | -7,910 | -3,322 | -8,989 | 6,392 | -10,305 | -11,338 | 15,643 | -13,603 |
| (In percent of GDP) | <u>1.9</u> | <u>3.7</u> | <u>-4.8</u> | <u>-5.6</u> | <u>-2.1</u> | <u>-5.1</u> | <u>3.4</u> | <u>-5.8</u> | <u>-5.6</u> | <u>6.0</u> | <u>-5.3</u> |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 28,733 | 18,203 | 8,093 | 8,785 | 15,332 | 6,095 | 23,073 | 9,938 | 6,270 | 28,744 | 5,108 |
| (In percent of GDP) | <u>23.1</u> | <u>14.0</u> | <u>6.2</u> | <u>6.3</u> | <u>9.8</u> | <u>3.5</u> | <u>12.2</u> | <u>5.6</u> | <u>3.1</u> | <u>11.1</u> | <u>2.0</u> |
| Non-hydrocarbon balance | -36,386 | -32,393 | -38,286 | -36,604 | -35,355 | -45,996 | -34,748 | -35,805 | -39,392 | -40,377 | -62,129 |
| (In percent of GDP) | <u>-29.2</u> | <u>-24.9</u> | <u>-29.2</u> | <u>-26.1</u> | <u>-22.5</u> | <u>-26.1</u> | <u>-18.3</u> | <u>-20.3</u> | <u>-19.4</u> | <u>-15.6</u> | <u>-24.2</u> |
| Hydrocarbon revenue/total revenue | | | | | | | | | | | |
| (In percent) | 62.7 | 66.2 | 65.6 | 57.3 | 55.8 | 56.9 | 58.4 | 41.5 | 43.7 | 56.0 | 58.8 |
| Current expenditure/total expenditure | | | | | | | | | | | |
| (In percent) | 55.6 | 74.0 | 74.0 | 71.2 | 69.3 | 79.6 | 74.0 | 71.8 | 76.7 | 84.5 | 80.5 |
| Total expenditure/GDP (In percent) | <u>47.7</u> | <u>39.5</u> | <u>42.0</u> | <u>41.2</u> | <u>38.7</u> | <u>42.0</u> | <u>33.8</u> | <u>40.7</u> | <u>37.2</u> | <u>32.6</u> | <u>37.4</u> |

Sources: National authorities; and IMF staff estimates.

1/ IMF staff estimates.

2/ Mainly defense and internal security outlays.

3/ Intergovernmental grants are excluded in the consolidated accounts.

Table 6. United Arab Emirates: Federal Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---------------------------------------|---------|---------|--------|--------|---------|--------|--------|--------|--------|--------|---------|
| Total revenue and grants | 22,033 | 23,469 | 15,721 | 14,351 | 14,263 | 15,524 | 12,777 | 13,257 | 12,590 | 12,738 | 15,282 |
| Revenues | 298 | 579 | 493 | 727 | 1,313 | 1,062 | 1,931 | 2,752 | 1,792 | 1,396 | 2,334 |
| Enterprise profits | 0 | 0 | 9 | 31 | 563 | 342 | 1,231 | 2,052 | 1,012 | 506 | 1,294 |
| Electricity and water | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 | 78 | 91 |
| Other fees and charges | 298 | 579 | 484 | 696 | 750 | 720 | 700 | 700 | 705 | 812 | 949 |
| Grants from Emirates | 21,735 | 22,890 | 15,228 | 13,624 | 12,950 | 14,462 | 10,846 | 10,505 | 10,798 | 11,342 | 12,948 |
| Abu Dhabi | 18,735 | 18,890 | 12,661 | 10,887 | 10,100 | 11,912 | 9,361 | 9,605 | 9,753 | 10,262 | 11,748 |
| Cash contributions | 8,381 | 7,326 | 2,617 | 2,289 | 2,053 | 2,734 | 2,286 | 2,288 | 3,336 | 3,585 | 4,970 |
| Federal services 1/ | 6,991 | 8,718 | 7,827 | 7,726 | 7,374 | 8,799 | 6,409 | 6,377 | 6,341 | 6,362 | 6,402 |
| Foreign grants on fed account | 3,363 | 2,846 | 2,217 | 872 | 673 | 379 | 666 | 940 | 76 | 315 | 376 |
| Dubai | 3,000 | 4,000 | 2,567 | 2,737 | 2,850 | 2,550 | 1,485 | 900 | 1,045 | 1,080 | 1,200 |
| Total expenditure and grants | 15,725 | 20,740 | 20,092 | 15,880 | 14,992 | 15,940 | 13,285 | 13,502 | 12,667 | 13,632 | 14,425 |
| Current expenditures | 12,711 | 14,942 | 15,109 | 13,989 | 13,224 | 15,011 | 12,771 | 12,975 | 12,292 | 13,157 | 13,848 |
| Wages and salaries | 2,624 | 3,019 | 3,435 | 3,458 | 3,480 | 3,885 | 3,959 | 4,000 | 4,280 | 4,486 | 4,695 |
| Goods and services | 8,715 | 10,169 | 10,031 | 9,359 | 8,939 | 10,389 | 7,843 | 8,075 | 7,248 | 7,741 | 8,009 |
| Subsidies and transfers | 1,372 | 1,754 | 1,643 | 1,172 | 805 | 737 | 969 | 900 | 764 | 930 | 1,144 |
| Development expenditures | 1,026 | 1,345 | 1,660 | 1,278 | 740 | 405 | 233 | 175 | 130 | 141 | 186 |
| Equity positions | 1,988 | 1,606 | 701 | 287 | 146 | 145 | 66 | 52 | 17 | 0 | 2 |
| Domestic | 1,358 | 1,052 | 625 | 4 | 72 | 48 | 63 | 52 | 16 | 0 | 0 |
| Foreign | 630 | 554 | 76 | 283 | 74 | 97 | 3 | 0 | 1 | 0 | 2 |
| Foreign grants | 0 | 2,847 | 2,622 | 326 | 882 | 379 | 215 | 300 | 228 | 334 | 389 |
| Overall balance | 6,308 | 2,729 | -4,371 | -1,529 | -729 | -416 | -508 | -245 | -77 | -894 | 857 |
| (In percent of GDP) | 5.7 | 2.3 | -3.9 | -1.5 | -0.7 | -0.4 | -0.6 | -0.3 | -0.1 | -0.9 | 0.7 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 9,322.0 | 8,527.0 | 612.0 | 362.0 | 1,039.0 | 513.0 | 6.0 | 282.0 | 298.0 | -419.0 | 1,434.0 |
| (In percent of GDP) | 8.5 | 7.0 | 0.5 | 0.4 | 1.0 | 0.5 | 0.0 | 0.3 | 0.3 | -0.4 | 1.2 |
| Current expenditure/total expenditure | | | | | | | | | | | |
| (In percent) | 80.8 | 72.0 | 75.2 | 88.1 | 88.2 | 94.2 | 96.1 | 96.1 | 97.0 | 96.5 | 96.0 |
| Total expenditure/GDP (In percent) | 14.3 | 17.1 | 17.8 | 15.4 | 14.7 | 15.9 | 16.7 | 15.5 | 14.3 | 13.3 | 11.7 |

Table 6. United Arab Emirates: Federal Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|------------|------------|-------------|-------------|------------|---------------|
| Total revenue and grants | 14,642 | 17,706 | 15,621 | 16,487 | 16,916 | 18,072 | 19,532 | 19,258 | 20,268 | 20,276 | 21,009 |
| Revenues | 1,627 | 5,126 | 2,974 | 3,716 | 4,150 | 5,517 | 6,108 | 5,938 | 6,886 | 6,965 | 7,422 |
| Enterprise profits | 499 | 3,997 | 1,202 | 1,422 | 1,311 | 1,989 | 2,302 | 1,801 | 2,351 | 2,827 | 2,350 |
| Electricity and water | 153 | 166 | 182 | 230 | 309 | 322 | 323 | 400 | 508 | 0 | 0 |
| Other fees and charges | 975 | 963 | 1,590 | 2,064 | 2,530 | 3,206 | 3,483 | 3,737 | 4,027 | 4,138 | 5,072 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grants from Emirates | 13,015 | 12,580 | 12,647 | 12,771 | 12,766 | 12,555 | 13,424 | 13,320 | 13,382 | 13,311 | 13,587 |
| Abu Dhabi | 11,715 | 11,380 | 11,447 | 11,571 | 11,566 | 11,355 | 12,224 | 12,120 | 12,182 | 12,111 | 12,387 |
| Cash contributions | 5,200 | 4,915 | 5,004 | 5,000 | 4,965 | 5,074 | 5,600 | 5,600 | 5,600 | 5,600 | 5,600 |
| Federal services 1/ | 6,289 | 6,398 | 6,330 | 6,298 | 6,308 | 6,281 | 6,550 | 6,517 | 6,571 | 6,364 | 6,343 |
| Foreign grants on fed account | 226 | 67 | 113 | 273 | 293 | 0 | 74 | 3 | 11 | 147 | 444 |
| Dubai | 1,300 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| Total expenditure and grants | 15,249 | 15,554 | 15,571 | 15,975 | 16,187 | 16,953 | 18,187 | 19,788 | 20,205 | 20,702 | 21,018 |
| Current expenditures | 14,698 | 14,812 | 14,935 | 14,948 | 15,370 | 16,418 | 17,371 | 18,036 | 19,067 | 19,680 | 20,135 |
| Wages and salaries | 5,505 | 5,580 | 5,650 | 5,720 | 5,774 | 6,129 | 6,458 | 6,695 | 6,922 | 7,278 | 7,448 |
| Goods and services | 8,279 | 8,086 | 7,983 | 8,088 | 8,241 | 8,273 | 8,760 | 8,851 | 8,788 | 8,668 | 8,820 |
| Subsidies and transfers | 914 | 1,146 | 1,302 | 1,140 | 1,355 | 2,016 | 2,153 | 2,490 | 3,357 | 3,734 | 3,867 |
| Development expenditures | 313 | 699 | 595 | 738 | 543 | 497 | 529 | 970 | 823 | 518 | 418 |
| Equity positions | 8 | 8 | 3 | 1 | 0 | 0 | 67 | 618 | 268 | 356 | 205 |
| Domestic | 0 | 0 | 0 | 0 | 0 | 0 | 48 | 613 | 252 | 356 | 205 |
| Foreign | 8 | 8 | 3 | 1 | 0 | 0 | 19 | 5 | 16 | 0 | 0 |
| Foreign grants | 230 | 35 | 38 | 288 | 274 | 38 | 220 | 164 | 47 | 148 | 260 |
| Overall balance | -607 | 2,152 | 50 | 512 | 728 | 1,120 | 1,345 | -530 | 63 | -426 | -9 |
| (In percent of GDP) | -0.5 | 1.7 | 0.0 | 0.4 | 0.5 | 0.6 | 0.7 | -0.3 | 0.0 | -0.2 | 0.0 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | -55.5 | 2,893.7 | 685.7 | 1,538.9 | 1,545.7 | 1,654.3 | 2,161.0 | 1,222.0 | 1,201.0 | 596.0 | 874.0 |
| (In percent of GDP) | <u>0.0</u> | <u>2.2</u> | <u>0.5</u> | <u>1.1</u> | <u>1.0</u> | <u>0.9</u> | <u>1.1</u> | <u>0.7</u> | <u>0.6</u> | <u>0.2</u> | <u>0.3</u> |
| Current expenditure/Total expenditure | | | | | | | | | | | |
| (In percent) | 96.4 | 95.2 | 95.9 | 93.6 | 95.0 | 96.8 | 95.5 | 91.1 | 94.4 | 95.1 | 95.8 |
| Total expenditure/GDP (In percent) | <u>12.2</u> | <u>12.0</u> | <u>11.9</u> | <u>11.4</u> | <u>10.3</u> | <u>9.6</u> | <u>9.6</u> | <u>11.2</u> | <u>10.0</u> | <u>8.0</u> | <u>8.2</u> |

Sources: National authorities; and IMF staff estimates.

1/ Not including Abu Dhabi defense and security expenditures.

Table 7. United Arab Emirates: Abu Dhabi Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|--|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| Total revenue | 56,947 | 63,961 | 53,371 | 40,651 | 41,872 | 38,866 | 24,943 | 28,895 | 30,020 | 39,621 | 49,525 |
| Crude oil royalties and taxes | 38,699 | 37,885 | 27,495 | 19,523 | 17,951 | 16,892 | 8,849 | 11,666 | 10,972 | 16,891 | 27,642 |
| Non-hydrocarbon | 18,248 | 26,076 | 25,876 | 21,128 | 23,921 | 21,974 | 16,094 | 17,229 | 19,048 | 22,730 | 21,883 |
| Customs | 61 | 67 | 65 | 65 | 65 | 65 | 68 | 51 | 34 | 40 | 46 |
| Water and electricity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Income tax | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Investment income 1/ | 16,965 | 24,383 | 23,207 | 18,482 | 22,182 | 18,420 | 15,284 | 16,288 | 18,296 | 21,259 | 20,113 |
| Other | 1,222 | 1,626 | 2,604 | 2,581 | 1,674 | 3,489 | 742 | 890 | 718 | 1,431 | 1,724 |
| Total expenditure and grants | 33,031 | 37,201 | 28,811 | 24,613 | 21,181 | 23,023 | 22,986 | 24,683 | 24,939 | 26,563 | 40,879 |
| Current expenditures | 4,351 | 5,616 | 5,695 | 5,371 | 5,086 | 5,232 | 7,474 | 11,604 | 11,512 | 12,413 | 13,386 |
| Wages and salaries | 1,044 | 1,229 | 1,446 | 1,619 | 1,641 | 1,758 | 1,829 | 1,917 | 2,033 | 2,152 | 2,223 |
| Goods and services | 1,684 | 1,508 | 2,654 | 2,840 | 2,674 | 2,866 | 2,095 | 1,958 | 2,905 | 3,996 | 3,600 |
| Federal services 2/ | 348 | 59 | 718 | 426 | 555 | 264 | 2,616 | 3,279 | 3,194 | 4,010 | 3,562 |
| Water and electricity | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Subsidies and transfers | 1,275 | 2,820 | 877 | 486 | 216 | 236 | 623 | 3,100 | 1,944 | 387 | 1,768 |
| Interest payments | 0 | 0 | 0 | 0 | 0 | 108 | 311 | 1,350 | 1,436 | 1,868 | 2,233 |
| Development expenditures | 4,600 | 5,081 | 5,362 | 4,428 | 3,770 | 3,972 | 3,622 | 3,127 | 2,850 | 3,255 | 3,549 |
| Water and electricity | 1,231 | 1,111 | 1,343 | 1,098 | 1,015 | 1,105 | 902 | 1,084 | 752 | 658 | 617 |
| Other | 3,369 | 3,970 | 4,019 | 3,330 | 2,755 | 2,867 | 2,720 | 2,043 | 2,098 | 2,597 | 2,932 |
| Loans and equity (net) | 2,557 | 6,582 | 4,925 | 3,860 | 1,623 | 1,386 | 1,750 | 38 | 559 | -27 | 5,622 |
| Domestic | 1,227 | 1,151 | 1,724 | 1,148 | 1,740 | 206 | 1,051 | 59 | 420 | 64 | 517 |
| Foreign loans | 1,330 | 5,431 | 3,201 | 2,712 | -117 | 1,180 | 699 | -21 | 139 | -91 | 5,105 |
| Grants | 21,523 | 19,922 | 12,829 | 10,954 | 10,702 | 12,433 | 10,140 | 9,914 | 10,018 | 10,922 | 18,322 |
| Cash contributions to federal government 3/ | 8,381 | 7,326 | 2,617 | 2,289 | 2,053 | 2,734 | 2,286 | 2,288 | 3,336 | 3,585 | 4,970 |
| "Fed services" included in federal accounts 3/ | 6,991 | 8,718 | 7,827 | 7,726 | 7,374 | 8,799 | 6,409 | 6,377 | 6,341 | 6,362 | 6,402 |
| Foreign grants on federal account 3/ | 3,363 | 2,846 | 2,217 | 872 | 673 | 379 | 666 | 940 | 76 | 315 | 376 |
| Foreign grants | 2,788 | 1,032 | 168 | 67 | 602 | 521 | 779 | 309 | 265 | 660 | 6,574 |
| Overall balance | 23,915 | 26,760 | 24,560 | 16,038 | 20,691 | 15,843 | 1,957 | 4,212 | 5,081 | 13,058 | 8,646 |
| (In percent of GDP) | 21.8 | 22.1 | 21.8 | 15.5 | 20.2 | 15.8 | 2.5 | 4.8 | 5.7 | 12.7 | 7.0 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 52,595 | 58,345 | 47,676 | 35,280 | 36,786 | 33,634 | 17,469 | 17,291 | 18,508 | 27,208 | 36,139 |
| (In percent of GDP) | 47.9 | 48.2 | 42.3 | 34.2 | 36.0 | 33.5 | 22.0 | 19.8 | 20.8 | 26.5 | 29.3 |
| Non-hydrocarbon balance | -14,784 | -11,125 | -2,935 | -3,485 | 2,740 | -1,049 | -6,892 | -7,454 | -5,891 | -3,833 | -18,996 |
| (In percent of GDP) | -13.5 | -9.2 | -2.6 | -3.4 | 2.7 | -1.0 | -8.7 | -8.5 | -6.6 | -3.7 | -15.4 |
| Hydrocarbon revenue/Total revenue | | | | | | | | | | | |
| (In percent) | 68.0 | 59.2 | 51.5 | 48.0 | 42.9 | 43.5 | 35.5 | 40.4 | 36.5 | 42.6 | 55.8 |
| Current expenditure/Total expenditure | | | | | | | | | | | |
| (In percent) | 13.2 | 15.1 | 19.8 | 21.8 | 24.0 | 22.7 | 32.5 | 47.0 | 46.2 | 46.7 | 32.7 |
| Total expenditure/GDP (In percent) | 30.1 | 30.7 | 25.6 | 23.9 | 20.7 | 22.9 | 28.9 | 28.3 | 28.1 | 25.9 | 33.1 |

Table 7. United Arab Emirates: Abu Dhabi Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|--|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Total revenue | 52,189 | 41,959 | 36,738 | 38,170 | 44,226 | 49,778 | 53,337 | 44,587 | 46,634 | 79,846 | 62,972 |
| Crude oil royalties and taxes | 32,297 | 29,392 | 24,519 | 22,651 | 25,532 | 30,714 | 34,349 | 21,428 | 23,232 | 48,633 | 42,366 |
| Non-hydrocarbon | 19,892 | 12,567 | 12,219 | 15,519 | 18,694 | 19,064 | 18,988 | 23,159 | 23,402 | 31,213 | 20,606 |
| Customs | 54 | 65 | 72 | 128 | 257 | 285 | 293 | 318 | 319 | 262 | 276 |
| Water and electricity | 0 | 463 | 508 | 686 | 1,016 | 1,127 | 1,216 | 1,380 | 12 | 0 | 0 |
| Income tax | 1,737 | 1,428 | 1,688 | 1,121 | 1,895 | 3,212 | 2,797 | 1,517 | 1,996 | 3,958 | 3,122 |
| Investment income 1/ | 15,186 | 9,849 | 8,867 | 12,632 | 14,817 | 13,442 | 13,580 | 18,489 | 19,234 | 25,373 | 15,625 |
| Other | 2,915 | 762 | 1,084 | 952 | 709 | 998 | 1,102 | 1,455 | 1,841 | 1,620 | 1,583 |
| Total expenditure and grants | 53,701 | 43,417 | 47,559 | 51,106 | 46,402 | 59,700 | 48,244 | 54,450 | 56,761 | 63,784 | 76,279 |
| Current expenditures | 13,817 | 18,421 | 20,262 | 20,788 | 20,364 | 36,108 | 23,037 | 26,922 | 32,111 | 43,107 | 48,852 |
| Wages and salaries | 2,306 | 2,384 | 2,478 | 2,641 | 2,237 | 2,545 | 2,642 | 2,730 | 2,993 | 3,135 | 3,215 |
| Goods and services | 3,456 | 4,079 | 5,424 | 5,357 | 5,077 | 5,346 | 5,551 | 6,642 | 8,918 | 8,987 | 10,323 |
| Federal services 2/ | 3,360 | 5,870 | 9,696 | 10,108 | 7,190 | 8,584 | 7,774 | 10,876 | 11,899 | 19,440 | 19,082 |
| Water and electricity | 0 | 0 | 0 | 0 | 2,209 | 2,690 | 2,486 | 2,357 | 2,153 | 1,962 | 1,251 |
| Subsidies and transfers | 1,877 | 5,588 | 2,635 | 2,682 | 3,644 | 16,926 | 4,584 | 4,317 | 6,148 | 9,583 | 14,981 |
| Interest payments | 2,818 | 500 | 29 | ... | 7 | 17 | ... | ... | ... | ... | ... |
| Development expenditures | 3,747 | 4,877 | 7,801 | 8,813 | 8,109 | 7,451 | 7,608 | 9,980 | 8,944 | 7,452 | 10,424 |
| Water and electricity | 0 | 0 | 0 | 0 | 3,286 | 2,052 | 1,511 | 2,387 | 2,121 | 1,335 | 3,259 |
| Other | 0 | 0 | 0 | 0 | 4,823 | 5,399 | 6,097 | 7,593 | 6,823 | 6,117 | 7,165 |
| Loans and equity (net) | 1,783 | 1,524 | 1,654 | 3,996 | 5,663 | 4,035 | 4,392 | 4,383 | 2,163 | 43 | 3,952 |
| Domestic | 1,505 | 1,294 | 1,725 | 4,067 | 5,713 | 4,141 | 4,439 | 2,208 | 2,308 | 105 | 348 |
| Foreign loans | 278 | 230 | -71 | -71 | -50 | -106 | -47 | 2,175 | -145 | -62 | 3,604 |
| Grants | 34,354 | 18,595 | 17,842 | 17,509 | 12,266 | 12,106 | 13,207 | 13,165 | 13,543 | 13,182 | 13,051 |
| Cash contributions to federal government. 3/ | 5,200 | 4,915 | 5,004 | 5,000 | 4,965 | 5,074 | 5,600 | 5,600 | 5,600 | 5,600 | 5,600 |
| "Fed services" included in federal accounts 3/ | 11,715 | 11,380 | 11,447 | 11,571 | 6,308 | 6,281 | 6,550 | 6,517 | 6,571 | 6,364 | 6,343 |
| Foreign grants on federal account 3/ | 226 | 67 | 113 | 273 | 293 | 0 | 74 | 3 | 11 | 147 | 444 |
| Foreign grants | 17,213 | 2,233 | 1,278 | 665 | 700 | 751 | 983 | 1,045 | 1,361 | 1,071 | 664 |
| Overall balance | -1,512 | -1,458 | -10,821 | -12,936 | -2,176 | -9,922 | 5,093 | -9,863 | -10,127 | 16,062 | -13,307 |
| (In percent of GDP) | -1.2 | -1.1 | -8.2 | -9.2 | -1.4 | -5.6 | 2.7 | -5.6 | -5.0 | 6.2 | -5.2 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 38,372 | 23,538 | 16,476 | 17,382 | 23,862 | 13,670 | 30,300 | 17,665 | 14,523 | 36,739 | 14,120 |
| (In percent of GDP) | <u>30.8</u> | <u>18.1</u> | <u>12.6</u> | <u>12.4</u> | <u>15.2</u> | <u>7.8</u> | <u>16.0</u> | <u>10.0</u> | <u>7.2</u> | <u>14.2</u> | <u>5.5</u> |
| Non-hydrocarbon balance | -33,809 | -30,850 | -35,340 | -35,587 | -27,708 | -40,636 | -29,256 | -31,291 | -33,359 | -32,571 | -55,673 |
| (In percent of GDP) | <u>-27.2</u> | <u>-23.7</u> | <u>-26.9</u> | <u>-25.3</u> | <u>-17.6</u> | <u>-23.1</u> | <u>-15.4</u> | <u>-17.7</u> | <u>-16.4</u> | <u>-12.6</u> | <u>-21.7</u> |
| Hydrocarbon revenue/Total revenue | | | | | | | | | | | |
| (In percent) | 61.9 | 70.0 | 66.7 | 59.3 | 57.7 | 61.7 | 64.4 | 48.1 | 49.8 | 60.9 | 67.3 |
| Current expenditure/Total expenditure | | | | | | | | | | | |
| (In percent) | 25.7 | 42.4 | 42.6 | 40.7 | 43.9 | 60.5 | 47.8 | 49.4 | 56.6 | 67.6 | 64.0 |
| Total expenditure/GDP (In percent) | <u>43.1</u> | <u>33.4</u> | <u>36.2</u> | <u>36.4</u> | <u>29.5</u> | <u>33.9</u> | <u>25.5</u> | <u>30.9</u> | <u>28.0</u> | <u>24.6</u> | <u>29.7</u> |

Sources: National authorities; and IMF staff estimates.

1/ IMF staff estimates.

2/ Defense and security expenditures not included in federal accounts.

3/ Contributions and grants included in federal accounts.

