

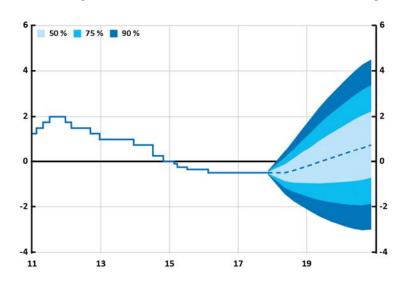








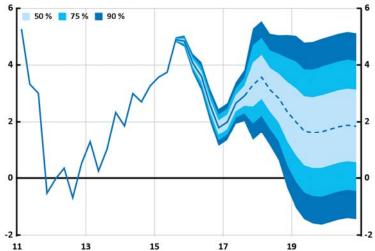
Figure 1.1. Repo rate with uncertainty bands



 $Note. \ The \ uncertainty \ bands \ for \ the \ repo \ rate \ are \ based \ on \ the \ Riksbank's \ historical \ for exasting \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ the \ ability \ of \ historical \ for \ errors \ and \ historical \ for \ errors \ e$ $risk-premium\ adjusted\ forward\ rates\ to\ forecast\ the\ future\ repo\ rate\ for\ the\ period\ 1999\ up\ to\ the\ point\ when\ the\ Riksbank$ started to publish forecasts for the repo rate during 2007. The uncertainty bands do not take into account the fact that there may be a lower bound for the repo rate. Outcomes are daily rates and forecasts refer to quarterly averages.

Source: The Riksbank

Figure 1.2. GDP with uncertainty bands Annual percentage change, seasonally-adjusted data

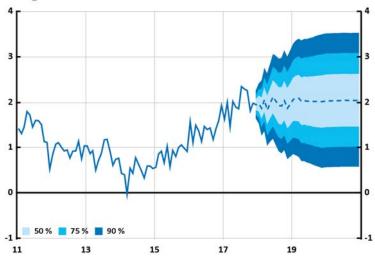


Note. The uncertainty bands are based on the Riksbank's historical forecasting errors. There is also uncertainty for the outcomes for GDP, as the figures in the National Accounts are revised several years after the preliminary publication.



Figure 1.3. CPIF with uncertainty bands

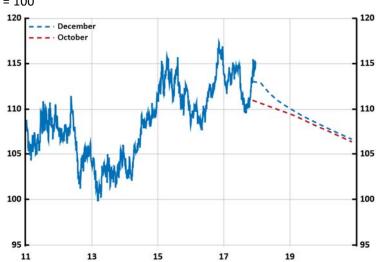
Annual percentage change



Note. The uncertainty bands are based on the Riksbank's historical forecasting errors.

Sources: Statistics Sweden and the Riksbank

Figure 1.4. KIX-weighted nominal exchange rate Index, 1992-11-18 = 100



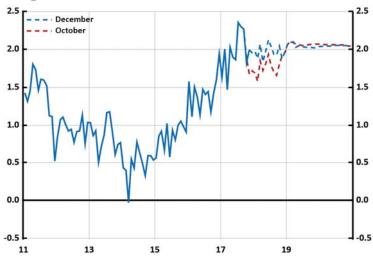
Note. Outcomes are daily rates and forecasts refer to quarterly averages. KIX refers to an aggregate of countries that are important for Sweden's international transactions.

Sources: National sources and the Riksbank





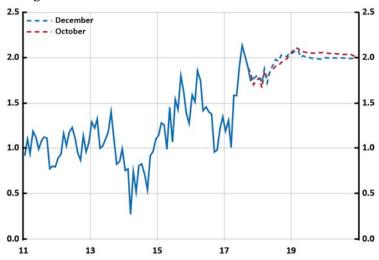
Figure 1.5. CPIF Annual percentage change



