#### **Prefatory Note**

The attached document represents the most complete and accurate version available based on original files from the FOMC Secretariat at the Board of Governors of the Federal Reserve System.

Please note that some material may have been redacted from this document if that material was received on a confidential basis. Redacted material is indicated by occasional gaps in the text or by gray boxes around non-text content. All redacted passages are exempt from disclosure under applicable provisions of the Freedom of Information Act.

Part 2 March 13, 2008

# CURRENT ECONOMIC AND FINANCIAL CONDITIONS

### **Recent Developments**

March 13, 2008

### **Recent Developments**

Prepared for the Federal Open Market Committee by the staff of the Board of Governors of the Federal Reserve System

# Domestic Nonfinancial Developments

### **Domestic Nonfinancial Developments**

The economy appears to have stalled this quarter following a very weak fourth quarter. Labor market conditions deteriorated at the beginning of the year, with private payroll employment contracting in February for the third month in a row. Residential construction activity has continued its steep descent. Consumer spending looks to be about flat this quarter, as gains in household wealth and real income have diminished and sentiment has slumped. Business spending generally also appears to have been sluggish around the turn of the year, while forward-looking indicators such as business sentiment have soured, and manufacturing output has faltered. Meanwhile, the acceleration in prices since the middle of last year has continued, led by increases in food and energy prices. Core inflation has also stepped up in recent months, although the twelve-month change in core prices in January remained slightly below what it was a year ago.

#### **Labor Market Developments**

Labor demand has deteriorated markedly in recent months. In February, private payroll employment fell 101,000 following smaller job losses in the previous two months. With the exception of nonbusiness services, the recent employment declines were widespread. Manufacturing payrolls decreased at an average rate of 41,000 per month so far this year, about twice the pace seen in the second half of last year. Job losses in the temporary help industry also steepened over this period, while employment in wholesale trade—which often moves closely with the manufacturing sector—turned down. Employment in the residential construction industry and related financial services industries continued to decline in early 2008. The average workweek of production or nonsupervisory workers on private nonfarm payrolls moved down to 33.7 hours in January and held at that level in February. Accordingly, aggregate weekly hours fell in January and edged down a bit further in February to a level 0.4 percent (not at an annual rate) below the fourth-quarter average.

Turning to the household survey, the unemployment rate has averaged 4.9 percent over the past three months, up from 4.5 percent in the first half of last year. Most of the increase since that time is attributable to a rise in unemployed job losers. The labor force participation rate moved down 0.2 percentage point in February, to 65.9 percent, and has changed little, on net, since last spring.

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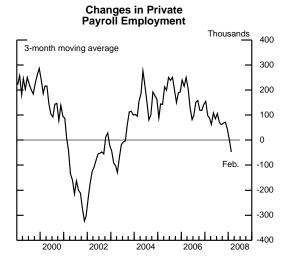
<sup>&</sup>lt;sup>1</sup> On February 26, about 3,600 UAW employees at American Axle & Manufacturing, a motor vehicle parts supplier for General Motors (GM), went on strike. By the week ending March 15—the reference week for the March payroll survey—GM anticipates that it will have temporarily shut down a number of assembly and parts plants, idling between 20,000 and 40,000 workers.

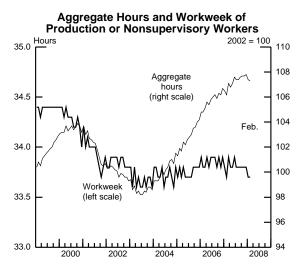
#### **Changes in Employment**

(Thousands of employees; seasonally adjusted)

			20	007		2	008
Measure and sector	2006	H1	Q3	Q4	Dec.	Jan.	Feb.
	A	verage mo	nthly char	nge	N	Ionthly cha	ange
Nonfarm payroll employment							
(establishment survey)	175	107	71	80	41	-22	-63
Private	159	87	62	45	-14	-26	-101
Natural resources and mining	5	3	2	4	4	2	2
Manufacturing	-14	-24	-23	-17	-22	-31	-52
Construction	13	-7	-22	-41	-55	-25	-39
Wholesale trade	12	10	9	6	-2	-5	-7
Retail trade	5	12	1	0	-25	0	-34
Transportation and utilities	10	2	7	-3	-8	-7	2
Information	-2	0	-1	-4	-4	-4	1
Financial activities	9	-7	-8	-14	-8	-8	-12
Professional and business services	46	19	22	44	52	-9	-20
Temporary help services	1	-9	-13	4	-5	-11	-28
Nonbusiness services <sup>1</sup>	76	80	76	71	54	61	58
Total government	16	20	8	35	55	4	38
Total employment (household survey)	264	23	58	-16	-436	37	-255
Memo:							
Aggregate hours of private production							
workers (percent change) <sup>2</sup>	2.4	1.4	1.1	1.0	.1	4	1
Average workweek (hours) <sup>3</sup>	33.9	33.8	33.8	33.8	33.8	33.7	33.7
Manufacturing (hours)	41.1	41.1	41.4	41.2	41.1	41.1	41.1

1. Nonbusiness services comprises education and health, leisure and hospitality, and "other."
2. Establishment survey. Annual data are percent changes from Q4 to Q4. Quarterly data are percent changes from preceding quarter at an annual rate. Monthly data are percent changes from preceding month.
3. Establishment survey.

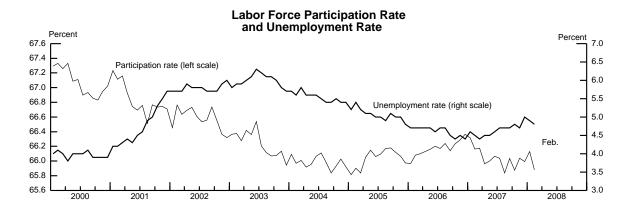




#### **Selected Unemployment and Labor Force Participation Rates**

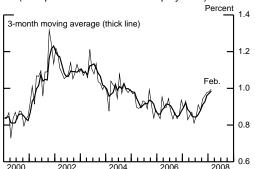
(Percent; seasonally adjusted)

			20		2008		
Rate and group	2007	Q2	Q3	Q4	Dec.	Jan.	Feb.
Civilian unemployment rate							
Total	4.6	4.5	4.7	4.8	5.0	4.9	4.8
Teenagers	15.7	15.7	15.8	16.4	17.1	18.0	16.6
20-24 years old	8.2	7.8	8.6	8.6	9.4	8.7	8.9
Men, 25 years and older	3.6	3.5	3.6	3.7	3.8	3.8	3.7
Women, 25 years and older	3.6	3.6	3.7	3.8	3.9	3.8	3.8
Labor force participation rate							
Total	66.0	66.0	66.0	66.0	66.0	66.1	65.9
Teenagers	41.3	41.5	40.7	41.0	41.0	41.0	40.0
20-24 years old	74.4	74.2	74.4	74.0	73.9	74.4	73.5
Men, 25 years and older	75.6	75.6	75.6	75.5	75.6	75.6	75.5
Women, 25 years and older	59.7	59.6	59.8	59.7	59.7	59.9	59.8



#### Job Losers Unemployed Less Than 5 Weeks

(as a percent of household employment)



### Unemployed Due to Job Loss (as a percent of the labor force)

Percent 4.0

3.5

3.0

Feb.

2.5

2.00

1.5

1.0

Most other indicators of labor demand have weakened of late. In particular, the fourweek moving average of initial claims for unemployment insurance climbed further to 359,000 for the week ending March 8, about 35,000 above the level that prevailed last fall; continuing claims for unemployment insurance also moved higher over this period. The most recent readings on net hiring plans from Manpower and the National Federation of Independent Business (NFIB) point to a further slowdown in hiring, and the vacancy rate (job openings as a percent of private employment) in the Job Openings and Labor Turnover (JOLT) survey has moved lower in recent months. In contrast, announcements of job cuts reported by Challenger, Gray, and Christmas have not shown the same deterioration as other indicators, and the rate of layoffs and discharges in the JOLT survey moved back down at the turn of the year after rising in the fall.

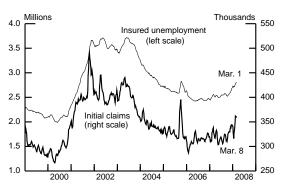
Measures of labor market tightness are also generally consistent with a softening in labor market conditions since late last year. Unemployment expectations in the Reuters/University of Michigan Survey jumped in December and remained elevated through February, while respondents to the Conference Board survey reported that job availability continued to erode through last month. After having moved down over the second half of last year, the fraction of firms reporting hard-to-fill positions has changed little in recent months, according to the NFIB.

The staff estimates that output per hour in the nonfarm business sector rose at an annual rate of 1.8 percent in the fourth quarter. Over the four quarters of 2007, productivity increased 2.9 percent, up from 0.9 percent in 2006.<sup>2</sup> Over the past four years, productivity growth has averaged 1.8 percent.

<sup>&</sup>lt;sup>2</sup> These nonfarm business productivity estimates reflect the BLS's recent incorporation of the benchmark revision to nonfarm payroll employment, which led to an upward revision of 0.3 percentage point to the increase in productivity over the four quarters of 2007. Productivity in earlier years revised little.

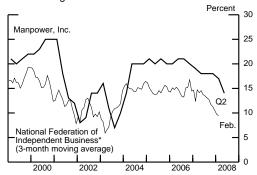
#### **Labor Market Indicators**

#### **Unemployment Insurance**



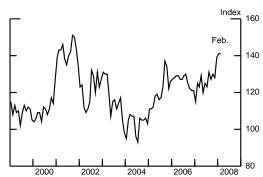
Note. 4-week moving averages.

#### Net Hiring Plans



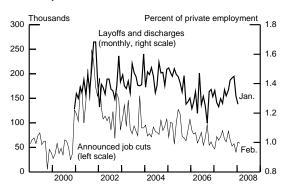
Note. Percent planning an increase in employment minus percent planning a reduction. \*Seasonally adjusted by FRB staff.

#### Reuters/Michigan Expected Unemployment Change (next 12 months)



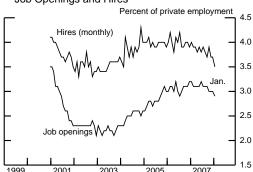
Note. The fraction of households expecting unemployment to rise, minus the fraction expecting unemployment to fall, plus 100.

#### Layoffs and Job Cuts



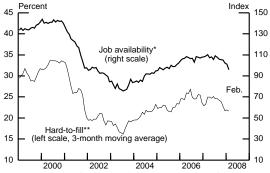
Note. Both series are seasonally adjusted by FRB staff. Source. For layoffs and discharges, Job Openings and Labor Turnover Survey; for job cuts, Challenger, Gray, and Christmas, Inc.

#### Job Openings and Hires



Source. Job Openings and Labor Turnover Survey.

#### Job Availability and Hard-to-Fill Positions



\*Proportion of households believing jobs are plentiful, minus the proportion believing jobs are hard to get, plus 100. \*\*Percent of small businesses surveyed with at least one 'hard-to-fill' job opening. Seasonally adjusted by FRB staff. Source. For job availability, Conference Board; for hardto-fill, National Federation of Independent Business.

#### Output per Hour

(Percent change from preceding period at an annual rate; seasonally adjusted)

	2005:Q4 to	2006:Q4 to	2006:Q4 2007				
Sector	2006:Q4	2007:Q4	Q1	Q2	Q3	Q4	
Nonfarm business All persons All employees <sup>2</sup> Nonfinancial corporations <sup>3</sup>	.9 1.1 1.4	2.9 <sup>1</sup> 2.2 <sup>1</sup> n.a.	1.0 .7 1.2	2.6 2.9 2.1	6.3 5.2 2.9	1.8 <sup>1</sup> .2 <sup>1</sup> n.a.	

- 1. Staff estimates.
- 2. Assumes that the growth rate of hours of non-employees equals the growth rate of hours of employees.
- 3. All corporations doing business in the United States except banks, stock and commodity brokers, and finance and insurance companies. The sector accounts for about two-thirds of business employment. Nonfinancial corporate output is calculated as an income-side measure.
- n.a. Not available.

#### Industrial Production

The available indicators suggest that industrial production (IP) dropped back in February after having edged up in the previous two months. Factory output appears to have slipped last month, and utilities output fell sharply after a weather-related rise in January. While weakness in the construction and motor vehicle sectors has restrained manufacturing output recently, robust exports have provided a partial buffer. Capacity utilization in manufacturing stood at 81.5 percent in January, ¾ percentage point below the previous peak last July but still ½ percentage point above its 1972-2007 average.

The output of motor vehicles and parts moved down further early this year. Total motor vehicle assemblies in January and February averaged an annual rate of 10.1 million units, down about 400,000 units from their pace in the fourth quarter of last year. The automakers have been diligent in their efforts to keep production aligned with sales. Thus, despite the recent step-down in sales, days' supply of light vehicles in February remained near its historical average. The latest production schedules, which do not incorporate the strike-related plant shutdowns at General Motors (GM),<sup>3</sup> call for assemblies to edge up slightly in both March and the second quarter. Elsewhere in transportation, commercial aircraft production continued to rise at the beginning of the year, as Boeing prepares for the launch of its new 787 Dreamliner.

<sup>&</sup>lt;sup>3</sup> As noted, parts shortages from the American Axle & Manufacturing strike have caused a significant number of GM assembly plants in the U.S. to shut down. We estimate that each week of lost production at the affected plants would reduce total production in March by roughly 175,000 units (annual rate) and would reduce the change in total IP by about 0.05 percent.

## **Selected Components of Industrial Production** (Percent change from preceding comparable period)

	Proportion 2007	$2007^{1}$	2	007	20	07	2008
Component	(percent)	2007	Q3	Q4	Nov.	Dec.	Jan.
			Annı	ual rate	I	Monthly ra	te
<b>Total</b> Previous	<b>100.0</b> 100.0	<b>1.8</b> 1.8	<b>3.6</b> 3.6	<b>-1.0</b> -1.0	. <b>4</b> .3	<b>.1</b> .0	.1 
Manufacturing Ex. motor veh. and parts Ex. high-tech industries	82.3	1.7	3.6	-1.7	.3	.2	.0
	77.0	2.0	3.8	-1.0	.2	.2	.1
	72.3	1.0	2.4	-2.2	.1	.1	.0
Mining	8.0	1.1	4.1	5.3	1.7	1	-1.8
Utilities	9.7	2.6	3.1	.1	.4	2	2.2
Selected industries Energy	19.8	2.6	4.8	2.4	.8	1	.9
High technology	4.7	17.2	26.4	17.2	1.3	1.0	1.9
Computers	1.3	24.3	14.0	13.1	1.8	1.0	1.3
Communications equipment	1.1	15.1	8.2	17.3	2.4	.7	1.9
Semiconductors <sup>2</sup>	2.3	15.0	43.7	19.5	.5	1.2	2.2
Motor vehicles and parts	5.3	-1.8	1.2	-12.3	1.1	.2	-1.3
Total ex. selected industries	70.2	.7	2.0	-2.3	.1	.1	2
Consumer goods	21.1	.2	.8	-2.6	5	1	1
Durables	3.9	-1.8	.5	-7.6	1	1	6
Nondurables	17.1	.7	.9	-1.5	5	1	.0
Business equipment	8.1	2.4	7.3	1.3	.3	.9	.2
Defense and space equipment	1.7	-1.0	2.8	-2.1	1.3	.0	.9
Construction supplies	4.5	8	1.3	-6.6	5	1.1	-1.1
Business supplies	7.9	2	.1	-1.9	.0	1	1
Materials	26.9	1.3	2.1	-2.4	.6	.0	2
Durables	15.0	2.8	4.6	7	.7	2	4
Nondurables	11.8	5	-1.0	-4.5	.5	.1	.0

From fourth quarter of preceding year to fourth quarter of year shown.
 Includes related electronic components.
 Not applicable.

## Capacity Utilization (Percent of capacity)

	1972-	1994-	2001-						
Sector	2007 average	95 high	02 low	Q2	Q3	Q4	Dec.	Jan.	
<b>Total industry</b>	81.0	85.1	73.6	81.7	82.0	81.5	81.5	81.5	
Manufacturing Ex. motor veh. and parts Mining Utilities	79.8 80.0 87.5 86.7	84.6 84.3 88.9 93.7	71.6 71.4 84.8 83.8	80.3 80.5 89.9 85.8	80.6 80.8 90.8 86.2	79.8 80.1 91.9 86.0	79.8 80.0 92.4 85.9	79.7 80.0 90.6 87.7	
Stage-of-process groups Crude Primary and semifinished Finished	86.6 82.2 77.8	89.5 88.2 80.5	82.0 74.6 70.0	89.2 82.2 78.6	89.7 82.7 78.8	90.2 81.8 78.3	90.7 81.7 78.3	89.8 81.9 78.3	

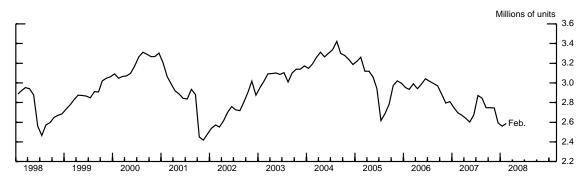
### **Production of Domestic Light Vehicles** (Millions of units at an annual rate except as noted)

	200	07	20	08	2007		2008	
Item	Q3	Q4	Q1	Q2	Dec.	Jan.	Feb.	Mar.
U.S. production <sup>1</sup>	10.7	10.3	9.9	10.1	10.3	9.9	9.9	10.0
Autos	3.9	4.0	4.0	4.1	4.1	4.0	3.9	4.1
Light trucks	6.8	6.3	5.9	6.1	6.2	6.0	6.0	5.9
Days' supply <sup>2</sup>	69	64	n.a.	n.a.	64	67	68	n.a.
Autos	59	51	n.a.	n.a.	50	53	54	n.a.
Light trucks	75	76	n.a.	n.a.	76	78	79	n.a.
Inventories <sup>3</sup>	2.75	2.59	n.a.	n.a.	2.59	2.56	2.59	n.a.
Autos	.99	.90	n.a.	n.a.	.90	.88	.88	n.a.
Light trucks	1.76	1.69	n.a.	n.a.	1.69	1.68	1.70	n.a.
Memo: U.S. production,								
total motor vehicles <sup>4</sup>	10.9	10.5	10.1	10.4	10.5	10.2	10.1	10.2

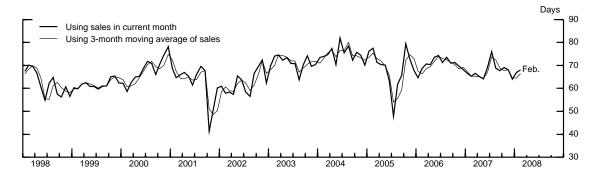
- Note. FRB seasonals. Components may not sum to totals because of rounding.

  1. Production rates for March and the second quarter reflect the latest industry schedules.
- 2. Quarterly values are calculated with end-of-period stocks and average reported sales.
- 3. End-of-period stocks.
- 4. Includes medium and heavy trucks.
- n.a. Not available.

#### **Inventories of Light Vehicles**



#### Days' Supply of Light Vehicles



Output in high-tech industries has increased moderately of late. Semiconductor output—MPU and non-MPU chips—has slowed since the middle of last year, and domestic orders of printed circuit boards, a nonchip category of semiconductor IP, slumped further in January. Strong consumer demand led to a jump in unit sales of personal computers (PC) in the fourth quarter, but sales of servers only edged up. Elsewhere in high-tech, the output of communications equipment continued to post solid gains in January after a strong fourth quarter.

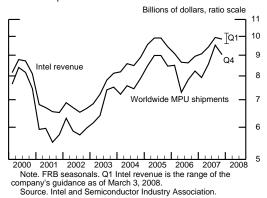
Forward-looking indicators suggest that high-tech output will continue to increase but at only a modest pace. Intel's latest guidance for the current quarter points to little change in nominal revenue and is consistent with a moderate rise in real MPU production. The International Data Corporation (IDC) projects that the pace of PC sales will slow this quarter, and recent anecdotal reports from large computer producers such as Hewlett-Packard and IBM indicate that domestic demand has decelerated noticeably. First-quarter earnings guidance from Cisco, a large producer of high-end data networking equipment, suggests that demand for this category of communications equipment softened appreciably since the turn of the year.

Outside of energy, transportation, and high-tech, production was little changed in the three months ending in January, and the available data suggest that output declined in February. Among the major market groups, production of materials fell in January, as did production of construction supplies, which was 1.3 percent below its level a year earlier. Supplies associated with residential construction were down more than 7 percent relative to their year-earlier level, while the production of supplies associated with nonresidential construction was little changed. Elsewhere, consumer goods output declined for the fourth consecutive month in January, while business equipment production rose modestly.

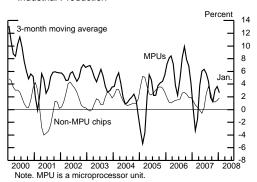
Near-term indicators of manufacturing activity generally suggest that production will remain sluggish, at best, over the next few months. In particular, the three-month moving average of real adjusted durable goods orders was flat in January, the Institute of Supply Management's (ISM) diffusion index of new orders stood below 50 for a third month in February, and the new orders indexes from regional surveys continued to decline, on balance. On a more positive note, the staff's series on announced layoffs in the manufacturing sector has remained at a relatively low level the past several months.

#### **Indicators of High-Tech Manufacturing Activity**

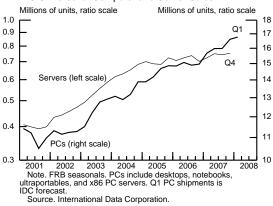
#### MPU Shipments and Intel Revenue



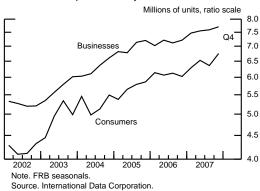
### Rate of Change in Semiconductor Industrial Production



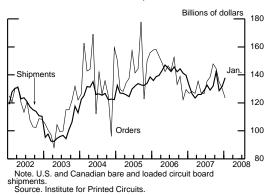
#### U.S. Personal Computer and Server Sales



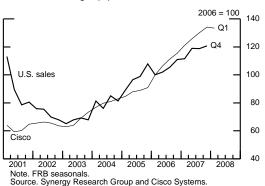
#### Personal Computer Sales by Market



#### Circuit Board Orders and Shipments

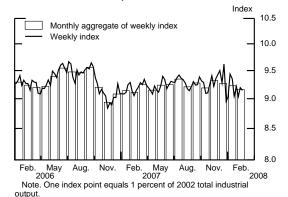


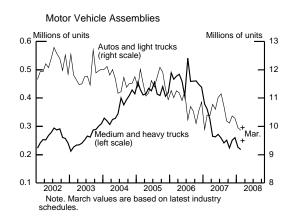
### Cisco Revenue and U.S. Sales of High-End Data Networking Equipment



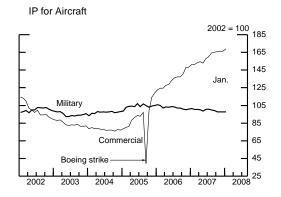
#### **Indicators of Industrial Activity**

#### Weekly Production Index excluding Motor Vehicles and Electricity Generation

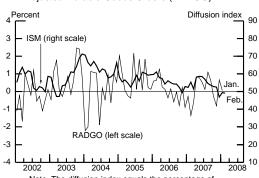




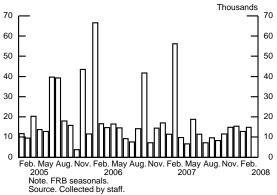
#### **Trade Shares** Percent Percent 22 30 21 28 Imports/domestic absorbtion (right scale) 20 26 19 18 24 17 22 Exports/shipments (left scale) 16 20 15 2003 2004 2005 2007 2006 Note. Trade shares are 3-month moving averages. Source. Department of Commerce.



### New Orders: ISM Survey and Change in Real Adjusted Durable Goods Orders (RADGO)



Manufacturing Layoff Announcements



Note. The diffusion index equals the percentage of respondents reporting greater levels of new orders plus one-half the percentage of respondents reporting that new orders were unchanged. RADGO is a 3-month moving

#### **Motor Vehicles**

The average pace of light vehicle sales stepped down in January and February to an average annual rate of 15.3 million units, or 800,000 units below the fourth-quarter pace.

The available

indicators of vehicle demand suggest that sales will remain soft in the near term: Employment has fallen, real income gains have been weak, and the Reuters/University of Michigan Survey index of car-buying attitudes remained near its historic low in February. Through the first ten days of March, the pace of sales at Toyota, Honda, Nissan, and Mazda was about the same as last month, and our contacts at the major domestic firms are also projecting flat sales for March.

#### **Consumer Spending**

Consumer spending has slowed in recent months. Nominal sales in the retail control category, which excludes sales at auto dealers and building material and supply stores, moved down in February on sharply lower sales at gasoline stations and weakness at most types of establishments. Factoring in our estimate of PCE prices, real spending in the retail control category of goods has now fallen at an average rate of 0.2 percent per month over the past three months. As noted above, spending on motor vehicles has also sagged recently. And, although real spending on services is reported to have increased solidly from November through January, part of this strength reflected a jump in outlays for energy services, which was likely transitory. Moreover, the Bureau of Economic Analysis (BEA) lacks timely data on many categories of services consumption, and its estimates for these categories are often extrapolations of past trends that may not accurately reflect the recent pace of spending.<sup>4</sup>

The slowing in consumer spending likely reflects the deterioration in its fundamental determinants and tighter credit conditions for some households. House prices fell in the fourth quarter of 2007, and equity prices have declined appreciably since the start of this year; both developments point to a noticeable decline in the ratio of household net worth to disposable personal income (DPI) this quarter. In addition, real DPI was unchanged in the fourth quarter, held down by higher prices for food and imported oil, and was reported to have only edged up in January despite a temporary boost from the BEA's estimate of turn-of-the-year bonuses. While interest rates on credit cards and auto loans have edged down recently, industry reports suggest that tighter standards in consumer

<sup>&</sup>lt;sup>4</sup> Consumer spending on services has been subject to noticeable downward revisions around the start of downturns in economic activity—for example, from late 1981 to early 1982 and then from late 1990 to early 1991.