Table 8. United Arab Emirates: Dubai Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 |
|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Total revenue | 6,443 | 8,628 | 7,761 | 7,660 | 7,323 | 7,114 | 6,054 | 5,614 | 5,763 | 6,140 | 6,541 |
| Nontax revenue | 6,098 | 8,280 | 7,577 | 7,503 | 6,971 | 6,817 | 5,756 | 5,464 | 5,623 | 6,002 | 6,386 |
| Oil and gas | 5,898 | 8,028 | 7,214 | 6,952 | 6,580 | 6,381 | 5,289 | 4,992 | 4,928 | 5,272 | 5,594 |
| Enterprise profits | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | 200 | 252 | 363 | 551 | 391 | 436 | 467 | 472 | 695 | 730 | 792 |
| Tax revenue | 345 | 348 | 184 | 157 | 352 | 297 | 298 | 150 | 140 | 138 | 155 |
| Customs | 345 | 349 | 184 | 157 | 351 | 297 | 298 | 150 | 140 | 138 | 155 |
| Income tax 1/ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total expenditure and grants | 6,443 | 8,627 | 7,761 | 7,660 | 7,323 | 7,114 | 6,053 | 5,614 | 5,763 | 6,139 | 6,541 |
| Current expenditure | 1,465 | 1,712 | 1,989 | 2,131 | 2,531 | 2,884 | 2,509 | 2,804 | 3,296 | 3,668 | 3,765 |
| Wages and salaries | 871 | 901 | 1,079 | 1,193 | 1,296 | 1,332 | 1,205 | 1,350 | 1,200 | 2,200 | 1,978 |
| Goods and services | 522 | 720 | 759 | 908 | 982 | 1,038 | 1,054 | 1,050 | 1,000 | 1,000 | 1,720 |
| Subsidies and transfers | 72 | 91 | 151 | 28 | 253 | 293 | 250 | 314 | 300 | 300 | 300 |
| Other | 0 | 0 | 0 | 2 | 0 | 221 | 0 | 90 | 796 | 168 | -233 |
| Development expenditure | 1,978 | 2,915 | 3,205 | 2,792 | 1,942 | 1,680 | 2,059 | 1,910 | 1,422 | 1,391 | 1,576 |
| Municipalities | 223 | 169 | 483 | 264 | 257 | 312 | 773 | 772 | 454 | 477 | 529 |
| Electricity and water | 456 | 1,604 | 1,529 | 2,006 | 1,424 | 981 | 935 | 876 | 770 | 717 | 663 |
| Loans and equity (net) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Contributions to federal budget | 3,000 | 4,000 | 2,567 | 2,737 | 2,850 | 2,550 | 1,485 | 900 | 1,045 | 1,080 | 1,200 |
| Overall balance | 0 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 |
| (In percent of GDP) | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 4,978 | 6,916 | 5,772 | 5,529 | 4,792 | 4,230 | 3,545 | 2,810 | 2,467 | 2,472 | 2,776 |
| (In percent of GDP) | 4.5 | 5.7 | 5.1 | 5.4 | 4.7 | 4.2 | 4.5 | 3.2 | 2.8 | 2.4 | 2.2 |
| Non-hydrocarbon balance | -5,898 | -8,027 | -7,214 | -6,952 | -6,580 | -6,381 | -5,288 | -4,992 | -4,928 | -5,271 | -5,594 |
| (In percent of GDP) | -5.4 | -6.6 | -6.4 | -6.7 | -6.4 | -6.4 | -6.6 | -5.7 | -5.5 | -5.1 | -4.5 |
| Hydrocarbon revenue/total revenue | | | | | | | | | | | |
| (In percent) | 91.5 | 93.0 | 93.0 | 90.8 | 89.9 | 89.7 | 87.4 | 88.9 | 85.5 | 85.9 | 85.5 |
| Current expenditure/total expenditure | | | | | | | | | | | |
| (In percent) | 22.7 | 19.8 | 25.6 | 27.8 | 34.6 | 40.5 | 41.5 | 49.9 | 57.2 | 59.7 | 57.6 |
| Total expenditure/GDP (In percent) | 5.9 | 7.1 | 6.9 | 7.4 | 7.2 | 7.1 | 7.6 | 6.4 | 6.5 | 6.0 | 5.3 |

Table 8. United Arab Emirates: Dubai Fiscal Accounts, 1980–2001

(In millions of U.A.E. dirhams)

| | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> <u>2001</u> |
|---------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------------------|
| Total revenue | 6,876 | 7,866 | 7,650 | 6,682 | 7,536 | 8,122 | 9,285 | 9,077 | 8,724 | 11,071 | 10,201 |
| Nontax revenue | 6,685 | 7,621 | 7,399 | 6,204 | 6,511 | 7,026 | 7,919 | 7,562 | 7,163 | 9,540 | 8,579 |
| Oil and gas | 5,804 | 7,025 | 6,806 | 5,472 | 5,556 | 5,369 | 5,663 | 3,266 | 3,670 | 5,875 | 4,949 |
| Enterprise profits | 221 | 244 | 251 | 301 | 100 | 200 | 350 | 1,250 | 1,111 | 1,109 | 1,034 |
| Other | 660 | 352 | 342 | 431 | 855 | 1,457 | 1,906 | 3,046 | 2,382 | 2,556 | 2,596 |
| Tax revenue | 191 | 245 | 251 | 478 | 1,025 | 1,096 | 1,366 | 1,515 | 1,561 | 1,531 | 1,622 |
| Customs | 191 | 245 | 251 | 478 | 965 | 1,006 | 1,238 | 1,353 | 1,378 | 1,365 | 1,415 |
| Income tax 1/ | 0 | 0 | 0 | 0 | 60 | 90 | 128 | 162 | 183 | 166 | 207 |
| Total expenditure and grants | 8,035 | 9,127 | 8,784 | 7,815 | 9,532 | 8,434 | 9,489 | 8,839 | 9,850 | 11,147 | 10,559 |
| Current expenditure | 4,292 | 4,396 | 5,171 | 5,106 | 5,849 | 5,839 | 6,333 | 5,601 | 5,665 | 7,329 | 7,246 |
| Wages and salaries | 2,042 | 2,046 | 2,321 | 2,418 | 3,037 | 3,054 | 3,125 | 2,154 | 2,328 | 2,568 | 2,882 |
| Goods and services | 2,000 | 2,100 | 2,600 | 2,388 | 2,462 | 2,435 | 2,620 | 2,066 | 2,895 | 3,838 | 3,080 |
| Subsidies and transfers | 250 | 250 | 250 | 300 | 350 | 350 | 309 | 1,124 | 254 | 558 | 789 |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | 279 | 257 | 188 | 365 | 495 |
| Development expenditure | 2,543 | 3,531 | 2,413 | 1,510 | 2,483 | 1,395 | 1,849 | 1,992 | 2,981 | 2,365 | 1,763 |
| Municipalities | 535 | 850 | 949 | 788 | 1,264 | 1,044 | 1,100 | ... | ... | ... | ... |
| Electricity and water | 1,694 | 2,524 | 1,346 | 518 | 862 | 0 | 199 | ... | ... | ... | ... |
| Loans and equity (net) | 0 | 0 | 0 | 0 | 0 | 0 | 107 | 46 | 4 | 253 | 350 |
| Contributions to federal budget | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| Overall balance | -1,159 | -1,261 | -1,134 | -1,133 | -1,997 | -312 | -204 | 238 | -1,126 | -76 | -358 |
| (In percent of GDP) | -0.9 | -1.0 | -0.9 | -0.8 | -1.3 | -0.2 | -0.1 | 0.1 | -0.6 | 0.0 | -0.1 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 2,584 | 3,470 | 2,479 | 1,576 | 1,687 | 2,283 | 2,952 | 3,476 | 3,059 | 3,742 | 2,955 |
| (In percent of GDP) | <u>2.1</u> | <u>2.7</u> | <u>1.9</u> | <u>1.1</u> | <u>1.1</u> | <u>1.3</u> | <u>1.6</u> | <u>2.0</u> | <u>1.5</u> | <u>1.4</u> | <u>1.2</u> |
| Non-hydrocarbon balance | -6,963 | -8,286 | -7,940 | -6,605 | -7,553 | -5,681 | -5,867 | -3,028 | -4,796 | -5,951 | -5,307 |
| (In percent of GDP) | <u>-5.6</u> | <u>-6.4</u> | <u>-6.1</u> | <u>-4.7</u> | <u>-4.8</u> | <u>-3.2</u> | <u>-3.1</u> | <u>-1.7</u> | <u>-2.4</u> | <u>-2.3</u> | <u>-2.1</u> |
| Hydrocarbon revenue/total revenue | 84.4 | 89.3 | 89.0 | 81.9 | 73.7 | 66.1 | 61.0 | 36.0 | 42.1 | 53.1 | 48.5 |
| (In percent) | | | | | | | | | | | |
| Current expenditure/total expenditure | 53.4 | 48.2 | 58.9 | 65.3 | 61.4 | 69.2 | 66.7 | 63.4 | 57.5 | 65.7 | 68.6 |
| (In percent) | | | | | | | | | | | |
| Total expenditure/GDP (In percent) | <u>6.5</u> | <u>7.0</u> | <u>6.7</u> | <u>5.6</u> | <u>6.1</u> | <u>4.8</u> | <u>5.0</u> | <u>5.0</u> | <u>4.9</u> | <u>4.3</u> | <u>4.1</u> |

Sources: National authorities; and IMF staff estimates.

1/ Tax on profits of foreign banks.

Table 9. United Arab Emirates: Sharjah Fiscal Accounts, 1991–2001

(In millions of U.A.E. dirhams)

| | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------|
| Total revenue | 1,074 | 1,263 | 1,464 | 1,468 | 1,292 | 1,456 | 1,541 | 1,600 | 1,728 | 1,877 | 1,653 |
| Oil and gas | 614 | 795 | 719 | 571 | 945 | 924 | 1,128 | 806 | 1,152 | 1,512 | 1,211 |
| Non-oil | 460 | 468 | 745 | 897 | 347 | 532 | 413 | 794 | 576 | 365 | 442 |
| Departmental receipts | 310 | 352 | 403 | 487 | 201 | 279 | 293 | 369 | 376 | 340 | 397 |
| Port authority | ... | ... | ... | ... | 57 | 62 | 65 | 79 | 80 | 60 | 75 |
| Customs | ... | ... | ... | ... | 113 | 136 | 145 | 150 | 189 | 152 | 155 |
| Fees and charges | ... | ... | ... | ... | 9 | 11 | 12 | 32 | 28 | 28 | 41 |
| Others | ... | ... | ... | ... | 22 | 70 | 71 | 108 | 79 | 100 | 126 |
| Land sales and profit transfers | 150 | 116 | 342 | 410 | 146 | 253 | 120 | 425 | 200 | 25 | 45 |
| Total expenditure | 794 | 859 | 918 | 1,094 | 1,230 | 1,294 | 1,345 | 1,710 | 1,832 | 1,744 | 1,532 |
| Current | 227 | 382 | 364 | 409 | 380 | 444 | 489 | 735 | 887 | 924 | 932 |
| Wages and salaries | ... | ... | ... | ... | 187 | 216 | 249 | 320 | 395 | 439 | 451 |
| Goods and services | ... | ... | ... | ... | 158 | 187 | 197 | 330 | 400 | 420 | 421 |
| Subsidies and transfers 2/ | ... | ... | ... | ... | 15 | 16 | 16 | 50 | 52 | 30 | 39 |
| Other | ... | ... | ... | ... | 20 | 25 | 27 | 35 | 40 | 35 | 21 |
| Development | 567 | 477 | 554 | 685 | 850 | 850 | 856 | 975 | 945 | 820 | 600 |
| Overall balance | 280 | 404 | 546 | 374 | 62 | 162 | 196 | -110 | -104 | 133 | 121 |
| (In percent of GDP) | 0.2 | 0.3 | 0.4 | 0.3 | 0.0 | 0.1 | 0.1 | -0.1 | -0.1 | 0.1 | 0.0 |
| Memorandum items: | | | | | | | | | | | |
| Current balance | 847 | 881 | 1,100 | 1,059 | 912 | 1,012 | 1,052 | 865 | 841 | 953 | 721 |
| (In percent of GDP) | <u>0.7</u> | <u>0.7</u> | <u>0.8</u> | <u>0.8</u> | <u>0.6</u> | <u>0.6</u> | <u>0.6</u> | <u>0.5</u> | <u>0.4</u> | <u>0.4</u> | <u>0.3</u> |
| Non-hydrocarbon balance | -334 | -391 | -173 | -197 | -883 | -762 | -932 | -916 | -1,256 | -1,379 | -1,090 |
| (In percent of GDP) | <u>-0.3</u> | <u>-0.3</u> | <u>-0.1</u> | <u>-0.1</u> | <u>-0.6</u> | <u>-0.4</u> | <u>-0.5</u> | <u>-0.5</u> | <u>-0.6</u> | <u>-0.5</u> | <u>-0.4</u> |
| Hydrocarbon revenue/Total revenue (In percent) | 57.2 | 62.9 | 49.1 | 38.9 | 73.1 | 63.5 | 73.2 | 50.4 | 66.7 | 80.6 | 73.3 |
| Current expenditure/Total expenditure (In percent) | 28.6 | 44.5 | 39.7 | 37.4 | 30.9 | 34.3 | 36.4 | 43.0 | 48.4 | 53.0 | 60.8 |
| Total expenditure/GDP (In percent) | <u>0.6</u> | <u>0.7</u> | <u>0.7</u> | <u>0.8</u> | <u>0.8</u> | <u>0.7</u> | <u>0.7</u> | <u>1.0</u> | <u>0.9</u> | <u>0.7</u> | <u>0.6</u> |

Sources: National authorities; and IMF staff estimates.

III. FISCAL SUSTAINABILITY WITH OIL RESOURCES³¹

A. Introduction

59. The sustainability of a fiscal stance is traditionally assessed in terms of a country's explicit public debt burden (both its size and debt service) and its likely dynamics over the medium and long term. However, in countries where wealth is derived from a nonrenewable resource, such as oil (and natural resource wealth represents a significant source of government revenue), this assessment must also take into account the depletion of this wealth to ensure intergenerational economic equity. The reason for this is that a fiscal stance that could lead to a stable or declining government debt to GDP ratio may rely on higher oil production and revenue (for countries that are price-takers), and thus also lead to a rapid depletion of the country's oil wealth. By ensuring intergenerational equity, the government avoids the use of the country's oil wealth to finance the welfare of the present generation at the expense of the welfare of future generations.³² This position also imposes fiscal discipline on the government by requiring that the government's total net wealth be the basis for its fiscal policy rather than current resources available.

60. Policymakers in oil-dependent economies must, therefore, decide how much oil income to spend on the present generation and how much to save for future generations.³³ One way to determine a sustainable level of public consumption out of oil resources is to derive a notional income stream from the stock of government net wealth, determined by the present value of expected future government oil revenue and the existing amount of net financial assets owned by the government net of debt. This notional income represents the "permanent income" that can be consumed indefinitely while preserving the stock of wealth for future generations.

³¹ This chapter was written by Ugo Fasano (MED).

³² See Barnett, S. and R. Ossowski, 2002, "Operational Aspects of Fiscal Policy in Oil-Producing Countries," paper presented at the IMF Conference on Fiscal Policy Formulation and Implementation in Oil-Producing Countries, June 5–6, 2002 (Washington: International Monetary Fund); and E. Engel and R. Valdés, 2000, "Optimal Fiscal Strategy for Oil Exporting Countries," IMF Working Paper 00/118, (Washington, D.C.: International Monetary Fund).

³³ Policymakers are also confronted with the issue of how to cushion the domestic non-oil economy from the sharp and unpredictable variations in oil prices and revenue, as well as avoid the Dutch disease phenomenon of real exchange rate appreciation and loss of competitiveness in the non-oil tradable sector.

61. This chapter provides a practical framework to estimate the United Arab Emirates' permanent income available from its oil wealth resources to assess the sustainability of the current fiscal stance.

B. The Framework

The criteria

62. Several criteria may be applied to determine an oil-rich country's permanent income. Two reasonable ones are to maintain the same oil wealth in (a) per capita terms, or (b) real terms.³⁴ The first alternative implies that the government provides a time invariant level of public goods to all citizens over time, which means that the level of government consumption must be restricted today to provide the same benefits across generations in the future. Thus, the country's total wealth (oil plus net financial assets) will have to increase over time to keep up with the population growth, restraining the amount that can be consumed every year.

63. The second criterion is less restrictive, since it implies that the government could consume relatively more today based on the (real) return of its wealth, favoring the current generation at the expense of future generations. This puts the onus on future generations to maintain their per capita income through investments in human capital, and on the government to enhance growth prospects by developing infrastructure and human capital. The choice of criteria would therefore depend on the government's preferences between present and future generations. The stronger the preference toward the present generation, the higher would be the desire to consume more today than in the future, thus choosing the second criterion.

64. The government's consumption out of oil resources can be proxied by the non-oil fiscal balance.³⁵ This balance could be defined as (current) expenditure (including the depreciation of the government's capital stock) minus non-oil revenue (including investment income).³⁶ This definition is, however, debatable because some categories of current spending, such as health and education, can be considered as investment in human capital, while some capital spending items can be considered as a form of consumption. In this context, a sustainable fiscal policy over the long run would be one in which the (consolidated) government's non-oil (current) fiscal deficit would be less than or equal to the country's permanent income out of the oil wealth. Nevertheless, given the uncertainty in oil

³⁴ Alternative criteria are to maintain the same net wealth in percent of (non-oil) GDP or in nominal terms.

³⁵ The non-oil fiscal balance is also a better indicator of underlying fiscal trends in oil-dependent economies than the traditional overall fiscal balance, because it abstracts from the volatility in oil prices and revenue.

³⁶ See Barnett and Ossowski (2002) for a detailed analysis of operational aspects of fiscal policy in oil-producing countries.

prices, there may be a need for precautionary savings over and above the level implied by the permanent income.

C. The Case of the United Arab Emirates³⁷

65. Estimates of the permanent income are based on several factors—one of the most significant being long-term oil prices. The higher the expected future oil prices, the higher is the share of oil income which can be spent today without reducing the welfare of future generations relative to the current generation. Other important factors are the discount rate, population growth, proven oil reserves, and the extraction rate. Given the uncertainty in estimating these factors, in particular the oil reserves, which may vary over time as a result of technological changes, estimates of the permanent income can be subject to variations and must be revisited in light of new information. As a result, revisions in wealth should also lead to revisions to fiscal stance.

66. Indicative values of the United Arab Emirates' permanent income over the medium term were estimated below. The estimates were based on several parameters and assumptions summarized in Table 10. Given the oil-proven reserves and current annual extraction rate, it would take about 120 years for the oil reserves to be exhausted. Under a conservative crude oil price assumption of \$18 per barrel, the present value of the United Arab Emirates' crude oil reserves was estimated at \$245 billion, equivalent to about 345 percent of GDP.³⁸

67. Under criterion (a), maintaining the same oil wealth in per capita terms, the annual usable amount of oil reserves for fiscal purposes was estimated at about Dh 25.3 billion (\$6.8 billion) on average over the medium term through 2007. Under criterion (b), maintaining the same oil wealth in absolute terms, the permanent income was estimated at Dh 42.5 billion (\$11.5 billion). Rules of thumb could also be used to estimate the permanent income. For criterion (a), every year the government can consume the projected return on the wealth (5 percent) minus the expected population growth (2.5 percent), that is, 2.5 percent out of \$245 billion, or \$6.1 billion. For criterion (b), the government can consume the full return on the wealth, that is, 5 percent, or about \$12.2 billion a year.

68. Although the average non-oil fiscal deficit during much of the 1990s has been within the long-run sustainable path indicated by permanent income estimates, the United Arab Emirates' current fiscal policy stance is unsustainable under a conservative crude oil price assumption of \$18 per barrel for the long term.³⁹ This is so because the

³⁷ The framework was adopted from work done by FAD staff on Venezuela.

³⁸ The budgeted crude oil price usually ranges between 15–20 percent below the projected global price. The assumption of \$18 per barrel is about 18 percent below the Fund's *World Economic Outlook* (WEO) medium-term oil price projections.

³⁹ The non-oil fiscal deficit averaged Dh 37.5 billion a year in the period 1991–2000, which is compatible with an estimated permanent income based on a long-run oil price of \$16.3 per

(continued)

estimated permanent income under either the first or second criterion is significantly lower than the estimated non-hydrocarbon fiscal deficit in 2002 (Dh 68.5 billion).⁴⁰ Thus, under this scenario the U.A.E. authorities would need to increase non-hydrocarbon revenue and/or cut expenditures over the medium term to make government consumption compatible with intergenerational equity objectives in line with the country's estimated permanent income.

Table 10. Summary of Main Assumptions and Parameters

| | |
|--|-------|
| Proven oil reserves (in billions of barrels) | 97.80 |
| Daily crude oil extraction (in millions of barrels) | 2.21 |
| Expected rate of growth of oil production (in percent) | 0.0 |
| Long-term annual (real) discount rate (annual rate in percent) | 5.0 |
| Long-term world crude oil price (in U.S. dollars per barrel) | 18.0 |
| Average long-term production cost (in U.S. dollars per barrel) | 3.5 |
| Expected average annual rate of population growth (in percent) | 2.5 |
| Expected average annual rate of non-hydrocarbon real GDP growth (in percent) | 5.0 |
| Government debt (in percent of GDP) | 4.5 |
| Inflation (in percent) | 0.0 |

Source: Fund staff.

IV. NON-OIL GROWTH, COMPETITIVENESS, AND THE LABOR MARKET⁴¹

A. Introduction

69. The labor market in the United Arab Emirates is segmented in terms of sectors of employment, skills, and wages. It is estimated that Emirati nationals comprise about 10 percent of the overall labor force of 1.9 million, excluding military personnel. They are employed primarily in the public sector in mostly skilled jobs, and earn relatively high wages

barrel and 2.21 million barrels a day of crude oil output. During the same period, actual oil prices averaged \$18.04 per barrel, oil output, 2.29 million barrels a day, and the overall consolidated fiscal balance (including estimated investment income), about -1 percent of GDP.

⁴⁰ The long-run oil price should be assumed at close to \$27 per barrel (higher end of OPEC range price target of \$22–28 per barrel) for the permanent income to be estimated at about Dh 68.5 billion.

⁴¹ This chapter was written by Rishi Goyal (MED).

and social benefits. In contrast, expatriates make up most of the labor force, and are mainly employed in the private sector in mostly low- or semi-skilled jobs.

70. The abundant supply of expatriate workers at internationally competitive wages has been an important source of growth and competitiveness for the non-oil economy in the United Arab Emirates.^{42,43} In fact, real non-oil growth has averaged more than 7 percent per year from 1997-2002, and about 100,000 net new private sector jobs have been created on average each year over the same period. Most of these jobs have been low- and semi-skilled positions in sectors such as wholesale and retail trade, construction, manufacturing, and domestic household services. Only about 3,000 have been in skilled positions, in sectors such as banking and communications. At the same time, nearly 10,000 national workers have been entering the labor force each year in the last few years.

71. Given demographic dynamics, an increasing number of nationals are expected to enter the labor force over the medium term. Most of them are likely to seek employment in the private sector because the government is unlikely to remain the employer of first and last resort, except for professions such as teaching or in the health sector. In this context, the policy challenge facing the authorities is to expand private sector employment opportunities for nationals, while maintaining competitiveness and strong non-oil economic growth prospects.

72. This chapter, therefore, examines the relationship between the labor market and non-oil economic real growth in the United Arab Emirates, and studies policies to expand employment opportunities for nationals in the private sector. Section B analyzes the performance of non-hydrocarbon growth as well as the contribution of labor to non-oil growth over the last two decades. Section C focuses on the role of the labor market in maintaining competitiveness of non-oil exports despite an exogenous and rapid appreciation of the CPI-based real effective exchange rate in the second half of the 1990s. The last section develops an analytical model to propose policies for increasing private sector job opportunities for U.A.E. nationals.

⁴² Oil or hydrocarbons refer to crude oil and associated natural gas. Refined products are included in the non-oil or non-hydrocarbon sector.

⁴³ Bangladesh, India, and Pakistan supply the majority of expatriate workers, though large numbers also come from Indonesia and the Philippines.

B. Non-Oil Growth Performance

An overview of non-oil growth performance

73. The development of physical infrastructure in the 1970s and early 1980s set the base for rapid growth in services and manufacturing in the following years. Average annual growth of real non-oil GDP was about 7 percent in the 1990s through 2002, up from 3.6 percent in the previous decade. It was particularly strong in finance and insurance, wholesale and retail trade, and manufacturing, including petrochemicals. Tourism growth was also robust, especially in Dubai. As a result, the economy moved from being primarily oil-based to non-oil service based, with the non-oil share of GDP rising from close to 35 percent in 1980 to more than 70 percent in 2002 (Figure 6).⁴⁴

74. From the demand side, non-oil growth was mostly private consumption-led. This reflected the rise in income and population, particularly since the mid-1980s (Figure 7). In fact, per capita GDP in purchasing power parity terms increased by almost 66 percent, and the population grew by 150 percent from 1986 through 2002. However, non-oil investment also remained relatively high throughout this period, equivalent to more than 20 percent of GDP, reflecting in part the establishment and maturing of free trade zones.

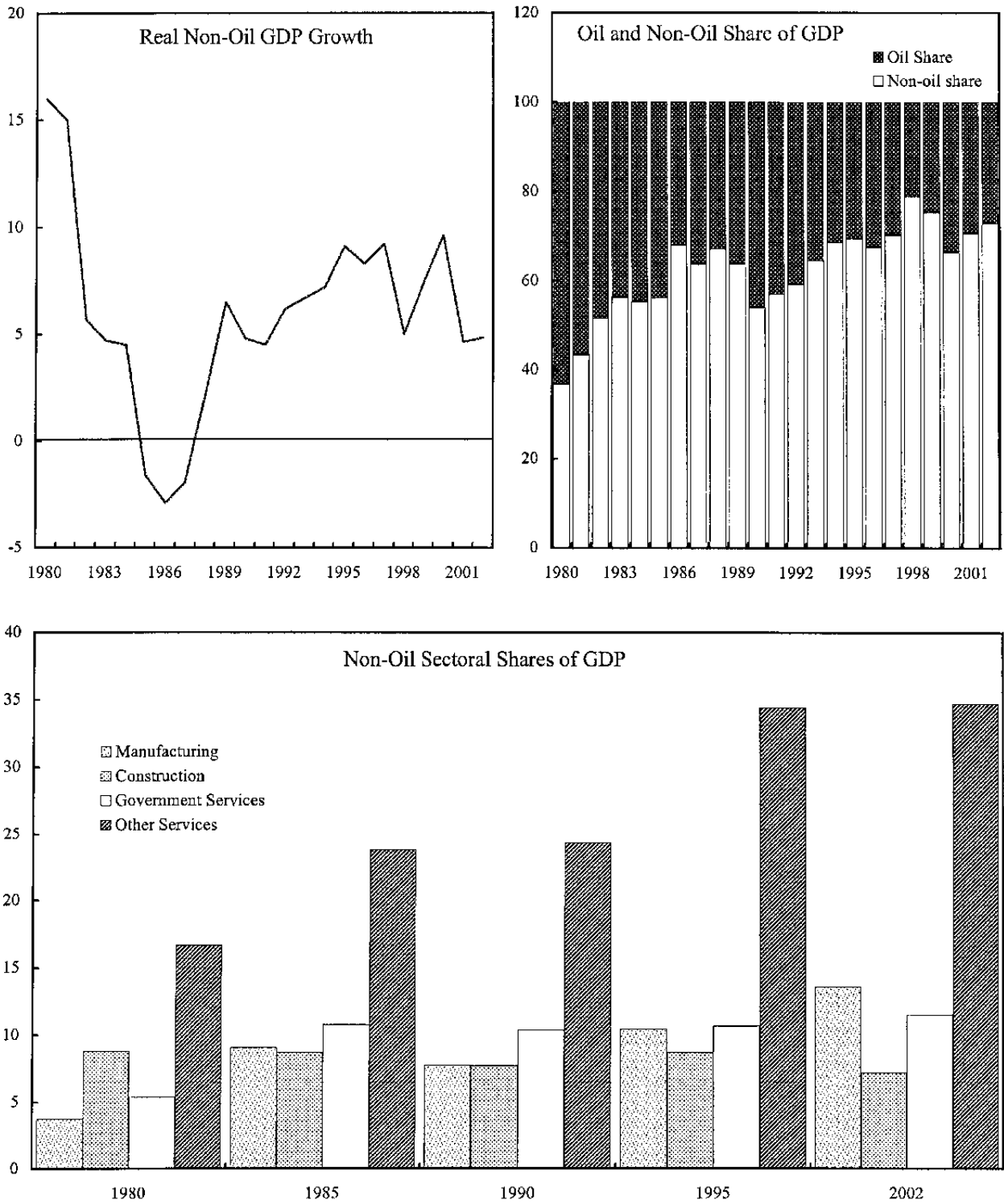
Contribution of labor to non-oil growth

75. As a result of the open border foreign labor policy, employment growth contributed significantly to non-oil growth in the United Arab Emirates. This is confirmed by a growth accounting exercise, which decomposes non-oil output growth into the contributions of its constituent factor inputs, that is, labor, capital, and a residual, usually interpreted as total factor productivity (TFP). The exercise shows that, for plausible parameter assumptions, labor growth accounted for nearly one-third of non-oil growth in the 1980s, and more than one-half in the 1990s.⁴⁵

⁴⁴ Oil output growth has varied significantly over the years in line with OPEC-mandated changes in quota.

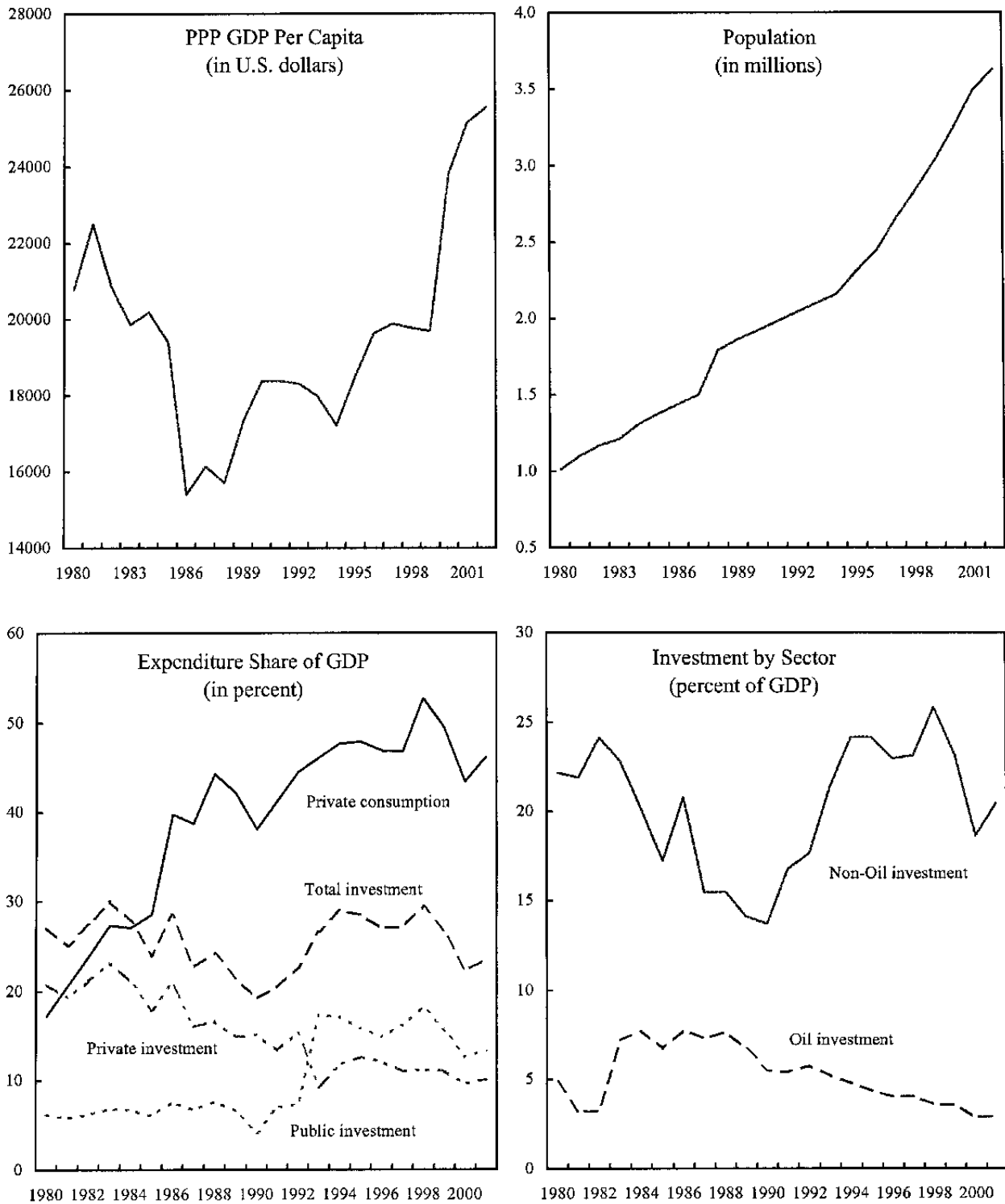
⁴⁵ Capital accumulation accounted for the remainder. The contribution of TFP growth was negligible, similar to the experience of other developing countries. Details are provided in Appendix I.

Figure 6. United Arab Emirates: Non-Oil Growth and the Changing Structure of GDP, 1980–2002
(In percent)



Sources: National authorities; and Fund staff estimates.

Figure 7. United Arab Emirates: GDP Per Capita, Population, Consumption, and Investment, 1980–2002



Sources: National authorities; and IMF, *World Economic Outlook*

76. Access to expatriate workers at internationally competitive wages also contributed to avoiding the consequences of a “Dutch disease” usually observed in oil (or other natural resource) rich economies like the United Arab Emirates.⁴⁶ In most of these economies, the formal or organized labor market comprises mainly nationals. Thus, when the world price of oil rises, the wages of these nationals increase, making the non-oil export sector less competitive, and encouraging the adoption of import substitution policies. In contrast, the U.A.E. economy has been able to avoid “this disease” because it faces a highly elastic supply of foreign labor at competitive international wages and flexible contracts. In fact, the exogenous decline in real and relative wages of low-skilled expatriate workers over the 1990s contributed to boosting employment and output growth by lowering relative labor costs. As a result, employment of low-skilled workers was especially strong in that period, as was the growth of sectors such as trade and construction that use low-skilled workers more intensively (Figure 8).⁴⁷

C. Non-Oil Exports and Competitiveness

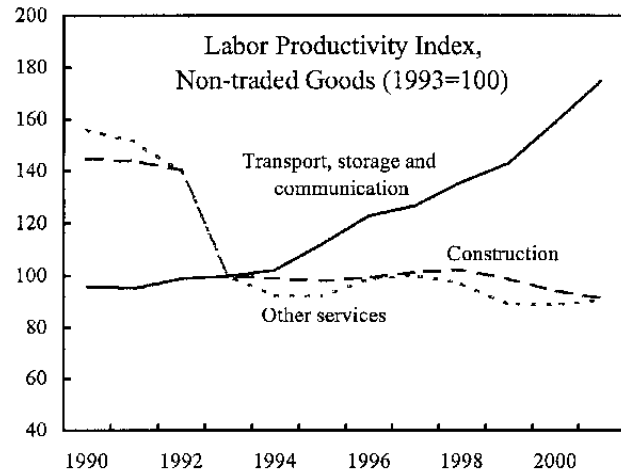
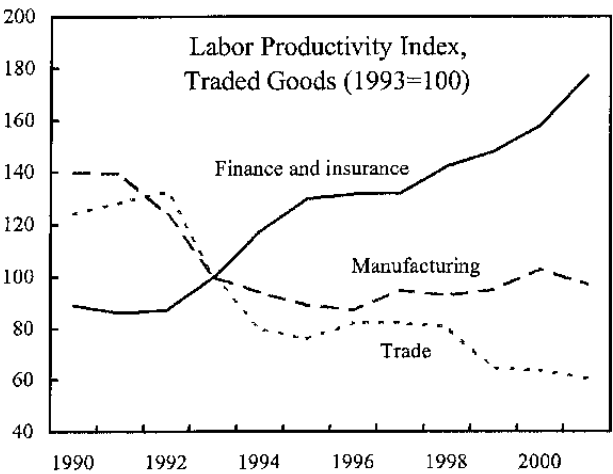
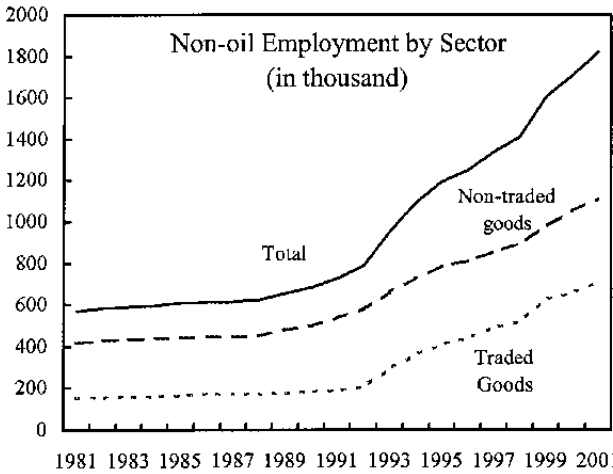
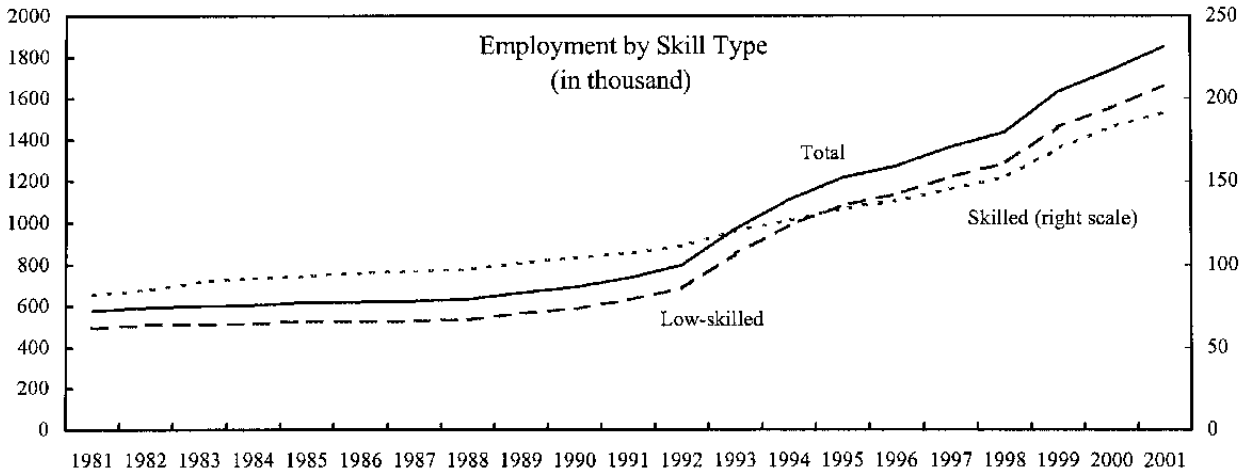
77. Despite a sharp appreciation of the consumer price index (CPI)-based real effective exchange rate (REER) from the mid 1990s through 2002, non-oil exports and re-exports experienced rapid growth. The CPI-based REER appreciated by more than 30 percent owing to the nominal appreciation of the U.S. dollar in international markets, to which the U.A.E. dirham is pegged.⁴⁸ At the same time, non-oil export volume grew at over 16 percent per year, and re-exports at about 6 percent per year. Consequently, the United Arab Emirates’ share of the non-oil import market of its main trading partners doubled, and non-hydrocarbon and re-exports have become as large in value terms as hydrocarbon exports (Figure 9).

⁴⁶ The Dutch disease refers to the negative output and employment effects of an oil (or natural resource) boom on non-oil exports; thus, leading to a contraction in the country’s tradable sector.

⁴⁷ Evidence for declining real and relative wages for low-skilled workers comes from labor productivity data, since wage data by skill type are not available for the United Arab Emirates. Labor productivity in the non-oil sector is defined as the ratio of real value-added in the non-oil sector to the number of workers employed. Labor productivity declined in sectors such as construction and trade that employ low-skilled workers more intensively, and rose in sectors such as finance, insurance, and communications that employ skilled workers more intensively. This mirrors a similar phenomenon in several other countries over the last two decades.

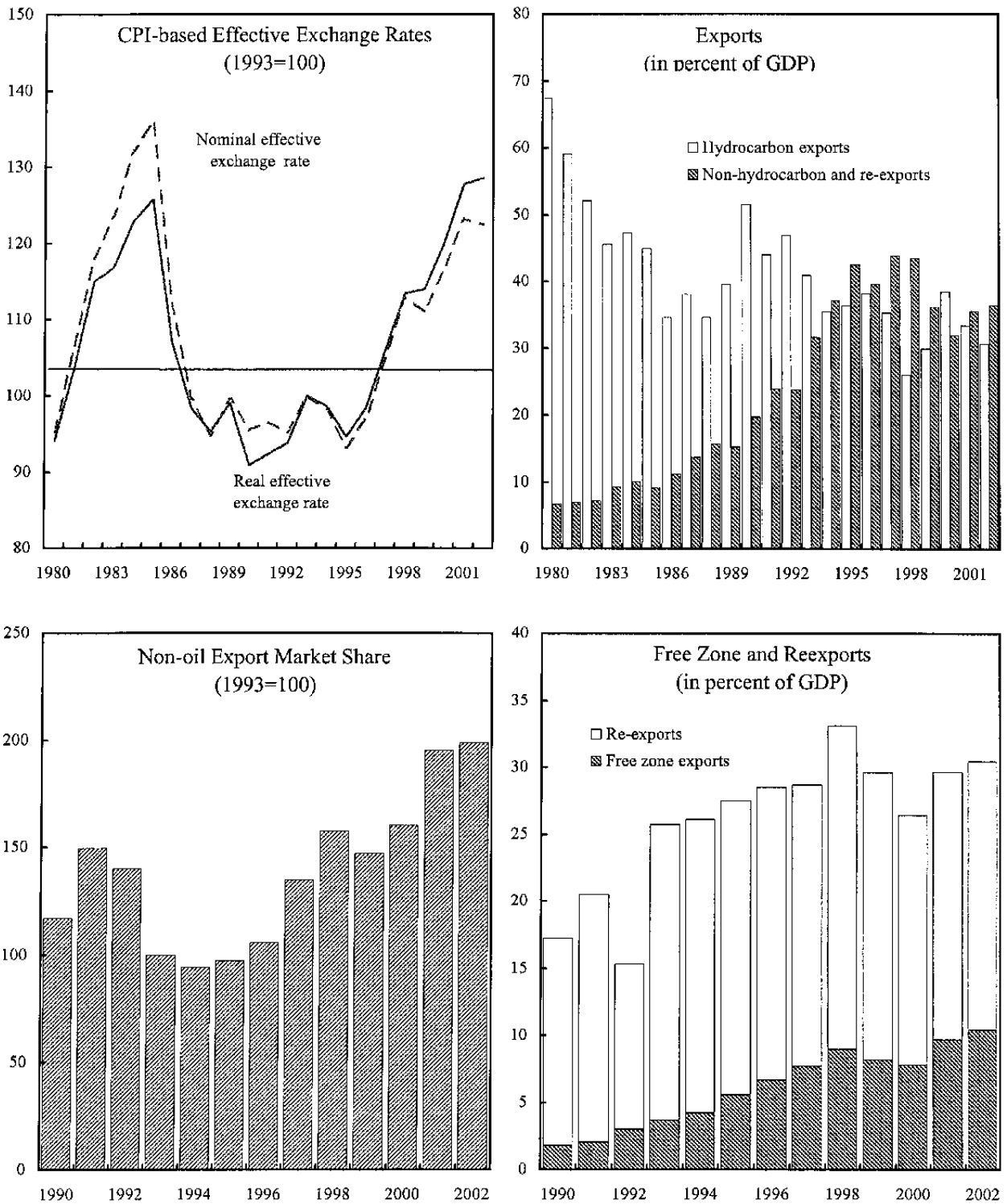
⁴⁸ Computed by the Information Notice System (INS), the weights used in the standard CPI-based REER calculations are based on trade in oil, manufactured goods, and others vis-à-vis developed and developing countries.

Figure 8. United Arab Emirates: Employment, Wages, and Labor Productivity, 1981–2001



Sources: National authorities; and IMF staff estimates.

Figure 9. United Arab Emirates: CPI-based Effective Exchange Rates and Export Performance, 1980–2002



Sources: National authorities; and IMF staff estimates.

78. Competitiveness of non-oil exports derives partly from access to expatriate workers at international wages. Estimates of the unit labor cost-based REER, computed on the basis of trade with advanced country partners showed no appreciation or loss of competitiveness over the period (Figure 10).⁴⁹ Two other factors were important to maintain competitiveness. First, U.S. dollar appreciation did not hinder competitiveness vis-à-vis other partner countries in the region that also peg their currencies to the U.S. dollar. In fact, about 30 percent of non-oil and re-exports go to other GCC countries and Iran. In fact, using non-oil and re-export weights, the CPI-based REER has appreciated by less than 10 percent since the mid-1990s (Figure 10).

79. The business-friendly environment and good infrastructure have also been key sources to maintain competitiveness and growth in the non-oil sectors. These factors have made the United Arab Emirates an attractive place to invest in, particularly in the free zones, for companies seeking to serve the growing markets of the Middle East, North Africa, India, and Pakistan.

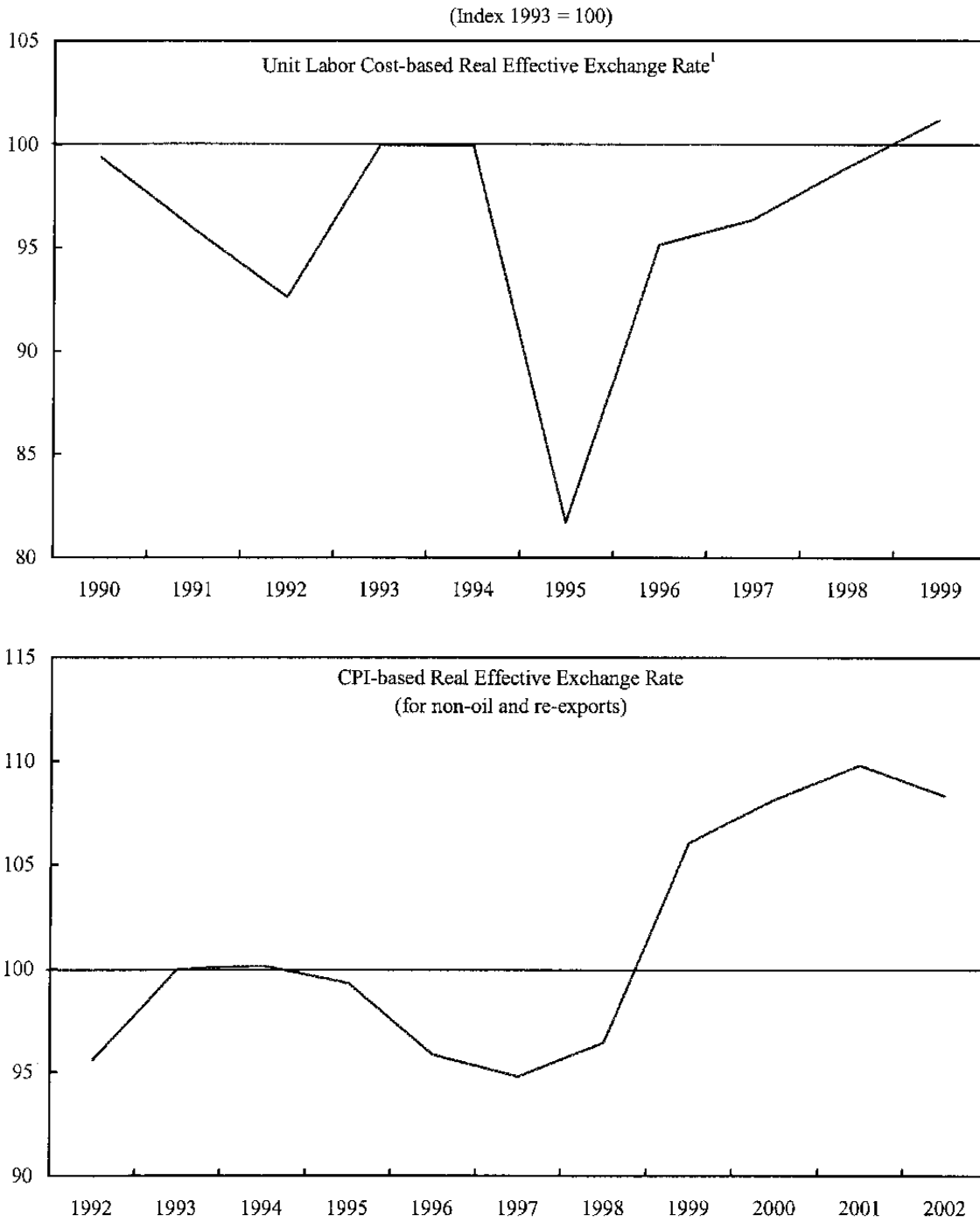
D. Policies for the Employment of Nationals

80. With nearly 50 percent of the national Emirati population currently below the age of 15, a growing number of nationals will certainly enter the labor force in the period ahead. They will most probably seek employment in the private sector because the government is unlikely to remain the employer of first and last resort. In this regard, increasing private sector employment opportunities for nationals may come from two sources.⁵⁰ A larger number of skilled jobs should be created in the coming years as the United Arab Emirates seeks to become a technology and service hub within the region, and as investment increases in knowledge-intensive sectors, such as in the news media, electronics, and internet free trade zones in Dubai. Nevertheless, most job opportunities are likely to come from replacing expatriates in existing skilled positions. So, what policies can the authorities implement to increase employment opportunities for nationals while maintaining competitiveness and strong non-oil growth prospects? To answer this question, consider the following model.

⁴⁹ Unit labor cost (ULC), or the labor cost to produce one unit of output, is obtained by dividing nominal compensation by average real labor productivity. The ULC-based REER is estimated for the business sector, defined as the non-oil sector, excluding government services, and is computed vis-à-vis advanced country partners for which ULC data is available. These countries account for over 70 percent of total exports.

⁵⁰ The unemployment rate among nationals was officially estimated at less than 3 percent in 1995, the year of the last population census.

Figure 10. United Arab Emirates: Alternative Measures of Non-Oil Competitiveness, 1990–2002



Source: IMF staff estimates.

1/ Computed vis-à-vis advanced country partners.

A model of employment and labor substitution

81. A composite non-oil output good is produced in the private sector using three types of labor—nationals, skilled expatriates, and low-skilled expatriates. Nationals and skilled expatriates are assumed to be substitutes in production, which is given by:

$$Y = AK^\gamma L^{\alpha-\gamma} \left[H^{\frac{\sigma-1}{\sigma}} + (hN)^{\frac{\sigma-1}{\sigma}} \right]^{\frac{\sigma}{\sigma-1}(1-\alpha)} \quad (1)$$

where A is the level of technology or total factor productivity (TFP), K is the capital stock, L is the number of low-skilled expatriate workers, H is the number of skilled expatriate workers, N is the number of nationals, h is the human capital or efficiency of national workers, and σ is the elasticity of substitution between skilled expatriate workers and nationals. A high value of σ indicates a high degree of substitutability.

82. Private sector demand for national labor, N^d , depends on the costs of employing the different types of workers, the human capital or efficiency of national workers, the level of technology, and the stock of capital, in the following manner:⁵¹

$$N^d = \mu A^{\frac{1}{\gamma}} K^{\frac{1-\alpha}{\alpha-\gamma}} \frac{h^{\frac{1-\alpha}{\gamma}}}{(w+\beta+c)^{\frac{1-\alpha+\gamma}{\gamma}}} \left[1 + \left(\frac{w+\beta+c}{hw_H} \right)^{\sigma-1} \right]^{\left(\frac{\sigma-1}{\sigma} \right) \left(\frac{1-\alpha}{\gamma} \right) \frac{1-\alpha+\gamma}{\gamma}} \quad (2a)$$

where w and β are, respectively, the private sector wages and benefits paid to nationals, c is the relative cost of firing them, w_L is the compensation of low-skilled expatriates, w_H is the compensation of skilled expatriates, and μ is a constant. As the different factors change, demand changes:

$$N^d = f(w+\beta, c, w_L, w_H, h, K, A) \quad (2b)$$

$\begin{matrix} - & - & - & + & + & + & + \end{matrix}$

(i) As expected, demand is inversely related to the cost of hiring and firing national workers.

(ii) It is also inversely related to the cost of employing low-skilled expatriate workers. Since a reduction in the number of low-skilled employees reduces the marginal productivity of national workers, an increase in the cost of employing low-skilled workers reduces demand not only for these workers but also for national workers.

⁵¹ See Appendix II for the derivation.

(iii) If skilled expatriate workers are sufficiently substitutable with nationals, then demand is positively related to the cost of employing skilled expatriates because increases in these costs lead firms to reduce their demand for skilled expatriate workers and to substitute them with national workers.⁵²

(iv) It is also positively related to the level of human capital or efficiency of national workers, the stock of capital, and technology, because increases in these factors raises the return to employing an additional national worker.