**Sales of Light Vehicles** 

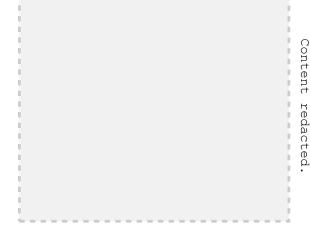
(Millions of units at an annual rate; FRB seasonals)

			20		2008		
Category	2007	Q2	Q3	Q4	Dec.	Jan.	Feb.
Total	16.1	16.0	15.9	16.1	16.2	15.3	15.3
Autos Light trucks	7.6 8.5	7.7 8.3	7.4 8.5	7.8 8.3	7.9 8.3	7.3 8.0	7.3 7.9
North American <sup>1</sup> Autos Light trucks	12.4 5.3 7.1	12.3 5.3 7.0	12.3 5.1 7.2	12.3 5.5 6.9	12.4 5.6 6.9	11.8 5.1 6.6	11.7 5.0 6.6
Foreign-produced Autos Light trucks	3.8 2.4 1.4	3.8 2.4 1.4	3.6 2.3 1.3	3.8 2.3 1.4	3.7 2.3 1.4	3.5 2.2 1.3	3.6 2.3 1.3
Memo: Detroit Three domestic market share (percent) <sup>2</sup>	51.2	51.8	50.4	50.4	49.9	51.3	50.7

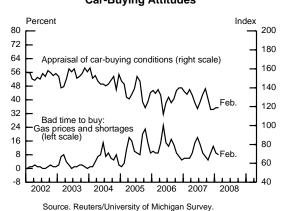
- Note. Components may not sum to totals because of rounding.

  1. Excludes some vehicles produced in Canada that are classified as imports by the industry.
- 2. Domestic market share excludes sales of foreign brands affiliated with the Detroit Three.

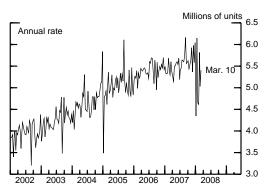




#### **Car-Buying Attitudes**



Ten-Day U.S. Light Vehicle Sales for Toyota, Honda, Nissan, and Mazda



Source. Nissan North America.

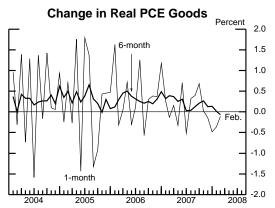
#### **Retail and Food Services Sales**

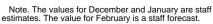
(Percent change from preceding period; seasonally adjusted current dollars)

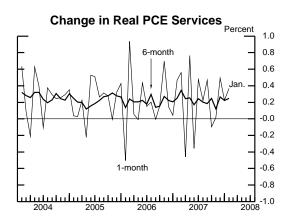
		200	)7		2008		
Category	Q2	Q3	Q4	Dec.	Jan.	Feb.	
	A	nnual rate		Monthly rate			
Total sales	4.8	3.7	3.6	7	.4	6	
Retail control <sup>1</sup>	7.8	4.0	6.0	3	.6	2	
Ex. sales at gasoline stations	4.7	5.0	1.9	3	.3	.0	
Memo: Real PCE control <sup>2</sup>	.3	4.1	1.0	6	.0	1	

<sup>1.</sup> Total sales less outlays at building material and supply stores and automobile and other motor vehicle dealers.

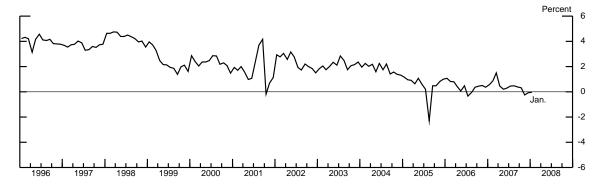
<sup>2.</sup> Total goods spending excluding autos and trucks. The values for December and January are staff estimates. The value for February is a staff forecast.





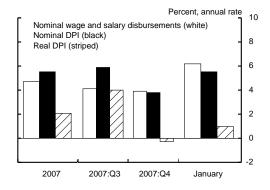


#### **Personal Saving Rate**

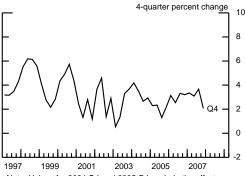


#### **Fundamentals of Household Spending**

#### Changes in Wages, Salaries, and Disposable Income

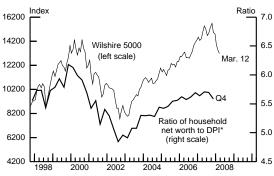


#### Changes in Real DPI



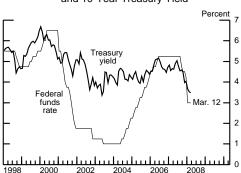
Note. Values for 2004:Q4 and 2005:Q4 exclude the effect on income of the one-time Microsoft dividend in December 2004.

#### Household Net Worth and Wilshire 5000



\*The value for 2004:Q4 excludes the effect on income of the one-time Microsoft dividend in December 2004.

### Target Federal Funds Rate and 10-Year Treasury Yield



#### Consumer Confidence



loan markets are limiting some households' access to credit, which may be constraining their spending. Despite that credit tightening, the personal saving rate in January remained a shade below zero for the third straight month, as households are apparently adjusting only slowly to their reduced purchasing power.

Consumer sentiment, as measured by the Reuters/University of Michigan and Conference Board surveys, deteriorated sharply in February on heightened concerns about current economic conditions and the near-term outlook. The index from the Reuters/Michigan survey now stands 20 points below its level in midsummer and is around the lows reached in the early 1990s. About two-thirds of Reuters/Michigan survey respondents said they expect business conditions to be "bad" next year, and about half said they expect an increase in unemployment.

#### Housing

The sharp contraction in residential construction has continued into 2008. Single-family housing starts fell another 5 percent in January—similar to the average rate of decline in the second half of last year—to an annual rate of 743,000 units. Adjusted single-family permit issuance—generally a useful indicator of current and future construction activity—also moved down in January and remained below starts. Meanwhile, multifamily starts moved up in January from their unusually low reading in December but remained below the range that this series has occupied for the past ten years. However, recent multifamily permit issuance points to a return to the low end of this range in the near term.

Home sales also weakened further in the past few months. The Census Bureau's estimate of new single-family home sales stepped down 3 percent in January following an average monthly decline of 4 percent in the fourth quarter.

. In the market

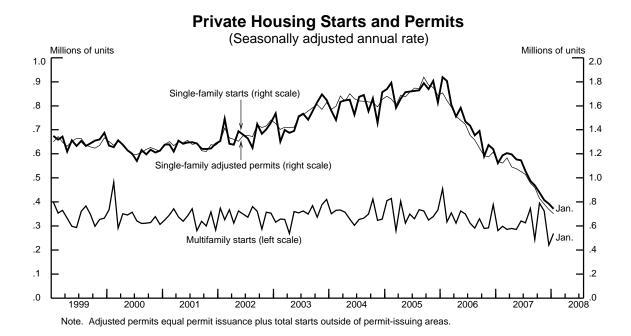
for existing homes, single-family sales edged up 0.5 percent in January after having moved down at an average rate of 1 percent per month in the fourth quarter. In addition, the index of pending sales agreements—which tends to lead sales of existing single-family homes by one to two months—suggests that sales will be flat in February and March.

Because sales of new homes continued to fall sharply over the past six months, builders have made little progress in paring their bloated inventories. Despite a 10 percent contraction in the inventory of new homes for sale over the six-month period ending in

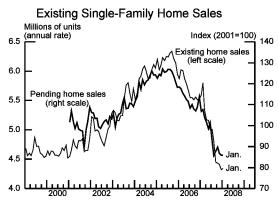
**Private Housing Activity**(Millions of units, seasonally adjusted; annual rate except as noted)

			20	007		2008
Sector	2007	Q3	Q4	Nov.	Dec.	Jan.
All units Starts Permits	1.36 1.38	1.30 1.32	1.15 1.14	1.18 1.16	1.00 1.08	1.01 1.06
Single-family units Starts Permits Adjusted permits Permit backlog <sup>2</sup>	1.05 .97 .99 .109	.99 .94 .97 .114	.83 .76 .78 .109	.82 .77 .78 .113	.78 .70 .74 .109	.74 .68 .70 .110
New homes Sales Months' supply <sup>3</sup>	.78 8.34	.73 8.79	.65 9.27	.63 9.56	.61 9.78	.59 9.84
Existing homes Sales Months' supply <sup>3</sup>	4.94 8.68	4.76 9.15	4.39 10.02	4.41 9.74	4.32 10.32	4.34 10.77
Multifamily units Starts Permits Permit backlog <sup>2</sup>	.309 .407 .074	.310 .384 .075	.326 .377 .074	.362 .392 .072	.220 .378 .074	.269 .380 .078
Mobile homes Shipments	.096	.096	.093	.093	.091	.091
Condos and co-ops Existing home sales	.713	.701	.608	.611	.588	.550

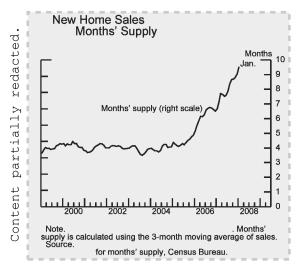
- 1. Adjusted permits equal permit issuance plus total starts outside of permit-issuing areas.
- 2. Number outstanding at end of period. Excludes permits that have expired or have been canceled, abandoned, or revoked. Not at an annual rate.
- 3. At current sales rate; expressed as the ratio of seasonally adjusted inventories to seasonally adjusted sales. Quarterly and annual figures are averages of monthly figures.



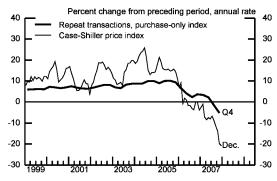
#### **Indicators of Single-Family Housing**



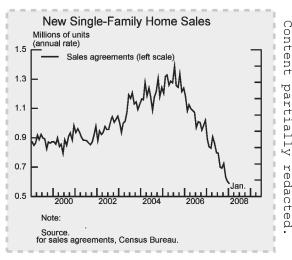
Source. National Association of Realtors.



#### Prices of Existing Homes



Note. The Case-Shiller price index is the 10-city index and is seasonally adjusted by FRB staff. Source. For repeat transactions, OFHEO; for Case-Shiller, Chicago Mercantile Exchange.

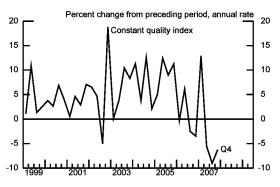


#### Mortgage Rates



Note. The Mar. readings are for data through Mar. 12, 2008. Source. Conforming rates are from Freddie Mac. The jumbo rate is the sum of the 30-year conforming FRM rate and the jumbo conforming spread from bankrate.com.

#### Price of New Homes



Source. Census Bureau.

January, the months' supply of unsold new homes remained more than twice as high as the upper end of the fairly tight range that it had occupied between 1997 and the summer of 2005.

On balance, financing conditions have remained hostile to housing demand. The supply of credit for nonprime and nonconforming loans continues to be extremely tight. Issuance of securities backed by nonprime mortgages (which include the subprime and alt-A categories) suggests that originations of these types of loans were quite rare in January and February. Meanwhile, data from the Federal Housing Finance Board's Monthly Interest Rate Survey suggest that the share of jumbo loans in prime mortgage originations was about 4 percent in January, roughly half of its average share since early 2006. Moreover, spreads between rates for jumbo and conforming thirty-year fixed-rate mortgages increased to around 100 basis points at the beginning of the year—about 75 basis points wider than the average spread between 2001 and mid-2007.<sup>5</sup> Interest rates on prime conforming loans have also moved up recently, although they remain well below levels seen in the middle of last year.

Price declines for existing homes steepened in the fourth quarter of last year. The purchase-only version of the repeat-sales price index calculated by the Office of Federal Housing Enterprise Oversight (OFHEO) decreased at an annual rate of 5 percent in the fourth quarter after slipping at a 1½ percent pace in the third quarter. The ten-city version of the Case-Shiller repeat-sales price index—which includes houses financed by nonconforming loans and is more heavily concentrated in urban areas that had seen greater appreciation in earlier years—plunged at an annual rate of more than 20 percent in December after declining at a 15 percent pace over the preceding three months. In the market for new homes, the constant-quality price index fell at an annual rate of 6½ percent in the fourth quarter. This decline in new home prices is consistent with

<sup>&</sup>lt;sup>5</sup> The stimulus bill signed into law on February 13, 2008, contained provisions allowing a temporary increase in the conforming loan limit to 125 percent of the median house price in a city (not to exceed \$729,750). This development has not directly affected rates paid by conforming borrowers, although rates quoted by lenders offering jumbo mortgages have reportedly been quite volatile as jumbo loan programs are being restructured to accommodate the new regulations. The stimulus bill also raised the limit on Federal Housing Administration (FHA) loans. However, FHA's relatively strict underwriting standards will likely limit the number of households that will benefit from this change.

<sup>&</sup>lt;sup>6</sup> In contrast, the OFHEO's all transactions price index (seasonally adjusted by Board staff) decreased at an annual rate of only ½ percent in the fourth quarter. This index includes home values based on appraisals for refinancings in addition to purchases. Appraised values are likely to be less accurate because they are not arms' length transactions but rather reflect lagged information on house prices.

anecdotal evidence that many large homebuilders are resorting to price reductions, in addition to nonprice incentives, to bolster sales and unload inventory.

#### **Equipment and Software**

Real spending on equipment and software has decelerated in recent months as business conditions have deteriorated and financial markets have tightened. We estimate that, in the fourth quarter, real equipment and software expenditures rose at a sluggish annual rate of 2 percent. In January, orders and shipments of nondefense capital goods excluding aircraft stood above their fourth-quarter averages, but more-timely surveys of business sentiment have a darker cast.

The subpar rise in spending on equipment and software last quarter is broadly in line with that quarter's sharp deceleration in business output and the effect of higher interest rates on the user cost of capital. Since then, business financing conditions have continued to worsen. In particular, corporate bond yields have increased, and spreads over Treasury yields have widened. Furthermore, recent surveys have shown a sharp deterioration in businesses' assessments of economic conditions. After plunging in January, the Philadelphia Fed's index of business activity in the manufacturing sector edged down further in February, while a similar index from the Empire State manufacturing survey slumped last month. In addition, the ISM manufacturing diffusion index, which had ticked up in January, fell back in February to about its low December value.

Real business outlays on transportation equipment fell in the fourth quarter; more recently, the data have been mixed. A January increase in aircraft shipments and a step-down in exports suggest that domestic spending on aircraft will increase this quarter. Meanwhile, sales of medium and heavy trucks (classes 4 through 8) have been flat for several months after reaching a four-year low last year; the recent strength in truck orders suggests that truck sales will firm over the next few months. On the other side of the ledger, fleet sales of light motor vehicles declined, on balance, in January and February, with much of the weakness due to lower sales to daily rental firms; our contact at Chrysler reported that his firm plans to cut back noticeably on these types of sales in 2008.

Real spending on high-tech equipment and software rose at a solid annual rate of 13½ percent in the fourth quarter. However, this vigor does not appear to have been maintained past year-end: Weak shipments, a steep decline in orders, and higher net exports in January point to only modest gains in domestic spending this quarter. Also, as noted earlier, anecdotes from large PC producers indicate that some deceleration in the

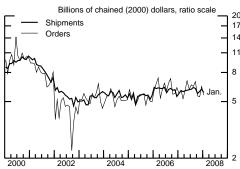
#### **Orders and Shipments of Nondefense Capital Goods**

(Percent change; seasonally adjusted current dollars)

		20	007		2008
Category	Q3	Q4	Nov.	Dec.	Jan.
	Annı	ıal rate		te	
Shipments Excluding aircraft Computers and peripherals Communications equipment All other categories	9.4 6.1 -15.2 13.1 8.0	2.8 4.9 36.6 -16.9 4.4	5 .1 9 3.4 1	1.4 1.6 3.6 4.0 1.2	1.9 .0 1 -4.5 .5
Orders Excluding aircraft Computers and peripherals Communications equipment All other categories	-1.5 3.4 .7 17.3 2.4	6.6 -1.7 8.2 -42.1 2.5	5.4 1 11.6 -1.0 -1.2	5.4 5.2 5.1 18.5 4.0	-8.2 -1.5 -11.8 -12.6 .7
Memo: Shipments of complete aircraft <sup>1</sup>	44.9	46.7	47.4	43.6	53.1

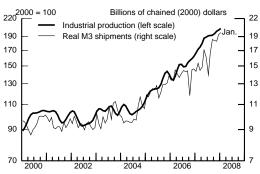
<sup>1.</sup> From Census Bureau, Current Industrial Reports; billions of dollars, annual rate.

#### **Communications Equipment**



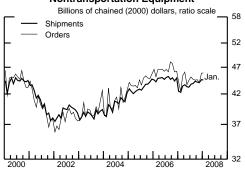
Note. Shipments and orders are deflated by a price index that is derived from the BEA's quality-adjusted price indexes and uses the PPI for communications equipment for monthly interpolation.

#### **Computers and Peripherals**



Note. Ratio scales. Shipments are deflated by the staff price index for computers and peripheral equipment, which is derived from the BEA's quality-adjusted price indexes.

#### Non-High-Tech, Nontransportation Equipment



Note. Shipments and orders are deflated by the staff price indexes for the individual equipment types included in this category. Indexes are derived from the BEA's quality-adjusted price indexes.

#### **Medium and Heavy Trucks**

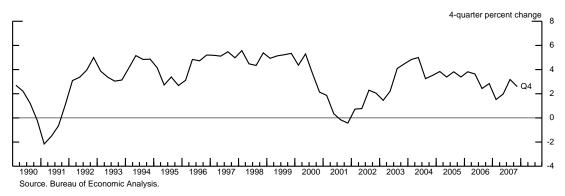


Note. Annual rate, FRB seasonals.

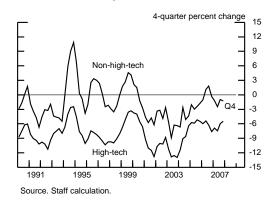
Source. For sales, Ward's Communications; for orders, ACT Research.

#### **Fundamentals of Equipment and Software Investment**

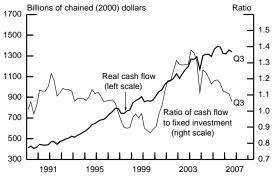
#### Real Business Output



#### **User Cost of Capital**

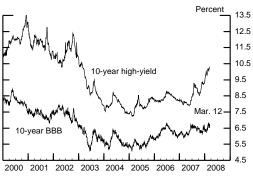


#### Corporate Cash Flow



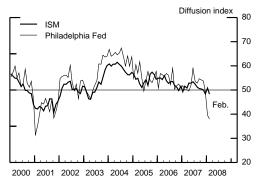
Note. Cash flow and fixed investment for the corporate business sector. Source. Bureau of Economic Analysis; FRB flow of funds accounts.

#### Corporate Bond Yields



Note. Daily averages based on Merrill Lynch bond data.

#### Surveys of Business Conditions



Source. Manufacturing ISM Report on Business; Philadelphia Fed Business Outlook Survey.

pace of domestic demand for computers and peripherals is under way. Moreover, Cisco is now reporting weaker demand for communications equipment, particularly in the retail and transportation sectors.

After having contracted at an annual rate of 2½ percent in the fourth quarter, real business investment in equipment other than high-tech and transportation appears likely to step down again in the current quarter. While orders and shipments rose briskly in December and moved up further in January, most of the January increase in shipments was exported. Imports of this broad category of equipment fell in both December and January, a sign that domestic demand remains subdued.

#### **Nonresidential Construction**

On the heels of robust gains during most of last year, nominal spending on nonresidential structures decelerated in December and posted an outright decline in January. Although spending in this sector is quite volatile, the recent deceleration is consistent with mounting indications of slowing demand for nonresidential buildings and tightening credit conditions. Vacancy rates in the retail sector continued to trend up in the fourth quarter, while increases in commercial property values have been slowing, even posting outright declines in some markets. In addition, the three-month average of the architectural billings diffusion index—which is reasonably well correlated with construction spending six months hence—moved down, on net, in the second half of 2007.

This sector is likely also feeling the effects of financial turmoil. The sharp contraction in issuance of commercial mortgage-backed securities in the fourth quarter of last year may signal a more general deterioration in financing conditions. Indeed, nonresidential construction contractors have indicated that funding has become more difficult to obtain in recent months, especially for more speculative projects. These responses are consistent with results from the January Senior Loan Officer Survey, in which about 80 percent of domestic banks reported tightening lending standards on commercial real estate loans over the preceding three months. Moreover, a marked increase in delinquency rates on nonresidential construction loans held by banks in the fourth quarter suggests that a growing share of builders are under financial strain.

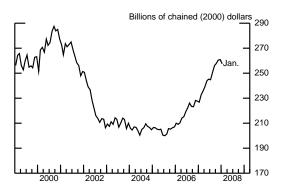
The BEA reported that real expenditures on drilling and mining structures rose at an annual rate of 7 percent in the fourth quarter after unusually large increases in the second

<sup>&</sup>lt;sup>7</sup> These responses were reported in a survey conducted by Associated General Contractors of America.

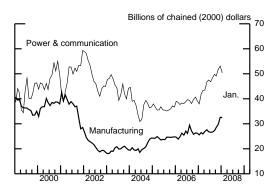
#### **Nonresidential Construction and Indicators**

(All spending series are seasonally adjusted at an annual rate; nominal CPIP deflated by BEA prices through Q3 and by staff projection thereafter)

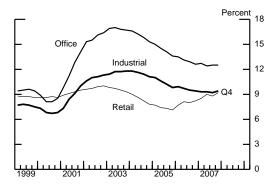
#### **Total Structures**



### Manufacturing and Power & Communication

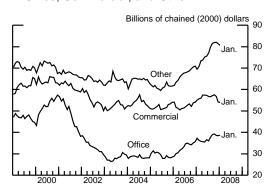


#### Vacancy Rates



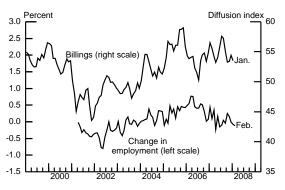
Note. Industrial space includes both manufacturing structures and warehouses.
Source. Torto Wheaton Research.

#### Office, Commercial, and Other



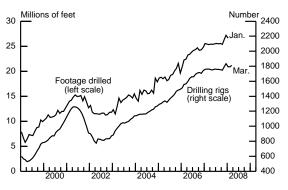
Note. Other consists of structures for religious organizations, education, lodging, amusement and recreation, transportation, and health care.

#### Architectural Billings and Nonresidential Construction Employment



Note. Both series are 3-month moving averages. Employment consists of industrial, commercial, and specialty trade construction. Source. For billings, American Institute of Architects; for employment, Bureau of Labor Statistics.

#### **Drilling and Mining Indicators**



Note. The March readings for drilling rigs are based on data through March 7, 2008. Both series are seasonally adjusted by FRB staff.
Source. DOE/Baker Hughes.

and third quarters.<sup>8</sup> Data on drilling rigs in operation and on footage of new wells drilled suggest that investment in the current quarter will rise at a pace close to that of the fourth-quarter.

#### **Business Inventories**

Real nonfarm inventories excluding motor vehicles increased at an annual rate of \$12 billion in the fourth quarter, a rate of accumulation similar to that registered in the first three quarters of last year. The pace of stockbuilding was modest enough to keep the inventory-sales ratio flat last quarter. In the latest book-value data, the ratio of manufacturing and trade inventories to sales remained at a relatively low level in January.

Data from the staff's flow-of-goods system indicate that the months' supply of inventories for the major industry and market groups excluding motor vehicles ticked up in January, but few indications of serious inventory imbalances are evident. The months' supply for construction supplies and materials dipped in January but remains moderately above its trend. Meanwhile, the ISM customers' inventories index stood at 49 in February, an indication that, on net, purchasing managers do not think their customers' stocks of inventories are elevated.

#### **Federal Government Sector**

Federal spending has stepped up in recent months. Outlays in January and February, adjusted for payment-timing shifts and financial transactions, were almost 7 percent above the level recorded a year earlier. Defense spending posted a 14 percent increase, and interest outlays rose about 10 percent, as high readings on inflation boosted interest accruals on Treasury inflation-protected securities (TIPS). The strength in defense spending in January and February suggests that real defense purchases, as measured in the NIPAs, will pick up this quarter after having been essentially flat in the fourth quarter.

Receipts in January and February were a bit lower than in the comparable period last year, as robust inflows of non-withheld income and social insurance taxes were offset by a pickup in individual and corporate income tax refunds. Our information on refunds paid to date suggests that the IRS is processing them at about the same pace as last year. Evidently, the IRS was able to respond quickly to the December enactment of alternative minimum tax (AMT) relief legislation and avoided refund delays.

<sup>&</sup>lt;sup>8</sup> The magnitude of second- and third-quarter increases was surprising given the indicators we track; the BEA's estimates reflect proprietary information not available to the staff. However, our indicators are consistent with the BEA's reported increase in investment in the fourth quarter.