83. The supply of national workers to the private sector depends on the compensation relative to their reservation wages. Reservation wages in turn are determined by the wage, social benefit, and employment policies of the government. If the public sector provides relatively high wages, social benefits, and job security to nationals, then the reservation wage and benefits, $w^* + \beta^*$, will be relatively high. For simplicity, assume an elastic supply of nationals at the reservation wage:

$$w + \beta = w^* + \beta^* \quad (3)$$

Equilibrium private sector employment for national workers, N , is given by equating labor supply and labor demand. Substituting equation (3) in equation (2a) yields:

$$N = \mu A^\gamma K \frac{h^{\frac{1-\alpha}{\gamma}}}{w_L^\gamma (w^* + \beta^* + c)^{\frac{1-\alpha+\gamma}{\gamma}}} \left[1 + \left(\frac{w^* + \beta^* + c}{hw_H} \right)^{\sigma-1} \right]^{\left(\frac{\sigma-1}{\sigma} \right) \left(\frac{1-\alpha}{\gamma} \right) - \frac{1-\alpha+\gamma}{\gamma}} \quad (4a)$$

$$N = f(w^* + \beta^*, c, w_L, w_H, h, K, A) \quad (4b)$$

- - - + + + +

84. Based on equation (4), several policies can be adopted to increase job opportunities for nationals in the private sector. These may be grouped into three broad categories depending on whether they directly affect wages and employment costs, acquisition of human capital, and investment in capital and technology. These policies are structural and market-based, in contrast to quantitative measures, such as job quotas for nationals in the private sector, which may adversely affect competitiveness and non-oil growth by raising costs and limiting employment flexibility.⁵³

⁵² That is, if $\sigma > 1 + (1-\alpha)/\gamma > 1$, then demand for nationals rises with increases in w_H . For the United Arab Emirates, the upper bound for $1 + (1-\alpha)/\gamma$ is estimated to be 1.5.

⁵³ The U.A.E. government has thus far adopted quotas only in the banking sector, albeit applied flexibly.

Employment costs

85. Reducing the relatively high wages in the public sector is likely to lower the reservation wage and increase the willingness of nationals to acquire skills or human capital valuable to private sector employers. Announcing and enforcing strict limits on public sector hiring is likely to further lower the reservation wage by decreasing the likelihood that the public sector will act as the employer of first and last resort for nationals.

86. Separating wages and social benefits in the public sector and providing benefits to all working nationals—not just to those employed in the public sector—is likely to reduce the incentive for nationals to seek public sector employment and lower the reservation wage. Moreover, giving time-specific subsidies for the employment of nationals will likely increase private sector demand for them by lowering their employment costs. However, the fiscal cost will need to be less than the employment benefit for the policy to be welfare improving.⁵⁴

87. Relatively higher firing costs for nationals, including lengthy appeal and investigation of dismissals, raises their relative cost of employment, thus reducing demand. Therefore, establishing a clear set of rules for the appeal of dismissals, including fines or penalties associated with wrongful dismissals, and a mechanism for the rapid resolution of appeals is likely to lower the relative cost of employing nationals, and reduce the disparity in labor mobility between nationals and expatriate workers across sectors.

88. If skilled expatriate workers are sufficiently substitutable with national workers, then increasing the relative cost of hiring skilled expatriate workers, such as by imposing income taxes or fees on the employment of skilled expatriates, is likely to result in substitution away from skilled expatriates and towards nationals.⁵⁵ Such taxes or fees should only be applied to skilled expatriates and not to low-skilled expatriates because the latter complement the productivity of nationals. If taxes or fees are applied to low-skilled expatriate workers, then the cost of hiring them will increase, and the demand for national workers is likely to decrease.

Skill development

89. Enhancing the human capital of nationals and the acquisition of skills that are valuable to the private sector is likely to increase demand and employment. To this end, providing education, including vocational training, reforming school curricula, encouraging firms to establish internships, awarding scholarships as well as targeted training vouchers,

⁵⁴ These subsidies could be financed, for instance, by fees or income taxes on skilled expatriate workers.

⁵⁵ Assuming that the employer in the United Arab Emirates will cover the cost of paying the income tax of his expatriate workers.

and fostering self employment will likely build necessary skills and expertise among prospective national workers.

Investment in capital and knowledge

90. Facilitating the adoption of new technologies and the accumulation of capital is also likely to increase private sector demand and employment by raising the productivity of nationals. In this regard, the establishment of knowledge- and technology-intensive free trade zones in Dubai is likely to help. Moreover, continued out-sourcing of government services and extending 100 percent foreign ownership into non-free trade zone areas will likely promote competition and improve resource allocation, leading to higher productivity and investment.

E. Summary and Conclusions

91. The non-oil output and employment performance of the United Arab Emirates have been very strong, particularly in the last decade, with the abundant supply of expatriate workers at internationally competitive wages being a key source of non-oil growth and competitiveness. In fact, the number of net new jobs created by the private sector has been about 10 times the number of nationals entering the work force each year. However, most of these jobs have been in low- and semi-skilled positions, which have not attracted skilled nationals. As a result, the majority of nationals have continued to find employment in the government.

92. With nearly 50 percent of the national population below the age of 15, a rapidly growing number of nationals are expected to enter the labor force in the period ahead. Since the public sector is not likely to remain the employer of first and last resort, nationals will increasingly need to seek employment in the private sector. The policy challenge therefore is to expand job opportunities for nationals while maintaining non-oil growth and competitiveness.

An effective employment strategy for nationals may include:

- *Increasing the relative attractiveness of working in the private sector* by lowering the wage differential between the public and private sectors; making social benefits available to all working nationals, irrespective of sector of employment; and announcing strict limits on public sector employment.
- *Reducing disparities in labor mobility* by creating a level playing field between hiring and firing national workers vis-à-vis expatriate workers.
- *Encouraging skill acquisition among nationals* by strengthening educational and vocational training, providing time-specific incentives, such as subsidies and scholarships, and promoting self-employment.

- *Facilitating improvements in productivity and investment in capital* by out-sourcing government services, and extending majority foreign ownership in non-free trade zone areas.
- *Using price-based rather than quantity-based market interventions* by charging, for instance, fees for employing or income taxes on skilled expatriate workers.

93. In sum, adopting structural and market-based policies to increase private sector employability and job opportunities for nationals will also maintain the labor market flexibility that is key for sustaining strong non-oil growth and competitiveness.

Non-Oil Growth Accounting for the United Arab Emirates

94. A growth accounting exercise decomposes non-oil output growth into the contributions of its constituent factor inputs, that is, labor, capital, and a residual factor, usually interpreted as total factor productivity (TFP). For the United Arab Emirates, growth in labor employment and capital account for nearly all non-oil output growth.
95. Consider the standard Cobb-Douglas production function for non-oil output, $Y = K^\alpha (AL)^{1-\alpha}$, where Y is output, K is the capital stock of the non-oil sector, L is labor input into the non-oil sector, A is the level of TFP or technology, and α is the capital share of income. Taking logarithms and differentiating with respect to time yields the decomposition of output growth: $g_Y = \alpha g_K + (1-\alpha)g_L + (1-\alpha)g_A$, where g_x is the growth rate of variable x , αg_K is the contribution of capital to non-oil output growth, $(1-\alpha)g_L$ is labor's contribution, $(1-\alpha)g_A$ is the residual or the contribution of TFP growth, and $(1-\alpha)$ is labor's share of income.
96. Data available suggest that worker compensation is about 40 percent of income. The number is low by international standards, but given that the vast majority of workers are expatriates and that employers or owners earn large markups, it is reasonable to assume a value of 0.6 for capital's share, α .
97. Labor is proxied for by the number of employees since the number of hours worked is not available. The stock of capital is constructed using the perpetual inventory method. In other words, capital accumulation is given by $K_{t+1} = (1-\delta_t) K_t + I_t$, where K_t is capital at time t , I_t is investment, and δ_t is the depreciation rate. Given the high replacement rate of structures in the United Arab Emirates and the increasing share of equipment in the stock of capital, δ_t is assumed to be 10 percent for the 1980s and 12 percent for the 1990s.⁵⁶ Finally, an initial capital-output ratio of 2.1 is assumed for 1980.⁵⁷ These assumptions yield the following results:

⁵⁶ These depreciation rates imply replacement within two decades, which correspond to the rapid replacement rate of structures and equipment in the United Arab Emirates.

⁵⁷ The steady state capital output ratio is usually 3. Basic infrastructure investments were ongoing in 1980 and, given that infrastructure investment precedes investment in other sectors, an initial value of 2.1 was assumed.

Table 1. Non-Oil Output Growth and Input Growth, 1981–2000

(Average in the period, in percent)

| Period | Non-Oil Output Growth | Labor Growth | Capital Growth | TFP Growth |
|-----------|-----------------------|--------------|----------------|------------|
| 1981–1990 | 3.6 | 2.5 | 4.0 | 0.3 |
| 1991–2000 | 7.3 | 9.6 | 5.3 | 0.6 |

Sources: National authorities; and Fund staff estimates.

98. Growth in labor and capital account for almost all non-oil output growth. Labor's contribution, given by $(1-\alpha)g_L$, was about 30 percent for the 1980s and over 50 percent for the 1990s, confirming that the abundant supply of expatriate labor has been a major engine of output growth. Capital accumulation accounted for most of the rest. TFP's contribution was about 3 percent, which is similar to numbers in other developing countries.⁵⁸

⁵⁸ The qualitative result of labor and capital accounting for almost all non-oil output growth is robust to the initial capital stock. The quantitative results for the 1980s are sensitive to the initial value, given the short available time series of investment data. The quantitative results for the 1990s are more robust, especially given the assumption of high depreciation rates.

A Model of Demand for National Labor

99. Let private sector non-oil output, Y , be given by:

$$Y = AK^\gamma L^{\alpha-\gamma} \left[H^{\frac{\sigma-1}{\sigma}} + (hN)^{\frac{\sigma-1}{\sigma}} \right]^{\frac{\sigma}{\sigma-1}(1-\alpha)} \quad (1)$$

where A is the level of technology or TFP, K is the capital stock, L is the number of low-skilled expatriate workers, H is the number of skilled expatriate workers, N is the number of nationals, h is the quality or efficiency of national workers, and σ is the elasticity of substitution between skilled expatriate workers and nationals. A high value of σ indicates a high degree of substitutability; $\sigma = \infty$ corresponds to perfect substitutability, while $\sigma = 0$ corresponds to zero or lack of substitutability between skilled expatriate workers and nationals. Since nationals are better substitutes for skilled expatriates than for low-skilled expatriates, the elasticity of substitution between nationals and skilled expatriates is higher than between nationals and low-skilled expatriates. From the Cobb-Douglas production function, the elasticity of between nationals (or skilled expatriates) and low-skilled expatriates is 1. Therefore, σ is greater than 1.

Each period, a firm chooses different types of labor to maximize profits, given wages, technology, and capital. Workers are hired on a period-by-period basis.

$$\begin{aligned} \max_{N,L,H} \quad & Y - (w + \beta)N - w_L L - w_H H - cN \\ \text{s.t.} \quad & Y = AK^\gamma L^{\alpha-\gamma} \left[H^{\frac{\sigma-1}{\sigma}} + (hN)^{\frac{\sigma-1}{\sigma}} \right]^{\frac{\sigma}{\sigma-1}(1-\alpha)} \end{aligned} \quad (5)$$

where w and β are respectively the real wage and benefits paid to a national worker, w_L is the real wage of a low-skilled expatriate worker, w_H is the real wage of a skilled expatriate worker, and c is the cost associated with firing or separating from a national worker. Note that w_L and w_H are the international wages for low-skilled and skilled workers respectively, and hence are exogenously given.

Private sector demand for national labor is obtained by solving the first order conditions and re-writing in terms of the exogenous variables:

$$N^d = \mu A^\gamma K^{\frac{1-\alpha}{\gamma}} \frac{h^{\frac{1-\alpha}{\gamma}}}{w_L^{\frac{\alpha-\gamma}{\gamma}} (w + \beta + c)^{\frac{1-\alpha+\gamma}{\gamma}}} \left[1 + \left(\frac{w + \beta + c}{hw_H} \right)^{\sigma-1} \right]^{\left(\frac{\sigma-1}{\sigma} \right) \left(\frac{1-\alpha}{\gamma} \right) \frac{1-\alpha+\gamma}{\gamma}} \quad (2a)$$

where $\mu = (1-\alpha)^{\frac{1-\alpha+\gamma}{\gamma}} (\alpha-\gamma)^{\frac{\alpha-\gamma}{\gamma}} > 0$ is a constant.

V. REAL GROSS DOMESTIC PRODUCT AND REAL GROSS DOMESTIC INCOME⁵⁹

A. Introduction

100. In an oil-based economy, the real gross domestic income (RGDI) could be a relevant complementary indicator to real gross domestic product (RGDP) to assess economic developments, particularly in periods of sharp changes in oil prices. While RGDP only measures changes in the volume of production, RGDI captures the changes in the real purchasing power of domestic income generated by the change in both output and the terms of trade. A number of key macroeconomic variables, such as consumption, investment, and imports, might be closely associated with changes in RGDI. This chapter provides a theoretical framework for the calculation of RGDI and examines the relationship between RGDI and other key macroeconomic variables in the United Arab Emirates from 1990–2002.

B. The Theoretical Framework

101. RGDI can be represented as follows:

$$RGDI = RGDP + ToT$$

where

$$ToT = \left[\frac{X - M}{P} \right] - \left[\frac{X}{P_x} - \frac{M}{P_m} \right]$$

X = exports at current prices;

M = imports at current prices;

P_x = the price index for exports, a weighted average of oil export and non-oil export deflators.

P_m = the price index for imports;

P = a price index used to deflate the current price trade balance to derive the purchasing power of net exports (CPI is used as a proxy)

102. While there is generally no ambiguity regarding the definition of most of these variables, considerable debate exists as to the appropriate choice of the price index, P . In this exercise, the CPI was chosen as the deflator, with 1995 as the base year, rather than, for instance, the GDP deflator, which would distort the results given its wide variability owing to the sharp changes in crude oil prices over the past decade.

C. Empirical Results

103. As expected, the movements in RGDP and RGDI in the United Arab Emirates have diverged significantly in the past years. While annual RGDP growth has been usually

⁵⁹ This chapter was written by Saeed Mahyoub (MED).

positive from 1990–2002, RGDI growth has ranged from 36.6 percent (2000) to -11.4 percent (1998), reflecting the volatile movements in the terms of trade dictated by the vagaries of world oil prices (Table 11 and Figure 11). A strong positive correlation seems to exist between RGDI and other key macroeconomic variables (Figures 12–14), particularly between RGDI and consumption.

104. To examine more closely this relationship, a statistical correlation for the period 1990–2002 was run on the log of RGDI and the logs of the following economic variables: private consumption, public consumption, total consumption, private investment, public investment, total investment, and imports. The results show correlation coefficients ranging between 0.78 and 0.90 (Table 12).⁶⁰ In addition, a Johansen cointegration test was run on RGDI and the other variables. All the results, except for private and total investment, show a strong cointegration at the 5 percent confidence level (Table 13). The outcome of total investment was the result of poor cointegration of private investment, a major component of total investment. In this model, each of the economic variable co-varies with RGDI according to the following cointegration relation:

$$\text{Log (economic variable)} = \alpha \text{ log (RGDI)} + C$$

(t_{stats}) (t_{stats})

105. The t statistics in parenthesis in Table 3 are significant for consumption (private, public, and total) and for public investment, and not significant for private investment, and total investment. This is to be expected since an increase in income, owing to a rise in oil prices, increases the wealth of the government directly, which filter down to a rise in consumption. Private investment decisions, however, do not seem to be influenced directly by variations in RGDI.

⁶⁰ Note that RGDP also yielded significant correlation with these economic variables (results not shown).

Table 11. Real Gross Domestic Product and Income, and Oil Prices,
1990–2002

| | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | Prel. 2001 | Est. 2002 |
|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------------|--------------|
| (In millions of U.S. dollars at constant 1995 prices; unless otherwise specified) | | | | | | | | | | | | | |
| Real GDP | 34,123 | 34,948 | 36,165 | 36,973 | 39,956 | 42,741 | 45,368 | 49,121 | 49,806 | 51,977 | 57,180 | 59,365 | 60,260 |
| Oil GDP 1/ | 15,699 | 15,699 | 15,699 | 12,710 | 12,761 | 13,062 | 13,218 | 14,002 | 12,939 | 12,351 | 13,727 | 13,898 | 12,591 |
| RGDI | 42,877 | 39,587 | 40,396 | 38,955 | 40,330 | 42,741 | 49,522 | 53,179 | 47,091 | 54,627 | 74,602 | 72,097 | 73,509 |
| Average U.A.E. oil prices (U.S. dollars per barrel) | 21.0 | 18.0 | 18.2 | 16.0 | 15.6 | 16.7 | 19.9 | 18.8 | 12.6 | 17.5 | 27.2 | 23.8 | 24.3 |
| (Percent change) | | | | | | | | | | | | | |
| Real GDP | ... | 2.4 | 3.5 | 2.2 | 8.1 | 7.0 | 6.1 | 8.3 | 1.4 | 4.4 | 10.0 | 3.8 | 1.5 |
| Oil GDP 1/ | ... | 0.0 | 0.0 | -19.0 | 0.4 | 2.4 | 1.2 | 5.9 | -7.6 | -4.5 | 11.1 | 1.2 | -9.4 |
| RGDI | ... | -7.7 | 2.0 | -3.6 | 3.5 | 6.0 | 15.9 | 7.4 | -11.4 | 16.0 | 36.6 | -3.4 | 2.0 |
| Average U.A.E. oil prices (U.S. dollars per barrel) | ... | -14.3 | 1.2 | -12.2 | -2.6 | 6.9 | 19.3 | -5.4 | -33.1 | 39.1 | 55.7 | -12.6 | 2.2 |

Sources: National authorities; and Fund staff estimates.

1/ Includes crude oil, petroleum products, and gas.

Table 12. Correlation Matrix

| | RGDI |
|---------------------|------|
| Imports | 0.82 |
| Private consumption | 0.90 |
| Private investment | 0.84 |
| Public consumption | 0.86 |
| Public investment | 0.78 |
| Total consumption | 0.89 |
| Total investment | 0.83 |

Source: Fund staff estimates.

Table 13. Summary of the Cointegration Relations 1/

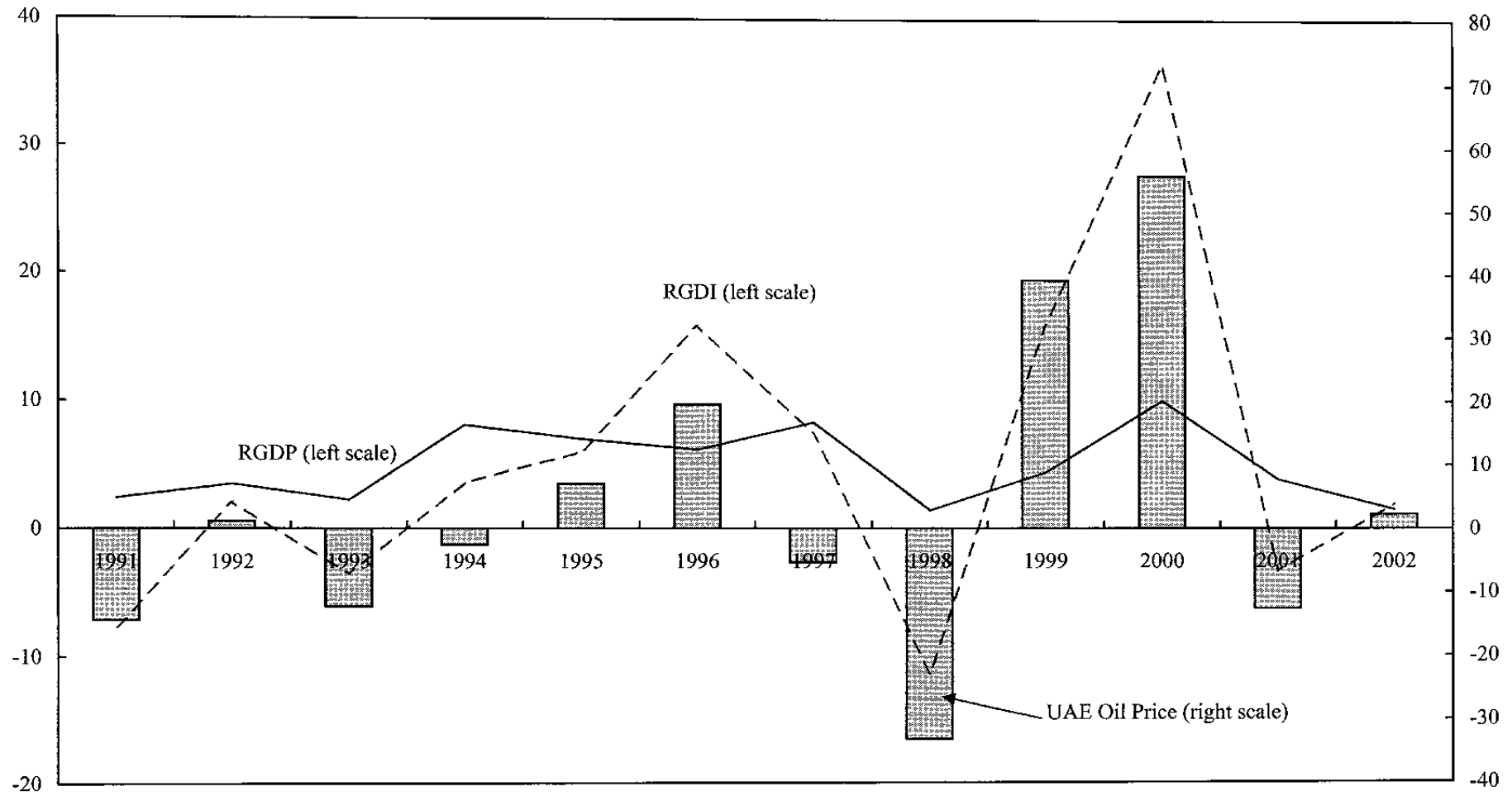
Hypothesized number of cointegration equation = none

| Cointegrating Equation | Trace Statistics |
|--|------------------|
| LPRIVCONS = 2.076 LRGDI - 12.923 (17.75) (-10.03) | 35.598 |
| LPUBCONS = 0.724 LRGDI + 1.296 (4.29) (0.712) | 29.113 |
| LTOTCONS = 3.046 LRGDI - 23.691 (6.28) (-4.46) | 26.215 |
| LIMPORTS = 0.397 LRGDI + 6.924 (0.538) (0.861) | 24.118 |
| LTOTINV = 0.470 LRGDI + 4.809 (0.964) (0.901) | 16.64 |
| LPUBINV = 0.921 LRGDI - 1.369 (4.819) (0.663) | 28.783 |
| LPRIVINV = 0.772 LRGDI + 0.339 (1.484) (0.061) | 8.613 |

Source: Fund staff estimates.

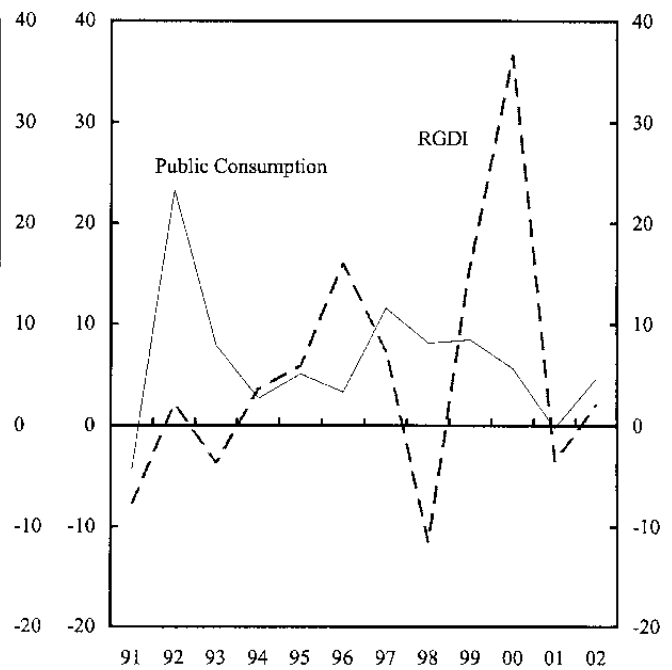
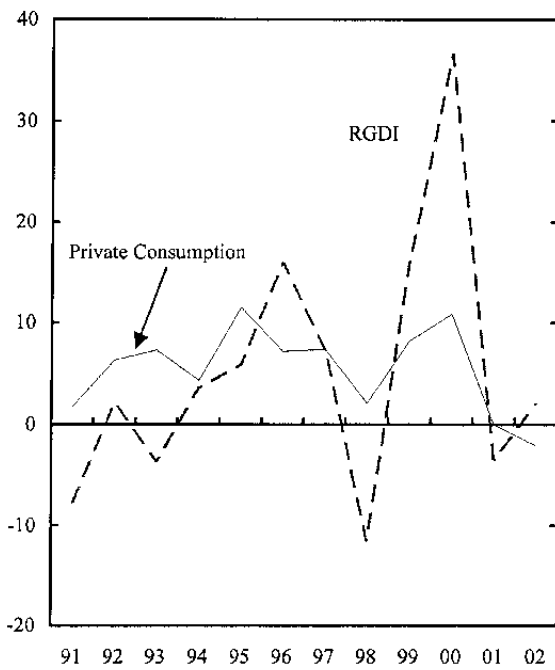
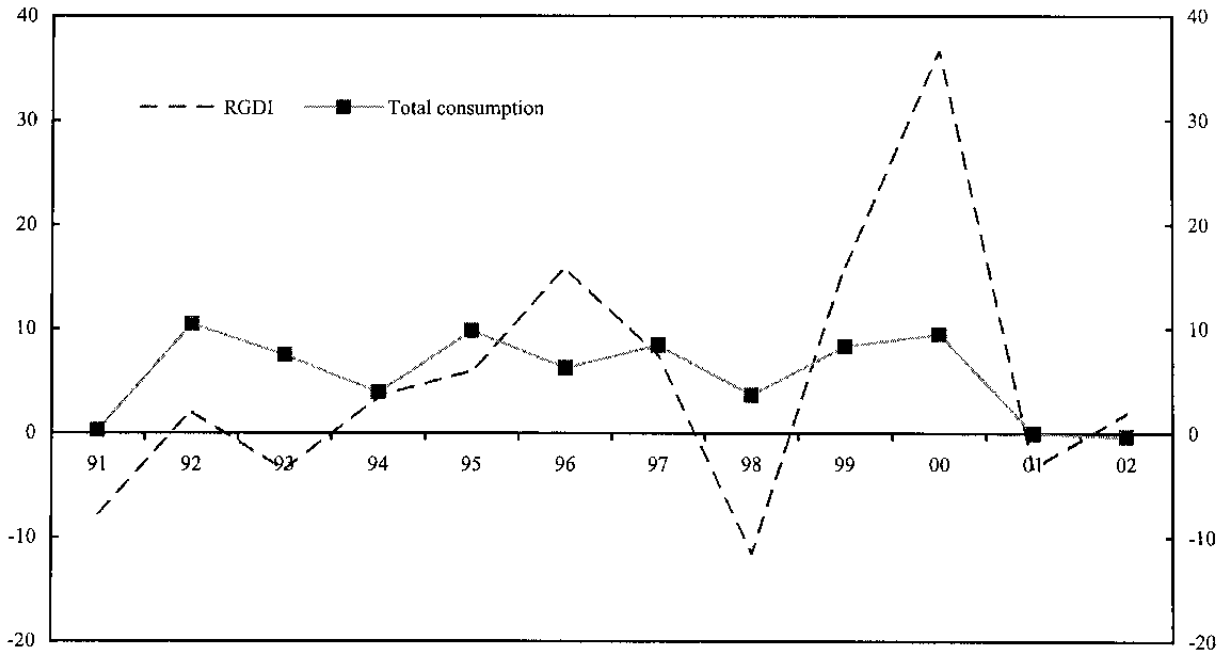
1/ Five percent critical value 19.96.