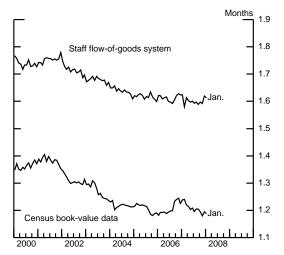
#### **Nonfarm Inventory Investment**

(Billions of dollars; seasonally adjusted annual rate)

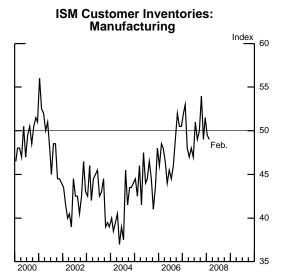
			2007			2008
Measure and sector	Q2	Q3	Q4	Nov.	Dec.	Jan.
Real inventory investment		•		•	•	•
(chained 2000 dollars)						
<b>Total nonfarm business</b>	1.3	26.0	<b>-13.4</b> e	n.a.	n.a.	n.a.
Motor vehicles	-9.6	13.3	-25.3	n.a.	n.a.	n.a.
Nonfarm ex. motor vehicles	10.9	12.7	11.9e	n.a.	n.a.	n.a.
Manufacturing and trade ex. wholesale						
and retail motor vehicles and parts	10.8	18.1	8.5	-23.1	45.8e	n.a.
Manufacturing	-4.2	3.1	9.9	14.2	21.0	n.a.
Wholesale trade ex. motor vehicles & parts	6.5	13.9	-7.7	-11.1	1.2e	n.a.
Retail trade ex. motor vehicles & parts	8.5	1.1	6.4	-26.2	23.7	n.a.
Book-value inventory investment						
(current dollars)						
Manufacturing and trade ex. wholesale						
and retail motor vehicles and parts	60.7	38.3	<b>74.3</b>	<b>54.0</b>	128.5	139.8
Manufacturing	21.6	12.6	36.3	43.8	54.9	80.1
Wholesale trade ex. motor vehicles & parts	20.6	21.4	23.6	26.1	39.8	43.4
Retail trade ex. motor vehicles & parts	18.4	4.3	14.5	-15.9	33.7	16.4

n.a. Not available.
e Staff estimate of real inventory investment based on revised book-value data.
Source. For real inventory investment, BEA; for book-value data, Census Bureau.

#### Inventory Ratios ex. Motor Vehicles

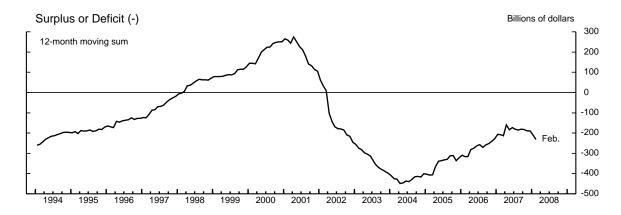


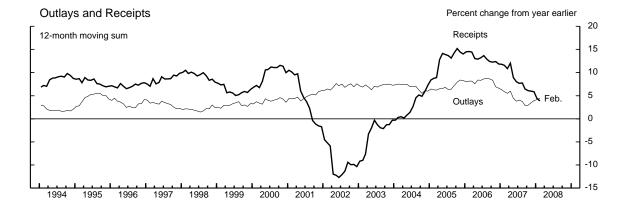
Note. Flow-of-goods system covers total industry ex. motor vehicles and parts, and inventories are relative to consumption. Census data cover manufacturing and trade ex. motor vehicles and parts, and inventories are relative to sales.



Note. A number above 50 indicates inventories are "too high."

Federal Government Budget (Unified basis; adjusted for payment-timing shifts and financial transactions; data from Monthly Treasury Statement)





#### **Recent Federal Outlays and Receipts**

(Billions of dollars except as noted)

	Ja	nuary-Februa	ıry	12 month	ns ending in I	February
Function or source	2007	2008	Percent change	2007	2008	Percent change
Outlays	472.6	504.6	6.8	2,701.6	2,821.7	4.4
Net interest	38.9	43.0	10.4	227.7	251.9	10.6
National defense	87.2	99.7	14.3	544.4	586.4	7.7
Major transfers <sup>1</sup>	276.8	287.7	3.9	1,472.1	1,547.2	5.1
Other	69.7	74.3	6.6	457.4	436.1	-4.7
Receipts	380.9	370.9	-2.6	2,494.1	2,590.4	3.9
Individual income and payroll taxes	335.5	331.9	-1.1	1,904.5	2,014.5	5.8
Corporate income taxes	15.0	4.4	-70.8	373.4	353.4	-5.4
Other	30.5	34.7	13.9	216.2	222.5	2.9
Surplus or deficit (-)  Memo:	-91.6	-133.7		-207.5	-231.3	
Unadjusted surplus or deficit (-)	-81.8	-157.7		-192.7	-263.9	

<sup>1.</sup> Includes Social Security, Medicare, Medicaid, and income security programs.

<sup>...</sup> Not applicable.

Given the recent strength in outlays and weakness in receipts, the budget outlook has deteriorated. The federal budget deficit, adjusted for payment-timing shifts and financial transactions, was \$134 billion in January and February, up considerably from the adjusted deficit of \$92 billion recorded during this same period last year.

In February, Congress passed a stimulus package totaling \$163 billion, which consisted of roughly \$113 billion in tax rebates to households and \$50 billion in bonus depreciation on business investment in 2008. Rebates will range from \$300 for low-income individuals to as much as \$1,200 for middle-income and upper-middle-income couples, plus an additional \$300 per child. According to the Treasury Department, rebate payments will begin on May 1 and will be almost complete by the end of July. The bonus depreciation provision allows firms to immediately depreciate an additional 50 percent of the cost of most new equipment placed in service during 2008. This provision lowers tax revenues from businesses in 2008 and 2009 but raises tax revenues in later years as depreciation allowances are reduced. Consequently, the total cost of the provision through 2018 is about \$7 billion.

The Administration released its proposed budget for fiscal 2009 on February 4. In that document, the Administration forecasted a budget deficit of around \$410 billion in both the current fiscal year, 2008, and in fiscal 2009; the forecast assumed the enactment of the President's proposals (which contained a somewhat smaller fiscal stimulus package than the one that was ultimately enacted). The key near-term policy proposals include increased defense spending—mostly for military operations in Iraq and Afghanistan—and a one-year extension of AMT relief.

#### **State and Local Government Sector**

The available data on the state and local sector suggest that real purchases will rise somewhat less in the first quarter than during the final quarter of 2007 because of weaker spending on construction. Nominal outlays for state and local construction in January were 1 percent (not at an annual rate) below their fourth-quarter level. In contrast, hiring appears to still be rising steadily: State and local employment increased an average of 25,000 per month in January and February, about the same pace as in the fourth quarter.

The NIPA data show a noticeable deterioration in the budget balances of state and local governments over the second half of 2007, a result of rapidly increasing nominal expenditures coupled with a slowing in receipts. Press reports suggest that state governments are responding to the weakening revenue environment through a variety of

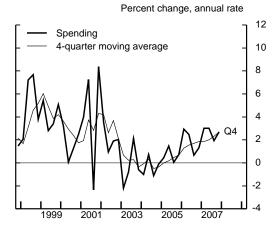
#### **Administration Budget Projections and Economic Assumptions**

Item	2008	2009	2010	2011	2012	2013		
Budget projections (fiscal years)	Billions of dollars							
Receipts	2521	2700	2931	3076	3270	3428		
Outlays	2931	3107	3091	3171	3222	3399		
Surplus	-410	-407	-160	-95	48	29		
	Percent of GDP							
Receipts	17.6	18.0	18.6	18.6	18.8	18.8		
Outlays	20.5	20.7	19.6	19.1	18.5	18.6		
Surplus	-2.9	-2.7	-1.0	-0.6	0.3	0.2		
Economic assumptions (calendar years)	Percent change, fourth quarter to fourth quarter							
Real GDP	2.7	3.0	3.0	2.9	2.8	2.8		
GDP price index	2.7	2.0	2.0	2.9	2.0	2.0		
CPI-U	2.1	2.2	2.3	2.3	2.3	2.3		
	Percent, annual average							
Unemployment rate Treasury yields	4.9	4.9	4.8	4.8	4.8	4.8		
3-month	3.7	3.8	4.0	4.1	4.1	4.1		
10-year	4.6	4.9	5.1	5.2	5.3	5.3		

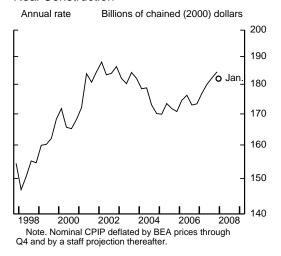
Source. Office of Management and Budget (2008), *Budget of the United States Government: Fiscal Year 2009* (February).

#### **State and Local Indicators**

#### Real Spending on Consumption & Investment

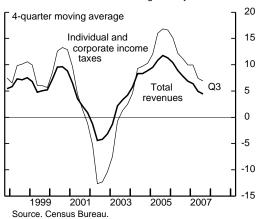


#### Real Construction

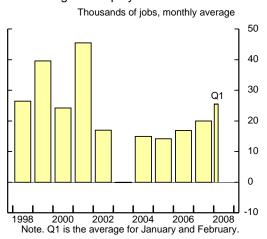


#### State Revenues

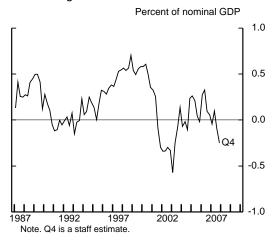
Percent change from year earlier



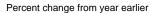
#### Net Change in Employment

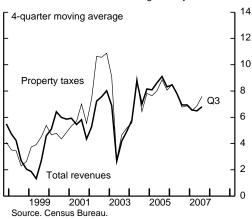


#### **Net Saving**



#### Local Revenues





measures aimed chiefly at fiscal 2009 budgets, including reducing the planned growth of expenditures, increasing taxes, and tapping into rainy-day funds.

#### **Prices**

Consumer prices have remained on a relatively steep upward trajectory in recent months. We estimate that total PCE prices rose 0.3 percent in January after a similar-sized increase in the previous month. The twelve-month change in PCE prices through January stood at 3¾ percent, boosted by surges in the prices of both food and energy. Excluding food and energy, the pace of PCE price increases has stepped up from the low rates posted last summer. Although long-term inflation expectations appear to have increased since the fall, they remain broadly in the range seen in recent years.

We estimate that core PCE prices rose 0.2 percent in January for the fourth consecutive month. The increase in core PCE prices of 2½ percent over the twelve months ending in January is slightly smaller than the increase over the previous twelve months, but this twelve-month change masks an acceleration in prices since mid-2007: Over the past six months, core PCE prices rose at an annual rate of 2¾ percent, significantly above the 1½ percent rate over the previous six months. Prices of core goods, which had fallen through 2006 and most of 2007, have since reversed course. The upturn has been led by prices for apparel and prescription drugs, which have risen sharply after large declines in early 2007. Price increases in other goods categories also have picked up since late summer, as have price increases for both market and non-market consumer services.

After jumping substantially in the fall, PCE energy prices continued their upward climb in December and January. Retail gasoline prices appear to have dropped back in February, as demand flattened and gasoline inventories surged. But by the end of the month, sharp increases in crude oil prices were again pushing up gasoline prices. Over the twelve months ending in January, consumer energy prices rose 23 percent—a striking turnaround from the decline registered over the previous twelve months.

After slowing late last year, PCE food and beverage inflation bounced back up to 0.6 percent in January; the gain left the twelve-month change in the PCE price index for food and beverages at 4¾ percent, considerably higher than the 2½ percent increase recorded in the previous twelve-month period. In large part, the acceleration in food

<sup>&</sup>lt;sup>9</sup> Our estimate for January is about one-tenth percentage point lower than the figure published by the BEA because we took account of data on medical prices from the January producer price index (PPI). The PPI was released too late for the BEA to incorporate this information, but will be folded into the revised estimates released at the end of March. The tables and charts in this section show the figures published by the BEA.

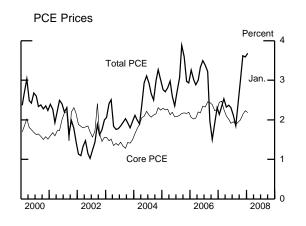
### **Price Measures**

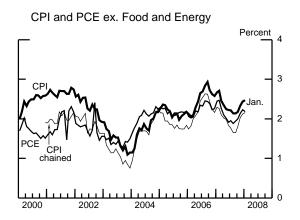
(Percent change)

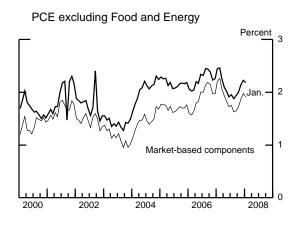
	12-month change 3-month change			1-month change		
			Annual rate		Monthly rate	
Measures	Jan. 2007	Jan. 2008	Oct. 2007	Jan. 2008	Dec. 2007	Jan. 2008
CPI						
Total	2.1	4.3	2.6	6.8	.4	.4
Food	2.4	4.9	4.6	4.7	.1	.7
Energy	-3.1	19.6	2.6	43.6	1.7	.7
Ex. food and energy	2.7	2.5	2.3	3.1	.2	.3
Core goods	2	.2	1	1.2	.0	.2
Core services Shelter	3.8 4.4	3.4 3.1	3.2 2.6	3.9 3.7	.3	.4 .4
Other services	3.1	3.1	2.6 3.8	3.7 4.3	.3 .3	.4 .4
			3.6	4.3	.5	.4
Chained CPI (n.s.a.) <sup>1</sup>	1.8	3.9	•••	•••		•••
Ex. food and energy <sup>1</sup>	2.3	2.2	•••	•••	•••	•••
PCE prices <sup>2</sup>						
Total	2.1	3.7	2.2	5.4	.3	.4
Food and beverages	2.4	4.7	4.2	4.3	.1	.6
Energy	-2.6	23.1	-7.2	45.4	1.8	.6
Ex. food and energy	2.4	2.2	2.6	3.0	.2	.3
Core goods	3	3	6	1.3	.0	.3
Core services	3.6	3.2	4.0	3.6	.3	.3
Shelter	4.4	3.1	2.9	3.6	.0 .3 .3	.3 .3 .3
Other services	3.3	3.2	4.3	3.6		
Core market-based	2.2	1.9	2.0	2.8	.2 .3	.3
Core non-market-based	3.5	3.4	5.3	3.7	.3	.4
PPI						
Total finished goods	.1	7.4	1.0	13.5	3	1.0
Food	2.5	8.3	9.7	12.0	1.4	1.7
Energy	-6.9	22.6	-6.3	44.7	-3.0	1.5
Ex. food and energy	1.7	2.3	1.0	3.7	.2	.4
Core consumer goods	1.5	2.7	1.4	3.8	.2	.4
Capital equipment	2.1	1.6	3	3.5	.1	.4
Intermediate materials	1.1	8.8	-1.6	18.4	2	1.4
Ex. food and energy	3.6	4.1	9	7.5	.0	.8
Crude materials	-9.5	31.3	1.3	63.9	1.1	2.5
Ex. food and energy	18.2	20.9	20.8	19.2	.2	4.0

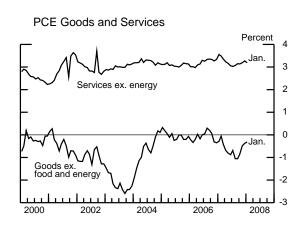
Higher-frequency figures are not applicable for data that are not seasonally adjusted.
 BEA's published PCE prices in January does not incorporate January PPI medical prices.
 Not applicable.

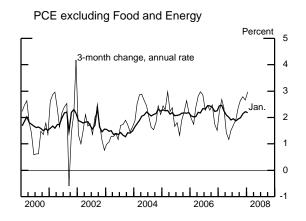
**Consumer Prices** (12-month change except as noted)

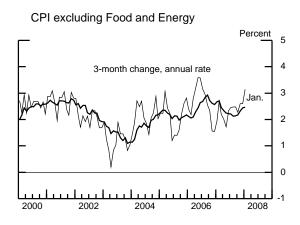






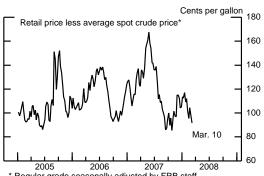






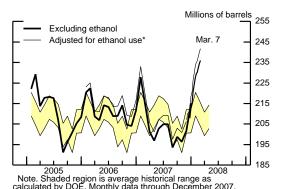
Energy and Food Price Indicators (Data from Energy Information Administration except as noted)

### **Total Gasoline Margin**



\* Regular grade seasonally adjusted by FRB staff, less average spot crude price: 60% WTI, 40% Maya heavy crude.

### Gasoline Inventories

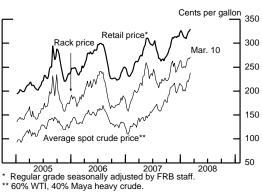


2005 2006 2007 2008

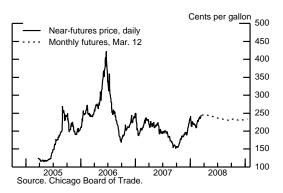
Note. Shaded region is average historical range as calculated by DOE. Monthly data through December 2007, weekly data thereafter, as indicated by line weights.

Adjustment for approximate amount of fuel ethanol to be blended with RBOB component of inventories; estimated by FRB staff.

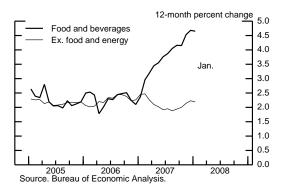
### Gasoline Price Decomposition



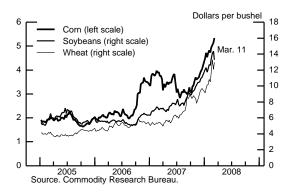
### **Ethanol Prices**



### PCE Food Prices



### Spot Agricultural Commodity Prices



prices reflects widespread increases in the prices of agricultural commodities. Spot prices for corn, wheat, and soybeans moved up substantially last year and have continued their run-up so far this year: Soybean prices have increased another 13 percent since the January Greenbook, corn prices are up 18 percent, and wheat prices have risen 28 percent. The recent increase in wheat prices was especially pronounced because stocks—particularly for the spring wheat varieties used in pasta and related products—are currently quite lean. More generally, the rise in grain prices over the past year likely reflects a combination of increased ethanol production, demand from emerging market countries, weather-related disruptions, and high input costs. In contrast, spot prices of animal products, especially beef, pork, and dairy products, have turned down of late, as supplies have been expanding gradually in response to earlier high prices.

The high readings on overall consumer price inflation in the past six months appear to have contributed to a pickup in near-term inflation expectations; as for longer-term expectations, the weight of the evidence suggests that these expectations have also drifted up a touch recently. As measured by the Reuters/University of Michigan Survey, median expectations for year-ahead inflation moved up from 3.1 percent in October to 3.6 percent in February, with half of this change coming since the January Greenbook. Regarding longer-term expectations, increases in the Reuters/Michigan measure of median inflation expectations over the next five to ten years have amounted to only twotenths since October, with no change since late January; the February reading of 3.0 percent was close to its average level over the past couple of years. According to the Survey of Professional Forecasters, expected inflation over the next ten years has edged up recently with both the CPI- and PCE-based expectations rising one-tenth, although this uptick just reversed the downtick a year earlier. Inflation compensation derived from TIPS has moved up more noticeably of late. Five-year inflation compensation has risen 0.3 percentage point since the January Greenbook after having declined from the fall until late January. The five-year, five-year-ahead measure has also moved up 0.3 percentage point since the January Greenbook and is 0.4 percentage point higher than it was in the fall.

Strong global demand and higher prices for energy and other commodities have contributed to continued price pressures at earlier stages of processing of late. The producer price index for core intermediate materials rose <sup>3</sup>/<sub>4</sub> percent in January after a cumulative increase of 1 percent over the previous two months. Prices for energy-intensive products, such as plastics and agricultural and industrial chemicals, have increased sharply over the past few months, but these gains have been offset, to some extent, by a downturn in prices for lumber, plywood, and gypsum. On balance, the index

### **Broad Measures of Inflation**

(Percent change, Q4 to Q4)

Measure	2004	2005	2006	2007
Product prices GDP price index Less food and energy	3.2	3.4	2.7	2.6
	3.2	3.3	2.9	2.2
Nonfarm business chain price index	3.2	3.5	2.2	1.9
Expenditure prices Gross domestic purchases price index Less food and energy	3.7	3.8	2.4	3.3
	3.1	3.1	2.8	2.2
PCE price index	3.1	3.2	1.9	3.4
Less food and energy	2.2	2.2	2.3	2.1
PCE price index, market-based components	2.8	3.0	1.6	3.4
Less food and energy	1.6	1.7	2.0	1.9
CPI	3.4	3.8	1.9	4.0
Less food and energy	2.1	2.1	2.7	2.3
Chained CPI	3.1	3.2	1.7	3.6
Less food and energy	2.1	1.8	2.3	2.0
Median CPI	2.3	2.7	3.1	3.1
Trimmed mean CPI	2.3	2.6	2.7	2.8
Trimmed mean PCE	2.4	2.5	2.7	2.4

### **Surveys of Inflation Expectations**

(Percent)

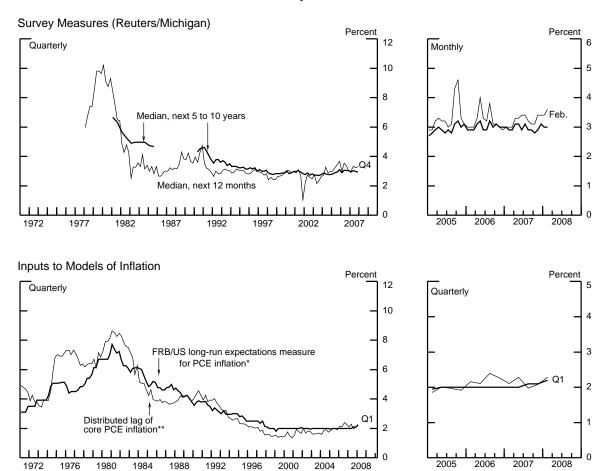
			Reuters/Mic	y	Professional			
	Actual	1 y	ear <sup>2</sup>	5 to 10	) years <sup>3</sup>	forecasters (10 years) <sup>4</sup>		
Period	CPI inflation <sup>1</sup>	Mean	Median	Mean	Median	CPI	PCE	
2006:Q2 Q3 Q4	4.0 3.3 1.9	4.5 4.0 3.5	3.5 3.4 3.0	3.6 3.3 3.5	3.1 3.0 3.0	2.5 2.5 2.5		
2007:Q1 Q2 Q3 Q4	2.4 2.7 2.4 4.0	3.6 4.2 4.1 4.1	3.0 3.3 3.2 3.3	3.4 3.5 3.5 3.3	2.9 3.0 3.0 2.9	2.4 2.4 2.4 2.4	2.0 2.0 2.1 2.1	
2008:Q1	n.a.	n.a.	n.a.	n.a.	n.a.	2.5	2.2	
2007:Oct. Nov. Dec. 2008:Jan.	3.5 4.3 4.1 4.3	3.7 4.3 4.4 4.0	3.1 3.4 3.4 3.4	3.1 3.4 3.5 3.4	2.8 2.9 3.1 3.0	2.4 	2.1 	
Feb.	n.a.	3.9	3.6	3.4	3.0	2.5	2.2	

<sup>1.</sup> Percent change from the same period in the preceding year.

Percent change from the same period in the preceding year.
 Responses to the question, By about what percent do you expect prices to go up, on average, during the next 12 months?
 Responses to the question, By about what percent per year do you expect prices to go up, on average, during the next 5 to 10 years?
 Median CPI and PCE price projections compiled by the Federal Reserve Bank of Philadelphia.

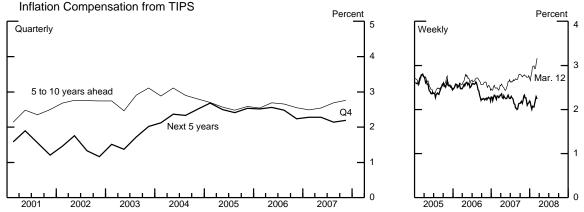
<sup>...</sup> Not applicable.

### **Measures of Expected Inflation**



\*For 2007 forward, the median projection for PCE inflation over the next 10 years from the Survey of Professional Forecasters (SPF); for 1991 to 2006, the equivalent SPF projection for the CPI; for 1981 to 1991, a related survey for the CPI conducted by Richard Hoey; and for the period preceding 1981, a model-based estimate constructed by Board staff. The survey data before 2007 are adjusted down 0.5 percentage point to put the CPI projections approximately on a PCE basis.

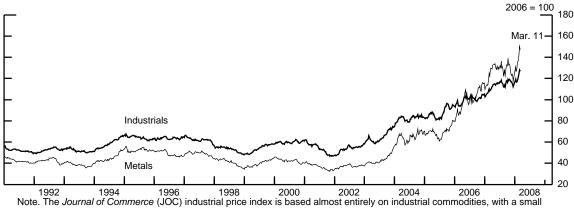
\*\*Derived from one of the reduced-form Phillips curves used by Board staff.



Note. Based on a comparison of an estimated TIPS yield curve with an estimated nominal off-the-run Treasury yield curve, with an adjustment for the indexation-lag effect.

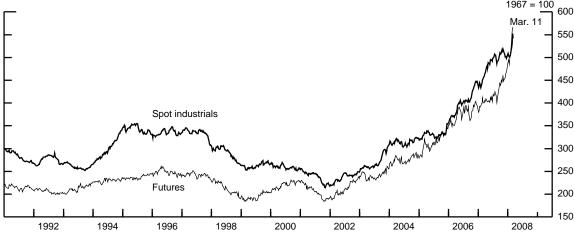
### **Commodity Price Indexes**

### Journal of Commerce



weight given to energy commodities. Copyright for Journal of Commerce data is held by CIBCR, 1994.

### Commodity Research Bureau



Note. The Commodity Research Bureau (CRB) spot industrials index consists entirely of industrial commodities, excluding energy. The CRB futures index gives about a 60 percent weight to food commodities and splits the remaining weight roughly equally among energy commodities, industrial commodities, and precious metals.

### **Selected Commodity Price Indexes**

(Percent change)

Index	2007 1	12/18/07 to 1/22/08 <sup>2</sup>	1/22/08 <sup>2</sup> to 3/11/08	52-week change to 3/11/08
JOC industrials	7.6	4.2	8.2	16.5
JOC metals	2.1	7.9	15.9	16.7
CRB spot industrials	11.0	.7	8.2	18.7
CRB spot foodstuffs	25.5	2.4	14.2	35.6
CRB futures	18.2	3.7	16.4	41.2

- 1. From the last week of the preceding year to the last week of the year indicated.
- 2. January 22, 2008, is the Tuesday preceding publication of the January Greenbook.

for core intermediate materials increased 4 percent over the twelve months ending in January, about ½ percentage point more than in the preceding year.

Commodity prices have risen significantly since the January Greenbook. The *Journal of Commerce* index of industrial materials and the Commodity Research Bureau spot index of industrial materials have both jumped 8½ percent since mid-January. Over the past year, these indexes increased at a slightly faster pace than the 15 percent average annual increase registered since the current surge in commodity prices began in mid-2002.