Figure 11. United Arab Emirates: Real GDP, Real GDI, and Crude Oil Prices, 1991–2002
(Percent change)



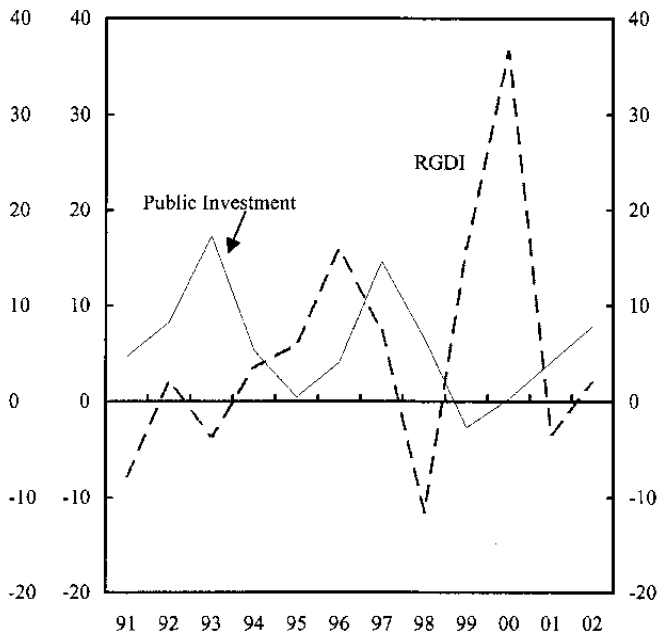
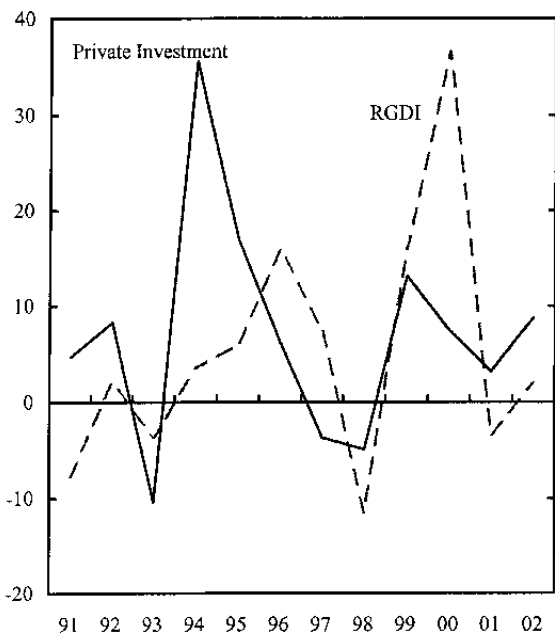
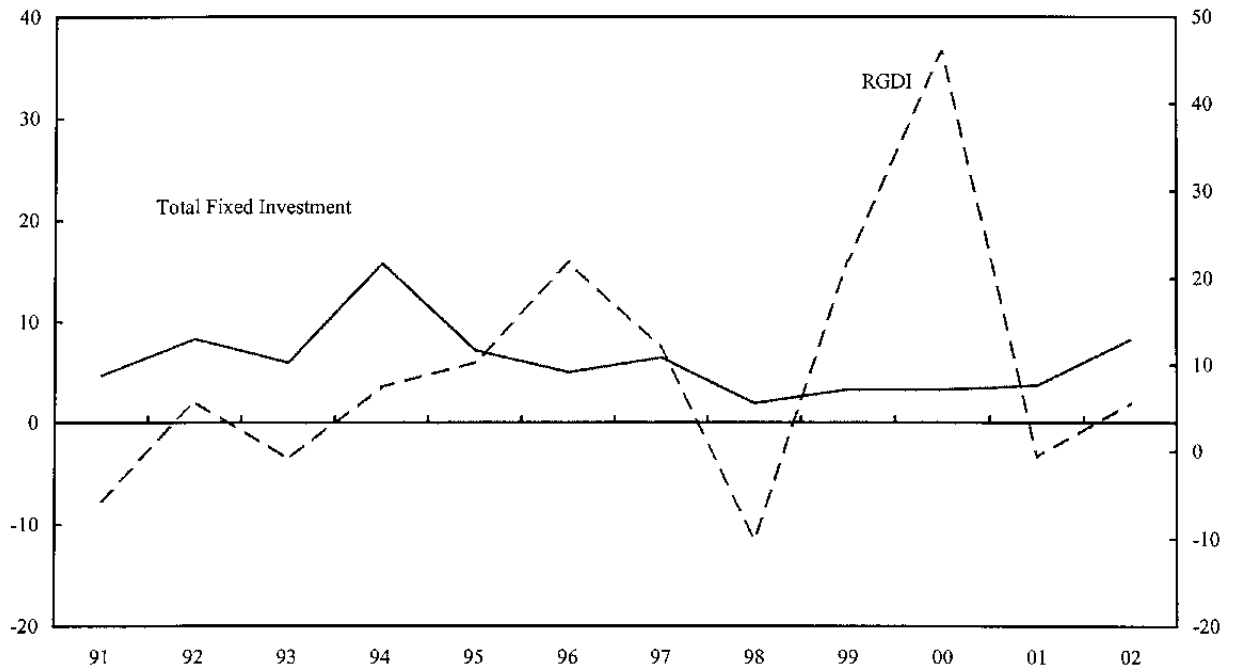
Sources: National authorities; and Fund staff estimates.

Figure 12. United Arab Emirates: Change in RGDI and Consumption, 1991–2002
(In percent)



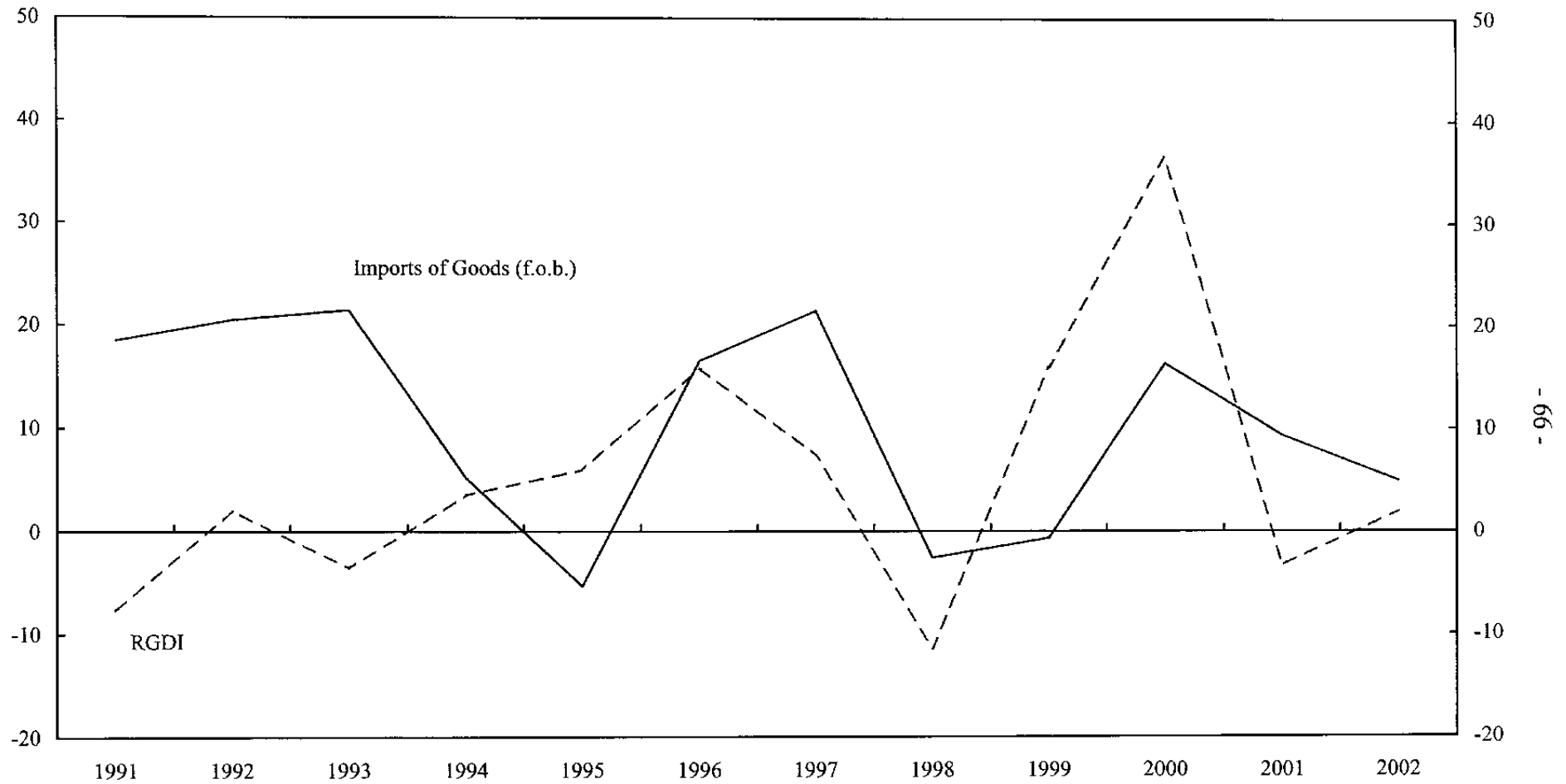
Sources: National authorities; and Fund staff estimates.

Figure 13. United Arab Emirates: Change in RGDI and Investemnt, 1991–2002
(In percent)



Source: National authorities; and Fund staff estimates.

Figure 14. United Arab Emirates: RGDI and Imports, 1991–2002
(Percent change)



Sources: National authorities; and Fund staff estimates.

United Arab Emirates: Basic Data

I. Social and Demographic Indicators (1999, except as indicated)

| Population characteristics | | | |
|---|-------|--------------------------------------|---------|
| Total population (in millions, 2001) 1/ | 3.49 | Age distribution (in thousands) | |
| Population growth (in percent) 1/ | 7.40 | 14 and under | 751.7 |
| Density (per sq km) | 33.67 | 15-64 | 1,930.3 |
| Life expectancy at birth (years) | 75.25 | Over 64 | 60.5 |
| Crude birth rate (per thousand) | 17.54 | Percentage | |
| Crude death rate (per thousand) | 3.30 | Urban | 85.5 |
| Infant mortality (per thousand) | 7.64 | Rural | 14.5 |
| Access to safe water (most recent) | | Nutrition (most recent) | |
| Percentage of population | 100.0 | Per capita calories per day | 3,309 |
| Health | | Education (1996), percent | |
| Physicians per 1,000 people | 1.8 | Primary school enrollment percentage | |
| Access to health care | | Male | 90.7 |
| (percentage of population) | 99.0 | Female | 87.4 |
| | | Adult literacy rate (1995) | 84 |

Sources: Ministry of Planning; and World Bank, *World Development Indicators*.

1/ Including expatriates.

II. Selected Economic Indicators, 1997-2001

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|---|----------------------------------|-------|-------|-------|---------------|
| | (In billions of U.A.E. dirhams) | | | | |
| GDP at market prices | 188.4 | 178.1 | 202.7 | 259.0 | 256.6 |
| | (In millions of barrels per day) | | | | |
| Hydrocarbon production | | | | | |
| Crude oil production (in millions of bbl./day) 1/ | 2.43 | 2.43 | 2.26 | 2.41 | 2.44 |
| Average price (US\$ per barrel) | 18.80 | 12.57 | 17.48 | 27.21 | 23.78 |
| Natural gas production (In bcm per year) | 32.7 | 33.4 | 34.6 | 35.9 | 41.3 |
| | (Annual percentage changes) | | | | |
| National income and prices | | | | | |
| Real GDP (at factor cost) | 8.3 | 1.4 | 4.4 | 10.0 | 3.8 |
| Oil and natural gas | 5.9 | -7.6 | -4.5 | 11.1 | 1.2 |
| Non-oil sectors 2/ | 9.2 | 5.0 | 7.5 | 9.7 | 4.6 |
| Consumer prices | 2.9 | 2.0 | 2.1 | 1.4 | 2.2 |
| | (In percent of GDP) | | | | |
| Investment and saving | | | | | |
| Gross domestic investment | 28.1 | 30.6 | 27.8 | 23.2 | 24.4 |
| Government | 5.8 | 7.9 | 6.8 | 4.3 | 5.2 |
| Nongovernment | 22.3 | 23.0 | 21.0 | 18.9 | 19.2 |
| National saving | 41.1 | 35.1 | 38.8 | 49.1 | 40.0 |
| Government | 12.2 | 5.6 | 3.1 | 11.1 | 2.0 |
| Nongovernment | 28.9 | 29.8 | 35.7 | 38.0 | 38.0 |

II. Selected Economic Indicators, 1997–2001

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|------------------------------------|--|--------|--------|--------|---------------|
| | (In percent of GDP) | | | | |
| Consolidated government finances | | | | | |
| Revenue | 37.5 | 34.5 | 31.7 | 38.6 | 32.1 |
| Oil | 21.9 | 14.3 | 13.8 | 21.6 | 18.9 |
| Non-oil | 15.5 | 20.2 | 17.8 | 17.0 | 13.2 |
| <i>Of which: investment income</i> | 7.2 | 10.5 | 9.5 | 9.8 | 6.1 |
| Expenditure, <i>of which</i> | 33.8 | 40.3 | 37.3 | 32.6 | 37.4 |
| Current | 25.2 | 28.9 | 28.6 | 27.5 | 30.2 |
| Overall balance | 3.4 | -5.8 | -5.6 | 6.0 | -5.3 |
| Government debt 3/ | 4.3 | 6.6 | 7.2 | 4.6 | 4.0 |
| | (Changes in percent of beginning M2 stock) | | | | |
| Money and credit 4/ | | | | | |
| Broad money (M2) | 9.0 | 4.2 | 11.4 | 11.1 | 10.6 |
| Foreign assets (net) | -1.2 | 0.4 | 4.3 | 10.9 | 4.0 |
| Domestic assets, <i>of which:</i> | 10.3 | 3.8 | 7.1 | 0.3 | 6.6 |
| Claims on government (net) | 0.7 | -1.3 | 1.1 | -4.7 | 1.7 |
| Claims on private sector | 13.0 | 13.9 | 7.6 | 7.8 | 7.6 |
| | (In percent per annum, end of period) | | | | |
| Interest rates | | | | | |
| Dirham (three month interbank) | 5.58 | 5.45 | 5.53 | 6.53 | 3.50 |
| Lending rate | 9.54 | 9.02 | 10.59 | 9.60 | 7.82 |
| | (In billions of U.S. dollars) | | | | |
| External sector | | | | | |
| Exports, <i>of which:</i> | 40.8 | 33.4 | 36.5 | 49.6 | 48.2 |
| Crude oil | 14.6 | 10.0 | 13.6 | 21.7 | 17.7 |
| Gas | 2.9 | 2.1 | 2.3 | 3.7 | 3.4 |
| Non-hydrocarbon exports | 11.8 | 9.3 | 8.2 | 9.4 | 10.9 |
| Reexports | 10.8 | 11.6 | 11.8 | 13.1 | 13.9 |
| Imports, f.o.b. | -30.0 | -28.7 | -27.9 | -30.8 | -32.8 |
| Services (net) | -6.1 | -5.9 | -5.9 | -6.2 | -6.4 |
| Income (net) | 6.4 | 7.1 | 7.3 | 9.6 | 6.1 |
| Transfers (net) | -3.6 | -3.7 | -3.9 | -4.0 | -4.6 |
| Current account balance | 6.7 | 2.2 | 6.0 | 18.3 | 10.4 |
| (In percent of GDP) | 13.1 | 4.5 | 10.9 | 25.9 | 14.9 |
| Central bank reserves | 8.6 | 9.3 | 10.9 | 13.8 | 14.3 |
| In months of imports | 3.6 | 4.0 | 4.3 | 5.1 | 4.9 |
| As percent of reserve money | 209.5 | 210.4 | 199.8 | 250.2 | 242.8 |
| As percent of short-term debt 5/ | 276.2 | 147.6 | 218.7 | 251.3 | 336.0 |
| Total external debt 6/ | 16.9 | 18.1 | 18.5 | 18.2 | 14.1 |
| Exchange rate | | | | | |
| Dirham/US\$ (end of period) | 3.6725 | 3.6725 | 3.6725 | 3.6725 | 3.6725 |
| REER (average, 1990=100) | 116.5 | 124.6 | 125.2 | 132.0 | 140.5 |

Sources: National authorities; Bank for International Settlements (BIS); and Fund staff estimates.

1/ Includes condensates, which are not subject to OPEC quotas.

2/ Includes refined products and liquid gas, which account for about 7.5 percent of non-hydrocarbon GDP.

3/ Gross due to domestic banks. No official external debt is acknowledged.

4/ Beginning 2000 results adjusted for change in compilation procedure.

5/ Debt due within one year, from BIS/OECD statistics.

6/ Central Bank and commercial bank foreign liabilities, plus private nonbanks (BIS source).

Table 1. United Arab Emirates: Sectoral Origin of GDP at Constant 1995 Prices,
1997–2001

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|---|---------|---------|---------|---------|----------------------|
| Gross domestic product | 180,322 | 182,913 | 190,884 | 209,992 | 218,016 |
| Crude oil production | 51,401 | 47,517 | 45,360 | 50,414 | 51,040 |
| Other sectors | 128,921 | 135,396 | 145,524 | 159,578 | 166,976 |
| Agriculture | 5,982 | 6,231 | 7,346 | 8,733 | 8,500 |
| Industry | 41,951 | 43,680 | 46,297 | 51,000 | 51,663 |
| Mining and quarrying | 589 | 612 | 637 | 662 | 672 |
| Manufacturing 1/ | 22,229 | 23,311 | 25,390 | 29,681 | 29,753 |
| Electricity and water | 3,887 | 4,011 | 4,244 | 4,487 | 4,748 |
| Construction | 15,246 | 15,746 | 16,026 | 16,170 | 16,490 |
| Services | 80,988 | 85,485 | 91,881 | 99,845 | 106,813 |
| Trade | 22,635 | 23,553 | 24,485 | 25,321 | 26,376 |
| Wholesale and retail trade | 19,207 | 19,732 | 20,032 | 20,676 | 21,146 |
| Restaurants and hotels | 3,428 | 3,821 | 4,453 | 4,645 | 5,230 |
| Transportation, storage, and communication | 11,726 | 12,896 | 14,177 | 16,211 | 18,113 |
| Finance and insurance | 10,815 | 12,546 | 13,201 | 14,207 | 16,144 |
| Real estate | 17,187 | 17,772 | 18,454 | 18,618 | 18,906 |
| Government services | 18,103 | 19,296 | 21,430 | 24,296 | 25,990 |
| Other services | 4,432 | 4,617 | 4,892 | 5,242 | 5,717 |
| Less: | | | | | |
| Imputed bank service charges | 3,910 | 5,195 | 4,758 | 4,050 | 4,433 |

Source: Ministry of Planning.

1/ Includes natural gas and petroleum-processing industries.

Table 2. United Arab Emirates: Real Growth by Economic Sector, 1997–2001

(Change in percent)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|---|------|------|------|-------|----------------------|
| Gross domestic product | 8.3 | 1.4 | 4.4 | 10.0 | 3.8 |
| Crude oil production | 5.9 | -7.6 | -4.5 | 11.1 | 1.2 |
| Other sectors | 9.2 | 5.0 | 7.5 | 9.7 | 4.6 |
| Agriculture | 18.9 | 4.2 | 17.9 | 18.9 | -2.7 |
| Industry | 15.6 | 4.1 | 6.0 | 10.2 | 1.5 |
| Mining and quarrying | 2.4 | 3.9 | 4.1 | 3.9 | 1.5 |
| Manufacturing 1/ | 24.3 | 4.9 | 8.9 | 16.9 | 0.7 |
| Electricity and water | 13.4 | 3.2 | 5.8 | 5.7 | 5.8 |
| Construction | 5.9 | 3.3 | 1.8 | 0.9 | 2.0 |
| Services | 5.6 | 5.6 | 7.5 | 8.7 | 7.0 |
| Trade | 8.9 | 4.1 | 4.0 | 3.4 | 4.2 |
| Wholesale and retail trade | 7.1 | 2.7 | 1.5 | 3.2 | 2.3 |
| Restaurants and hotels | 20.4 | 11.5 | 16.5 | 4.3 | 12.6 |
| Transportation, storage, and communication | 5.9 | 10.0 | 9.9 | 14.3 | 11.7 |
| Finance and insurance | 10.0 | 16.0 | 5.2 | 7.6 | 13.6 |
| Real estate | 0.8 | 3.4 | 3.8 | 0.9 | 1.5 |
| Government services | 3.6 | 6.6 | 11.1 | 13.4 | 7.0 |
| Other services | 7.9 | 4.2 | 6.0 | 7.2 | 9.1 |
| Less: | | | | | |
| Imputed bank service charges | 7.9 | 32.9 | -8.4 | -14.9 | 9.5 |

Source: Ministry of Planning.

1/ Includes natural gas and petroleum processing industries.

Table 3. United Arab Emirates: Sectoral Origin of GDP at Current Prices, 1997–2001

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|---|---------|---------|---------|---------|----------------------|
| Gross domestic product | 187,550 | 177,360 | 201,797 | 257,979 | 255,303 |
| Crude oil production | 55,799 | 37,402 | 49,794 | 86,690 | 74,892 |
| Other sectors | 131,751 | 139,958 | 152,003 | 171,289 | 180,411 |
| Agriculture | 6,052 | 6,325 | 7,551 | 9,047 | 8,862 |
| Industry | 43,026 | 45,125 | 48,232 | 56,916 | 58,120 |
| Mining and quarrying | 594 | 619 | 656 | 682 | 697 |
| Manufacturing 1/ | 22,851 | 23,987 | 26,539 | 34,762 | 35,087 |
| Electricity and water | 3,969 | 4,127 | 4,416 | 4,615 | 4,890 |
| Construction | 15,612 | 16,392 | 16,621 | 16,857 | 17,446 |
| Services | 82,673 | 88,508 | 96,220 | 105,326 | 113,429 |
| Trade | 23,563 | 25,005 | 26,255 | 27,294 | 28,538 |
| Wholesale and retail trade | 19,994 | 20,955 | 21,535 | 22,268 | 22,838 |
| Restaurants and hotels | 3,569 | 4,050 | 4,720 | 5,026 | 5,700 |
| Transportation, storage, and communication | 11,972 | 13,347 | 15,247 | 17,247 | 19,381 |
| Finance and insurance | 11,042 | 13,023 | 13,663 | 14,862 | 16,903 |
| Real estate | 17,102 | 17,664 | 18,384 | 19,068 | 19,662 |
| Government services | 18,465 | 20,010 | 22,458 | 25,561 | 27,504 |
| Other services | 4,514 | 4,758 | 5,071 | 5,465 | 6,007 |
| Less: | | | | | |
| Imputed bank service charges | 3,985 | 5,299 | 4,858 | 4,171 | 4,566 |

Source: Ministry of Planning.

1/ Includes natural gas and petroleum processing industries.

Table 4. United Arab Emirates: Sectoral Distribution of Nominal GDP, 1993–2001

(In millions of dirhams)

| | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------|
| Oil sector 1/ | 53,211 | 50,188 | 54,945 | 65,330 | 64,565 | 46,036 | 59,280 | 102,636 | 86,713 |
| Government sector | 22,200 | 23,935 | 26,620 | 28,128 | 29,611 | 32,054 | 36,051 | 40,866 | 44,779 |
| Private sector | 57,795 | 67,786 | 75,337 | 82,320 | 93,374 | 99,270 | 106,466 | 114,477 | 123,811 |
| GDP | 133,206 | 141,909 | 156,902 | 175,778 | 187,550 | 177,360 | 201,797 | 257,979 | 255,303 |

Source: Ministry of Planning.

1/ Includes crude oil, condensates, liquid gas, and refined products.

Table 5. United Arab Emirates: Use of Resources at Current Prices, 1997–2001

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|--------------------------------------|---------|---------|---------|---------|----------------------|
| Consumption | 118,069 | 128,253 | 136,482 | 152,559 | 160,763 |
| Public | 29,387 | 35,226 | 36,117 | 39,885 | 42,131 |
| Private | 88,682 | 93,027 | 100,365 | 112,674 | 118,632 |
| Fixed investment | 50,951 | 52,195 | 53,916 | 57,398 | 59,823 |
| Public | 30,295 | 32,402 | 31,564 | 32,643 | 34,157 |
| Private | 20,656 | 19,793 | 22,352 | 24,755 | 25,666 |
| Change in inventories | 1,800 | 2,320 | 2,500 | 2,680 | 2,792 |
| Domestic expenditure | 170,820 | 182,768 | 192,898 | 212,637 | 223,378 |
| Net exports of goods and services | 17,170 | -4,650 | 9,800 | 46,610 | 33,186 |
| Exports | 156,150 | 129,600 | 141,710 | 190,070 | 185,466 |
| Imports | 138,980 | 134,250 | 131,910 | 143,460 | 152,280 |
| GDP at market prices | 187,990 | 178,118 | 202,698 | 258,991 | 256,564 |
| Plus: Subsidies, less indirect taxes | -440 | -758 | -901 | -1,012 | -1,261 |
| Subsidies | 1,902 | 1,814 | 1,780 | 1,794 | 1,725 |
| Indirect taxes | 2,342 | 2,572 | 2,681 | 2,806 | 2,986 |
| Equals: GDP at factor cost | 187,550 | 177,360 | 201,797 | 257,979 | 255,303 |

Source: Ministry of Planning.