### **Labor Costs**

Labor costs have continued to increase at a moderate rate, with little sign, as yet, of higher price inflation passing through to higher compensation. The employment cost index for hourly compensation of private-industry workers rose at an annual rate of 3.1 percent over the three months ending in December. The twelve-month change was 3.0 percent, about equal to its average pace over the previous couple of years. Wages and salaries rose at a 3.1 percent rate for the third quarter in a row, while benefits costs accelerated slightly to a 3.5 percent rate in the fourth quarter. However, the twelve-month change in benefits costs remains below the change in the previous year because of a significant decline in retirement and savings costs in early 2007.

Compensation per hour in the nonfarm business sector is estimated to have risen at an annual rate of 4½ percent in the fourth quarter and was up 4 percent for 2007 as a whole. This four-quarter change is a step down from the 5 percent rate posted in 2006, which was boosted by the timing of large bonus payments. Bonus payments appear to have been smaller this bonus season—though recent reports suggest that these payments may not have been as small as early reports had indicated. After falling for the previous two quarters, unit labor costs are estimated to have risen at an annual rate of 2.8 percent in the fourth quarter. For 2007 as a whole, unit labor costs increased 1.0 percent, significantly below the substantial rise observed in 2006.

<sup>&</sup>lt;sup>10</sup> Compensation per hour is now reported to have increased at an annual rate of 3½ percent in the third quarter. This figure incorporates information on compensation from third-quarter state unemployment insurance tax records, as well as information on hours from the BLS's annual benchmark revision to the establishment survey.

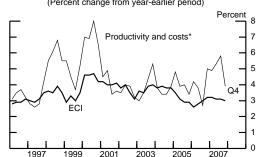
<sup>&</sup>lt;sup>11</sup> The BEA estimates that some of these bonus payments were made—and will show up as wage and salary *disbursements*—in early 2008, though they represent remuneration *accrued* for productive activity in the fourth quarter of 2007. The BLS measures compensation per hour on an *accrual* basis.

Hourly Compensation and Unit Labor Costs (Percent change from preceding period at compound annual rate; based on seasonally adjusted data)

	2005:Q4 to	2006:Q4 to	2007				
Category	2006:Q4	2007:Q4°	Q1	Q2	Q3	Q4 e	
Compensation per hour Nonfarm business	5.0	3.9	6.4	1.3	3.4	4.6	
Unit labor costs Nonfarm business	4.1	1.0	5.4	-1.3	-2.7	2.8	

e Staff estimate.

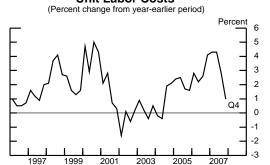
# Compensation per Hour (Percent change from year-earlier period)



\* Value for 2007:Q4 is a staff estimate.

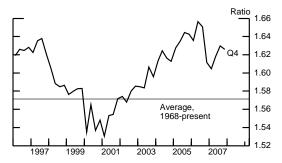


### **Unit Labor Costs**



Note. Value for 2007:Q4 is a staff estimate.

### Markup, Nonfarm Business



Note. The markup is the ratio of output price to unit labor costs. Value for 2007:Q4 is a staff estimate.

Average hourly earnings for production or nonsupervisory workers increased 0.3 percent in January and February. Over the past year, they have risen 3¾ percent, somewhat less than in the previous twelve months.

# Domestic Financial Developments

III-T-1 **Selected Financial Market Quotations** 

(One-day quotes in percent except as noted)

		2006	2007	200	8		ge to Mar. 12 fattes (percentage	
Instrument		June 29	Sept. 17	Jan. 29	Mar. 12	2006 June 29	2007 Sept. 17	2008 Jan. 29
Short-term FOMC intended federal funds ra	ate	5.25	5.25	3.50	3.00	-2.25	-2.25	50
Treasury bills <sup>1</sup> 3-month 6-month		4.88 5.06	4.05 4.15	2.23 2.29	1.45 1.53	-3.43 -3.53	-2.60 -2.62	78 76
Commercial paper (A1/P1 rates 1-month 3-month	)2	5.27 5.37	5.23 5.25	3.08 3.02	2.69 2.97	-2.58 -2.40	-2.54 -2.28	39 05
Large negotiable CDs <sup>1</sup> 3-month 6-month		5.47 5.59	5.52 5.36	3.22 3.17	2.84 2.77	-2.63 -2.82	-2.68 -2.59	38 40
Eurodollar deposits <sup>3</sup> 1-month 3-month		5.33 5.49	5.55 5.60	3.30 3.30	2.90 2.90	-2.43 -2.59	-2.65 -2.70	40 40
Bank prime rate		8.25	8.25	6.50	6.00	-2.25	-2.25	50
Intermediate- and long-term U.S. Treasury <sup>4</sup> 2-year 5-year 10-year		5.26 5.15 5.28	4.12 4.18 4.58	2.25 2.89 3.88	1.64 2.48 3.72	-3.62 -2.67 -1.56	-2.48 -1.70 86	61 41 16
U.S. Treasury indexed notes <sup>5</sup> 5-year 10-year		2.51 2.61	2.04 2.15	.78 1.39	.27 1.11	-2.24 -1.50	-1.77 -1.04	51 28
Municipal general obligations (I	Bond Buyer)6	4.71	4.46	4.29	4.92	.21	.46	.63
Private instruments 10-year swap 10-year FNMA <sup>7</sup> 10-year AA <sup>8</sup> 10-year BBB <sup>8</sup> 10-year high yield <sup>8</sup>	•	5.81 5.59 6.20 6.74 8.74	5.17 5.01 6.05 6.46 8.95	4.26 4.26 5.66 6.39 9.85	4.29 4.49 6.06 6.67 10.32	-1.52 -1.10 14 07 1.58	88 52 .01 .21 1.37	.03 .23 .40 .28
Home mortgages (FHLMC surv 30-year fixed 1-year adjustable	rey rate)	6.78 5.82	6.34 5.65	5.68 5.05	6.13 5.14	65 68	21 51	.45 .09
	Record	high	2007	200	8		ange to Mar. 12 ected dates (pe	
Stock exchange index	Level	Date	Sept. 17	Jan. 29	Mar. 12	Record high	2007 Sept. 17	2008 Jan. 29
Dow Jones Industrial S&P 500 Composite Nasdaq Russell 2000	14,165 1,565 5,049 856	10-9-07 10-9-07 3-10-00 7-13-07	13,403 1,477 2,582 776	12,480 1,362 2,358 705	12,110 1,309 2,244 667	-14.50 -16.38 -55.55 -22.02	-9.65 -11.37 -13.08 -13.99	-2.97 -3.93 -4.84 -5.37
Wilshire 5000	15,807	10-9-07	14,839	13,740	13,179	-16.62	-11.19	-4.08

- 1. Secondary market.

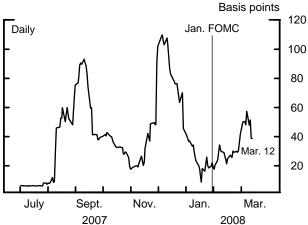
- Secondary market.
   Financial commercial paper.
   Bid rates for Eurodollar deposits collected around 9:30 a.m. eastern time.
   Derived from a smoothed Treasury yield curve estimated using off-the-run securities.
- 5. Derived from a smoothed Treasury yield curve estimated using all outstanding securities and adjusted for the carry effect.6. Most recent Thursday quote.
- 7. Constant-maturity yields estimated from Fannie Mae domestic noncallable coupon securities.
- 8. Derived from smoothed corporate yield curves estimated using Merrill Lynch bond data.

### NOTES:

June 29, 2006, is the day the most recent policy tightening ended. September 17, 2007, is the day before the most recent policy easing began. January 29, 2008, is the day before the most recent FOMC announcement.

# Short-Term Funding and Interbank Markets

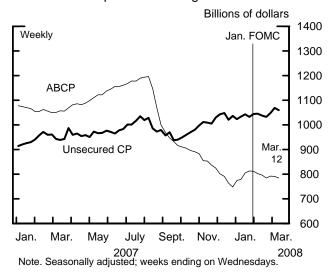
### Spreads between 30-Day Libor and OIS Rates



2007 2008

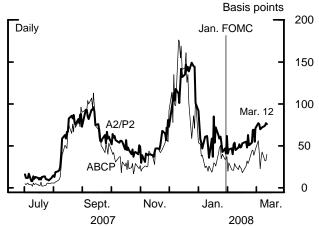
Note. LIBOR quotes are taken at 6:00 am, and OIS quotes are observed at the close of business of the previous trading day.

### **Commercial Paper Outstandings**



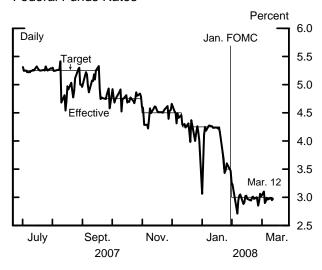
### 3-Month Treasury Bill Rate Percent 5.5 Daily Jan. FOMC 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 Mar. 12 1.0 0.5 July Nov. Jan. Mar. Sept. 2007 2008

### Spreads on 30-Day Commercial Paper

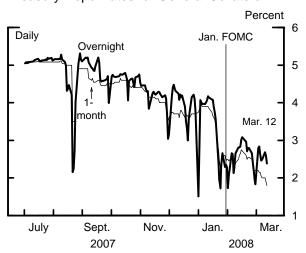


2007 2008 Note. The ABCP spread is the AA ABCP rate minus the AA financial rate. The A2/P2 spread is the A2/P2 nonfinancial rate minus the AA nonfinancial rate.

### Federal Funds Rates



### Treasury Repo Rates for General Collateral



### **Domestic Financial Developments**

### Overview

Concerns about the economic outlook and the exposure of financial institutions to further losses weighed on financial markets over the intermeeting period. Late in the period, significant strains resurfaced in short-term funding markets, prompting the Federal Reserve to take several steps to increase liquidity. On net, investors marked down the expected path for monetary policy substantially. Two-year nominal yields declined markedly, while ten-year nominal yields fell less, thereby leaving the yield curve noticeably steeper. Amid higher-than-expected inflation readings and notable increases in oil prices, TIPS-based inflation compensation rose across the term structure. Broad equity market indexes declined, and corporate bond spreads widened to multiyear highs. Indicators of household credit quality showed further deterioration, particularly for nonprime mortgages. According to Call Report data, commercial bank profits in the fourth quarter of 2007 were at their lowest level since the early 1990s, in part because of a sharp increase in loan-loss provisioning.

### **Money Market Functioning**

Conditions in some short-term funding markets deteriorated over the intermeeting period. Spreads of Libor and term federal funds rates over those on comparable-maturity overnight index swaps (OIS) jumped in late February amid renewed funding pressures. The spread on lower-rated nonfinancial unsecured commercial paper also widened, on net, and asset-backed commercial paper outstanding contracted a bit.<sup>1</sup> In addition, dealers reported that liquidity conditions in the commercial paper market deteriorated because of concerns about the health of some financial institutions that provide liquidity and credit support to the market. Starting in mid-February, repurchase agreements backed by agency and private-label mortgage-backed securities (MBS) also came under significant pressure, with reports of larger "haircuts" being applied by lenders and news of market participants missing margin calls on positions.

Consistent with a step-up in funding pressures, auctions through the Term Auction Facility (TAF) during the intermeeting period drew more demand than those immediately following the turn of the year. On March 7, the Federal Reserve announced that it would increase the size of TAF auctions in March from \$30 billion to \$50 billion, which will result in \$100 billion of TAF credit outstanding, and that it would begin a series of

<sup>&</sup>lt;sup>1</sup> The spread on asset-backed commercial paper edged up, on net, over the intermeeting period. However, the small increase understates to some extent the strains in that segment of the commercial paper market because the spread is measured relative to the AA financial rate, which became elevated over the intermeeting period.

### **Policy Expectations and Treasury Yields**

### Money Market Futures Rates Percent FOMC January ISM FOMC Chairman's February 4.4 statement employment nonmanufacturing testimony minutes employment 4.2 report report 4.0 3.8 3.6 December 2009 Eurodollar 3.4 3.2 3.0 2.8 April 2008 federal funds 2.6 24 2.2

Feb. 19

Feb. 22

Feb. 8 Note. 5-minute intervals. 8:00 a.m. to 4:00 p.m. No adjustments for term premiums.

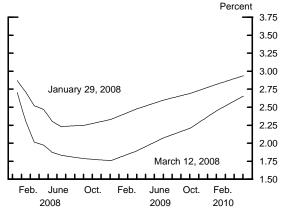
Feb. 13

Feb. 5

### **Expected Federal Funds Rates**

Jan. 31

Jan. 28

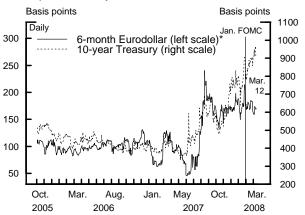


Note. Estimates from federal funds and Eurodollar futures.

### Implied Volatility of Interest Rates

Mar. 3

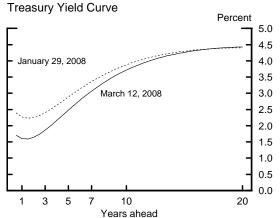
Feb. 27



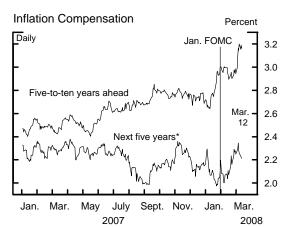
Mar. 6

Mar. 11

\*Width of a 90 percent confidence interval computed from the term structures for the expected federal funds rate and implied volatility.



Note. Smoothed yield curve estimated from off-the-run Treasury coupon securities. Yields shown are those on notional par Treasury securities with semiannual coupons.



Note. Estimates based on smoothed nominal and inflationindexed Treasury yields.

\*Adjusted for lagged indexation of TIPS.

twenty-eight-day, single-tranche, term repurchase agreements that are expected to cumulate to \$100 billion. The first larger TAF auction held on March 10 generated strong demand. On March 11, the Federal Reserve announced an increase in the sizes of its swap lines with the European Central Bank and the Swiss National Bank, and those central banks announced that they would draw on those lines to provide dollar funding as long as necessary. In addition, the Federal Reserve announced a new term securities lending facility that will allow primary dealers to borrow as much as \$200 billion of Treasury securities from the portfolio of the System Open Market Account (SOMA) for a term of twenty-eight days, collateralized by agency debt, agency-backed MBS, and AAA-rated private-label MBS. Following these announcements, Libor-OIS spreads and spreads in markets for agency-guaranteed MBS over comparable maturity Treasury securities narrowed somewhat.

Yields on three-month Treasury bills dropped over the intermeeting period, mostly because of downward revisions to policy expectations, but some safe-haven demands may have also pressured yields lower, as the spread below comparable-maturity OIS widened somewhat in recent weeks, albeit to not to the levels observed last August. Liquidity in the bill market was strained at some points during the intermeeting period, but has reportedly improved amid increased issuance, particularly at the shortest maturities. The heightened demand for Treasury debt continued to be reflected in periodic downward spikes in the overnight repurchase agreement rate for general Treasury collateral.

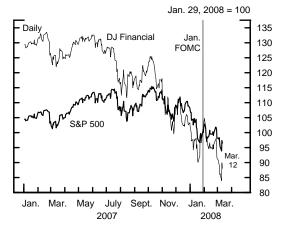
### **Policy Expectations and Treasury Yields**

The Committee's decision to lower the target federal funds rate 50 basis points at the January meeting elicited a modest general reaction in financial markets, but near-term futures rates declined a few basis points, as investors had apparently placed some odds on a smaller easing. The expected path of monetary policy over the next two years subsequently shifted down substantially, on net, as market perceptions of deterioration in the economic outlook and increasing concerns about the financial sector apparently outweighed higher-than-expected incoming readings on inflation and soaring energy prices. The release of the January FOMC meeting minutes produced little market reaction.

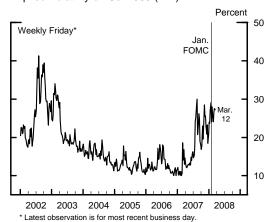
Federal funds futures and options indicate that investors are now virtually certain of at least 50 basis points of easing at the March FOMC meeting. Further ahead, Eurodollar futures quotes suggest that investors expect the federal funds rate to fall to around 1.75

### Corporate Yields, Risk Spreads, and Stock Prices

### Selected Stock Price Indexes



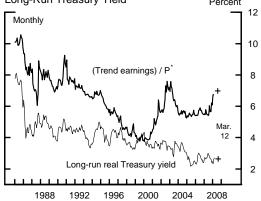
### Implied Volatility on S&P 500 (VIX)



### Corporate Bond Spreads Basis points Basis points 375 800 Jan. FOMC 10-year high-yield 300 600 (left scale) 225 400 150 200 10-year BBB (right scale) 75 2002 2003 2004 2005 2006 2007

Note. Measured relative to comparable-maturity Treasuries.

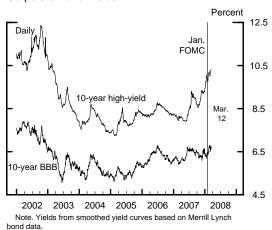
### Ratio of Trend Earnings to Price for S&P 500 and Long-Run Treasury Yield Percent



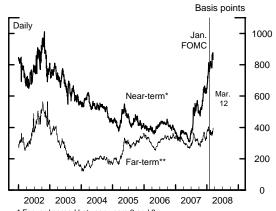
- \* Trend earnings are estimated using analysts' forecasts of year-ahead earnings from I/B/E/S.

  + Denotes the latest observation using daily interest rates and stock prices and latest earnings data from I/B/E/S.

### Corporate Bond Yields



### High-Yield Forward Credit Spreads



- \* Forward spread between years 2 and 3.
  \*\* Forward spread between years 9 and 10.
  Source. Staff estimates.

percent over the next half-year, and to remain at that level until early 2009. Implied uncertainty around the near-term policy path has fallen a touch since the January FOMC meeting and remains higher than before the onset of the financial market turmoil.

Consistent with the downward revision to policy expectations, two-year nominal Treasury yields fell markedly; ten-year yields declined less, leaving the yield curve noticeably steeper. Judging from TIPS yields, the change in the slope of the nominal yield curve largely reflected a steepening in the term structure of real yields. Inflation compensation rose across the term structure, likely prompted by higher-than-expected inflation data, climbing oil prices, dollar depreciation, and, perhaps, perceptions that the FOMC is especially focused on downside risks to growth. Survey measures of inflation expectations also suggest higher expected inflation as well as greater inflation uncertainty.

### **Stock Prices and Corporate Interest Rates**

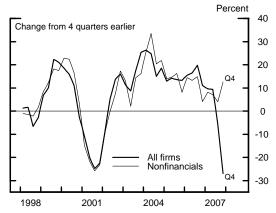
Broad stock price indexes decreased about 4 percent, on net, over the intermeeting period.<sup>2</sup> Stocks tumbled on negative economic news as well as concerns about the financial guarantors and the portfolios of financial intermediaries, but recovered some of their losses on the day that the Federal Reserve announced the new term securities lending program. The Dow Jones index of financial sector stocks was especially volatile and substantially underperformed the broader market, but the indexes for the energy and basic materials sectors rose somewhat on the surge in oil and other commodity prices. The spread between the twelve-month-forward trend earnings-to-price ratio for S&P 500 firms and a real long-run Treasury yield—a rough gauge of the equity risk premium—was little changed at the upper end of its range over the past two decades. Option-implied volatility on the S&P 500 index remained on the high side of the average for the past several months.

Yields on BBB-rated and high-yield corporate bonds increased over the intermeeting period, despite the decline in Treasury yields, pushing their spreads to the highest levels since 2002. Near-term forward spreads are particularly wide, suggesting greater concern among investors about the outlook for corporate credit quality over the next few years. Spreads on corporate bonds rated A and AA increased to their highest levels in over a decade, likely a reflection of the high proportion of financial firms with these ratings.

<sup>&</sup>lt;sup>2</sup> Figure based on index levels as of market close on March 12. Relative to the January Greenbook, stock prices are about unchanged.

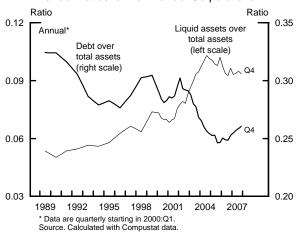
### **Corporate Earnings and Credit Quality**

### S&P 500 Earnings Per Share

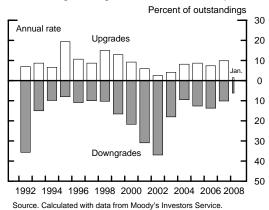


Source. I/B/E/S for S&P 500 earnings per share.

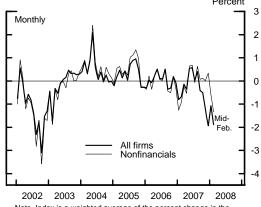
### Financial Ratios for Nonfinancial Corporations



### Bond Ratings Changes of Nonfinancial Companies

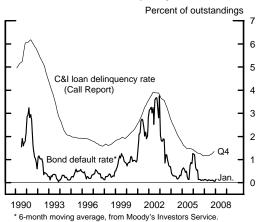


Revisions to Expected S&P 500 Earnings Percent

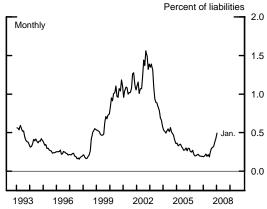


Note. Index is a weighted average of the percent change in the consensus forecasts of current-year and following-year EPS for a fixed sample.

### Selected Default and Delinquency Rates



### **Expected Year-Ahead Defaults**



Note. Firm-level estimates of default weighted by firm liabilities as a percent of total liabilities, excluding defaulted firms. Source. Moody's KMV.

### **Corporate Earnings and Credit Quality**

With fourth-quarter earnings reports nearly complete, operating earnings per share for S&P 500 firms are estimated to have plunged more than 25 percent from year-earlier levels; huge write-downs by financial firms led to a large decline in that sector's earnings. In contrast, earnings per share for nonfinancial firms increased 13 percent on a year-over-year basis, and reports from most nonfinancial S&P 500 firms met or exceeded forecasts. Looking forward, year-ahead earnings for both financial and nonfinancial S&P 500 firms were marked down significantly in January and February.

Data on nonfinancial corporate balance sheets for the fourth quarter of 2007 suggest that corporate credit quality is holding up. The aggregate ratio of liquid assets to total assets remained high by historical standards, and the aggregate leverage ratio stayed low. The delinquency rate on C&I loans ticked up again in the fourth quarter but remained low. In January, ratings changes for corporate bonds were sparse, and the realized six-month trailing default rate on corporate bonds continued to hover near zero. However, a forward-looking measure of credit quality, the KMV forecast of the aggregate year-ahead default rate, jumped in January.

### **Business Finance**

Gross bond issuance by nonfinancial firms was solid in January and February, but nearly all the issues were rated investment grade. Outstanding nonfinancial commercial paper also expanded at a moderate pace, while growth in C&I loans stalled in February after a gain in January. Aggregating across bonds, commercial paper, and C&I loans, net debt financing expanded at a modest pace over the past two months.

Net equity issuance was deeply negative in the fourth quarter (the most recently available data), as public and private equity issuance was dwarfed by equity retirements. Retirements from cash-financed mergers and acquisitions set a new record, largely because of the completion of a number of blockbuster leveraged buyouts. In 2008, the pace of merger completions has slowed, and very few large deals have been announced. Repurchases remained strong in the fourth quarter, but the pace at which new programs (from nonfinancial firms) have been announced has moderated a bit this year.

In January and February, gross public equity issuance by nonfinancial firms was sluggish, with IPO activity particularly sparse in the face of lower and more volatile equity prices. Financial issuance was sizable, reflecting several large offerings of preferred shares from major financial institutions.

### **Business Finance**

### Gross Issuance of Securities by U.S. Corporations

(Billions of dollars; monthly rates, not seasonally adjusted)

					2007	20	08
Type of security	2004	2005	2006	2007	Q4	Jan.	Feb.
Nonfinancial corporations							
Stocks <sup>1</sup>	5.4	4.6	4.7	5.5	6.5	1.9	3.1
Initial public offerings	1.6	1.7	1.8	1.6	2.0	.6	.1
Seasoned offerings	3.8	2.8	2.9	3.8	4.5	1.3	3.0
Bonds <sup>2</sup>	22.7	19.1	29.8	35.6	38.7	27.2	22.6
Investment grade	8.2	8.4	13.0	17.2	20.3	24.8	19.0
Speculative grade	9.7	6.4	8.0	10.3	6.8	1.0	.8
Other (sold abroad/unrated)	4.9	4.3	8.8	8.2	11.6	1.4	2.7
Мето							
Net issuance of commercial paper <sup>3</sup> Change in C&I loans at	1.5	4	3.9	4	2	9.9	6.6
commercial banks <sup>3,4</sup>	3.1	9.9	12.9	20.9	23.1	7.3	4.5
Financial corporations							
Stocks <sup>1</sup>	6.9	5.0	5.3	8.6	12.3	25.1	9.1
Bonds <sup>2</sup>	139.3	176.3	187.7	156.0	82.3	93.0	44.3

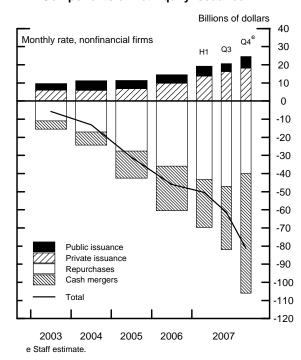
- Note. Components may not sum to totals because of rounding.

  1. Excludes private placements and equity-for-equity swaps that occur in restructurings.
- 2. Data include regular and 144a private placements. Bond totals reflect gross proceeds rather than par value of original discount bonds. Bonds are categorized according to Moody's bond ratings or to Standard & Poor's if unrated by Moody's.
- 3. End-of-period basis, seasonally adjusted.
- 4. Adjusted commercial bank credit data.

### **Selected Components of Net Debt Financing**

### Billions of dollars 70 Monthly rate, nonfinancial firms Commercial paper\* 60 C&I loans\* Bonds 50 Total 30 20 10 0 -10 -20 2003 2004 2005 2006 2007 2008 \* Seasonally adjusted, period-end basis.

### **Components of Net Equity Issuance**



### **Commercial Real Estate**

Conditions in commercial real estate credit markets have remained somewhat tight.

Commercial mortgage debt growth moderated a bit further in the fourth quarter. Sales of commercial real estate dropped back sharply in January and February after hovering in an extremely high range in 2007. Spreads of yields on AAA-rated and BBB-rated commercial mortgage-backed securities (CMBS) over those on comparable-maturity Treasury securities soared further over the intermeeting period amid continued concerns about high leverage on recently securitized mortgages and investor distrust of structured financial products in general. Issuance of CMBS has been scant thus far this quarter.

Fundamentals for existing commercial properties remained solid, on balance, in the fourth quarter, with little change in the vacancy rate and growth in commercial rents staying fairly high. Delinquency rates on CMBS and on commercial real estate loans held at life insurance companies were low in the fourth quarter. However, delinquencies on commercial real estate loans held by commercial banks rose further on continued deterioration in the performance of loans funding commercial and residential development projects.

### **Household Finance**

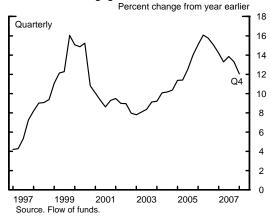
Residential mortgage debt decelerated further in the fourth quarter. Loan performance continued to deteriorate; delinquency rates on subprime mortgages climbed steeply further, and delinquency rates on prime mortgages reached multiyear highs.

Credit default swap (CDS) premiums for Fannie Mae and Freddie Mac increased to historical highs in the early months of 2008, likely reflecting continued concerns about mortgage credit quality and, relatedly, these firms' announcements of substantial fourth-quarter losses.<sup>3</sup> A heightened supply of agency-guaranteed MBS and higher required compensation for prepayment risk have pushed up spreads over Treasury yields in this market over the past several months. In addition, in early March, diminished liquidity in the agency MBS market boosted spreads even further. Spreads peaked on March 6 and have since fallen back a bit. The increase in secondary market spreads, along with increased guarantee fees charged by the government-sponsored enterprises (GSEs), pushed up interest rates in the primary market for conforming mortgages. Issuance of

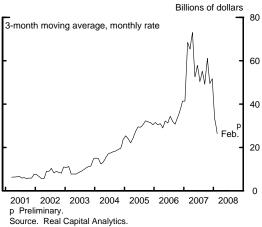
<sup>&</sup>lt;sup>3</sup> On February 27, the Office of Federal Housing Enterprise Oversight (OFHEO) lifted the portfolio caps on Fannie Mae and Freddie Mac and said it would consider gradually reducing the extra capital required because of the GSEs' operational and internal control problems during the past several years.

### **Commercial Real Estate**

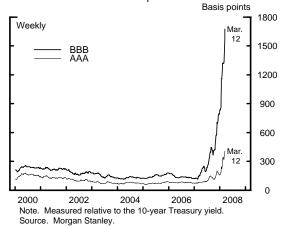
### Commercial Mortgage Debt



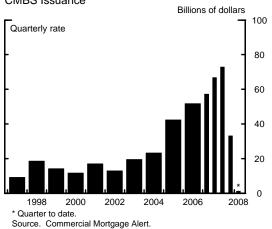
### Sales of Commercial Real Estate



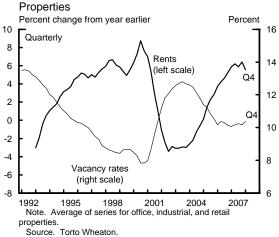
### Investment-Grade CMBS Spreads



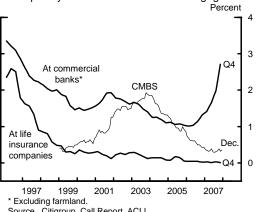
### CMBS Issuance



Rents and Vacancy Rates on Commercial

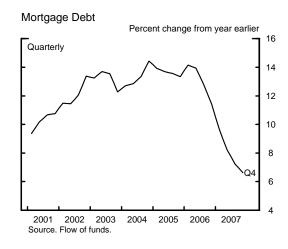


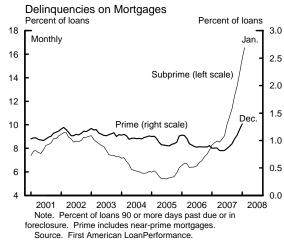
### Delinquency Rates on Commercial Mortgages



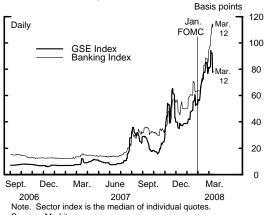
Source. Citigroup, Call Report, ACLI.

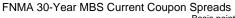
### **Residential Mortgages**

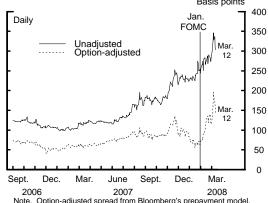


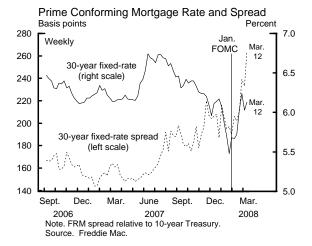


### Credit Default Swap Premiums

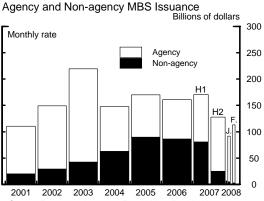








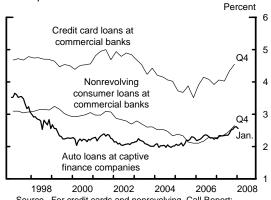
Note. Option-adjusted spread from Bloomberg's prepayment model. Unadjusted spread relative to duration-matched Treasury. Source. Bloomberg.



Source. For agency issuance, Fannie Mae, Freddie Mac, and Ginnie Mae. For non-agency issuance, Inside Mortgage Finance MBS database.

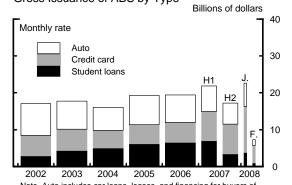
### **Consumer Credit and Household Wealth**

### **Delinquencies on Consumer Loans**



Source. For credit cards and nonrevolving, Call Report; for auto loans, Federal Reserve.

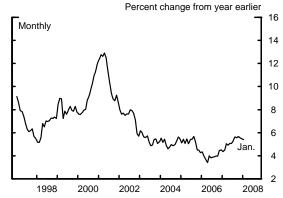
### Gross Issuance of ABS by Type



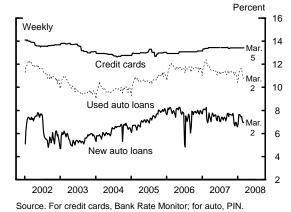
Note. Auto includes car loans, leases, and financing for buyers of of motorcycles, trucks, and other vehicles.

Source. Inside Mortgage Finance MBS database, Merrill Lynch.

### Consumer Credit



### Interest Rates on Consumer Loans



### **Net Flows into Mutual Funds**

(Billions of dollars, monthly rate)

Fund type	2006		2007		20	108	Assets
,		H1	Q3	Q4	Jan.	Feb.e	Jan.
Total long-term funds	18.9	31.9	4.6	7.0	-22.0	27.0	8,433
Equity funds	13.3	14.7	1.2	1.2	-44.8	10.2	6,023
Domestic	0.9	1.3	-8.3	-8.5	-35.7	3.9	4,511
International	12.4	13.4	9.5	9.7	-9.1	6.3	1,512
Hybrid funds	0.6	2.6	1.0	1.2	-1.5	3.5	690
Bond funds	5.0	14.6	2.5	4.6	24.3	13.3	1,720
High-yield	-0.2	0.2	-0.8	-0.6	-2.2	-0.5	152
Other taxable	4.0	11.9	3.1	6.5	24.0	12.1	1,189
Municipals	1.3	2.4	0.2	-1.3	2.5	1.7	380
Money market funds	27.8	26.3	110.9	87.2	178.8	112.3	3,325

Note. Excludes reinvested dividends.

e Staff estimate based on confidential weekly data.

Source. Investment Company Institute.

agency-guaranteed MBS, supported by an elevated pace of refinancing in late January and early February, was robust through mid-March.

Conditions in the nonprime and prime jumbo mortgage markets remain very tight, with issuance of private residential MBS scant in January and drying up in February. The Economic Stimulus Act of 2008, signed into law in mid-February, included a temporary increase in the size of mortgages in certain high-price areas that can be securitized by the GSEs. The GSEs announced that the newly conforming loans would be subject to an additional 25 basis point guarantee fee and more stringent underwriting guidelines than standard conforming loans, including lower maximum loan-to-value ratios and higher minimum credit scores. Rates quoted by lenders on jumbo mortgages have been quite volatile in recent weeks as originators have scrambled to redesign loan programs.

Most delinquency rates on consumer loans have continued to move up and now stand near or above their historical averages. Consumer credit expanded at a moderate pace in January, with issuance of consumer auto, credit card, and student loan asset-backed securities (ABS) remaining solid through that month. However, issuance in all three categories declined somewhat in February. In the secondary market for student loans, investors have considerably reduced their participation owing to concerns about complex securities and reduced federal government support of public and private entities providing government-guaranteed loans.<sup>4</sup> Spreads on consumer loan ABS have risen notably further in recent weeks, although the available data suggest that retail interest rates on credit card and auto loans have not changed much.

In the fourth quarter, OFHEO's purchase-only index of national home prices dropped at an annual rate of 5 percent, the largest decrease since the start of the series in 1991. Futures quotes indicate that over the intermeeting period market participants sharply marked down the expected path of house prices. Given declines in housing and stock prices, the ratio of household net worth to disposable personal income fell in the fourth quarter.

Long-term mutual funds, which in January experienced net outflows due to heavy redemptions of equity funds, recovered these losses with sizable inflows in February. Money market mutual funds experienced net inflows at the highest pace on record in

<sup>&</sup>lt;sup>4</sup> Legislation enacted last fall reduced the subsidy to lenders providing loans through the Federal Family Education Loan Program.

### **State and Local Government Finance**

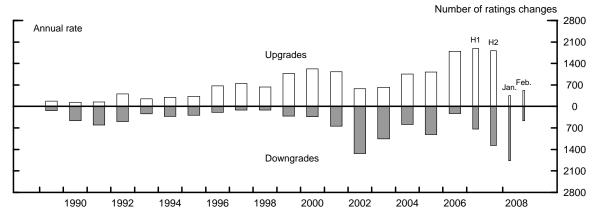
### **Gross Offerings of Municipal Securities**

(Billions of dollars; monthly rate, not seasonally adjusted)

				2007		2008	
Type of security	2004	2005	2006	H1	H2	Jan.	Feb.
Total	34.7	38.4	36.1	41.8	38.8	20.7	22.0
Long-term <sup>1</sup>	29.8	34.2	32.5	38.5	32.5	19.1	21.2
Refundings <sup>2</sup>	10.8	15.6	10.6	16.4	8.5	3.9	6.3
New capital	19.0	18.6	21.9	22.0	24.0	15.2	14.8
Short-term	4.9	4.2	3.7	3.4	6.3	1.6	.8
Memo: Long-term taxable	2.0	2.1	2.5	2.2	2.6	1.0	.9

- 1. Includes issues for public and private purposes.
- 2. All issues that include any refunding bonds.

### **Ratings Changes**

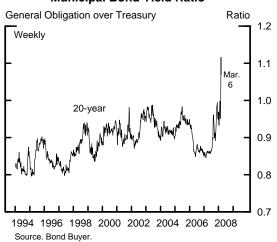


Source. S&P's Credit Week Municipal and Ratings Direct.

### **Municipal Bond Yields**



### **Municipal Bond Yield Ratio**



nominal terms this year through early March, a surge prompted in part by investors' shift toward relatively safe assets.

### **Treasury Finance**

The five- and ten-year securities auctioned at the Treasury's midquarter refunding in February were received well, but demand in the auctions for two-year notes and thirty-year bonds was below average. Measures of foreign demand for Treasury securities were somewhat mixed, with indirect bidding at the auctions down a bit further but custody holdings of Treasury securities at the Federal Reserve Bank of New York up modestly. The Treasury noted that it expects to increase bill issuance, and possibly nominal coupon issuance, in the coming months to address its projected increase in borrowing needs.

Liquidity in the market for Treasury coupon securities has remained somewhat impaired. Bid-ask spreads have stayed higher than they were before the onset of financial turmoil last year, and the on-the-run premium for the ten-year note rose in February to its highest level since 2002. Borrowing of Treasury securities in the SOMA Securities Lending Program stayed near record levels.

### **State and Local Government Finance**

Gross issuance of long-term municipal bonds slowed in January and February. Although a moderation is typical early in the year, issuance was also likely damped by the troubles facing financial guarantors. Historically, these guarantors have insured about half of all municipal bonds; this share has declined recently. Issuance of short-term bonds has been light as of late, an indication that most state and local governments are not experiencing substantial near-term funding pressures.

Relatively few municipal bonds saw ratings changes in February after a spike in downgrades in January associated with a major financial guarantor being downgraded from AAA to AA, which lowered the ratings on most of the bonds it insured. The likelihood of an even larger wave of municipal bond downgrades was reduced when Standard & Poor's confirmed AAA ratings in late February on the two largest bond insurers.

Even so, yields on long-term municipal bonds have jumped in recent weeks, reportedly reflecting some reluctance of dealers to provide liquidity and an unusually large volume of sales from leveraged investors. As a result, the ratio of municipal bond yields to comparable-maturity Treasuries has shot up, reaching record levels.

### **M2** Monetary Aggregate

(Based on seasonally adjusted data)

		Pe	rcent ch	ange (an	nual rate	e) <sup>1</sup>		Level (billions
				2007		20	800	of dollars),
Aggregate and components	2006	2007	H1	Q3	Q4	Jan.	Feb. (p)	Feb. (p)
M2	4.9	5.9	6.7	4.7	5.3	8.3	16.5	7,602
Components <sup>2</sup>								
Currency	3.5	2.0	2.6	1.6	1.2	-1.4	1.4	759
Liquid deposits <sup>3</sup>	.8	4.5	6.5	2.7	2.0	3.9	13.2	4,553
Small time deposits	18.5	4.2	4.1	2.1	6.2	7.5	1.9	1,226
Retail money market funds	12.9	20.5	15.5	21.5	24.6	36.9	61.1	1,057
Memo:								
Institutional money market funds	15.6	38.3	22.7	38.1	53.4	25.9	89.0	2,042
Monetary base	3.1	2.0	2.5	1.9	1.0	-3.2	3.9	824
<ol> <li>For years, Q4 to Q4; for quarters</li> <li>Nonbank traveler's checks are not</li> <li>Sum of demand deposits, other c</li> <li>Preliminary.</li> </ol>	ot listed.			_		verage le	vels.	

### **Money and Bank Credit**

M2 expanded at an annual rate of 17 percent in February. Retail money funds extended their blistering advance, likely reflecting continued safe haven demands. Following a slight boost in January from tax-related flows, liquid deposits accelerated markedly in February as the drop in market rates resulting from the monetary policy easing trimmed their opportunity cost.

Growth of commercial bank credit moderated in January and February. C&I loans decelerated markedly from their torrid fourth-quarter pace, mainly at large banks. Growth of these loans was likely damped by a reduction in merger and acquisition activity, weak business spending, and fewer previously committed loan deals coming onto banks' books. The February Survey of Terms of Business Lending suggests that spreads of C&I loan rates over banks' cost of funds rose in the current quarter. Commercial real estate loans advanced relatively briskly again over the first two months of the year, and loans secured by residential real estate continued to expand modestly. Consumer loan growth stayed moderate.

According to the fourth-quarter Call Reports, commercial bank profits plunged last quarter. The decline was concentrated at large banks and was driven in part by a jump in provisioning for loan losses. The delinquency rate on all loans and leases increased to a level only a little below its recent peak in 2002.

### **Commercial Bank Credit**

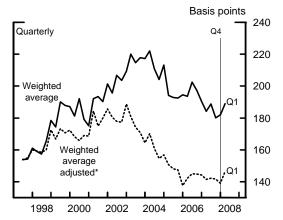
(Percent change, annual rate, except as noted; seasonally adjusted)

Type of credit	2006	H1 2007	Q3 2007	Q4 2007	Jan. 2008	Feb. 2008e	Level <sup>1</sup> Feb. 2008 <sup>e</sup>
Total	9.6	9.4	12.4	9.0	4.7	6.3	8,799
Loans <sup>2</sup>							
Total To businesses	10.9	10.2	12.6	11.8	12.4	4.0	6,743
Commercial and industrial	16.5	10.0	24.3	29.2	12.6	1.3	1,427
Commercial real estate	13.7	9.6	12.4	8.2	5.9	10.9	1,601
To households							
Residential real estate	7.0	10.7	2.6	1.0	5.3	4.7	1,891
Revolving home equity	1.4	2.0	6.7	11.9	10.9	5.9	489
Other	9.1	13.6	1.3	-2.6	3.3	4.2	1,401
Consumer	5.9	6.4	10.5	7.6	13.0	1.0	813
Originated <sup>3</sup>	6.9	5.2	10.3	7.4	16.2	4.7	1,222
Other <sup>4</sup>	11.8	14.1	19.6	18.9	35.5	-1.7	1,012
Securities							
Total	6.1	6.9	11.7	.2	-20.1	14.1	2,056
Treasury and agency	1.9	-4.2	5.6	-22.3	-21.8	3.2	1,084
Other <sup>5</sup>	13.2	23.8	19.9	29.4	-18.3	26.4	972

Note. Yearly annual rates are Q4 to Q4; quarterly and monthly annual rates use corresponding average levels. Data have been adjusted to remove the effects of mark-to-market accounting rules (FIN 39 and FAS 115), the consolidation of certain variable interest entities (FIN 46), the adoption of fair value accounting (FAS 159), and the effects of sizable thrift-to-bank and bank-to-thrift structure activity in October 2006, March 2007, and October 2007. Data also account for breaks caused by reclassifications.

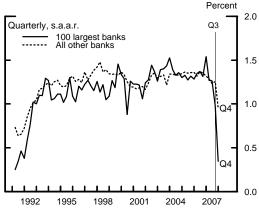
- 1. Billions of dollars. Pro rata averages of weekly (Wednesday) levels.
- 2. Excludes interbank loans.
- 3. Includes an estimate of outstanding loans securitized by commercial banks.
- 4. Includes security loans and loans to farmers, state and local governments, and all others not elsewhere classified. Also includes lease financing receivables.
- 5. Includes private mortgage-backed securities, securities of corporations, state and local governments, foreign governments, and any trading account assets that are not Treasury or agency securities, including revaluation gains on derivative contracts.
- e Estimated.

### C&I Loan Rate Spreads



Note. Spreads over market interest rate on an instrument of comparable maturity on loans less than \$25 million (2006\$). \*Adjusted for changes in nonprice loan characteristics. Source. Survey of Terms of Business Lending.

### Return on Assets for Commercial Banks



# **International Developments**

## **International Developments**

### **U.S. International Transactions**

### **Trade in Goods and Services**

The U.S. international trade deficit widened to \$58.2 billion in January after narrowing to \$57.9 billion in December. Exports rose sharply in both months, while imports dipped in December before recovering in January.

**Trade in Goods and Services** 

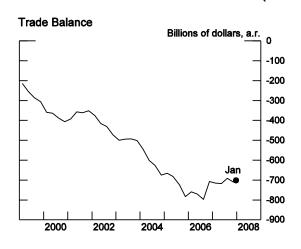
		Α	nnual rate	e	M	onthly ra	te
	2007		2007		20	07	2008
		Q2	Q3	Q4	Nov.	Dec.	<u>Jan.</u>
			P	ercent ch	ange		
Nominal BOP							
Exports	14.5	16.0	27.0	12.6	.7	1.5	1.6
Imports	10.0	11.3	12.7	12.6	2.9	-1.2	1.3
Real NIPA							
Exports	7.9	7.5	19.1	4.8	•••	•••	•••
Imports	.9	-2.7	4.4	-1.9	•••	•••	•••
			В	illions of	f dollars		
Nominal BOP							
Net exports	-708.5	-717.9	-690.3	-711.4	-62.4	-57.9	-58.2
Goods, net	-815.4	-820.2	-802.2	-832.2	-72.8	-68.0	-68.7
Services, net	106.9	102.4	111.9	120.8	10.4	10.1	10.5

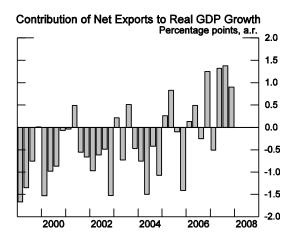
Source. U.S. Department of Commerce, Bureaus of Economic Analysis and Census. n.a. Not available. ... Not applicable.

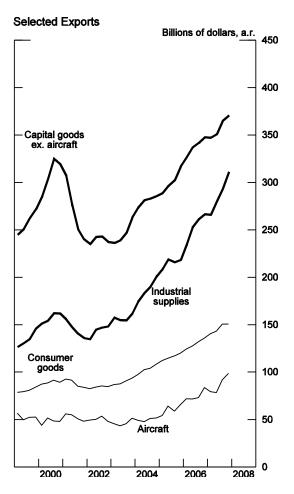
In January, the value of exported goods and services increased 1.6 percent, following a similar increase in December. The January gain reflected higher exports of both goods and services. Within goods, exports of agricultural products and consumer goods exhibited robust growth, while exports of industrial supplies increased at a more moderate pace. In contrast, exports of capital goods fell sharply, led by a decline in exports of aircraft, and exports of automotive products were flat.

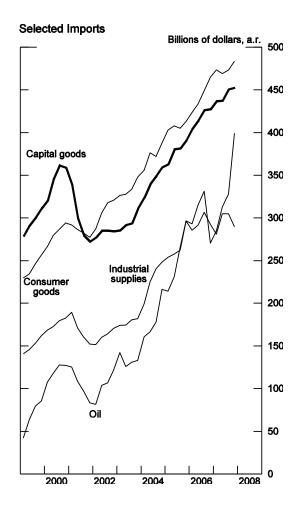
The value of exports in the fourth quarter rose by 12.6 percent (a.r.), helped by robust growth in December. Exports of services increased strongly in the quarter. The quarterly increase was also supported by strong gains in exports of industrial supplies and capital goods, which more than offset a fall in exports of automobiles and consumer goods. According to the Preliminary NIPA release, real exports of goods and service increased at an annual rate of 4.8 percent in the fourth quarter. This number is likely to be revised up somewhat when recent revisions to the trade data are incorporated.

# U.S. International Trade in Goods and Services (Quarterly)









U.S. Exports and Imports of Goods and Services (Billions of dollars, a.r., BOP basis)

		Lev	vels			Char		
		07	<u>2007</u>	2008	200		<u>2007</u>	2008
	Q3	Q4	Dec.	Jan.	Q3	Q4	Dec.	Jan.
Exports of G&S	1078.8	1729.2	1750.3	1778.8	97.4	50.4	26.1	28.5
Goods exports	1188.5	1217.2	1235.3	1254.6	74.4	28.7	26.1	19.3
Gold	14.3	12.0	12.4	17.9	-2.2	-2.3	1.9	5.4
Other goods	1174.2	1205.2	1222.9	1236.7	76.6	31.0	24.2	13.9
Capital goods	457.5	469.6	481.6	475.4	27.7	12.1	23.1	-6.2
Aircraft & parts	92.1	98.5	106.0	97.0	13.5	6.4	16.1	-9.0
Computers & accessories	43.2	41.4	40.8	44.0	1.5	-1.8	-1.4	3.2
Semiconductors	48.4	52.6	55.9	54.5	-1.3	4.3	5.1	-1.4
Other capital goods	273.9	277.1	278.9	280.0	14.0	3.2	3.3	1.1
Automotive	128.7	125.7	120.7	120.6	10.7	-2.9	-10.3	1
Ind. supplies (ex. ag., gold)	293.9	311.7	319.8	324.1	13.5	17.8	8.8	4.3
Consumer goods	150.9	150.7	154.7	160.6	7.6	2	6.8	5.9
Agricultural	101.8	102.6	102.7	109.6	15.9	.8	-1.4	6.8
All other goods	41.5	44.8	43.3	46.5	1.3	3.4	5.9	3.2
Services exports	490.3	512.0	515.0	524.2	22.9	21.7	.0	9.2
Imports of G&S	2369.1	2440.6	2444.6	2477.2	69.7	71.5	-28.6	32.6
O - 1- i	1000.7	2040.4	2051.2	2070 5	5.C.A	50.7	21.0	20.2
Goods imports		2049.4			56.4	58.7	-31.9	28.2
Oil	327.9	399.5	428.8	474.0	15.0	71.7	14.8	45.3
Gold	10.7	7.0	7.8	11.0	.9	-3.6	2.8	3.1
Other goods	1652.1	1642.8	1014./	1394.3	40.5	-9.3	-49.6	-20.1
Capital goods	451.0	453.1	452.5	450.2	13.3	2.1	-2.1	-2.3
Aircraft & parts	35.1	35.5	33.4	35.0	.7	.4	-1.8	1.7
Computers & accessories	101.5	103.4	107.6	106.0	-1.1	1.9	6.5	-1.7
Semiconductors	26.5	27.0	26.8	26.4	.5	.5	3	4
Other capital goods	287.8	287.2	284.7	282.8	13.1	7	-6.5	-1.9
Other capital goods	207.0	207.2	201.7	202.0	13.1	-•,	-0.5	-1,7
Automotive	268.3	261.6	244.8	247.0	15.9	-6.6	-25.5	2.2
Ind. supplies (ex. oil, gold)	304.8	289.5	284.0	281.5	1	-15.3	-7.6	-2.5
Consumer goods	473.2	483.7	482.5	461.6	3.9	10.5	-5.9	-20.9
Foods, feeds, bev.	83.6	82.8	81.6	85.5	3.4	9	-2.8	3.9
All other goods	71.3	72.2	69.3	68.7	4.2	.9	-5.6	6
Services imports	378.4	391.2	393.3	397.7	13.4	12.8	3.3	4.4
Memo: Oil quantity (mb/d) Oil import price (\$/bbl)	12.73 70.50	13.54 80.62	13.89 84.54	15.14 85.72	66 6.52	.81 10.12	.11 2.30	1.25 1.18

1. Change from previous quarter or month. Source. U.S. Department of Commerce, Bureaus of Economic Analysis and Census.

The value of imported goods and services rose 1.3 percent in January, reversing a similarly sized decline in December. Imports in January were importantly boosted by a large increase in the value of oil imports, reflecting both an increase in price and a jump in volumes. Non-oil imports recorded a steep decline, with imports of consumer goods falling the most. Imports of industrial supplies and capital goods also fell back slightly, whereas imports of services, foods, and automobiles all showed moderate gains.