Table 6. United Arab Emirates: Per Capita GDP and Distribution of GDP
at Factor Cost by Emirate, 1997–2001

| Emirate | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|---------------------------------|---------|---------|---------|---------|----------------------|
| (In millions of U.A.E. dirhams) | | | | | |
| Gross domestic product (GDP) | 187,550 | 177,360 | 201,797 | 257,979 | 255,303 |
| Abu Dhabi | 110,302 | 96,772 | 112,194 | 159,624 | 152,975 |
| Dubai | 47,879 | 49,876 | 55,810 | 62,335 | 64,590 |
| Sharjah | 17,627 | 17,885 | 19,866 | 21,380 | 22,450 |
| Ajman | 3,262 | 3,545 | 3,888 | 4,006 | 4,166 |
| Umm al-Qaiwan | 1,066 | 1,197 | 1,306 | 1,405 | 1,471 |
| Ras al-Khaimah | 4,838 | 5,218 | 5,636 | 5,940 | 6,225 |
| Fujairah | 2,576 | 2,867 | 3,097 | 3,289 | 3,427 |
| (In U.A.E. dirhams) | | | | | |
| Per capita GDP | 70,720 | 62,583 | 66,534 | 79,451 | 73,195 |
| Abu Dhabi | 106,675 | 87,656 | 94,999 | 126,085 | 112,316 |
| Dubai | 62,587 | 60,676 | 63,062 | 65,478 | 62,769 |
| Sharjah | 40,061 | 38,298 | 39,892 | 40,416 | 39,946 |
| Ajman | 23,468 | 23,477 | 23,564 | 22,380 | 21,255 |
| Umm al-Qaiwan | 27,333 | 28,500 | 29,022 | 28,673 | 28,288 |
| Ras al-Khaimah | 31,829 | 32,818 | 34,158 | 34,535 | 34,392 |
| Fujairah | 31,036 | 32,213 | 32,947 | 32,890 | 32,330 |

Source: Ministry of Planning.

Table 7. United Arab Emirates: Gross Fixed Capital Formation by Sector at Current Prices,
1997-2001

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|--|--------|--------|--------|--------|----------------------|
| Total fixed investment | 50,951 | 52,195 | 53,916 | 57,398 | 59,823 |
| Oil sector | 7,575 | 6,385 | 7,180 | 7,280 | 7,530 |
| Other sectors | 43,376 | 45,810 | 46,736 | 50,118 | 52,293 |
| Agriculture | 1,058 | 1,554 | 1,413 | 1,534 | 1,644 |
| Industry | 13,647 | 14,108 | 14,497 | 17,374 | 18,859 |
| Mining and quarrying | 114 | 120 | 123 | 154 | 164 |
| Manufacturing 1/ | 7,585 | 6,793 | 7,740 | 9,570 | 10,283 |
| Electricity and water | 3,348 | 4,470 | 3,764 | 4,600 | 5,359 |
| Construction | 2,600 | 2,725 | 2,870 | 3,050 | 3,053 |
| Services | 28,671 | 30,148 | 30,826 | 31,210 | 31,790 |
| Trade | 4,131 | 4,320 | 4,717 | 5,492 | 5,844 |
| Wholesale and retail trade | 1,900 | 2,039 | 2,267 | 2,505 | 2,557 |
| Restaurants and hotels | 2,231 | 2,281 | 2,450 | 2,987 | 3,287 |
| Transportation, storage, and communications | 8,806 | 10,310 | 10,852 | 9,722 | 9,956 |
| Finance and insurance | 220 | 236 | 279 | 289 | 295 |
| Real estate | 9,810 | 9,617 | 10,478 | 11,096 | 10,099 |
| Other services 2/ | 5,704 | 5,665 | 4,500 | 4,611 | 5,596 |

Source: Ministry of Planning.

1/ Includes investment in natural gas and petroleum-processing industries.

2/ Includes repair services.

Table 8. United Arab Emirates: Oil and Gas Production, Exports, and Prices, 1997–2001

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|--|--------|--------|--------|--------|----------------------|
| (In millions of barrels per day) | | | | | |
| Crude oil and condensates | 2.43 | 2.43 | 2.26 | 2.41 | 2.44 |
| Crude oil | 2.24 | 2.26 | 2.08 | 2.19 | 2.12 |
| Abu Dhabi | 1.99 | 2.02 | 1.85 | 1.99 | 1.94 |
| Dubai and others 1/ | 0.25 | 0.24 | 0.23 | 0.20 | 0.18 |
| Condensates | 0.19 | 0.17 | 0.18 | 0.22 | 0.32 |
| Refinery output | 0.23 | 0.23 | 0.23 | 0.30 | 0.52 |
| Oil and product exports | 2.18 | 2.28 | 2.17 | 2.33 | 2.28 |
| Crude oil | 1.98 | 2.03 | 1.90 | 2.05 | 1.94 |
| Abu Dhabi | 1.74 | 1.83 | 1.70 | 1.85 | 1.80 |
| Dubai and others 1/ | 0.24 | 0.20 | 0.20 | 0.20 | 0.14 |
| Condensates | 0.11 | 0.17 | 0.18 | 0.13 | 0.10 |
| Refined products | 0.09 | 0.08 | 0.09 | 0.15 | 0.24 |
| (In billions of cubic meters) | | | | | |
| Natural gas production 2/ | 32.70 | 33.40 | 34.60 | 35.90 | 41.30 |
| LNG exports | 7.73 | 7.41 | 7.22 | 7.11 | 7.46 |
| NGL exports | 11.00 | 11.87 | 11.11 | 12.30 | 11.50 |
| (In millions of U.S. dollars) | | | | | |
| Oil and product exports | 15,300 | 10,400 | 14,200 | 23,400 | 19,900 |
| Crude oil | 13,800 | 9,200 | 12,400 | 20,400 | 16,800 |
| Abu Dhabi | 12,100 | 8,200 | 11,000 | 18,500 | 15,600 |
| Dubai and others | 1,700 | 1,000 | 1,400 | 1,900 | 1,200 |
| Condensates | 800 | 800 | 1,200 | 1,300 | 900 |
| Refined products | 700 | 400 | 600 | 1,700 | 2,200 |
| LNG and NGL exports | 2,900 | 2,100 | 2,300 | 3,700 | 3,400 |
| Total oil and gas exports | 18,200 | 12,500 | 16,500 | 27,100 | 23,300 |
| Memorandum item: | | | | | |
| Average oil export price (in U.S. dollars per barrel) | 18.80 | 12.57 | 17.48 | 27.21 | 23.78 |

Source: Abu Dhabi National Oil Company.

1/ Sharjah and Ras Al-Khaimah.

2/ Net after re-injection into wells.

Table 9. United Arab Emirates: NGLs, LNG, and Refined Product Exports, 1997–2001

(In thousands of metric tons)

| | 1997 | 1998 | 1999 | 2000 | <u>Prcl.</u> 2001 |
|--------------------------|-------|-------|-------|-------|----------------------|
| Total NGL exports | 7,973 | 8,601 | 7,950 | 8,916 | 8,349 |
| LPG | 5,966 | 6,291 | 6,002 | 6,451 | 6,000 |
| Abu Dhabi | 5,156 | 5,541 | 5,252 | 5,701 | 5,200 |
| Dubai | 450 | 300 | 300 | 300 | 300 |
| Sharjah | 360 | 450 | 450 | 450 | 500 |
| Pentane plus | 2,007 | 2,310 | 1,948 | 2,465 | 2,349 |
| Abu Dhabi | 1,507 | 1,810 | 1,548 | 1,915 | 1,799 |
| <i>Of which</i> | | | | | |
| ADNOC | 650 | 833 | 685 | 946 | 920 |
| ADGAS | 500 | 477 | 500 | 530 | 479 |
| Other emirates | 500 | 500 | 400 | 550 | 550 |
| LNG exports (ADGAS) | 5,604 | 5,372 | 5,229 | 5,149 | 5,406 |
| Refined products exports | 4,034 | 3,688 | 4,031 | 6,789 | 10,095 |

Source: Abu Dhabi National Oil Company.

Table 10. United Arab Emirates: Average Crude Oil Prices, 1997–2001

(In U.S. dollars per barrel)

| | 1997 | 1998 | 1999 | 2000 | 2001 |
|--------------|-------|-------|-------|-------|-------|
| Murban | 19.49 | 12.61 | 17.97 | 27.73 | 24.15 |
| Lower Zakum | 19.51 | 12.61 | 17.99 | 27.78 | 24.19 |
| Umm-Shaif | 19.24 | 12.37 | 17.74 | 27.53 | 23.91 |
| Upper Zakum | 18.17 | 11.78 | 17.10 | 26.40 | 22.98 |
| Dubai platts | 18.13 | 12.17 | 17.21 | 26.15 | 22.81 |

Source: Abu Dhabi National Oil Company.

Table 11. United Arab Emirates: Agricultural Production, 1997–2001

(In thousands of metric tons)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|-------------------------|-------|-------|-------|-------|----------------------|
| Plant products | | | | | |
| Dates and fruits | 300 | 333 | 535 | 798 | 1,018 |
| Vegetables | 1,411 | 1,554 | 1,662 | 2,622 | 681 |
| Other crops | 486 | 507 | 525 | 1,495 | 3,532 |
| Animal products | | | | | |
| Meat | 20 | 22 | 23 | 25 | 29 |
| Poultry | 30 | 26 | 29 | 27 | 28 |
| Eggs (in millions) | 256 | 252 | 236 | 262 | 310 |
| Milk and dairy products | 117 | 118 | 142 | 163 | 179 |
| Fish products | 109 | 119 | 115 | 117 | 124 |

Sources: Ministry of Planning and Ministry of Agriculture and Fisheries.

Table 12. United Arab Emirates: Population by Emirate, 1997–2001

(In thousands)

| Emirate | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|----------------|-------|-------|-------|-------|----------------------|
| Abu Dhabi | 1,034 | 1,104 | 1,181 | 1,266 | 1,362 |
| Dubai | 765 | 822 | 885 | 952 | 1,029 |
| Sharjah | 440 | 467 | 498 | 529 | 562 |
| Ajman | 139 | 151 | 165 | 179 | 196 |
| Umm al-Qaiwan | 39 | 42 | 45 | 49 | 52 |
| Ras al-Khaimah | 152 | 159 | 165 | 172 | 181 |
| Fujairah | 83 | 89 | 94 | 100 | 106 |
| Total | 2,652 | 2,834 | 3,033 | 3,247 | 3,488 |

Source: Ministry of Planning.

Table 13. United Arab Emirates: Sectoral Distribution of Civilian Employment, 1997–2001 1/

(In thousands)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|------------------------------|-------|-------|-------|-------|----------------------|
| Civilian employment | 1,366 | 1,437 | 1,632 | 1,737 | 1,853 |
| Oil sector | 21 | 21 | 22 | 23 | 26 |
| Other sectors | 1,346 | 1,417 | 1,610 | 1,713 | 1,827 |
| Agriculture | 107 | 113 | 120 | 120 | 128 |
| Industry | 462 | 482 | 513 | 547 | 578 |
| Mining and quarrying | 4 | 4 | 4 | 4 | 4 |
| Manufacturing 2/ | 184 | 197 | 210 | 226 | 241 |
| Electricity, gas, and water | 23 | 24 | 28 | 30 | 31 |
| Construction | 252 | 257 | 271 | 287 | 302 |
| Services | 777 | 822 | 981 | 1,046 | 1,121 |
| Trade | 283 | 300 | 392 | 409 | 448 |
| Wholesale and retail trade | 227 | 236 | 322 | 336 | 371 |
| Restaurants and hotels | 57 | 63 | 70 | 72 | 77 |
| Transport and communications | 97 | 100 | 105 | 108 | 109 |
| Finance and insurance | 21 | 23 | 23 | 23 | 23 |
| Real estate | 33 | 35 | 37 | 42 | 48 |
| Government services | 147 | 155 | 182 | 204 | 214 |
| Social and personal services | 62 | 66 | 71 | 81 | 87 |
| Domestic household services | 133 | 144 | 170 | 179 | 191 |

Source: Ministry of Planning.

1/ Excludes defense personnel.

2/ Includes natural gas and petroleum-processing industries.

Table 14. United Arab Emirates: Labor Market Indicators, 1995

| | Abu Dhabi | Dubai | Sharjah | Ajman | Umm al-Qaiwan | Ras al-Khaimah | Fujairah | Total |
|---|-----------|-------|---------|-------|---------------|----------------|----------|---------|
| Population (in thousands) | | | | | | | | |
| Male | 650.7 | 478.2 | 254.3 | 72.8 | 20.9 | 84.0 | 45.8 | 1,606.8 |
| Female | 291.7 | 211.2 | 148.5 | 48.7 | 14.4 | 59.3 | 30.4 | 804.2 |
| Total | 942.5 | 689.4 | 403.0 | 121.5 | 35.4 | 143.3 | 76.2 | 2,411.0 |
| Labor force participation rate (in percent) | | | | | | | | |
| Male | 74.4 | 79.8 | 69.5 | 65.6 | 62.3 | 59.9 | 57.9 | 73.4 |
| Female | 16.7 | 23.5 | 20.0 | 22.2 | 20.0 | 16.7 | 15.6 | 19.4 |
| Total | 56.5 | 62.6 | 51.2 | 48.3 | 45.1 | 42.0 | 40.2 | 55.4 |
| Labor force (in thousands) 1/ | | | | | | | | |
| Male | 484.1 | 381.7 | 176.6 | 47.8 | 13.1 | 50.3 | 26.5 | 1,180.1 |
| Female | 48.9 | 49.6 | 29.7 | 10.8 | 2.9 | 9.9 | 4.1 | 155.8 |
| Total | 532.9 | 431.3 | 206.3 | 58.6 | 15.9 | 60.2 | 30.6 | 1,335.9 |
| Female share in labor force (in percent) | | | | | | | | |
| 1995 | 9.2 | 11.5 | 14.4 | 18.5 | 18.1 | 16.5 | 13.5 | 11.7 |
| 1985 | 8.5 | 9.4 | 11.3 | 9.9 | 12.3 | 12.8 | 10.8 | 9.6 |
| Unemployment (in percent of labor force) | | | | | | | | |
| Male | 1.3 | 1.4 | 2.3 | 3.1 | 6.4 | 3.5 | 2.6 | 1.7 |
| Female | 2.4 | 2.0 | 2.8 | 1.7 | 3.4 | 3.3 | 1.8 | 2.4 |
| Total | 1.4 | 1.5 | 2.4 | 2.8 | 5.8 | 3.5 | 2.5 | 1.8 |

Source: Ministry of Planning, 1995 census.

1/ Economically active population aged 15 years and older.

Table 15. United Arab Emirates: Average Annual Compensation by Economic Sector,
1997–2001 1/ 2/

(In thousands of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|--|------|------|-------|-------|---------------|
| Crude oil | 88.3 | 88.1 | 86.5 | 86.6 | 81.1 |
| Agriculture | 15.9 | 16.0 | 16.0 | 15.8 | 15.2 |
| Mining and quarrying | 26.4 | 27.0 | 26.8 | 26.9 | 27.0 |
| Manufacturing 3/ | 23.6 | 23.6 | 23.0 | 23.0 | 22.9 |
| Electricity, gas, and water | 48.6 | 45.6 | 43.5 | 42.2 | 42.5 |
| Construction | 32.4 | 33.5 | 33.3 | 32.5 | 32.0 |
| Wholesale and retail trade 4/ | 27.1 | 27.2 | 26.4 | 26.1 | 25.0 |
| Restaurants and hotels | 21.3 | 21.9 | 22.0 | 22.2 | 21.8 |
| Transport, storage, and communications | 38.9 | 40.8 | 45.1 | 56.0 | 57.4 |
| Finance and insurance | 98.3 | 97.6 | 100.6 | 102.5 | 103.5 |
| Real estate | 27.7 | 27.9 | 27.4 | 27.2 | 26.0 |
| Government services | 76.3 | 82.0 | 80.2 | 83.3 | 84.7 |
| Social and personal services | 28.6 | 28.6 | 28.2 | 27.1 | 27.0 |
| Household services | 10.3 | 10.1 | 9.4 | 9.2 | 9.0 |
| Weighted average | 36.9 | 34.2 | 33.7 | 34.9 | 34.4 |

Source: Ministry of Planning.

1/ Calculated on the basis of wages and allowances and the number of workers in each sector.

2/ Excludes defense personnel.

3/ Includes natural gas and petroleum processing industries.

4/ Includes repair services.

Table 16. United Arab Emirates: Selected Price Indices, 1997–2001

(Annual averages, 1995 = 100)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|----------------------|-------|-------|-------|-------|----------------------|
| GDP deflator | 104.0 | 97.0 | 105.7 | 122.9 | 117.1 |
| Crude oil deflator | 108.6 | 78.7 | 109.8 | 172.0 | 146.7 |
| Non-oil deflator | 102.2 | 103.4 | 104.5 | 107.3 | 108.0 |
| Consumer price index | 104.8 | 106.9 | 109.2 | 110.7 | 113.1 |

Source: Ministry of Planning.

Table 17. United Arab Emirates: Consumer Price Index by Major Components, 1998–2001

(Annual averages, 1995 = 100)

| | Weights 1/ | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|---|------------|-------|-------|-------|----------------------|
| Consumer price index | 100.00 | 106.9 | 109.2 | 110.7 | 113.1 |
| Foodstuffs, beverages, and tobacco | 14.43 | 110.0 | 112.8 | 113.4 | 113.6 |
| Ready-made clothes and footwear | 6.74 | 109.1 | 113.5 | 114.2 | 114.6 |
| House rent and related housing items | 36.14 | 96.0 | 96.2 | 96.1 | 98.1 |
| Furniture and furnishings | 7.39 | 110.1 | 112.0 | 116.4 | 116.7 |
| Medical care and health services | 1.85 | 123.1 | 125.7 | 132.5 | 137.0 |
| Transportation and communication | 14.93 | 118.0 | 126.2 | 130.3 | 133.0 |
| Recreational, educational, and cultural services | 10.29 | 115.0 | 114.6 | 115.2 | 125.0 |
| Other goods and services | 8.23 | 111.1 | 113.0 | 116.2 | 116.9 |

Source: Ministry of Planning.

1/ Weights are derived from 1996 Abu Dhabi household expenditure survey.

Table 18. United Arab Emirates: Consolidated Government Finances, 1997–2001

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|---|---------|---------|---------|---------|---------------|
| Total revenue | 70,493 | 61,425 | 64,200 | 99,991 | 82,480 |
| Hydrocarbons | 41,140 | 25,500 | 28,054 | 56,020 | 48,526 |
| Non-hydrocarbon, of which: | 29,353 | 35,925 | 36,146 | 43,971 | 33,954 |
| Customs | 1,676 | 1,821 | 1,886 | 1,779 | 1,846 |
| Profit transfers | 2,652 | 3,051 | 3,462 | 3,936 | 3,384 |
| Income tax 1/ | 2,925 | 1,679 | 2,179 | 4,124 | 3,329 |
| Fees and charges | 5,039 | 5,554 | 4,581 | 4,173 | 5,120 |
| Investment income 2/ | 13,580 | 18,489 | 19,234 | 25,373 | 15,625 |
| Other | 3,481 | 5,331 | 4,804 | 4,586 | 4,650 |
| Total expenditure and grants | 64,101 | 71,730 | 75,538 | 84,348 | 96,083 |
| Current expenditure | 47,420 | 51,487 | 57,930 | 71,247 | 77,372 |
| Wages and salaries 3/ 4/ | 13,138 | 12,533 | 13,224 | 13,962 | 14,360 |
| Goods and services 4/ | 18,993 | 19,657 | 22,616 | 23,385 | 23,582 |
| Abu Dhabi federal services 5/ | 7,774 | 10,876 | 11,899 | 19,440 | 19,082 |
| Subsidies and transfers | 7,098 | 8,017 | 9,849 | 13,945 | 19,716 |
| Other | 418 | 404 | 342 | 516 | 632 |
| Development expenditure | 10,912 | 13,987 | 13,765 | 11,230 | 13,280 |
| Loans and equity (net) 6/ | 4,566 | 5,047 | 2,435 | 652 | 4,507 |
| Domestic | 4,587 | 2,867 | 2,564 | 714 | 903 |
| Foreign | -21 | 2,180 | -129 | -62 | 3,604 |
| Foreign grants 7/ | 1,203 | 1,209 | 1,408 | 1,219 | 924 |
| Abu Dhabi | 983 | 1,045 | 1,361 | 1,071 | 664 |
| Federal | 220 | 164 | 47 | 148 | 260 |
| Overall balance | 6,392 | -10,305 | -11,338 | 15,643 | -13,603 |
| (In percent of GDP) | 3.4 | -5.8 | -5.6 | 6.0 | -5.3 |
| Financing | -6,392 | 10,305 | 11,338 | -15,643 | 13,603 |
| Resident banks, net | 597 | -1,248 | 1,109 | -10,530 | 2,348 |
| Loans to government | -1,215 | 3,469 | 3,086 | -2,854 | -1,595 |
| Deposits from government | -1,812 | 4,717 | 1,977 | 7,676 | -3,943 |
| Privatization receipts (Abu Dhabi) | ... | ... | ... | ... | 2,000 |
| Change in foreign assets (- = increase) | -6,989 | 11,553 | 10,229 | -5,113 | 9,255 |
| Memorandum items: | | | | | |
| Overall balance excluding hydrocarbon revenue | -34,748 | -35,805 | -39,392 | -40,377 | -62,129 |
| (In percent of GDP) | -18.5 | -20.1 | -19.4 | -15.6 | -24.2 |
| Non-hydrocarbon revenue excluding investment income | 15,773 | 17,436 | 16,912 | 18,598 | 18,329 |

Sources: Federal government; Emirate finance departments; and Fund staff estimates.

1/ Mainly income taxes on gas firms in Abu Dhabi.

2/ Fund staff estimates, based on fiscal accounts and other sources.

3/ Excludes military wages and salaries, which are in goods and services.

4/ ADWEA expenditure is allocated 25 percent to wages and salaries, 75 percent goods and services.

5/ Mainly military and internal security outlays.

6/ Should be classified as financing, but treated as expenditures in Abu Dhabi accounts.

7/ Intergovernmental grants are netted out in the consolidated accounts.

Table 19. United Arab Emirates: Government Current Expenditures
by Economic Category and Emirate, 1997–2001

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|---------------------------|--------|--------|--------|--------|---------------|
| Wages and salaries 1/ | 13,138 | 12,533 | 13,224 | 13,962 | 14,360 |
| Federal | 6,458 | 6,695 | 6,922 | 7,278 | 7,448 |
| Abu Dhabi 2/ | 3,264 | 3,319 | 3,531 | 3,626 | 3,528 |
| Dubai 3/ | 3,125 | 2,154 | 2,328 | 2,568 | 2,882 |
| Sharjah | 249 | 320 | 395 | 439 | 451 |
| Ras al Khaimah 4/ | 42 | 45 | 48 | 51 | 51 |
| Goods and services | 18,993 | 19,657 | 22,616 | 23,385 | 23,582 |
| Federal | 8,760 | 8,851 | 8,788 | 8,668 | 8,820 |
| Abu Dhabi 2/ | 7,416 | 8,410 | 10,533 | 10,459 | 11,261 |
| Dubai | 2,620 | 2,066 | 2,895 | 3,838 | 3,080 |
| Sharjah | 197 | 330 | 400 | 420 | 421 |
| Subsidies and transfers | 7,098 | 8,017 | 9,849 | 13,945 | 19,716 |
| Federal | 2,153 | 2,490 | 3,357 | 3,734 | 3,867 |
| Abu Dhabi | 4,584 | 4,317 | 6,148 | 9,583 | 14,981 |
| Dubai | 309 | 1,124 | 254 | 558 | 789 |
| Sharjah | 16 | 50 | 52 | 30 | 39 |
| Ras al Khaimah 4/ | 36 | 36 | 38 | 40 | 40 |
| Other | 8,192 | 11,280 | 12,241 | 19,956 | 19,714 |
| Federal | ... | ... | ... | ... | ... |
| Abu Dhabi 5/ | 7,774 | 10,876 | 11,899 | 19,440 | 19,082 |
| Dubai | 279 | 257 | 188 | 365 | 495 |
| Sharjah | 27 | 35 | 40 | 35 | 21 |
| Ras al Khaimah 4/ | 112 | 112 | 114 | 116 | 116 |
| Total current expenditure | 47,420 | 51,487 | 57,930 | 71,247 | 77,372 |
| Federal | 17,371 | 18,036 | 19,067 | 19,680 | 20,135 |
| Abu Dhabi | 23,037 | 26,922 | 32,111 | 43,107 | 48,852 |
| Dubai | 6,333 | 5,601 | 5,665 | 7,329 | 7,246 |
| Sharjah | 489 | 735 | 887 | 924 | 932 |
| Ras al Khaimah 4/ | 190 | 193 | 200 | 207 | 207 |

Sources: Federal and Emirate governments.

1/ Excludes military wages and salaries.

2/ Includes pro-rated water and electricity outlays for ADWEA expenditures.

3/ Includes military wages and salaries through 1997.

4/ Data for 2000–01 estimated.

5/ Mainly federal services consisting of military and internal security outlays.

Table 20. United Arab Emirates: Federal Government Financial Operations, 1997–2002

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | Budget 2001 | Prel. 2001 | Budget 2002 |
|---------------------------------------|--------|--------|--------|--------|----------------|---------------|----------------|
| Total revenue and grants | 19,532 | 19,258 | 20,268 | 20,277 | 20,425 | 20,825 | 20,987 |
| Revenues | 6,108 | 5,938 | 6,886 | 6,965 | 6,736 | 7,422 | 7,298 |
| Enterprise profits 1/ | 2,302 | 1,801 | 2,351 | 2,827 | 2,278 | 2,350 | 2,177 |
| Electricity and water | 323 | 400 | 508 | 0 | 0 | 0 | 0 |
| Other fees and charges | 3,483 | 3,737 | 4,027 | 4,138 | 4,458 | 5,072 | 5,121 |
| Grants from Emirates | 13,424 | 13,320 | 13,382 | 13,312 | 13,689 | 13,403 | 13,689 |
| Abu Dhabi | 12,224 | 12,120 | 12,182 | 12,112 | 12,489 | 12,203 | 12,489 |
| Cash contributions | 5,600 | 5,600 | 5,600 | 5,600 | 5,600 | 5,600 | 5,600 |
| Federal services 2/ | 6,550 | 6,517 | 6,571 | 6,364 | 6,629 | 6,343 | 6,629 |
| Foreign grants on federal account 2/ | 74 | 3 | 11 | 148 | 260 | 260 | 260 |
| Dubai | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| Total expenditure and grants | 18,187 | 19,788 | 20,205 | 20,702 | 23,033 | 21,018 | 23,156 |
| Current expenditures | 17,371 | 18,036 | 19,067 | 19,680 | 21,431 | 20,135 | 21,531 |
| Wages and salaries 3/ | 6,458 | 6,695 | 6,922 | 7,278 | 7,816 | 7,448 | 8,188 |
| Goods and services | 8,760 | 8,851 | 8,788 | 8,668 | 8,945 | 8,820 | 9,428 |
| (By ministries) | | | | | | | |
| (Interior and defense) 4/ | 8,466 | 8,878 | 8,953 | 8,688 | 8,811 | 8,796 | 9,381 |
| (Education and health) | 4,535 | 4,685 | 4,771 | 5,079 | 5,446 | 5,243 | 5,654 |
| (Other ministries) | 2,217 | 1,983 | 1,986 | 2,179 | 2,504 | 2,230 | 2,582 |
| Subsidies and transfers 3/ | 2,153 | 2,490 | 3,357 | 3,734 | 4,500 | 3,867 | 3,915 |
| Development expenditures | 529 | 970 | 823 | 518 | 862 | 418 | 873 |
| Equity positions | 67 | 618 | 268 | 356 | 370 | 205 | 376 |
| Domestic | 48 | 613 | 252 | 356 | 370 | 205 | 376 |
| Foreign | 19 | 5 | 16 | 0 | 0 | 0 | 0 |
| Foreign grants | 220 | 164 | 47 | 148 | 370 | 260 | 376 |
| Overall balance | 1,345 | -530 | 63 | -425 | -2,608 | -193 | -2,169 |
| Memorandum items: | | | | | | | |
| Abu Dhabi federal services 5/ | 7,774 | 10,876 | 11,899 | 19,440 | ... | 19,082 | 18,796 |
| Balance on pension fund operations 6/ | n.a. | n.a. | ... | 1,970 | ... | 1,274 | ... |

Sources: Ministry of Finance and Industry; Abu Dhabi Finance Department; and Fund staff estimates.

1/ Dividends and payouts by Etisalat and other enterprises, including the Central Bank.

2/ Amount budgeted by federal government, but outlays are made by Abu Dhabi.

3/ Beginning 2002, military pension payments of Interior Ministry are classified as wages and salaries.

4/ Partly financed by grants from Abu Dhabi.

5/ Mainly military and internal security expenditures not included in the federal accounts.

6/ Pension fund established in 1999; not included in federal accounts.

Table 21. United Arab Emirates: Pension Fund Operations,
2000–01 1/

(In millions of U.A.E. dirhams)

| | 2000 | <u>Prel.</u> 2001 |
|------------------------------|-------|----------------------|
| Revenue | 2,131 | 1,467 |
| Employer contributions | 742 | 552 |
| Employee contributions | 246 | 184 |
| Investment income | 110 | 95 |
| Other government receipts 2/ | 500 | 0 |
| Other receipts 3/ | 533 | 636 |
| Expenditures | 161 | 193 |
| Pensions paid | 89 | 139 |
| Other employee benefits | 59 | 35 |
| Operating expenses | 13 | 19 |
| Other outlays | 0 | 0 |
| Balance on operations | 1,970 | 1,274 |
| Memorandum item: | | |
| Assets at year-end | 1,970 | 3,244 |

Source: General Pension and Social Security Authority (GPSSA).

1/ The GPSSA was established in January 1999.

2/ Initial endowment/capital from federal authorities.

3/ Transfers from Ministry of Finance and Industry, Etisalat, and others to fund pensions.

Table 22. United Arab Emirates: Federal Subsidies and Transfers, 1997–2002

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | Budget 2001 | Prel. 2001 | Budget 2002 |
|---|-------|-------|-------|-------|----------------|---------------|----------------|
| Subsidies | 1,268 | 1,453 | 1,400 | 2,083 | 2,190 | 2,070 | 2,085 |
| Zayed University | 0 | 0 | 0 | 420 | 190 | 190 | 210 |
| U.A.E. University | 607 | 700 | 675 | 686 | 716 | 658 | 757 |
| Higher College of Technology | 299 | 360 | 409 | 405 | 520 | 520 | 545 |
| Electricity and water 1/ | | 3 | 3 | 4 | 100 | 2 | 103 |
| Emirates Media, Inc. | 169 | 214 | 203 | 188 | 200 | 180 | 200 |
| Accumulated settlements 2/ | 102 | 4 | 0 | 0 | 3 | 0 | 0 |
| Other | 91 | 172 | 110 | 380 | 461 | 260 | 270 |
| Transfers | 885 | 1,037 | 1,957 | 1,651 | 2,310 | 2,057 | 1,830 |
| Pension Fund 3/ | 675 | 787 | 904 | 774 | 820 | 809 | 340 |
| Marriage Fund | 210 | 250 | 237 | 227 | 250 | 216 | 250 |
| Zayed Housing Program 4/ | ... | ... | 500 | 354 | 640 | 562 | 640 |
| General Pension and Social Security Authority 5/ | ... | ... | 316 | 296 | 600 | 470 | 600 |
| Total | 2,153 | 2,490 | 3,357 | 3,734 | 4,500 | 3,867 | 3,915 |
| (In percent of GDP) | 1.1 | 1.4 | 1.7 | 1.4 | ... | 1.5 | ... |

Source: Ministry of Finance and Industry.

1/ For federal water and power fund in northern emirates.

2/ To clear prior year budget shortfalls in universities.

3/ Beginning 2002, military pension payments are classified as wages and salaries.

4/ Law requires budget projection of Dh 640 million..

5/ Transfers to fund pension payments for federal workers retiring in current year.

Table 23. United Arab Emirates: Federal Development Expenditures, 1997–2002

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Budget</u> 2001 | <u>Prel.</u> 2001 | <u>Budget</u> 2002 |
|------------------------------|------------|------------|------------|------------|-----------------------|----------------------|-----------------------|
| Agriculture | 13 | 26 | 18 | 3 | 7 | 2 | 5 |
| Electricity and water | 30 | 455 | 305 | 0 | 0 | 0 | 0 |
| Transport and communications | 23 | 25 | 3 | 47 | 253 | 113 | 291 |
| Public works and housing | 74 | 178 | 274 | 169 | 136 | 101 | 84 |
| Education | 196 | 106 | 104 | 143 | 152 | 69 | 166 |
| Health | 40 | 55 | 48 | 10 | 63 | 24 | 64 |
| Interior and justice | 34 | 23 | 28 | 32 | 105 | 74 | 137 |
| Foreign affairs | 107 | 85 | 37 | 97 | 100 | 21 | 85 |
| Other | 12 | 17 | 6 | 17 | 46 | 14 | 41 |
| Total | 529 | 970 | 823 | 518 | 862 | 418 | 873 |

Source: Ministry of Finance and Industry.

Table 24. United Arab Emirates: Abu Dhabi Fiscal Operations, 1997–2002

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | Prcl. 2001 | Budget 2002 |
|--|--------|---------|---------|--------|---------------|----------------|
| Total revenue | 53,337 | 44,587 | 46,634 | 79,846 | 62,972 | 32,220 |
| Crude oil royalties and taxes | 34,349 | 21,428 | 23,232 | 48,633 | 42,366 | 21,870 |
| Nonhydrocarbon | 18,988 | 23,159 | 23,402 | 31,213 | 20,606 | 10,350 |
| Customs | 293 | 318 | 319 | 262 | 276 | 256 |
| Water and electricity | 1,216 | 1,380 | 12 | 0 | 0 | 0 |
| Income tax 1/ | 2,797 | 1,517 | 1,996 | 3,958 | 3,122 | 1,638 |
| Investment income 2/ | 13,580 | 18,489 | 19,234 | 25,373 | 15,625 | 7,128 |
| Other | 1,102 | 1,455 | 1,841 | 1,620 | 1,583 | 1,328 |
| Total expenditure and grants | 48,244 | 54,450 | 56,761 | 63,784 | 76,279 | 60,171 |
| Current expenditures | 23,037 | 26,922 | 32,111 | 43,107 | 48,852 | 39,734 |
| Wages and salaries | 2,642 | 2,730 | 2,993 | 3,135 | 3,215 | 3,440 |
| Goods and services | 5,551 | 6,642 | 8,918 | 8,987 | 10,323 | 9,077 |
| Federal services 3/ | 7,774 | 10,876 | 11,899 | 19,440 | 19,082 | 17,743 |
| Water and electricity | 2,486 | 2,357 | 2,153 | 1,962 | 1,251 | 0 |
| Subsidies and transfers | 4,584 | 4,317 | 6,148 | 9,583 | 14,981 | 9,474 |
| Development expenditures | 7,608 | 9,980 | 8,944 | 7,452 | 10,424 | 7,291 |
| Water and electricity | 1,511 | 2,387 | 2,121 | 1,335 | 3,259 | 16 |
| Other | 6,097 | 7,593 | 6,823 | 6,117 | 7,165 | 7,275 |
| Loans and equity (net) 4/ | 4,392 | 4,383 | 2,163 | 43 | 3,952 | -437 |
| Domestic | 4,439 | 2,208 | 2,308 | 105 | 348 | -382 |
| Building and housing loans | 3,057 | 1,757 | 891 | -118 | -1,094 | -390 |
| Equity | 1,382 | 451 | 1,417 | 223 | 1,442 | 8 |
| Foreign loans | -47 | 2,175 | -145 | -62 | 3,604 | -55 |
| Grants | 13,207 | 13,165 | 13,543 | 13,182 | 13,051 | 13,583 |
| Cash contributions to federal government | 5,600 | 5,600 | 5,600 | 5,600 | 5,600 | 5,600 |
| Federal services 5/ | 6,550 | 6,517 | 6,571 | 6,364 | 6,343 | 6,629 |
| Foreign grants on federal account 5/ | 74 | 3 | 11 | 147 | 444 | 496 |
| Foreign grants 6/ | 983 | 1,045 | 1,361 | 1,071 | 664 | 858 |
| Overall balance | 5,093 | -9,863 | -10,127 | 16,062 | -13,307 | -27,951 |
| Memorandum items: | | | | | | |
| Overall balance excluding loans and equity | 9,438 | -3,305 | -8,109 | 16,043 | -5,751 | -28,443 |
| Balance net of investment income | -8,487 | -28,352 | -29,361 | -9,311 | -28,932 | -35,079 |
| Privatization receipts from ADWEA 7/ | ... | ... | ... | ... | 2,000 | ... |

Source: Department of Finance of Abu Dhabi.

1/ Income taxes are entirely from ADGAS and GASCO.

2/ Fund staff estimates; not included in Finance Department accounts.

3/ Mainly defense and security outlays; not included in the federal accounts.

4/ Financing items under international standards, but treated as expenditure in AD accounts.

5/ Outlays made by Abu Dhabi, but included in the federal accounts.

6/ Foreign grants on Abu Dhabi account.

7/ Sale of electricity and water assets; shown as receipts in Abu Dhabi fiscal accounts.

Table 25. United Arab Emirates: Abu Dhabi Development Expenditures, 1997–2002

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 | <u>Budget</u> 2002 |
|------------------------------|-------|-------|-------|-------|----------------------|-----------------------|
| Agriculture | 445 | 706 | 688 | 907 | 845 | 968 |
| Electricity and water 1/ | 1,511 | 2,387 | 2,121 | 1,336 | 3,259 | 16 |
| Industry and commerce | 124 | 200 | 93 | 93 | 192 | 253 |
| Transport and communications | 956 | 1,383 | 2,869 | 2,272 | 2,664 | 2,484 |
| Housing | 829 | 971 | 1,004 | 807 | 693 | 370 |
| Urban development | 2,509 | 3,063 | 1,122 | 840 | 1,102 | 1,102 |
| Sewerage | 756 | 848 | 565 | 590 | 729 | 865 |
| Sports and recreation | 457 | 403 | 419 | 464 | 694 | 599 |
| General administration | 21 | 19 | 63 | 143 | 246 | 634 |
| Total | 7,608 | 9,980 | 8,944 | 7,452 | 10,424 | 7,291 |

Source: Department of Finance of Abu Dhabi.

1/ Certain expenditures were reclassified as from 1999.

Table 26. United Arab Emirates: Dubai Government Fiscal Operations, 1997–2002

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 | <u>Budget</u> 2002 |
|------------------------------------|-------|-------|--------|--------|----------------------|-----------------------|
| Total revenue | 9,285 | 9,077 | 8,724 | 11,071 | 10,201 | 10,366 |
| Nontax revenue | 7,919 | 7,562 | 7,163 | 9,540 | 8,579 | 8,887 |
| Oil and gas | 5,663 | 3,266 | 3,670 | 5,875 | 4,949 | 4,998 |
| Enterprise profits 1/ | 350 | 1,250 | 1,111 | 1,109 | 1,034 | 1,000 |
| Other 2/ | 1,906 | 3,046 | 2,382 | 2,556 | 2,596 | 2,889 |
| Tax revenue | 1,366 | 1,515 | 1,561 | 1,531 | 1,622 | 1,479 |
| Customs 3/ | 1,238 | 1,353 | 1,378 | 1,365 | 1,415 | 1,269 |
| Income tax 4/ | 128 | 162 | 183 | 166 | 207 | 210 |
| Total expenditure | 9,489 | 8,839 | 9,850 | 11,147 | 10,559 | 11,599 |
| Current | 6,333 | 5,601 | 5,665 | 7,329 | 7,246 | 8,437 |
| Wages and salaries | 3,125 | 2,154 | 2,328 | 2,568 | 2,882 | 3,245 |
| Goods and services 2/ 5/ | 2,620 | 2,066 | 2,895 | 3,838 | 3,080 | 3,891 |
| Subsidies and transfers 6/ | 309 | 1,124 | 254 | 558 | 789 | 709 |
| Other | 279 | 257 | 188 | 365 | 495 | 592 |
| Development | 1,849 | 1,992 | 2,981 | 2,365 | 1,763 | 1,957 |
| Loans and equity (net) | 107 | 46 | 4 | 253 | 350 | 5 |
| Domestic | 100 | 46 | 4 | 253 | 350 | 5 |
| Foreign | 7 | 0 | 0 | 0 | 0 | 0 |
| Grants: | | | | | | |
| Contribution to federal government | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 | 1,200 |
| Overall balance | -204 | 238 | -1,126 | -76 | -358 | -1,233 |

Source: Department of Finance of Dubai.

1/ Includes DUBAL, DUGAS, Emirates Airlines, Jebel Ali, and other public enterprises.

2/ Some years affected by timing irregularities.

3/ All revenues associated with trade and port operations; more than customs duties.

4/ Taxes on foreign banks.

5/ Includes interest and amortization on some bank loans.

6/ Excludes Water and Electricity, which is settled in an off-budget account.

Table 27. United Arab Emirates: Sharjah Government Fiscal Operations, 1997–2002 1/

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | <u>Budget</u> 2001 | <u>Prel.</u> 2001 | <u>Budget</u> 2002 |
|---------------------------------|-------|-------|-------|-------|-----------------------|----------------------|-----------------------|
| Total revenue | 1,541 | 1,600 | 1,728 | 1,877 | 1,537 | 1,653 | 1,404 |
| Oil and gas | 1,128 | 806 | 1,152 | 1,512 | 1,140 | 1,211 | 1,010 |
| Non-oil | 413 | 794 | 576 | 365 | 397 | 442 | 394 |
| Departmental receipts | 293 | 369 | 376 | 340 | 362 | 397 | 364 |
| Port authority | 65 | 79 | 80 | 60 | 62 | 75 | 70 |
| Customs | 145 | 150 | 189 | 152 | 150 | 155 | 145 |
| Fees and charges | 12 | 32 | 28 | 28 | 32 | 41 | 35 |
| Other, <i>of which:</i> | 71 | 108 | 79 | 100 | 118 | 126 | 114 |
| Airport | ... | ... | 67 | 90 | ... | 99 | ... |
| Land sales and profit transfers | 120 | 425 | 200 | 25 | 35 | 45 | 30 |
| Total expenditure | 1,345 | 1,710 | 1,832 | 1,744 | 1,455 | 1,532 | 1,455 |
| Current | 489 | 735 | 887 | 924 | 955 | 932 | 955 |
| Wages and salaries | 249 | 320 | 395 | 439 | 460 | 451 | 465 |
| Goods and services | 197 | 330 | 400 | 420 | 425 | 421 | 427 |
| Subsidies and transfers 2/ | 16 | 50 | 52 | 30 | 45 | 39 | 40 |
| Other | 27 | 35 | 40 | 35 | 25 | 21 | 23 |
| Development | 856 | 975 | 945 | 820 | 500 | 600 | 500 |
| Overall balance | 196 | -110 | -104 | 133 | 82 | 121 | -51 |

Source: Sharjah Department of Finance.

1/ Excludes operations of Sharjah Municipality.

2/ Mainly universities; does not include support for water and electricity operations.

Table 28. United Arab Emirates: Monetary Survey, 1997–2002

(In millions of U.A.E. dirhams)

| End of Period Stock | 1997 | 1998 | 1999 | 2000 | New Compilation 1/ | | August |
|---|---------|---------|---------|---------|--------------------|---------|---------|
| | | | | | 2000 | 2001 | 2002 |
| Net foreign assets | 62,365 | 62,737 | 67,000 | 88,111 | 115,045 | 120,685 | 125,482 |
| Foreign assets | 108,151 | 116,080 | 121,971 | 141,112 | 142,217 | 151,879 | 153,838 |
| Central bank | 31,431 | 34,148 | 40,163 | 50,759 | 50,759 | 52,471 | 50,971 |
| Commercial banks 2/ | 76,720 | 81,932 | 81,808 | 90,353 | 91,459 | 99,408 | 102,867 |
| Foreign liabilities | 45,786 | 53,343 | 54,971 | 53,001 | 27,172 | 31,194 | 28,356 |
| Central bank | 52 | 11 | 403 | 587 | 587 | 516 | 223 |
| Commercial banks 2/ | 45,734 | 53,332 | 54,568 | 52,414 | 26,585 | 30,678 | 28,133 |
| Domestic assets | 32,488 | 36,087 | 43,128 | 38,889 | 26,496 | 35,795 | 40,752 |
| Claims on government (net) | -7,559 | -8,807 | -7,698 | -18,228 | -30,625 | -28,277 | -27,700 |
| Claims | 8,099 | 11,568 | 14,654 | 11,800 | 11,800 | 10,205 | 11,403 |
| Deposits | 15,658 | 20,375 | 22,352 | 30,028 | 42,425 | 38,482 | 39,103 |
| Claims on public sector enterprises | 5,511 | 5,236 | 5,581 | 5,780 | 5,780 | 5,258 | 6,027 |
| Claims on private nonbanks | 92,735 | 105,895 | 113,430 | 123,313 | 123,313 | 134,132 | 141,631 |
| Capital and reserves | -26,981 | -31,430 | -33,517 | -35,833 | -35,834 | -38,377 | -40,774 |
| Other items (net) | -31,218 | -34,807 | -34,668 | -36,143 | -36,138 | -36,941 | -38,432 |
| Central bank | -12,906 | -13,933 | -16,261 | -26,292 | -26,292 | -27,994 | -27,503 |
| Commercial banks 2/ | -18,312 | -20,874 | -18,407 | -9,851 | -9,846 | -8,947 | -10,929 |
| Domestic liquidity | 94,854 | 98,824 | 110,128 | 127,000 | 141,540 | 156,476 | 166,234 |
| Money | 25,368 | 27,783 | 30,250 | 34,067 | 34,067 | 39,464 | 45,053 |
| Currency outside banks | 7,366 | 8,194 | 10,270 | 10,017 | 10,017 | 10,537 | 10,803 |
| Dirham demand deposits | 18,002 | 19,589 | 19,980 | 24,050 | 24,050 | 28,927 | 34,250 |
| Quasi-money | 69,486 | 71,041 | 79,878 | 92,933 | 107,473 | 117,012 | 121,181 |
| Foreign currency deposits | 18,570 | 19,731 | 23,354 | 28,428 | 35,754 | 37,189 | 40,107 |
| Dirham time and savings deposits | 50,916 | 51,310 | 56,524 | 64,505 | 71,719 | 79,823 | 81,074 |
| Memorandum items: | | | | | | | |
| Dirham-denominated liquidity | 76,284 | 79,093 | 86,774 | 98,572 | 105,786 | 119,287 | 126,127 |
| Change in percent | 9.5 | 3.7 | 9.7 | 13.6 | ... | 21.0 | 5.7 |
| Foreign currency deposits of residents | 18,570 | 19,731 | 23,354 | 28,428 | 35,754 | 37,189 | 40,107 |
| Change in percent | 8.1 | 6.3 | 18.4 | 21.7 | ... | 30.8 | 7.8 |
| Ratio of foreign currency deposits to total deposits (in percent) | 21.2 | 21.8 | 23.4 | 24.3 | 27.0 | 25.5 | 25.8 |

Source: Central Bank of the United Arab Emirates.

1/ Data reflect 2001 change in compilation, which now treats offshore affiliates of local banks as if they were resident entities.

2/ Including the restricted license bank.

Table 29. United Arab Emirates: Factors Affecting Domestic Liquidity, 1997–2002 1/

(Annual changes in millions of U.A.E. dirhams)

| End of Period | 1997 | 1998 | 1999 | 2000 | New Compilation 2/ | | Nov. 3/ |
|-------------------------------------|--------|--------|--------|---------|--------------------|--------|---------|
| | | | | | 2000 | 2001 | 2002 |
| Net foreign assets | -1,065 | 372 | 4,263 | 21,111 | 13,822 | 5,640 | 12,659 |
| Foreign assets | 7,326 | 7,929 | 5,891 | 19,141 | 18,587 | 9,662 | 10,272 |
| Central bank | 1,168 | 2,717 | 6,015 | 10,596 | 10,596 | 1,712 | 3,894 |
| Commercial banks | 6,158 | 5,212 | -124 | 8,545 | 9,651 | 7,949 | 6,378 |
| Foreign liabilities | -8,391 | -7,557 | -1,628 | 1,970 | 4,765 | 4,022 | -2,387 |
| Central bank | 23 | 41 | -392 | -184 | 184 | -71 | -247 |
| Commercial banks 2/ | -8,414 | -7,598 | -1,236 | 2,154 | 4,581 | 4,093 | -2,140 |
| Domestic assets | 8,935 | 3,599 | 7,041 | -4,239 | 340 | 9,299 | 3,989 |
| Claims on government (net) | 597 | -1,248 | 1,109 | -10,530 | -5,953 | 2,348 | 1,529 |
| Claims | -1,215 | 3,469 | 3,086 | -2,854 | -2,854 | -1,595 | 3,165 |
| Deposits /2 | 1,812 | -4,717 | -1,977 | -7,676 | 3,099 | -3,943 | 1,636 |
| Claims on public sector enterprises | 442 | -275 | 345 | 199 | 199 | -522 | 1,940 |
| Claims on private nonbanks | 11,349 | 13,160 | 7,535 | 9,882 | 9,883 | 10,819 | 12,858 |
| Capital and reserves | -2,162 | -4,449 | -2,087 | -2,316 | -2,317 | -2,543 | -3,256 |
| Other items (net) | -1,280 | -3,589 | 139 | -1,475 | -1,472 | -803 | -9,082 |
| Central bank | 549 | -1,027 | -2,328 | -10,031 | -10,031 | -1,702 | -3,461 |
| Commercial banks | -1,829 | -2,562 | 2,467 | 8,556 | 8,559 | 899 | -5,621 |
| Domestic liquidity | 7,871 | 3,970 | 11,304 | 16,872 | 14,161 | 14,936 | 16,652 |
| Money | 3,102 | 2,415 | 2,467 | 3,817 | 3,815 | 5,397 | 7,285 |
| Currency outside banks | 599 | 828 | 2,076 | -253 | -255 | 520 | 1,801 |
| Dirham demand deposits | 2,503 | 1,587 | 391 | 4,070 | 4,070 | 4,877 | 5,484 |
| Quasi-money | 4,769 | 1,555 | 8,837 | 13,055 | 10,346 | 9,539 | 9,367 |
| Foreign currency deposits | 1,259 | 1,161 | 3,623 | 5,074 | 2,783 | 1,435 | 5,654 |
| Dirham time and savings deposits | 3,510 | 394 | 5,214 | 7,981 | 7,563 | 8,104 | 3,713 |

Source: Central Bank of the United Arab Emirates.

1/ Data reflect 2001 change in compilation, which now treats offshore affiliates of local banks as if they were resident entities.

2/ Including the restricted license bank.

3/ Change vis-à-vis end-December 2001.

Table 30. United Arab Emirates: Summary Accounts of the Central Bank, 1997–2002 1/

(In millions of U.A.E. dirhams)

| End of Period | 1997 | 1998 | 1999 | 2000 | 2001 | November 2002 |
|-------------------------------------|--------|--------|--------|--------|--------|------------------|
| Foreign assets | 31,431 | 34,148 | 40,163 | 50,759 | 52,471 | 56,365 |
| Claims on banks | 28,314 | 23,086 | 21,218 | 28,662 | 31,108 | 49,334 |
| Loans and investments | 1,148 | 8,724 | 16,885 | 20,190 | 20,000 | 5,509 |
| Other 2/ | 963 | 1,187 | 989 | 1,126 | 533 | 356 |
| IMF reserve position | 1,006 | 1,151 | 1,071 | 781 | 830 | 1,166 |
| Net claims on government | -1,006 | -1,151 | -1,071 | -781 | -830 | -1,166 |
| Claims | 0 | 0 | 0 | 0 | 0 | 0 |
| Less: IMF reserve position | 1,006 | 1,151 | 1,071 | 781 | 830 | 1,166 |
| Claims on public sector enterprises | 0 | 0 | 0 | 0 | 0 | 0 |
| Claims on private nonbanks 3/ | 17 | 19 | 21 | 24 | 29 | 40 |
| Claims on commercial banks | 50 | 50 | 50 | 50 | 50 | 50 |
| Unclassified assets | 73 | 72 | 70 | 84 | 118 | 482 |
| Total assets/liabilities | 30,565 | 33,138 | 39,233 | 50,136 | 51,838 | 55,771 |
| Foreign liabilities | 52 | 11 | 403 | 587 | 516 | 269 |
| Reserve money | 15,006 | 16,233 | 20,099 | 20,288 | 21,608 | 25,840 |
| Currency outside banks | 7,366 | 8,194 | 10,270 | 10,017 | 10,537 | 12,338 |
| Cash held by banks | 1,282 | 1,426 | 2,624 | 2,228 | 1,783 | 2,325 |
| Banks' deposits | 6,358 | 6,613 | 7,205 | 8,043 | 9,288 | 11,177 |
| Certificates of deposit | 5,288 | 4,092 | 6,429 | 15,624 | 16,779 | 12,278 |
| Government deposits 4/ | 8,618 | 9,378 | 10,619 | 11,546 | 11,063 | 9,617 |
| Capital and reserves | 1,500 | 1,500 | 1,560 | 1,560 | 1,560 | 1,560 |
| Unclassified liabilities 5/ | 101 | 1,924 | 123 | 531 | 312 | 6,207 |

Source: Central Bank of the United Arab Emirates.