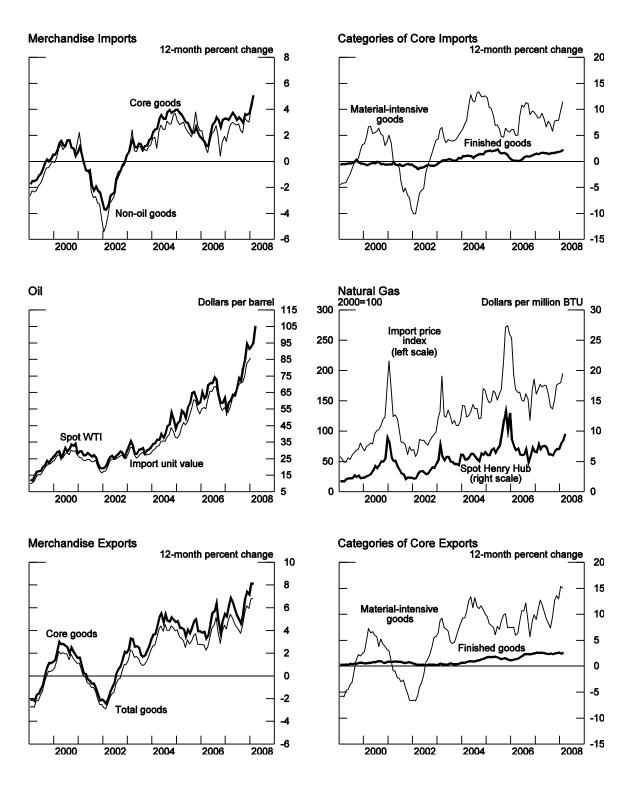
In the fourth quarter the value of imported goods and services increased 12.6 percent (a.r.), despite December's sharp decline. A large increase in the value of imported oil resulting from higher oil prices significantly boosted import growth in the quarter. Services imports also exhibited strong growth, while imports of non-oil goods fell back. Imports of non-oil industrial supplies and automotive products declined sharply in the quarter. In contrast, imports of consumer goods exhibited strong growth, while imports of capital goods increased slightly. As reported in the Preliminary NIPA release, real imports of goods and services declined at an annual rate of 1.9 percent in the fourth quarter. As with exports, this figure will likely be revised up, reflecting recent data revisions.

### **Prices of Internationally Traded Goods**

**Non-oil imports.** In the first two months of 2008, core import prices rose sharply, boosting their average level 7½ percent (a.r.) above the fourth-quarter level. Most of this increase was due to higher prices for material-intensive goods, which were up nearly 17 percent. Prices for nonfuel industrial supplies rose 17½ percent, largely reflecting sharply higher prices for imported chemicals. For imported food, the average level of prices in the first two months was 15½ percent (a.r.) above the fourth-quarter average. Over the same period, prices for finished goods increased 3 percent, with prices for capital goods excluding computers and semiconductors, consumer goods, and automotive products all rising at about that pace.

Oil. The BLS price index of imported oil rose 4.8 percent in January, and then fell 1.5 percent in February. The spot price of West Texas Intermediate (WTI) crude oil averaged \$92.95 per barrel in January. Since then, however, the spot price of WTI has surged, rising 20 percent to \$109.92 per barrel as of March 12. The price of futures for delivery at the end of 2016 has also risen considerably, closing at \$102.91 per barrel on March 12, about \$15 higher than at the time of the January Greenbook. The higher price of oil likely owes to a confluence of factors, including increased geopolitical risk, potentially stronger demand, and the recent fall in the value of the dollar.

### Prices of U.S. Imports and Exports



# **Prices of U.S. Imports and Exports** (Percentage change from previous period)

		nnual rat			onthly ra	
	200		2008 Q1e	2007 Dec.		08 Feb.
	Q3	Q4				reu.
7. T. 7				S prices		
Merchandise imports	9.7	16.3	11.1	2 1.0	1.6	.2
Oil Non-oil	48.1 1.8	73.6 4.6	29.9 6.4	-1.8 .4	4.8 .7	-1.5 .6
Non-on	1.0	4.0	0.4	.4	• /	.0
Core goods <sup>1</sup>	3.1	3.7	7.3	.4	1.1	.7
Finished goods	2.2	2.0	3.1	.3	.4	.3
Cap. goods ex. comp. & semi.	3.9	2.7	3.0	.4	.4 .3 .3 .5	.3 .3 .2 .3
Automotive products	1.5	4.7	3.8	.6	.3	.2
Consumer goods	2.4	1.7	3.1	.1	.5	.3
Material-intensive goods	5.3	7.6	16.9	.7	2.5	1.5
Foods, feeds, beverages	10.7	10.3	15.6	.7 .7	3.2	1
Industrial supplies ex. fuels	4.6	6.8	17.3	.7	2.3	1.9
madstrar suppries ex. rueis	4.0	0.0	17.5	•1	2.5	1.7
Computers	2	-2.7	-9.7	5	-1.9	5
Semiconductors	4.9	1.6	-5.0	8	-1.0	1
Natural gas	-51.0	78.5	53.9	1.4	.8	8.7
Merchandise exports	2.8	7.5	9.2	.4	1.2	.9
Core goods <sup>2</sup>	3.1	9.1	11.2	.5	1.5	1.0
Finished goods	2.0	2.6	3.1	.3	.4	.3
Cap. goods ex. comp. & semi.	2.4	3.0	3.8	.3	.5	.3
Automotive products	.8	1.3	1.4	.2	.2	.1
Consumer goods	2.2	2.3	2.6	.2 .4	.1	.4
•						
Material-intensive goods	4.5	17.5	21.1	.8	2.7	1.9
Agricultural products	24.0	41.0	44.6	2.7	5.0	4.4
Industrial supples ex. ag.	3	11.1	14.1	.1	1.9	1.1
Computers	-5.3	-3.9	-7.7	4	-1.3	4
Semiconductors	.6	1.0	3.1	.7	4	1.0
			NIPA	A prices		
Chain price index	7.5	12.0				
Imports of goods & services	7.5	13.0 4.0	n.a	•••	•••	•••
Non-oil merchandise Core goods <sup>1</sup>	1.4 3.1	4.0 3.6	n.a n.a	•••	•••	•••
					•••	•••
Exports of goods & services	3.8	6.2	n.a	•••	•••	•••
Total merchandise	3.2	6.3	n.a	•••	•••	•••
Core goods <sup>2</sup>	4.5	7.6	n.a	•••	•••	•••

Excludes computers, semiconductors, and natural gas.
 Excludes computers and semiconductors.
 e/ Average of two months.
 n.a. Not available. ... Not applicable.

**Exports.** The average level of core export prices in the first two months of 2008 was 11¼ percent (a.r.) above the fourth-quarter level, as prices of material-intensive goods soared 21 percent and prices of finished goods rose 3 percent. The large increase in material-intensive goods reflected a 44½ percent increase in prices for agricultural exports combined with a 14 percent increase in prices for nonagricultural industrial supplies. Prices for agricultural exports have risen briskly so far this year because of higher prices for wheat, corn, and soybeans, which all have recently reached record highs. Prices for nonagricultural industrial supplies are up, mostly because of higher prices for chemicals, fuels, and metals. Within finished goods, the category with the largest increase was capital goods excluding computers and semiconductors, which rose 3¾ percent.

#### **U.S.** International Financial Transactions

Since the last Greenbook, we have received data on U.S. international financial transactions for December and January. The unusually weak foreign official inflows during the third quarter of 2007 (line 1 of the Summary of U.S. International Financial Transactions Table) were followed by record inflows during the fourth quarter, and for the year as a whole, foreign official inflows were nearly as strong as in 2006.

. Official net purchases of U.S.

Treasuries accounted for only a little over 10 percent of total official inflows in 2007, down sharply from 2006, with most of the acquisitions focused on agency securities, corporate bonds, and stocks. In January 2008, foreign official flows registered a record monthly inflow of \$101 billion, with strong inflows in all types of U.S. securities. In both December and January, sizable acquisitions of stocks and corporate bonds largely reflected the well-publicized capital injections into U.S. financial firms from sovereign wealth funds of China, South Korea, Singapore, and Middle East oil exporters. Partial and confidential data on custody accounts at FRBNY indicate that foreign official inflows likely moderated somewhat in February from January's very high level.

The chart on Foreign Official Financial Flows offers more perspective on these data. Flows from G-10 and OPEC countries have fluctuated between small inflows and outflows since 2006, with the trend being a fairly small net inflow. Inflows from other countries have continued to account for the greater part of official inflows, and have experienced significant volatility in the past few months.

Private foreign net purchases of U.S. securities (line 4 of the table and the top panels of the chart on Private Securities Flows) for 2007 as a whole registered a 10 percent increase from 2006, mainly because of very strong inflows during the first half of the year. With the start of the financial market turmoil in the third quarter of 2007, however, private foreign net purchases of U.S. securities fell sharply, with foreign net sales recorded for agency bonds, corporate and municipal bonds (a category that also includes asset-backed securities), and corporate stocks (lines 4b, 4c, and 4d of the table). Net outflows in these categories were offset by increased purchases of U.S. Treasuries (line 4a), indicating a 'flight to quality' in private foreign demand for U.S. securities. Private purchases of corporate securities recovered somewhat in the fourth quarter, while purchases of U.S. Treasuries rose even further. In January, foreign private purchases of all security types were small.

After recording strong outflows in the third quarter, U.S. net acquisitions of foreign securities (line 5 of the table and bottom panel of the chart on Private Securities Flows) contracted sharply in the fourth quarter of 2007. For the year as whole, U.S. net acquisitions of bonds and stocks (lines 4a and 4b) were somewhat smaller than those recorded in 2006. During December 2007 and January 2008, U.S. purchases of foreign stocks were minimal. Total U.S. net purchases of foreign securities in January were similar to the monthly average of 2007.

As is typical at a monthly frequency, flows recorded by the banking sector (line 3) were volatile in 2007, with a net outflow of \$75.8 billion for the year. In January 2008, banking offices in the U.S. recorded modest outflows of \$36.7 billion. Some of these outflows may be linked to U.S. banks providing liquidity to European banks, particularly via repurchase agreements.

Complete U.S. balance of payments data for the fourth quarter are not yet available. However, some partial data have come in, including changes in bank-reported foreign currency denominated claims and liabilities, as well as changes in U.S. investors' holdings of foreign short-term securities. These flows, which will be included in line 10, indicate a further \$100 billion in inflows during the fourth quarter in addition to the nearly \$300 billion in inflows recorded for lines 1-5, suggesting that the statistical discrepancy will likely swing from positive \$86 billion in the third quarter to a sizable negative number in the fourth quarter.

# **Summary of U.S. International Transactions**

(Billions of dollars, not seasonally adjusted except as noted)

	2006	2007			2007			2008
			Q1	Q2	Q3	Q4	Dec.	Jan.
Official financial flows 1. Change in foreign official assets	446.2	424.8	152.5	76.3	41.9	154.1	43.3	100.5
in the U.S. (increase, +)	443.8	424.9	152.5	76.3	42.0	154.1	43.2	100.4
a. G-10 countries + ECB	21.4	43.6	9.1	6.2	10.1	18.3	3.1	4.7
b. OPEC	45.2	30.9	11.2	0.4	2.8	16.5	11.0	9.7
c. All other countries	377.2	350.4	128.3	73.7	29.1	119.3	29.1	86.0
2. Change in U.S. official reserve								
assets (decrease, +)	2.4	-0.1	-0.1	0.0	-0.1	-0.0	0.1	0.1
Private financial flows Banks	387.0	139.7	29.5	76.5	51.5	n.a.	•••	•••
3. Change in net foreign positions								
of banking offices in the U.S. 1	142.3	-75.8	-12.8	9.0	-39.4	-32.5	-7.7	-36.7
Securities <sup>2</sup> 4. Foreign net purchases (+) of U.S.								
securities	541.6	596.0	175.8	247.8	8.0	164.4	33.5	7.2
a. Treasury securities	-35.0	167.6	46.3	0.5	50.8	69.9	-1.5	1.6
b. Agency bonds	14.9	-29.1	-32.0	29.0	-16.3	-9.8	-14.7	2.9
c. Corporate and municipal bonds	412.9	265.6	117.2	111.6	-8.3	45.1	27.7	-0.8
d. Corporate stocks <sup>3</sup>	148.9	191.9	44.2	106.6	-18.2	59.3	22.0	3.5
5. U.S. net acquisitions (-) of foreign								
securities	-290.4	-255.4	-83.7	-68.7	-99.2	-3.8	-14.3	-20.9
a. Bonds	-152.5	-136.6	-39.4	-41.5	-42.6	-13.2	-13.7	-17.2
b. Stock purchases	-119.1	-107.5	-40.1	-27.2	-52.2	11.9	-0.6	-3.7
c. Stock swaps <sup>3</sup>	-18.8	-11.3	-4.2	0.0	-4.5	-2.6	0.0	0.0
Other flows (quarterly data, s.a.)								
6. U.S. direct investment (-) abroad	-235.4	n.a.	-81.4	-78.0	-56.3	n.a.	•••	•••
7. Foreign direct investment in the U.S.	180.6	n.a.	11.9	46.6	81.2	n.a.	•••	•••
8. Net derivatives (inflow, +)	28.8	n.a.	15.4	0.2	8.6	n.a.	•••	•••
9. Foreign acquisitions of U.S. currency	12.6	n.a.	-1.6	3.3	4.7	n.a.	•••	•••
10. Other (inflow, +) <sup>4</sup>	6.9	n.a.	5.9	-83.8	143.9	n.a.	•••	•••
U.S. current account balance (s.a.)	-811.5	n.a.	-197.1	-188.9	-178.5	n.a.	•••	•••
Capital account balance (s.a.) 5	-3.9	n.a.	-0.6	-0.6	-0.6	n.a.	•••	•••
Statistical discrepancy (s.a.)	-17.8	n.a.	15.7	36.7	85.6	n.a.	•••	•••

Note. Data in lines 1 through 5 differ in timing and coverage from the balance of payments data published by the Department of Commerce. Details may not sum to totals because of rounding.

2. Includes commissions on securities transactions and therefore does not match exactly the data on U.S. international

<sup>1.</sup> Changes in dollar-denominated positions of all depository institutions and bank holding companies plus certain transactions between broker-dealers and unaffiliated foreigners (particularly borrowing and lending under repurchase agreements). Includes changes in custody liabilities other than U.S. Treasury bills.

transactions published by the Department of Commerce.

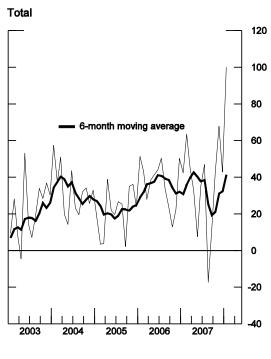
3. Includes (4d) or represents (5c) stocks acquired through non-market means such as mergers and reincorporations.

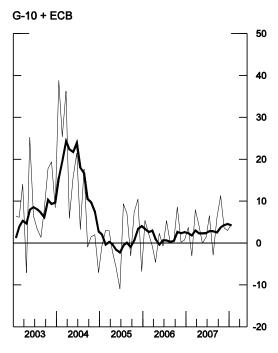
4. Transactions by nonbanking concerns and other banking and official transactions not shown elsewhere plus amounts resulting from adjustments made by the Department of Commerce and revisions in lines 1 through 5 since publication of the quarterly data in the Survey of Current Business.

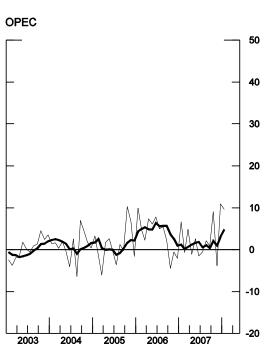
<sup>5.</sup> Consists of transactions in nonproduced nonfinancial assets and capital transfers.

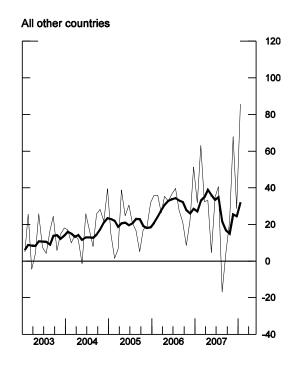
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# Foreign Official Financial Flows Through January 2008 (increase, +) (\$ Billions, monthly, not seasonally adjusted)



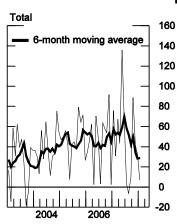


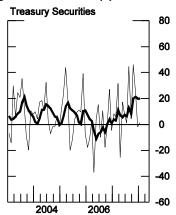


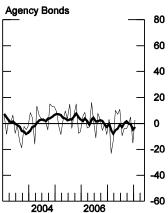


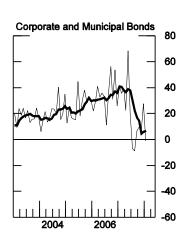
# Private Securities Flows Through January 2008 (\$ Billions, monthly, not seasonally adjusted)

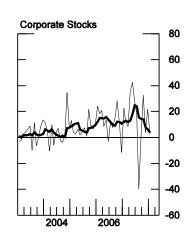
# Foreign Net Purchases (+) of U.S. Securities



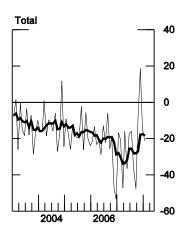


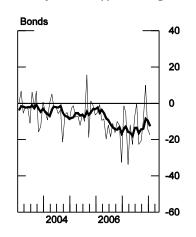


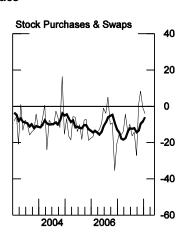




# U.S. Net Acquisitions (-) of Foreign Securities







# **Foreign Financial Markets**

Market turmoil stepped up again in late February, in part as investor perceptions of the near-term prospects for U.S. growth declined further. Less-downbeat economic data in the other advanced economies and statements by some foreign officials warning of inflationary pressures led investors to expect that the Federal Reserve's monetary policy response would be more substantial than that of other major central banks. As a result, the exchange value of the dollar dropped on net over the intermeeting period, with the trade-weighted major currencies index falling 3¾ percent to a new post-Bretton Woods low. The dollar depreciated 5 percent against the euro and 6 percent versus the yen over the period. The dollar depreciated 2¼ percent against sterling and was little changed on net versus the Canadian dollar.

The Bank of England and the Bank of Canada lowered their policy interest rates during the intermeeting period, by 25 and 50 basis points respectively, while the European Central Bank and the Bank of Japan left their policy rates unchanged. ECB President Trichet, after the March 6 meeting of the Governing Council, again emphasized his concerns about inflationary pressures. Similar concerns, driven in part by sharp increases in the prices of many commodities over the period, led the Reserve Bank of Australia and Sweden's Riksbank to increase their policy rates.

Conditions in interbank term money markets for dollar and sterling, which had improved substantially in January, deteriorated again in late February, and spreads between Libor and overnight index swap rates began to rise again. Although spreads in euro held fairly steady through February, they also turned up in early March as lending conditions continued to deteriorate. On March 11, as part of a set of coordinated actions by G-10 central banks designed to help calm term funding markets, the FOMC announced that it would increase the size of its dollar swap lines with the ECB and the Swiss National Bank, and the ECB and SNB announced they would resume their dollar auctions and increase their size. Simultaneously, the Bank of England announced the continuation of its three-month repo operations with an expanded list of acceptable collateral, and the Bank of Canada announced that it would conduct two exceptional 28-day repo operations. Following these announcements, the spread between dollar Libor and OIS rates declined, but euro and sterling spreads showed little reaction.

In line with expectations of divergent monetary policies, two-year Treasury yields fell about 80 basis points on net over the period, while German two-year yields declined only 20 basis points. Ten-year sovereign nominal yields declined about 30 basis points in

Germany and 20 basis points in the United States. In European sovereign bond markets, market liquidity has reportedly worsened since late February, and spreads between less liquid Italian bonds and more liquid German bonds have widened about 25 basis points. European corporate spreads have also moved up over the intermeeting period, although by less than in the United States.

Amid growing concerns about the impact of the global financial turmoil and the pace of U.S. economic activity, major headline equity indexes in Europe, Japan, and the United States ended the period down 3 to 8 percent on net. Financial sector share prices registered more substantial falls in most major industrial countries. Euro-area banking share prices dropped about 10 percent on average, and Japanese banking share prices lost almost 15 percent despite a report by Japan's FSA indicating that Japanese banks have only a modest total exposure to U.S. subprime-based assets. Market analysts were focused over the period on the releases of earnings reports by major European banks, watching in particular for the amounts written down by the various institutions. The picture was mixed, as some European banks, including UBS, Credit Suisse and Credit Agricole reported larger-than-expected writedowns, but a number of others, including HSBC, Deutsche Bank, and Barclays reported smaller-than-expected writedowns.

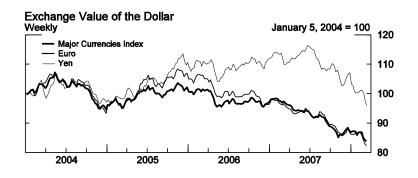
Latin American financial markets were relatively unaffected by the global financial turmoil. The dollar was little changed against the Mexican peso and depreciated 5 percent versus the Brazilian *real*. Equity indexes in Mexico, Brazil, and Argentina rose 2 to 6 percent. Latin American dollar-denominated bond spreads widened slightly. In emerging Asia, dollar exchange rates were mixed, as were movements in equity indexes; Taiwanese, Korean, and Thai indexes rose, but indexes in China and Hong Kong declined.

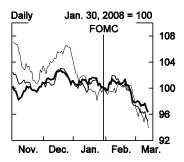
We received no reports of intervention purchases or sales by the central banks of major industrial countries over the intermeeting period. The Desk did not intervene during the period for the accounts of the System or the Treasury.

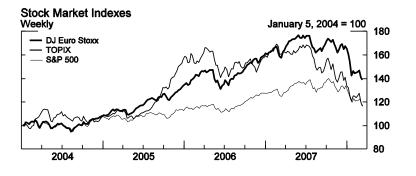
# **Exchange Value of the Dollar and Stock Market Indexes**

	Latest	Percent change since January FOMC
Exchange rates*		
Euro (\$/euro)	1.5562	-5.0
Yen (¥/\$)	100.8	-6.0
Sterling (\$/£)	2.0360	-2.4
Canadian dollar (C\$/\$)	0.9868	-0.7
Nominal dollar indexes*		
Broad index	95.4	-2.5
Major currencies index	69.8	-3.7
OITP index	124.0	-1.2
Stock market indexes		
DJ Euro Stoxx	339.7	-6.0
TOPIX	1215.9	-7.9
FTSE 100	5659.4	-3.0
S&P 500	1305.3	-4.2

<sup>\*</sup> Positive percent change denotes appreciation of U.S. dollar.