1/ 2001 change in compilation does not affect central bank accounts.

2/ Mainly gold, valued at cost.

3/ Staff loans.

4/ Mainly foreign currency deposits.

5/ Includes undistributed profits.

Table 31. United Arab Emirates: Balance Sheets of Commercial Banks, 1996–2002 1/ 2/

(In millions of U.A.E. dirhams)

| End of Period | 1997 | 1998 | 1999 | 2000 | New Compilation 2/ | | November |
|--|---------|---------|---------|---------|--------------------|---------|----------|
| | | | | | 2000 | 2001 | 2002 |
| Reserves | 7,635 | 8,035 | 9,827 | 10,271 | 10,271 | 11,070 | 13,501 |
| Cash | 1,282 | 1,426 | 2,624 | 2,228 | 2,228 | 1,783 | 2,325 |
| Deposits with central bank | 6,353 | 6,609 | 7,203 | 8,043 | 8,043 | 9,288 | 11,176 |
| Foreign assets | 76,152 | 81,195 | 80,833 | 89,810 | 90,916 | 98,506 | 105,677 |
| Notes and coins | 41 | 41 | 42 | 39 | 39 | 47 | 48 |
| Due from head offices and branches | 1,828 | 2,660 | 4,424 | 5,097 | 6,203 | 9,478 | 12,364 |
| Money at call and short notice | 5,163 | 3,345 | 1,750 | 2,117 | 2,117 | 1,803 | 2,270 |
| Demand and time deposits | 45,813 | 48,799 | 45,374 | 48,582 | 48,582 | 47,127 | 37,063 |
| Investments | 10,413 | 11,204 | 12,616 | 14,761 | 14,761 | 20,404 | 27,980 |
| Loans and advances | 11,504 | 13,532 | 14,972 | 16,990 | 16,990 | 18,223 | 24,451 |
| Other | 1,390 | 1,614 | 1,655 | 2,224 | 2,224 | 1,424 | 1,501 |
| Claims on government | 9,105 | 12,719 | 15,725 | 12,581 | 12,581 | 11,035 | 14,536 |
| Claims on public sector enterprises 3/ | 5,511 | 5,236 | 5,581 | 5,780 | 5,780 | 5,258 | 7,198 |
| Claims on private nonbanks | 89,925 | 102,416 | 110,276 | 119,828 | 119,828 | 130,549 | 143,573 |
| Claims on nonbank financial institutions | 2,689 | 3,443 | 3,075 | 3,317 | 3,317 | 3,415 | 3,365 |
| Central bank certificates of deposit | 5,288 | 4,092 | 6,429 | 15,624 | 15,624 | 16,779 | 12,278 |
| Unclassified assets 4/ | 5,657 | 6,499 | 6,632 | 7,111 | 7,111 | 7,230 | 7,284 |
| Total assets/liabilities | 201,962 | 223,635 | 238,378 | 264,322 | 265,428 | 283,842 | 307,412 |
| Monetary deposits | 18,002 | 19,589 | 19,980 | 24,050 | 24,050 | 28,927 | 34,411 |
| Quasi monetary deposits | 69,437 | 71,001 | 79,847 | 92,902 | 107,442 | 116,981 | 126,370 |
| Foreign currency | 18,521 | 19,691 | 23,323 | 28,397 | 35,723 | 37,154 | 42,834 |
| Local currency | 50,916 | 51,310 | 56,524 | 64,505 | 71,719 | 79,823 | 83,536 |
| Foreign liabilities | 45,362 | 53,055 | 53,537 | 51,905 | 26,075 | 29,883 | 28,531 |
| Due to head offices and branches | 31,301 | 36,396 | 33,571 | 26,630 | 2,377 | 2,869 | 1,536 |
| Borrowing from banks abroad | 619 | 822 | 1,047 | 1,692 | 1,692 | 1,506 | 1,409 |
| Deposits of banks abroad | 7,489 | 9,202 | 10,925 | 13,524 | 11,947 | 13,844 | 12,997 |
| Nonbank deposits | 4,404 | 5,085 | 6,378 | 8,194 | 8,194 | 9,817 | 10,829 |
| Other 5/ | 1,549 | 1,550 | 1,616 | 1,865 | 9,817 | 1,847 | 1,760 |
| Government deposits | 6,948 | 10,920 | 11,671 | 18,441 | 30,837 | 27,382 | 30,473 |
| Government lending funds | 92 | 77 | 62 | 41 | 41 | 37 | 28 |
| Credit from central bank | 50 | 51 | 54 | 52 | 52 | 55 | 448 |
| Capital and reserves | 25,435 | 29,883 | 31,910 | 34,226 | 34,226 | 36,769 | 40,025 |
| Unclassified liabilities | 36,637 | 39,059 | 41,317 | 42,705 | 42,705 | 43,808 | 47,126 |

Source: Central Bank of the United Arab Emirates.

1/ Excluding accounts of the restricted license bank.

2/ Data reflect 2001 change in compilation, which now treats offshore affiliates of local banks as if they were resident entities.

3/ Commercial enterprises with significant government ownership, including Dubai Aluminum Company, Dubai Gas Company, Abu Dhabi National Oil Company, other oil and gas companies owned by Abu Dhabi, and cement companies established by several Emirate governments.

4/ Includes net lending to restricted license bank.

5/ Includes commercial prepayments.

Table 32. United Arab Emirates: Balance Sheet of Restricted License Bank, 1997–2002 1/

(In millions of U.A.E. dirhams)

| End of Period | 1997 | 1998 | 1999 | 2000 | November | |
|-------------------------------------|------|------|-------|------|----------|---------|
| | | | | | 2001 2/ | 2002 2/ |
| Reserves | 4 | 4 | 3 | 3 | 5 | 3 |
| Cash | 0 | 0 | 0 | 0 | 0 | 0 |
| Deposits with central bank | 4 | 4 | 3 | 3 | 5 | 3 |
| Foreign assets | 568 | 737 | 975 | 543 | 902 | 109 |
| Claims on government | 0 | 0 | 0 | 0 | 0 | 0 |
| Claims on public sector enterprises | 0 | 0 | 0 | 0 | 0 | 0 |
| Claims on private nonbanks | 104 | 17 | 58 | 144 | 139 | 12 |
| Claims on banks | 102 | 136 | 249 | 113 | 110 | 1 |
| Other assets | 2 | 2 | 1 | 1 | 1 | 10 |
| Total assets/liabilities | 780 | 896 | 1,286 | 804 | 1157 | 135 |
| Foreign liabilities | 372 | 277 | 1,031 | 509 | 795 | 9 |
| Quasi monetary deposits 3/ | 49 | 40 | 31 | 31 | 35 | 7 |
| Government deposits | 0 | 0 | 0 | 0 | 0 | 0 |
| Liabilities to banks | 302 | 523 | 167 | 207 | 269 | 56 |
| Capital and reserves | 46 | 47 | 47 | 47 | 48 | 48 |
| Other liabilities | 11 | 9 | 10 | 10 | 10 | 15 |

Source: Central Bank of the United Arab Emirates.

1/ Banca Commerciale Italiana; not affected by 2001 change in compilation.

2/ Based on new compilation methodology.

3/ Foreign currency deposits.

Table 33. United Arab Emirates: Licensed Commercial Banks, June 2002

(In millions of U.A.E. dirhams)

| | Head Office and Branches | Year Established | Balance Sheet (Dh millions) |
|---------------------------------|-----------------------------|---------------------|-----------------------------------|
| Abu Dhabi Commercial Bank | 35 | 1985 | 31,206 |
| Abu Dhabi Islamic Bank | 8 | 1997 | 7,184 |
| Arbift | 4 | 1976 | 4,392 |
| Bank of Sharjah | 3 | 1973 | 2,011 |
| Commercial Bank International | 6 | 1991 | 2,671 |
| Commercial Bank of Dubai | 15 | 1969 | 6,679 |
| Dubai Islamic Bank | 13 | 1975 | 18,728 |
| Emirates Bank International | 20 | 1977 | 36,328 |
| Emirates Industrial Bank | ... | ... | ... |
| First Gulf Bank | 5 | 1979 | 4,669 |
| InvestBank | 5 | 1975 | 3,123 |
| Mashreq Bank | 30 | 1967 | 20,019 |
| Middle East Bank (sub of EBI) | 13 | ... | 2,914 |
| National Bank of Abu Dhabi | 42 | 1968 | 27,715 |
| National Bank of Dubai | 23 | 1963 | 32,695 |
| National Bank of Fujairah | 5 | 1982 | 3,030 |
| National Bank of Ras Al Khaimah | 11 | 1978 | 2,881 |
| National Bank of Sharjah | 9 | 1976 | 2,678 |
| National Bank of Umm Al Qaiwain | 10 | 1982 | 1,696 |
| Union National Bank | 27 | 1982 | 13,887 |
| United Arab Bank | 9 | 1975 | 1,942 |
| Total U.A.E. banks | 293 | ... | 226,475 |
| Branches of foreign banks 2/ | 109 | ... | 75,461 |

Sources: Central Bank of the United Arab Emirates.

Table 34. United Arab Emirates: Balance of Payments, 1997–2001

(In billions of U.S. dollars)

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|---|-------|-------|-------|-------|---------------|
| Trade balance | 10.8 | 4.7 | 8.6 | 18.8 | 15.3 |
| Exports | 40.8 | 33.4 | 36.5 | 49.6 | 48.2 |
| Crude oil and products | 15.3 | 10.4 | 14.2 | 23.4 | 19.9 |
| Crude oil | 14.6 | 10.0 | 13.6 | 21.7 | 17.7 |
| Petroleum products 1/ | 0.7 | 0.4 | 0.6 | 1.7 | 2.2 |
| Natural gas | 2.9 | 2.1 | 2.3 | 3.7 | 3.4 |
| Nonhydrocarbon | 11.8 | 9.3 | 8.2 | 9.4 | 10.9 |
| Free zone exports | 4.0 | 4.3 | 4.5 | 5.5 | 6.8 |
| Nonmonetary gold | 6.0 | 3.1 | 1.8 | 1.9 | 2.1 |
| Reexports 2/ | 10.8 | 11.6 | 11.8 | 13.1 | 13.9 |
| Imports (f.o.b.) | -30.0 | -28.7 | -27.9 | -30.8 | -32.8 |
| Imports by Emirates | -20.7 | -22.3 | -22.8 | -23.9 | -24.8 |
| Free zone imports | -3.1 | -3.2 | -3.2 | -4.9 | -5.9 |
| Nonmonetary gold | -6.2 | -3.2 | -1.9 | -2.0 | -2.2 |
| Investment income | 5.7 | 7.1 | 7.3 | 9.6 | 6.1 |
| Banking system and private nonbanks | 2.1 | 2.1 | 2.1 | 2.8 | 2.0 |
| Government 3/ | 3.6 | 5.0 | 5.1 | 6.8 | 4.1 |
| Services (net) | -6.1 | -5.9 | -5.9 | -6.2 | -6.4 |
| Transfers (net) | -3.6 | -3.7 | -3.9 | -4.0 | -4.6 |
| Private | -3.4 | -3.4 | -3.6 | -3.7 | -4.0 |
| Official | -0.2 | -0.2 | -0.3 | -0.3 | -0.6 |
| Current account balance | 6.7 | 2.2 | 6.0 | 18.3 | 10.4 |
| Financial account balance 4/ | -1.1 | 2.4 | 4.2 | -7.4 | -2.2 |
| Private capital (net) | 0.8 | -0.8 | 1.7 | -3.6 | -3.0 |
| Commercial banks | 0.6 | 0.6 | 0.4 | -2.9 | -2.9 |
| Private nonbanks | 0.2 | -1.4 | 1.3 | -0.7 | -0.1 |
| Official capital 5/ | -1.7 | 3.1 | 2.6 | -3.7 | 0.8 |
| Errors and omissions | -5.3 | -3.8 | -8.7 | -8.1 | -8.1 |
| Overall balance | 0.3 | 0.8 | 1.5 | 2.8 | 0.5 |
| Change in central bank net foreign assets (=increase) | -0.3 | -0.8 | -1.5 | -2.8 | -0.5 |

Sources: National authorities; and Fund staff estimates.

1/ Including fertilizers and lubricants.

2/ Authorities estimates.

3/ Fund staff estimates.

4/ No data are collected on the capital account.

5/ Mainly changes in official external assets, including estimates for ADNOC profit transfers.

Table 35. United Arab Emirates: Balance of Payments, 1997–2001

(In billions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|--|--------|--------|--------|--------|---------------|
| Trade balance | 39.6 | 17.2 | 31.6 | 69.0 | 56.3 |
| Exports | 149.8 | 122.5 | 134.1 | 182.1 | 176.9 |
| Crude oil and products | 56.2 | 38.2 | 52.1 | 85.9 | 73.1 |
| Crude oil | 53.6 | 36.7 | 49.9 | 79.7 | 65.0 |
| Petroleum products 1/ | 2.6 | 1.5 | 2.2 | 6.2 | 8.1 |
| Natural gas | 10.6 | 7.7 | 8.4 | 13.6 | 12.5 |
| Non hydrocarbon | 43.3 | 34.0 | 30.0 | 34.4 | 40.1 |
| Exports by Emirates | 6.6 | 6.9 | 6.7 | 7.2 | 7.5 |
| Free zone exports | 14.6 | 15.8 | 16.6 | 20.2 | 24.9 |
| Nonmonetary gold exports | 22.1 | 11.3 | 6.7 | 7.0 | 7.7 |
| Reexports 2/ | 39.7 | 42.6 | 43.5 | 48.2 | 51.2 |
| Imports (f.o.b.) | -110.2 | -105.3 | -102.5 | -113.1 | -120.6 |
| Imports by emirates | -76.0 | -82.0 | -83.8 | -87.9 | -91.0 |
| Free zone imports | -2.5 | -2.5 | -5.9 | -5.9 | -7.0 |
| Nonmonetary gold | -11.3 | -11.6 | -11.9 | -18.0 | -21.7 |
| Investment income | 20.8 | 26.1 | 26.7 | 35.3 | 22.3 |
| Banking system and private nonbanks | 7.6 | 7.9 | 7.9 | 10.2 | 7.4 |
| Government 3/ | 13.3 | 18.2 | 18.9 | 25.1 | 14.9 |
| Services (net) | -22.4 | -21.9 | -21.8 | -22.6 | -23.4 |
| Credits | 6.4 | 7.1 | 7.6 | 8.0 | 8.3 |
| Debits | -28.8 | -29.0 | -29.4 | -30.6 | -31.7 |
| Transfers (net) | -13.3 | -13.5 | -14.4 | -14.6 | -15.5 |
| Private | -12.5 | -12.6 | -13.4 | -13.5 | -14.4 |
| Official | -0.8 | -0.9 | -1.0 | -1.1 | -1.1 |
| Current account balance | 24.7 | 7.9 | 22.1 | 67.1 | 39.7 |
| Financial account balance | -4.0 | 8.8 | 15.6 | -27.0 | -8.2 |
| Private capital (net) | 3.0 | -2.8 | 6.1 | -13.3 | -11.0 |
| Commercial banks | 2.3 | 2.4 | 1.4 | -10.7 | -10.8 |
| Private nonbanks | 0.7 | -5.1 | 4.8 | -2.6 | -0.2 |
| Official capital 4/ | -7.0 | 11.6 | 9.5 | -13.7 | 2.8 |
| Errors and omissions | -19.5 | -13.9 | -32.1 | -29.7 | -29.7 |
| Overall balance | 1.2 | 2.8 | 5.6 | 10.4 | 1.8 |
| Change in central bank net foreign assets (-=increase) | -1.2 | -2.8 | -5.6 | -10.4 | -1.8 |

Sources: National authorities; and Fund staff estimates.

1/ Including fertilizers and lubricants.

2/ Authorities' estimates.

3/ IMF staff estimates.

4/ Mainly changes in official external assets, including estimates for ADNOC profit transfers.

Table 36. United Arab Emirates: Merchandise Imports by Harmonized System Sections,
1997–2001 1/

(In millions of U.A.E. dirhams)

| | 1997 | 1998 | 1999 | 2000 | Prel. 2001 |
|--|--------|--------|--------|--------|---------------|
| Live animals, animal products | 2,511 | 2,774 | 2,834 | 2,900 | 3,314 |
| Vegetable products | 4,462 | 4,854 | 4,815 | 5,135 | 5,831 |
| Fats, oil and waxes | 411 | 415 | 413 | 451 | 461 |
| Foodstuffs, beverages, spirits, and tobacco | 2,522 | 2,554 | 2,578 | 2,540 | 3,387 |
| Mineral products | 1,267 | 1,549 | 1,605 | 1,922 | 2,209 |
| Chemicals and related materials | 5,466 | 5,897 | 5,750 | 5,998 | 6,914 |
| Plastics and rubber | 3,589 | 3,790 | 3,668 | 3,760 | 4,810 |
| Raw hides, leather, and articles thereof | 617 | 566 | 550 | 509 | 737 |
| Wood, cork, and articles thereof | 1,006 | 1,027 | 1,009 | 959 | 1,525 |
| Wood pulp, paper, and paperboard | 1,271 | 1,386 | 1,302 | 1,330 | 1,714 |
| Textiles and textile articles | 11,703 | 11,126 | 10,914 | 10,642 | 15,322 |
| Footwear and other accessories | 1,360 | 1,183 | 1,238 | 1,017 | 1,813 |
| Stone, plaster, cement, ceramic, and glassware | 1,878 | 2,035 | 2,036 | 2,103 | 2,620 |
| Pearls, precious stones, and precious metals | 2,649 | 2,673 | 2,925 | 3,499 | 2,481 |
| Base metals and related products | 7,473 | 8,306 | 8,263 | 8,587 | 9,267 |
| Machinery and electrical equipment | 19,806 | 22,691 | 22,845 | 24,871 | 26,067 |
| Vehicles and other transport equipment | 10,209 | 11,720 | 13,069 | 15,880 | 15,464 |
| Optical and medical equipment | 2,598 | 2,765 | 2,852 | 2,867 | 3,070 |
| Arms and ammunition | 14 | 224 | 9 | 23 | 24 |
| Miscellaneous manufactured goods | 3,261 | 3,178 | 2,944 | 3,007 | 3,302 |
| Works of art and antiques | 107 | 109 | 92 | 119 | 122 |
| Total imports | 84,180 | 90,822 | 91,711 | 98,119 | 110,454 |

Source: Central Bank of the United Arab Emirates.

1/ Imports of the Emirates of Abu Dhabi, Dubai, and Sharjah.

Table 37. United Arab Emirates: Merchandise Exports by
Harmonized System Sections, 1999–2001 1/

(In millions of U.A.E. dirhams)

| | 1999 | 2000 | <u>Prel.</u> 2001 |
|--|-------|-------|----------------------|
| Live animals, animal products | 122 | 102 | 201 |
| Vegetable products | 134 | 112 | 185 |
| Fats, oil and waxes | 136 | 137 | 168 |
| Foodstuffs, beverages, spirits, and tobacco | 309 | 343 | 365 |
| Mineral products | 297 | 349 | 335 |
| Chemicals and related materials | 297 | 293 | 422 |
| Plastics and rubber | 131 | 160 | 153 |
| Raw hides, leather, and articles thereof | 12 | 7 | 21 |
| Wood, cork, and articles thereof | 9 | 3 | 0 |
| Wood pulp, paper, and paperboard | 110 | 113 | 146 |
| Textiles and textile articles | 942 | 1,005 | 1,160 |
| Footwear and other accessories | 3 | 3 | 3 |
| Stone, plaster, cement, ceramic, and glassware | 175 | 162 | 217 |
| Pearls, precious stones, and precious metals | 237 | 276 | 224 |
| Base metals and related products | 2,656 | 3,052 | 2,997 |
| Machinery and electrical equipment | 163 | 246 | 95 |
| Vehicles and other transport equipment | 158 | 135 | 286 |
| Optical and medical equipment | 1 | 2 | 1 |
| Arms and ammunition | ... | ... | ... |
| Miscellaneous manufactured goods | 30 | 41 | 26 |
| Works of art and antiques | 12 | 20 | 8 |
| Total exports 2/ | 5,934 | 6,561 | 7,012 |

Source: Central Bank of the United Arab Emirates.

1/ Excluding hydrocarbons; pre-1999 data not available.

2/ Exports by Emirates, excluding free zone exports.

Table 38. United Arab Emirates: Direction of Trade: Imports, 1997–2001 1/

(In percent of total)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|-------------------------------|-------|-------|-------|-------|----------------------|
| Total imports, c.i.f. | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Industrial countries | 52.0 | 52.2 | 52.4 | 52.7 | 52.5 |
| <i>Of which</i> | | | | | |
| Japan | 10.2 | 9.9 | 10.1 | 10.3 | 10.2 |
| United States | 9.4 | 9.3 | 9.5 | 9.6 | 9.6 |
| United Kingdom | 8.7 | 8.8 | 8.6 | 8.8 | 8.8 |
| Italy | 5.2 | 5.6 | 5.9 | 6.1 | 6.2 |
| Germany | 6.9 | 6.8 | 6.5 | 6.5 | 6.7 |
| France | 3.9 | 3.8 | 3.9 | 4 | 4.1 |
| Netherlands | 1.7 | 1.8 | 1.6 | 1.7 | 1.5 |
| Australia | 2.0 | 1.9 | 1.8 | 1.7 | 1.6 |
| Switzerland | 1.6 | 1.7 | 1.5 | 1.4 | 1.5 |
| Developing countries | 47.1 | 46.8 | 46.5 | 46.3 | 46.5 |
| Arab countries | 6.2 | 5.8 | 5.7 | 5.5 | 5.6 |
| <i>Of which: Saudi Arabia</i> | 3.5 | 3.1 | 2.9 | 3 | 2.9 |
| Other developing countries | 40.9 | 41.0 | 41.2 | 41.3 | 41.5 |
| <i>Of which</i> | | | | | |
| India | 5.8 | 5.9 | 6.1 | 6.8 | 6.7 |
| Korea | 5.1 | 5.4 | 5.3 | 5.4 | 5.3 |
| Hong Kong, SAR | 0.8 | 0.7 | 0.7 | 0.6 | 0.7 |
| China | 8.0 | 7.9 | 8.2 | 8.4 | 8.6 |
| Pakistan | 1.1 | 1.2 | 1 | 1 | 0.9 |
| Iran | 1.4 | 1.5 | 1.4 | 1.3 | 1.5 |
| Other unspecified | 0.9 | 1.0 | 1.1 | 1.2 | 1.0 |

Source: IMF, *Direction of Trade Statistics*.

1/ Based on partner country information.

Table 39. United Arab Emirates: Direction of Trade: Exports, 1997–2001 1/

(In percent of total)

| | 1997 | 1998 | 1999 | 2000 | <u>Prel.</u> 2001 |
|---|-------|-------|-------|-------|----------------------|
| Total exports (hydrocarbons, reexports) | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Industrial countries | 45.1 | 39.7 | 45.8 | 46.1 | 45.9 |
| <i>Of which</i> | | | | | |
| Japan | 35.8 | 29.7 | 36.5 | 36.1 | 36.4 |
| United States | 6.2 | 6.4 | 2.2 | 2.4 | 2.1 |
| United Kingdom | 2.5 | 3.3 | 1.8 | 1.8 | 1.9 |
| Australia | 1.5 | 0.8 | 1.9 | 1.8 | 2 |
| France | 0.2 | 0.4 | 0.2 | 0.3 | 0.2 |
| Germany | 0.5 | 0.7 | 0.7 | 0.9 | 0.9 |
| Italy | 0.2 | 0.4 | 0.6 | 0.7 | 0.8 |
| Netherlands | 0.2 | 0.3 | 0.2 | 0.2 | 0.3 |
| Developing countries | 41.1 | 42.9 | 42.3 | 42.5 | 42.4 |
| Arab countries | 7.0 | 9.9 | 10.2 | 10.4 | 10.2 |
| <i>Of which</i> | | | | | |
| Oman | 3.5 | 5.1 | 3.6 | 3.1 | 3.4 |
| Saudi Arabia | 1.3 | 1.8 | 1.4 | 1.7 | 1.8 |
| Other developing countries | 34.1 | 33.0 | 32.1 | 32.8 | 32.5 |
| <i>Of which</i> | | | | | |
| Korea | 9.0 | 7.6 | 7.2 | 7.0 | 7.1 |
| Iran | 1.6 | 2.0 | 3.5 | 3.7 | 3.8 |
| Singapore | 4.8 | 3.8 | 6.4 | 6.1 | 6.3 |
| India | 4.9 | 6.4 | 7.2 | 7.4 | 7.5 |
| Thailand | 2.5 | 2.6 | 2.4 | 2.1 | 2.3 |
| Kenya | 0.9 | 1.1 | 1.1 | 1.3 | 1.4 |
| Hong Kong, SAR | 0.8 | 0.9 | 1.2 | 1.1 | 1.1 |
| Pakistan | 3.0 | 2.1 | 2.0 | 2.4 | 2.4 |
| Philippines | 1.1 | 0.9 | 0.9 | 0.8 | 0.8 |
| Other unspecified | 13.8 | 17.4 | 11.9 | 11.4 | 11.7 |

Source: IMF, *Direction of Trade Statistics*.

1/ Based on partner country information.