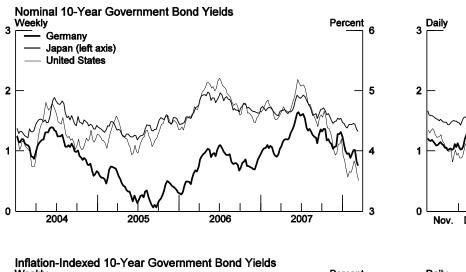


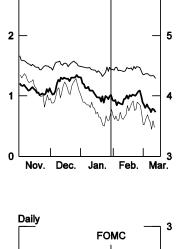




# **Industrial Countries: Nominal and Real Interest Rates**

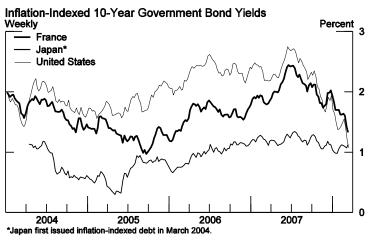
	3-mo	nth LIBOR	10-ye	ear nominal	10-year indexed		
	Latest	Change since January FOMC	Latest	Change since January FOMC	Latest	Change sind January FOM	
Germany	4.60	0.22	3.73	-0.29	1.34	-0.46	
Japan	0.98	0.10	1.29	-0.14	1.08	0.03	
United Kingdom	5.84	0.25	4.33	-0.23	1.07	-0.28	
Canada	3.70	-0.39	3.49	-0.41	•••	•••	
United States	2.80	-0.44	3.49	-0.20	1.06	-0.35	

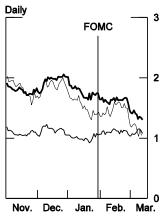




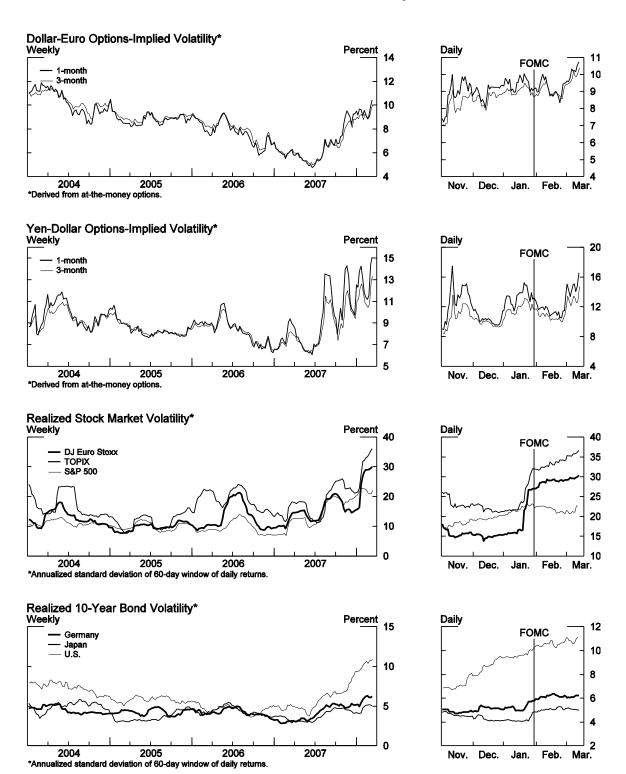
**FOMC** 

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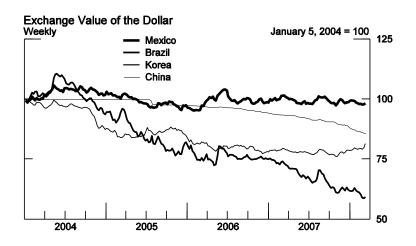
# **Measures of Market Volatility**

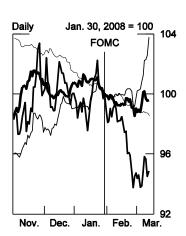


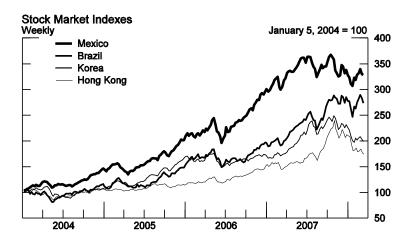
# **Emerging Markets: Exchange Rates and Stock Market Indexes**

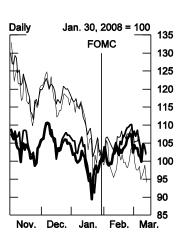
	Exchange v	alue of the dollar	Stock n	narket index
	Latest	Percent change since January FOMC*	Latest	Percent change since January FOMC
Mexico	10.7853	-0.4	29283	3.6
Brazil	1.6865	-5.1	60762	2.1
Venezuela	2.14	-0.1	35281	-1.6
China	7.0900	-1.4	3971	-10.1
Hong Kong	7.7843	-0.2	22302	-5.7
Korea	980.7	3.8	1616	1.7
Taiwan	30.68	-4.7	8211	8.8
Singapore	1.3800	-2.8	940	0.0
Thailand	31.45	0.0	814	6.7

<sup>\*</sup> Positive percent change denotes appreciation of U.S. dollar.





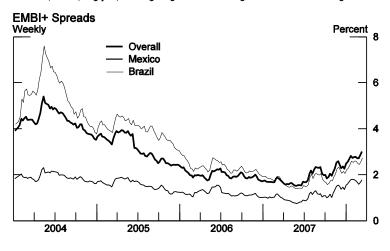


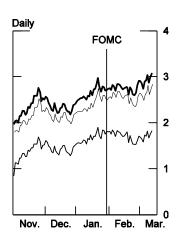


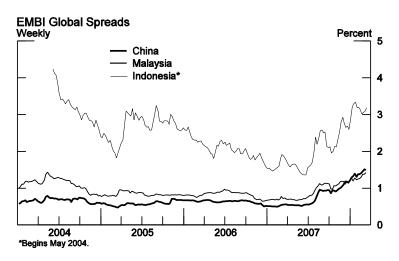
# Emerging Markets: Short-Term Interest Rates and Dollar-Denominated Bond Spreads

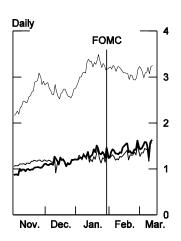
		rt-term st rates*		enominated preads**
	Latest	Change since January FOMC	Latest	Change since January FOMC
Mexico	7.34	0.31	1.83	0.08
Brazil	11.10	0.05	2.85	0.32
Argentina	9.69	-1.06	5.21	0.63
China	•••		1.64	0.40
Korea	5.10	-0.05	•••	•••
Taiwan	2.60	-0.03	•••	•••
Singapore	3.50	0.00	•••	•••
Hong Kong	2.04	-0.31		

<sup>\*</sup>One month interest rate except 1-week rate for Korea. No reliable short-term interest rate exists for China.
\*\*EMBI+ or EMBI Global Spreads over similar-maturity U.S. Treasuries.
... Korea, Taiwan, Singapore, and Hong Kong have no outstanding dollar-denominated sovereign bonds.









# **Developments in Advanced Foreign Economies**

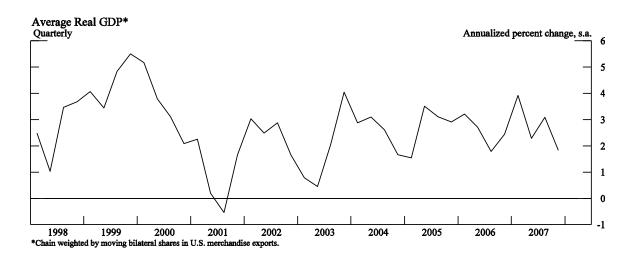
Real GDP growth slowed in the fourth quarter in the major advanced foreign economies. The source of the slowdown varied substantially across economies. In the euro area, GDP growth was pulled down by an outright fall in domestic demand. Domestic demand also slowed in the United Kingdom. In contrast, Canadian domestic demand remained very strong, but was offset by a steep decline in net exports.

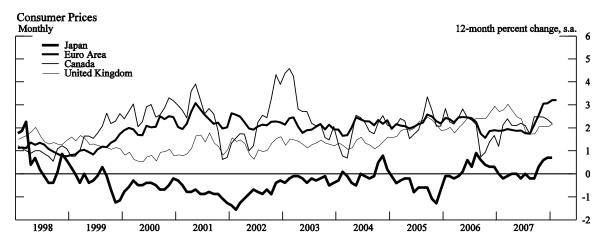
Except in Canada, consumer price inflation has risen in these economies over the past several months, pushed up by higher food and energy prices. In the euro area, inflation pressures are particularly acute; overall inflation reached 3.2 percent in February, the highest level since euro-area statistics were officially compiled in 1997. Core inflation in Canada continued to moderate in January, reaching 1.5 percent.

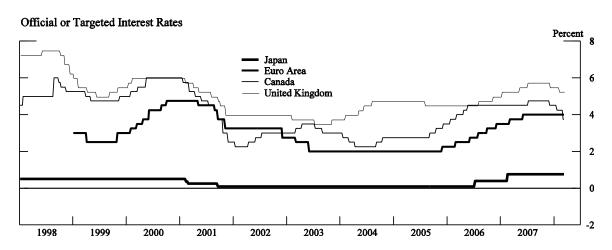
Statements accompanying central bank meetings in March cited increased downside risks to growth. The Bank of Canada cut its policy rate 50 basis points at its March meeting, citing downside risks to growth emanating from the United States. The Bank of England cut its policy rate 25 basis points in February. The European Central Bank and the Bank of Japan left rates unchanged, indicating concerns over inflationary pressures outweighed risks to growth.

According to the preliminary estimate, **Japan**'s real GDP grew 3.5 percent (s.a.a.r) in the fourth quarter, spurred by export growth and strong business fixed investment, which bounced back following four quarters of decline. Net exports contributed 1.8 percentage points to growth, despite a decline in exports to the United States. The revisions to the Construction Standards Law implemented last summer continued to weigh on housing investment, which subtracted about one percentage point from growth. However, the Ministry of Finance corporate survey is at odds with the recent strength in business investment, suggesting that the fall in capital investment that started earlier in 2007 accelerated in the fourth quarter, as private capital expenditure fell 7.7 percent from a year earlier.

# **Advanced Foreign Economies**







Japanese Real GDP
(Percent change from previous period except as noted, s.a.a.r.)

Component	2006 <sup>1</sup>	2007¹		07	17		
	2000	2007	Q1	Q2	Q3	Q4	
GDP	2.5	1.7	3.8	-1.5	1.2	3.5	
Total domestic demand	1.9	0.2	2.1	-2.0	-0.9	1.6	
Consumption	1.6	1.1	2.5	0.6	0.6	0.9	
Private investment	5.9	-3.1	-2.4	-8.2	-2.5	0.9	
Public investment	-10.2	-1.5	22.4	-15.5	-7.5	-1.7	
Government consumption	0.2	1.6	0.8	1.2	0.6	3.6	
Inventories <sup>2</sup>	0.3	0.0	0.1	-0.2	-0.4	0.5	
Exports	6.4	11.1	14.8	4.6	12.2	13.2	
Imports	2.7	2.0	4.1	2.1	-0.5	2.2	
Net Exports <sup>2</sup>	0.6	1.4	1.7	0.4	1.9	1.8	

<sup>1.</sup> Q4/Q4

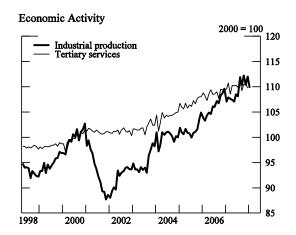
Recent economic indicators have been mixed. Industrial production and core capital goods shipments fell in January. Consumer confidence also dropped in February to its lowest level in almost five years. However, consumption indicators remain healthy, with strong increases in January retail sales and household spending. Real exports also rose in the first month of this year, boosted by strong demand from Asia and the Europe.

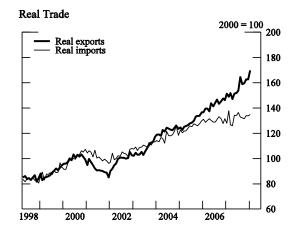
The labor market continued to be tight, with the unemployment rate unchanged at 3.8 percent in January. However, the job offers-to-applicants ratio (the number of officially posted job openings relative to the number of officially registered job seekers) remained at 0.98, its lowest level in two years, indicating that employment may soften. Total cash earnings (which include bonuses) grew 1 percent in January from a year earlier, following 13 months of declines.

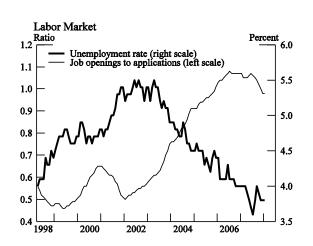
The nationwide headline consumer price index (excluding only fresh food) rose 0.7 percent in January from a year earlier. However, the rise in the index was the result of an increase in oil prices; consumer prices excluding fresh food and energy fell 0.1 percent.

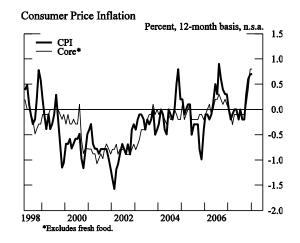
<sup>2.</sup> Percentage point contribution to GDP growth.

# Japan









Economic Indicators (Percent change from previous period except as noted, s.a.)

	2007			20	007	2008	
Indicator	Q2	Q3	Q4	Nov.	Dec.	Jan.	Feb.
Housing starts	0.1	-35.5	18.1	11.6	9.9	13.0	n.a.
Machinery orders <sup>1</sup>	-2.3	2.5	0.8	-2.8	-3.2	19.6	n.a.
Household expenditures	-0.1	-0.5	0.6	-0.5	1.6	2.5	n.a.
New car registrations	-1.9	1.4	4.6	0.3	-10.8	10.5	-2.7
Business sentiment <sup>2</sup>	7.0	4.0	2.0			•••	•••
Wholesale prices <sup>3</sup>	1.7	1.5	2.4	2.4	2.6	3.0	3.4

Private sector, excluding ships and electric power.
 Tankan survey, diffusion index. Level.
 Percent change from year earlier, n.s.a.
 n.a. Not available. ... Not applicable.

**Euro-Area Real GDP** (Percent change from previous period except as noted, s.a.a.r.)

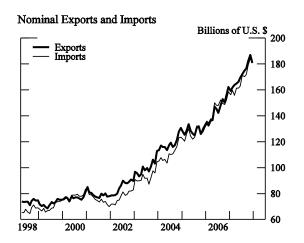
Component	2006 <sup>1</sup>	2007¹		2007				
	2000	2000   2007		Q2	Q3	Q4		
GDP	3.2	2.2	3.2	1.1	3.0	1.5		
Total domestic demand	2.4	1.9	4.1	0.2	3.6	<b>-0.</b> 1		
Consumption	2.1	1.1	0.2	2.5	2.0	-0.3		
Investment	5.7	3.7	7.0	0.2	4.7	3.0		
Government consumption	2.2	1.8	4.5	0.6	2.7	-0.3		
Inventories <sup>2</sup>	-0.4	0.1	1.4	-1.3	0.8	-0.4		
Exports	9.0	4.4	3.7	3.2	8.6	2.2		
Imports	7.1	3.8	5.7	1.2	10.3	-1.5		
Net Exports <sup>2</sup>	0.9	0.3	-0.8	0.9	-0.5	1.7		
Memo: GDP of selected countries								
France	2.1	2.1	2.3	1.4	3.2	1.4		
Germany	3.9	1.7	2.6	0.7	2.7	1.1		
Italy	2.8	n.a.	1.3	0.2	1.7	n.a.		

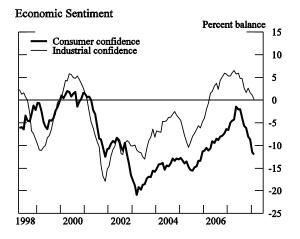
**Euro-area** real GDP growth slowed to 1.5 percent in the fourth quarter. Total domestic demand fell 0.1 percent as private consumption contracted and investment growth slowed. Net exports contributed 1.7 percentage points to growth, although this largely reflects a decline in imports. The fourth-quarter slowdown in euro-area growth was driven by slowing growth in both Germany and France, which together account for around 50 percent of euro-area GDP.

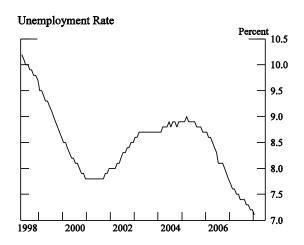
Recent survey-based indicators point to a further slowing of growth in the first quarter. The European Commission survey of euro-area economic sentiment fell in February for the ninth consecutive month, with declines in confidence widespread across the industrial, consumer, and construction sectors. Germany's IFO business climate index, although remaining at a low level, unexpectedly rose in February, as firms took a slightly less gloomy view of current conditions.

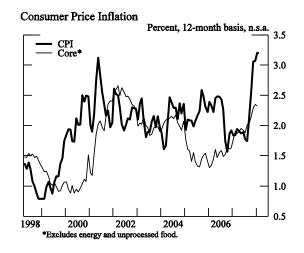
<sup>1.</sup> Q4/Q4 2. Percentage point contribution to GDP growth.

### Euro Area









Economic Indicators
previous period except as noted, s.a.)

(i drocht change i	1	2007				2008	
	2007				2007		
Indicator	Q2	Q3	Q4	Oct.	Nov.	Dec.	Jan.
Industrial production <sup>1</sup>	0.5	1.5	0.2	0.6	-0.3	0.0	0.9
Retail sales volume <sup>2</sup>	-0.0	0.5	-0.9	-0.6	-0.5	-0.1	0.5
New car registrations	0.1	0.6	0.8	0.2	-0.7	2.5	-4.0
Employment	0.6	0.3	n.a.			•••	•••
Producer prices <sup>3</sup>	2.4	2.1	4.0	3.3	4.3	4.4	4.9
M3 <sup>3</sup>	11.0	11.3	11.6	12.3	12.4	11.6	11.5

- 1. Excludes construction.
- 2. Excludes motor vehicles.
  2. Excludes motor vehicles.
  3. Eurostat harmonized definition. Percent change from year earlier, s.a. n.a. Not available. ... Not applicable.

The final reading on the euro-area services PMI for January declined about 3 points to 50.6 before bouncing back to 52.3 in February. The manufacturing PMI has been about unchanged over the past three months after recovering from a sharp drop in October. Retail sales and industrial production improved in January.

According to the preliminary estimate, headline inflation was 3.2 percent in February, unchanged from January and its highest level since euro-area statistics began in 1997. Recent headline inflation has been boosted by rising energy and food prices. January core inflation (excluding energy and unprocessed food) was a more modest 2.3 percent.

In the **United Kingdom**, real GDP growth moderated to 2.3 percent (s.a.a.r.) in the fourth quarter. Domestic demand weakened noticeably as private consumption rose and investment contracted. Net exports made a positive contribution to GDP growth, as imports fell more than exports. Inventories and government consumption also made positive contributions.

U.K. Real GDP
(Percent change from previous period except as noted, s.a.a.r.)

Component	2006 <sup>1</sup>	2007¹		2007			
	2000	2007	Q1	Q2	Q3	Q4	
GDP	3.3	2.9	3.1	3.2	3.0	2.3	
Total domestic demand	3.5	3.4	4.1	2.3	6.1	1.3	
Consumption	2.7	2.7	3.5	2.9	3.7	0.8	
Investment	10.1	0.9	3.1	-4.1	6.9	-2.1	
Government consumption	1.4	2.2	4.0	0.3	1.3	3.5	
Inventories <sup>2</sup>	-0.1	1.1	0.5	0.9	2.7	0.5	
Exports	-1.2	0.6	-2.4	1.2	5.8	-2.0	
Imports	-0.0	2.4	1.0	-1.9	16.5	<b>-4</b> .6	
Net Exports <sup>2</sup>	-0.3	-0.6	-1.0	0.9	-3.2	0.9	

<sup>1.</sup> Q4/Q4

Recent data on mortgage lending are consistent with a sharp reduction in new loan origination. Net mortgage lending fell 25 percent in the twelve months to January, while the number of mortgages approved for house purchases tumbled 39 percent. In contrast, mortgage refinancing posted double-digit gains over the same period. Twelve-month house price appreciation has slowed from double digit gains last summer to around 2 percent in February.

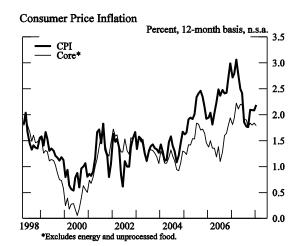
<sup>2.</sup> Percentage point contribution to GDP growth.

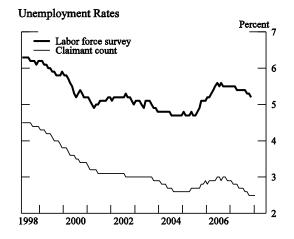
Consumer confidence slid to a five-year low in February as households were increasingly pessimistic about the general economic situation. In contrast, business confidence rose in January after reaching a two-year low a month earlier. The PMI for services rose to 54.1 in February as firms reported an increase in outstanding business and were more optimistic about future business.

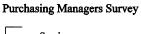
The labor market remains robust, with wages up and unemployment remaining low in January. The number of people claiming unemployment benefits fell for a sixteenth consecutive month in January, and the number of vacancies remained at its highest level since 2001.

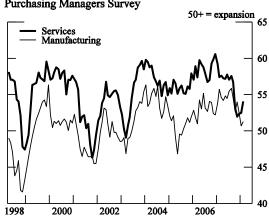
The twelve-month rate of headline inflation ticked up to 2.2 percent in January. Excluding energy, food, and alcoholic beverages, inflation slowed 0.1 percentage points to 1.3 percent.

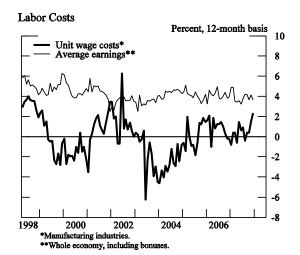
# **United Kingdom**











Economic Indicators (Percent change from previous period except as noted, s.a.)

, J	2007			20	07	2008	
Indicator	Q2	Q3	Q4	Nov.	Dec.	Jan.	Feb.
Producer input prices <sup>1</sup>	1.0	2.7	10.7	10.9	12.2	18.9	19.4
Industrial production	0.9	-0.3	0.3	-0.4	0.0	0.0	n.a.
Business confidence <sup>2</sup>	20.3	13.3	7.3	9.0	3.0	9.0	11.0
Consumer confidence <sup>2</sup>	-4.2	-2.5	-3.8	-4.1	-5.0	-7.2	-8.8
Trade balance <sup>3</sup>	-21.4	-26.9	-26.2	-9.0	-8.3	-8.1	n.a.
Current account <sup>3</sup>	-27.2	-40.5	n.a.	•••	•••	•••	

Percent change from year earlier.
 Percent balance. 3. Level in billions of US Dollars.
 n.a. Not available. ... Not applicable.

In **Canada**, real GDP growth slowed sharply in the fourth quarter, with most of the weakness appearing late in the quarter. Net exports subtracted from growth as exports fell and imports rose. Final domestic demand accelerated, as private and government consumption soared. Growth in private consumption was especially impressive as it occurred before a January reduction in the retail sales tax. Inventory accumulation made only a modest contribution in the fourth quarter following an outsized gain in the third. Investment growth was solid.

Canadian Real GDP
(Percent change from previous period except as noted, s.a.a.r.)

`	_	_			•			
Component	2006 <sup>1</sup>	2007¹	2007					
	2006	2007	Q1	Q2	Q3	Q4		
GDP	1.9	2.9	4.0	3.8	3.0	0.8		
Total domestic demand	3.3	6.6	4.5	5.6	8.8	7.5		
Consumption	4.5	5.4	4.0	5.8	4.5	7.4		
Investment	4.9	4.7	2.7	4.7	6.1	5.5		
Government consumption	3.1	5.0	2.6	4.1	6.2	6.9		
Inventories <sup>2</sup>	-1.0	1.4	1.0	0.4	3.6	0.7		
Exports	-0.9	-1.2	1.0	2.3	0.7	-8.5		
Imports	3.0	9.2	1.0	7.3	18.4	10.9		
Net Exports <sup>2</sup>	-1.6	-4.4	-0.0	-2.1	-7.2	<b>-8.</b> 1		

<sup>1.</sup> Q4/Q4

Employment increased substantially in both January and February, 0.3 percent in each month. In contrast to the pattern seen throughout 2007, employment growth was concentrated in the private sector. Consistent with the gains in employment wages have increased at record rates, near 4.9 percent on a twelve-month basis.

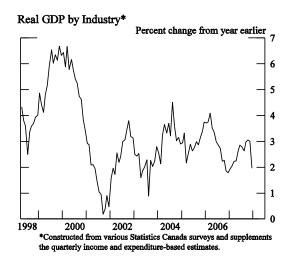
The twelve-month rate of consumer price inflation fell 0.2 percentage points to 2.2 percent in January. Inflation has been supported by rising gasoline prices and increases in mortgage interest costs. Core inflation, which excludes the eight most volatile components and the effects of changes in indirect taxes, slowed further in January, reaching 1.4 percent. The twelve-month growth rate of average hourly wages jumped sharply in December, reaching an impressive 4.9 percent.

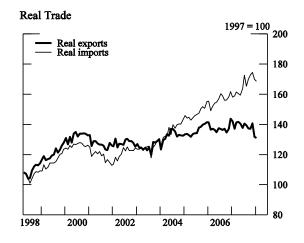
The Bank of Canada lowered its policy rate by 75 basis points over the quarter; a 25 basis point reduction in January was followed by a 50 basis point reduction in March. The BOC cited concerns over downside risks to its outlook driven by a likely further slowing

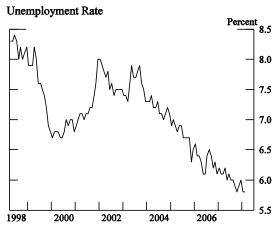
<sup>2.</sup> Percentage point contribution to GDP growth.

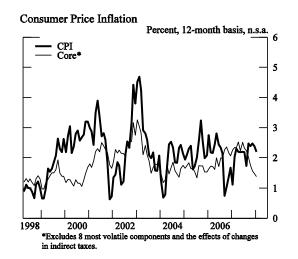
of activity in the United States. The BOC indicated that further stimulus "is likely to be required in the near term."

# Canada









Economic Indicators

(Percent change i	rom previ	ous periou	except as	noted, s.a.	,		
	2007			20	07	2008	
Indicator	Q2	Q3	Q4	Nov.	Dec.	Jan.	Feb.
Industrial production	0.6	-0.4	-1.4	-0.4	-2.4	n.a.	n.a.
New manufacturing orders	-0.8	-1.3	-1.2	6.4	-10.2	n.a.	n.a.
Retail sales	2.5	0.3	1.3	0.3	0.5	n.a.	n.a.
Employment	0.4	0.4	0.7	0.1	-0.0	0.3	0.3
Consumer attitudes <sup>1</sup>	97.4	100.8	97.9			•••	
Business confidence <sup>1</sup>	106.7	101.6	n.a.			•••	

<sup>1. 2002=100.</sup> n.a. Not available. ... Not applicable.

### **Economic Situation in Other Countries**

Recent information for emerging market economies suggests that growth has slowed, but is still fairly strong. In emerging Asia, fourth-quarter GDP data were mixed, as growth picked up in China and South Korea but moderated in India and contracted in Singapore. Indicators point to a slowing of growth in Latin America, but by less than had been expected, especially in Mexico. Headline inflation continued to rise in the developing world, largely owing to a continued increase in food and energy prices, and prompting governments in several countries to adopt controls on some prices. In addition, a number of countries have refrained from following the Federal Reserve interest rate cuts, and some, including China, have been allowing more currency appreciation.

In **China**, real GDP grew 9.6 percent (s.a.a.r.) in the fourth quarter, up somewhat from the third quarter. Nevertheless, the pace of growth in the second half slowed markedly relative to the very strong first half, although new seasonal factors suggest that growth was spread a bit more evenly over last year than previously thought. Incoming data from the current quarter continue to suggest weakness in external demand. For January and February as a whole, export growth slowed a bit more after a substantial decline in the fourth quarter. However, import growth also slowed, resulting in a modest increase in the trade surplus to \$261 billion (s.a.a.r.) from about \$251 billion in the fourth quarter. According to the Ministry of Finance, in 2007 China recorded its first overall fiscal surplus (including both central and local governments) in many years, reflecting strong tax revenues; the central government alone posted a modest deficit of under 1 percent of GDP.

Twelve-month consumer price inflation has risen sharply this year, reaching 8.7 percent in February. The rise in inflation largely reflects an acceleration of food price inflation: severe snowstorms disrupted transport and the inclement weather has caused some crop damage as well, leading to soaring vegetable prices and further increases in meat prices. 12-month food price inflation increased to 23 percent in February, while non-food inflation remained at around 1½ percent.

# Chinese Economic Indicators (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007	2007			2008	
mulcator	2000	2007	Q3	Q4	Dec.	Jan.	Feb.
Real GDP <sup>1</sup> Industrial production Consumer prices <sup>2</sup> Merch. trade balance <sup>3</sup>	10.5 14.6 2.8 177.5	11.2 18.6 6.5 262.1	8.1 3.2 6.1 281.8	9.6 3.3 6.6 250.5	1.3 6.5 228.8	n.a. 7.1 291.2	n.a. 8.7 230.9

- 1. Annual rate. Quarterly data estimated by staff from reported four-quarter growth rates. Annual data are Q4/Q4.
  - 2. Percent change from year-earlier period, except annual data, which are Dec./Dec.
  - 3. Billions of U.S. dollars, annual rate. Imports are c.i.f.
  - n.a. Not available. ... Not applicable.

Recent indicators for **India** show a moderation of activity. Fourth-quarter GDP moderated significantly, after a marked increase in the third quarter. Industrial production rebounded in December from the previous month, although growth in mining and energy production slowed significantly. The trade deficit widened sharply in January, as soaring imports swamped a slight increase in exports. Both consumer and wholesale price inflation held roughly steady in January. However, more recent weekly data for the wholesale price index indicate a renewed increase in inflation in February, in part driven by higher prices for some food products and cotton. In addition, the government increased the ceiling on state-controlled fuel prices by 5 percent on February 14.

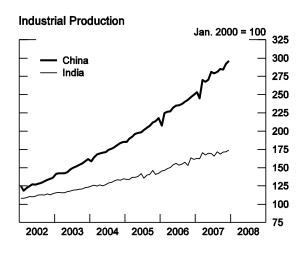
Leading up to the start of the new fiscal year in April, the government announced its proposed 2008-09 budget in late February. Expenditure is heavily loaded toward education, health, and infrastructure, and agriculture. The government projects a 2008-09 fiscal deficit of  $2\frac{1}{2}$  percent of GDP, but analysts remain skeptical, pointing to the significant off-budget spending (possibly exceeding 2 percent of GDP). In February, the government also took steps to allow greater capital outflow, giving firms the option of issuing foreign-currency exchangeable bonds to fund operations abroad.

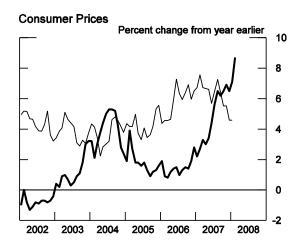
Indian Economic Indicators (Percent change from previous period, s.a., except as noted)

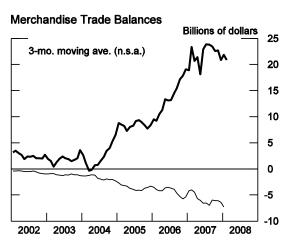
Indicator	2006	2007	2007			2008	
midicator	2006	2007	Q3	Q4	Dec.	Jan.	Feb.
Real GDP <sup>1</sup>	9.1	8.4	8.5	2.7			
Industrial production	10.5	9.9	1	2.1	1.3	n.a.	n.a.
Consumer prices <sup>2</sup>	6.5	4.6	6.7	5.2	4.6	4.6	n.a.
Wholesale prices <sup>2</sup>	5.7	3.8	4.1	3.4	3.8	3.9	4.6
Merch. trade balance <sup>3</sup>	-53.1	-70.5	-71.1	-77.1	<b>-64.0</b>	-113.2	n.a.
Current account <sup>4</sup>	-9.5	n.a.	-22.1	n.a.			

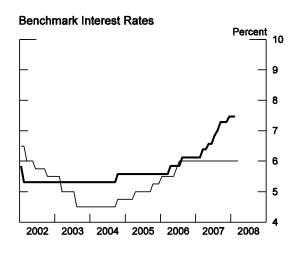
- Annual rate. Annual data are Q4/Q4.
   Percent change from year-earlier period, except annual data, which are Dec./Dec.
   Billions of U.S. dollars, annual rate.
   Billions of U.S. dollars, n.s.a., annual rate.
   Not available. . . . Not applicable.

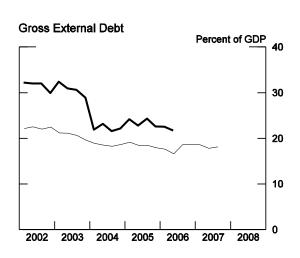
### China and India

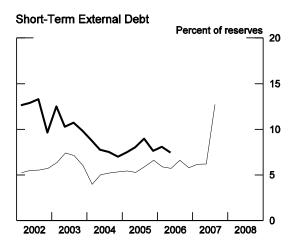












In the **NIEs**<sup>1</sup>, fourth-quarter economic performance was mixed, as real GDP growth was strong in South Korea and Hong Kong, but moderated in Taiwan, and was negative in Singapore. Contributions of external demand to growth generally weakened. In Singapore, the contraction resulted primarily from a sharp decline in activity in the volatile biomedical sector. In January, industrial production rebounded in Taiwan, Singapore and South Korea. Across the region, exports have generally risen in the current quarter, but except in Singapore these gains have been largely offset by strong imports, resulting in lower trade balances.

Except in Singapore, twelve-month consumer price inflation stabilized in most recent months across the NIEs, but inflationary pressures remain. Food price inflation has retreated from previous peaks in South Korea and Taiwan, as the earlier effects of adverse weather have faded. In Singapore, inflation picked up, owing mainly to a one-off technical revision in the measurement of accommodation costs. Amid inflationary pressures, the central bank of Taiwan allowed the local currency to appreciate at a more rapid pace, while South Korea announced some anti-inflationary measures, including a 10 percent reduction in the tax on gasoline and other oil products and a freeze of public services and transportation fees. On February 1, Taiwan decided to extend for another six months a measure enacted last year to keep lower tariff rates on several farm products.

<sup>&</sup>lt;sup>1</sup> Newly-industrialized economies: Hong Kong, South Korea, Singapore, and Taiwan

# NIEs Economic Indicators: Growth (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007		20	07		2008
indicator	2006	2007	Q3	Q4	Nov.	Dec.	Jan.
Real GDP <sup>1</sup>							
Hong Kong	7.2	n.a.	5.8	n.a.			
Korea	4.0	5.7	5.4	6.3			
Singapore	7.0	5.5	5.1	-4.8			
Taiwan	4.0	6.4	11.3	2.5			
Industrial production							
Hong Kong	2.4	n.a.	-1.6	n.a.			
Korea	8.8	7.0	2.5	3.2	.2	2	2.5
Singapore	11.9	5.9	5.0	-7.2	3.1	-2.7	9.9
Taiwan	5.0	8.1	3.1	1.3	-2.4	-2.1	5.7

<sup>1.</sup> Annual rate. Annual data are Q4/Q4. n.a. Not available. ... Not applicable.

# NIEs Economic Indicators: Merchandise Trade Balance (Billions of U.S. dollars, s.a.a.r.)

Indicator	2006 2007			2007	2008		
	2000	2007	Q3	Q4	Dec.	Jan.	Feb.
Hong Kong	-17.9	-23.5	-27.7	-29.6	-23.7	-20.8	n.a.
Korea	27.9	29.4	39.9	23.2	17.1	-9.8	n.a.
Singapore	33.1	36.1	41.2	25.0	18.1	39.8	n.a.
Taiwan	11.6	16.8	18.4	22.1	7.1	7.4	6.2

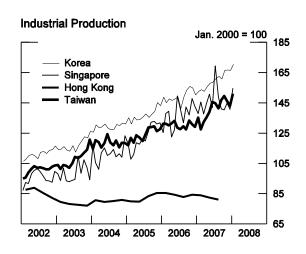
n.a. Not available.

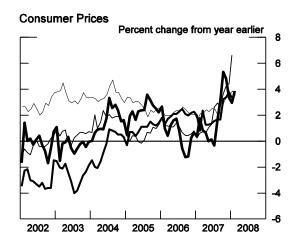
# NIEs Economic Indicators: CPI Inflation (Percent change from year earlier, except as noted)

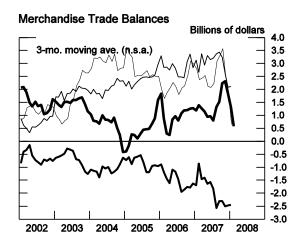
Indicator	2006¹	20071		2007	2008		
mulcator	2000	2007	Q3	Q4	Dec.	Jan.	Feb.
Hong Kong	2.3	3.8	1.6	3.5	3.8	3.0	n.a.
Korea	2.1	3.6	2.3	3.4	3.6	3.9	3.6
Singapore	.8	4.4	2.7	4.1	4.4	6.6	n.a.
Taiwan	.7	3.3	1.5	4.5	3.3	3.0	3.9

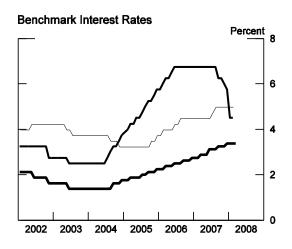
<sup>1.</sup> Percent change from year-earlier period, except annual data, which are Dec./Dec n.a. Not available.

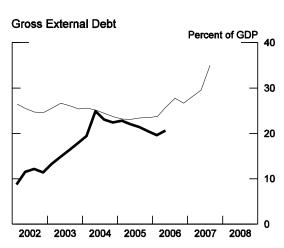
### **NIEs**

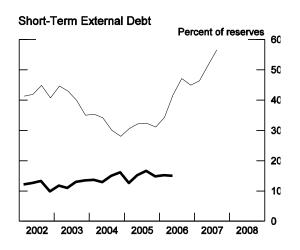












Data from the **ASEAN-4** region indicate that economic growth slowed in Indonesia and Malaysia but picked up in the Philippines and Thailand in the fourth quarter. Despite weakening demand in Europe and the United States, economic indicators have generally remained robust in the first quarter of 2008, as a result of strengthening domestic consumption and increased regional trade. Industrial production, on average, picked up due to inventory buildup in Malaysia and expansion in the electronics industry in the Philippines and Thailand.

Across the region, increased food and energy prices continued to push consumer price inflation higher, prompting governments to adopt new measures to control inflation. On February 1, the Indonesian government introduced progressive export taxes on palm oil, and subsidies for prices of soybeans, in addition to the already in-effect subsidies on fuel and rice prices. The Philippines' Central Bank lowered interest rates ½-percentage point in January. In other countries, policy rates were kept on hold to contain inflationary pressures, despite increasing interest rate differentials vis-à-vis the U.S. policy rate. On February 13, Malaysian Prime Minister Badawi announced the dissolution of parliament. The new elections were held on March 8. The ruling Barisan Nasional (BN) coalition won 63 percent of parliamentary seats, down from its previous 90 percent, and falling short of a two-thirds majority. Abdullah Badawi will continue as Prime Minister. Although BN maintained a simple majority, the results are interpreted by political analysts as a setback for BN and a vote against the government's recent handling of such sensitive issues as racial tension and inflation. On March 3, Thailand's central bank eliminated capital control measures instituted in 2006 during the military junta rule.

# ASEAN-4 Economic Indicators: Growth (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007		20	07		2008
maicator	2006	2007	Q3	Q4	Nov.	Dec.	Jan.
Real GDP <sup>1</sup>							
Indonesia	5.9	6.2	9.3	5.7			
Malaysia	5.8	7.4	8.9	8.1			
Philippines	5.5	7.3	4.0	7.4			
Thailand	4.3	5.8	6.1	7.3			
Industrial production²							
Indonesia <sup>3</sup>	-1.6	5.3	.2	.2	6.2	-1.6	n.a.
Malaysia	4.7	2.2	.8	1.6	4.6	1.4	.6
Philippines	-9.9	-4.4	1.0	-1.5	3	2.7	n.a.
Thailand	7.4	8.2	4.7	3.8	1.3	6	2.3

- 1. Annual rate. Annual data are Q4/Q4.
- 2. Annual data are annual averages.
- 3. Staff estimate.
- n.a. Not available. ... Not applicable.

**ASEAN-4 Economic Indicators: Merchandise Trade Balance** (Billions of U.S. dollars, s.a.a.r.)

Indicator	2006	2007		20	07		2008
mulcator	2006	2007	Q3	Q4	Nov.	Dec.	Jan.
Indonesia	39.7	39.6	37.5	36.7	34.9	38.3	42.6
Malaysia	29.5	29.2	33.2	28.1	27.4	30.5	35.1
Philippines	-4.4	-5.0	-8.0	-9.5	-13.6	-9.4	n.a.
Thailand	1.0	12.0	7.1	11.9	18.2	5.7	12.6

n.a. Not available.

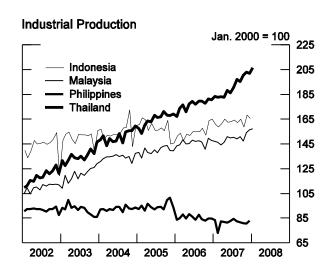
ASEAN-4 Economic Indicators: CPI Inflation (Percent change from year earlier, except as noted)

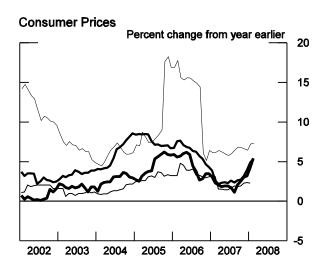
Indicator	20061	20061 20071		2007	20	08	
Indicator	2000	2007	Q3	Q4	Dec.	Jan.	Feb.
Indonesia	6.5	6.5	6.5	6.7	6.5	7.3	7.4
Malaysia	3.1	2.4	1.8	2.2	2.4	2.3	n.a.
Philippines	4.3	3.9	2.5	3.3	3.9	4.9	5.4
Thailand	3.5	3.2	1.6	2.9	3.2	4.3	5.4

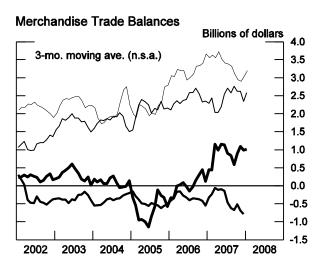
<sup>1.</sup> Dec./Dec.

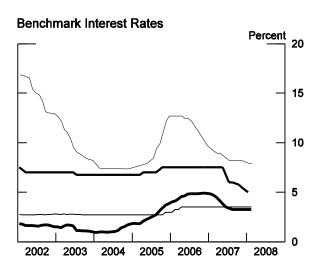
n.a. Not available.

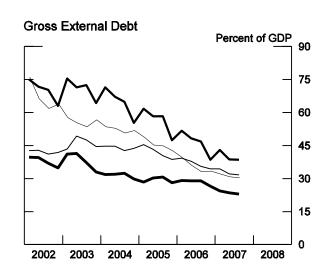
# **ASEAN-4**

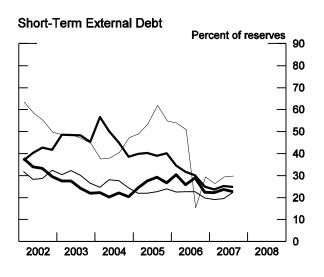












Real GDP for **Mexico** increased 3 percent (a.r.) in the fourth quarter, more than most analysts had anticipated. The increase was largely driven by the services sector, while manufacturing continued to show signs of moderation. The Mexican government met its fiscal target of a balanced budget in 2007, as rising oil and non-oil revenues supported an increase in government expenditures. Headline inflation ticked down to 3.7 percent in January, below the upper limit of the central bank's target range. However, core inflation readings continue to be elevated, with large increases in the housing sector price index.

**Mexican Economic Indicators** (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007		2007		20	08
Indicator	2006	2007	Q3	Q4	Dec.	Jan.	Feb.
Real GDP <sup>1</sup>	4.3	3.8	5.3	3.0			
Overall economic							
activity	5.0	3.2	1.5	.3	1	n.a.	n.a.
Industrial production	5.1	1.3	.7	.0	1	n.a.	n.a.
Unemployment rate <sup>2</sup>	3.6	3.7	3.6	3.8	3.8	3.8	n.a.
Consumer prices <sup>3</sup>	4.1	3.8	4.0	3.8	3.7	3.7	3.7
Merch. trade balance⁴	-6.1	-11.2	-11.4	-6.2	-9.6	-19.9	n.a.
Merchandise imports <sup>4</sup>	256.1	283.2	292.1	294.7	300.9	314.5	n.a.
Merchandise exports⁴	249.9	272.0	280.7	288.4	291.2	294.6	n.a.
Current account <sup>3</sup>	-2.1	-7.3	-5.3	-8.5			

- 1. Annual rate. Annual data are Q4/Q4.
- 2. Percent; counts as unemployed those working one hour a week or less.
- 3. Percent change from year-earlier period, except annual data, which are Dec./Dec.
- 4. Billions of U.S. dollars, annual rate.
  5. Billions of U.S. dollars, n.s.a., annual rate.
- n.a. Not available. ... Not applicable.

In **Brazil**, real GDP growth remained strong in the fourth quarter. January industrial production partially rebounded from its dip in December, bringing twelve-month growth to 73/4 percent. Strong domestic demand also continued to fuel rapid import growth, leading to a further narrowing of the trade surplus in January. Twelve-month inflation through January remained high at 5 percent, boosted by food prices. With capacity utilization rates still high and inflationary pressures from food and energy prices still a concern, at its March 6 monetary policy meeting the central bank unanimously voted to keep the target for the overnight interest rate, the Selic rate, at 11½ percent. The target has remained at that level since last September.

### **Brazilian Economic Indicators** (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007		2007		20	08
	2006		Q3	Q4	Dec.	Jan.	Feb.
Real GDP <sup>1</sup>	4.9	6.1	7.4	6.6			
Industrial production	2.8	6.0	1.7	1.9	8	1.8	n.a.
Unemployment rate <sup>2</sup>	10.0	9.3	9.2	8.5	8.5	8.4	n.a.
Consumer prices <sup>3</sup>	3.3	4.5	4.2	4.3	4.5	4.5	4.6
Merch. trade balance⁴	46.5	40.0	33.0	33.9	32.5	30.8	19.2
Current account <sup>5</sup>	13.6	3.3	3.8	-7.0	-4.6	-50.8	n.a.

- 1. Annual rate. Annual data are Q4/Q4.
- 2. Percent.
- 3. Percent change from year-earlier period, except annual data, which are Dec./Dec. Price index is IPCA.
  4. Billions of U.S. dollars, annual rate.

  - 5. Billions of U.S. dollars, n.s.a., annual rate.
  - n.a. Not available. ... Not applicable.

External and domestic factors continue to support growth in **Argentina**. The increase in agricultural commodity prices has provided strong stimulus to agricultural production and exports. The overall trade surplus increased further in the fourth quarter. Domestic demand remains strong, primarily consumption and residential investment. Consumer price inflation moderated to a still-elevated rate of 8.2 percent in January. The figure reported by the national statistical office, though, was once again below market expectations. Allegations that the authorities understate the rate of inflation continue.

**Argentine Economic Indicators** (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007	2007			2008	
			Q3	Q4	Dec.	Jan.	Feb.
Real GDP <sup>1</sup>	8.5	n.a.	11.8	n.a.			
Industrial production	8.4	7.5	2.2	4.1	.2	.5	n.a.
Unemployment rate <sup>2</sup>	10.2	8.5	8.1	7.5			
Consumer prices <sup>3</sup>	9.7	8.4	8.7	8.4	8.4	8.2	8.4
Merch. trade balance <sup>4</sup>	12.3	11.2	7.1	15.8	21.0	17.0	n.a.
Current account <sup>5</sup>	8.1	n.a.	3.2	n.a.			

- 1. Annual rate. Annual data are Q4/Q4.
- 2. Percent; n.s.a.
- 3. Percent change from year-earlier period, except annual data, which are Dec./Dec.
- 4. Billions of U.S. dollars, annual rate.
- 5. Billions of U.S. dollars, n.s.a., annual rate.
- n.a. Not available. ... Not applicable.

Real GDP for **Venezuela** increased 16 percent (s.a.a.r.) in the fourth quarter. Quarterly growth estimates should be viewed with great caution, however, and growth slowed last year on a four-quarter basis to about 8½ percent. Petroleum output was down by over 4 percent, reflecting managerial problems at the government-owned PDVSA and the hostile environment for foreign investors. In early February, a UK court issued an injunction that freezes up to \$12 billion in PDVSA assets held abroad until the Venezuelan government reaches a settlement with Exxon Mobil for last year's government takeovers of energy projects. Chavez reacted to the move by halting shipments to Exxon Mobil. Inflation reached 24 percent in January on a twelve-month basis.

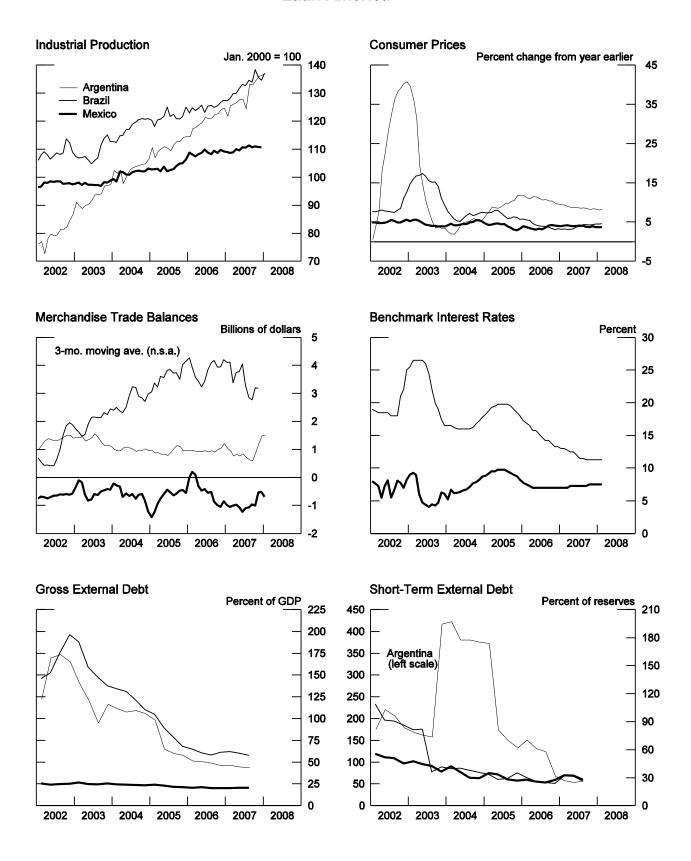
Despite the high price of oil, the current account surplus narrowed \$7.1 billion in 2007, as import growth was very strong, fueled by loose macro policies and the below-market official exchange rate.

Venezuelan Economic Indicators (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007	2007			2008	
			Q3	Q4	Dec.	Jan.	Feb.
Real GDP <sup>1</sup>	11.4	8.5	12.0	16.1			
Unemployment rate <sup>2</sup>	10.0	8.5	8.5	7.3	7.3	8.7	n.a.
Consumer prices <sup>3</sup>	17.0	22.5	16.1	20.1	22.4	24.1	25.3
Non-oil trade balance <sup>4</sup>	-22.9	-34.3	-37.1	-40.0			
Merch. trade balance <sup>4</sup>	32.7	23.7	21.4	27.9			
Current account <sup>5</sup>	27.1	20.0	23.6	20.2			

- 1. Annual rate. Annual data are Q4/Q4.
- 2. Percent.
- 3. Percent change from year-earlier period, except annual data, which are Dec./Dec.
- 4. Billions of U.S. dollars, annual rate.5. Billions of U.S. dollars, n.s.a., annual rate.
- n.a. Not available. ... Not applicable.

### **Latin America**



In **Turkey**, third-quarter real GDP contracted due to significant cuts in government spending and a drop in exports. Incoming data suggest that growth rebounded in the fourth quarter. Average industrial production for the fourth quarter was up 3.7 percent. Twelve-month consumer price inflation has continued to be hoisted by food and energy prices in recent months, reaching 9.1 percent in February, significantly higher than the upper limit of the central bank's year-end target of 4 percent +/- 2 percentage points. Nonetheless, having loosened policy for six consecutive months, in February, the Monetary Policy Committee further cut the borrowing and lending rates 25 basis points to 15½ percent and to 19½ percent, respectively. The Monetary Policy Committee indicated that the lagged effects of previous monetary tightening coupled with weak aggregate demand will continue to support disinflation in the medium term.

**Turkish Economic Indicators** (Percent change from previous period, s.a., except as noted)

Indicator	2006	2007	2007			2008	
			Q3	Q4	Dec.	Jan.	Feb.
Real GDP <sup>1</sup>	5.7	n.a.	-12.7	n.a.			
Industrial production	5.9	5.4	1	3.8	-15.0	n.a.	n.a.
Consumer prices <sup>2</sup>	9.7	8.4	7.1	8.2	8.4	8.2	9.1
Merch. trade balance <sup>3</sup>	-54.1	-62.9	-65.6	-72.8	-72.4	-82.4	n.a.
Current account <sup>4</sup>	-32.2	-38.0	-27.5	-46.8	-61.8	n.a.	n.a.
Unemployment rate <sup>5</sup>	9.8	9.9	10.0	10.0			

<sup>1.</sup> Annual rate. Annual data are Q4/Q4.

<sup>2.</sup> Percent change from year-earlier period, except annual data, which are Dec./Dec. 3. Billions of U.S. dollars, annual rate. Imports are c.i.f.

<sup>4.</sup> Billions of U.S. dollars, n.s.a., annual rate.

<sup>5.</sup> Percent

n.a. Not available. ... Not applicable.