Sources: Statistics Sweden and the Riksbank



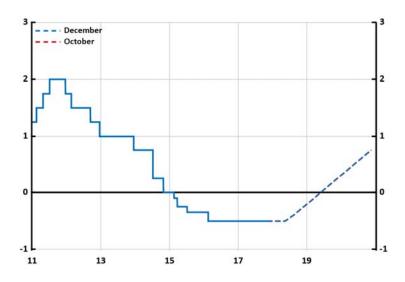
Figure 1.6. CPIF excluding energy Annual percentage change



 $Sources: \ Statistics \ Sweden \ and \ the \ Riksbank$



Figure 1.7. Repo rate

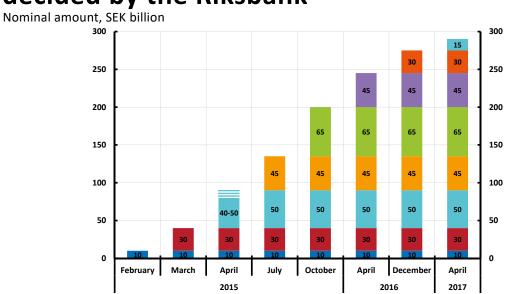


Note. Outcomes are daily data and the forecasts refer to quarterly averages.

Source: The Riksbank

Figure 1.8. Purchases of government bonds decided by the Riksbank





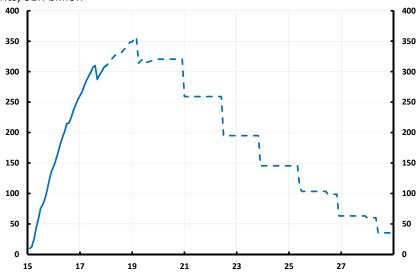
Note. Purchases of nominal and real government bonds, excluding reinvestments.

Source: The Riksbank



Figure 1.9. The Riksbank's holdings of government bonds Nominal amounts, SEK billion



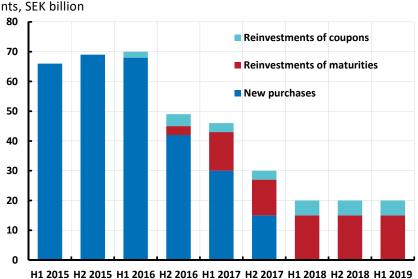


Note. The forecast is based on an assumption that reinvestments will continue to the end of 2019.

Source: The Riksbank

Figure 1.10. The Riksbank's purchases and reinvestments

Nominal amounts, SEK billion



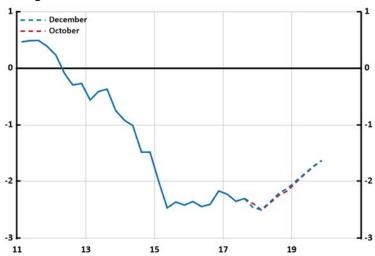
Note. The development for holdings and reinvestments from 2018 is a forecast and refers to nominal amounts. The final amounts will depend on current market prices.



Source: The Riksbank



Figure 1.11. Real repo rate Per cent, quarterly averages

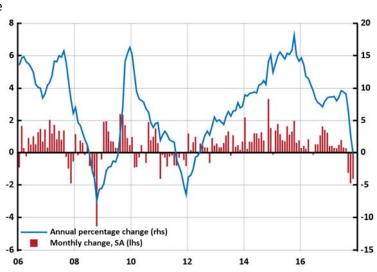


Note. The real repo rate is a mean value of the Riksbank's repo rate forecast for the year ahead minus the inflation forecast (CPIF) for the corresponding period.

Sources: Statistics Sweden and the Riksbank

Figure 1.12. House price developments according to HOX Sweden

Percentage change

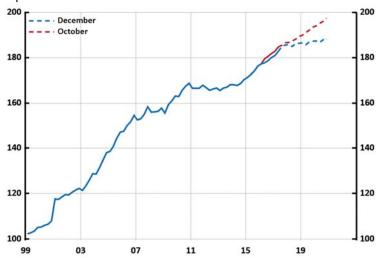




Sources: Valueguard and the Riksbank



Figure 1.13. Household debt Per cent of yearly disposable income



Note. Households' total debts as a share of their disposable incomes totalled over the past four quarters.

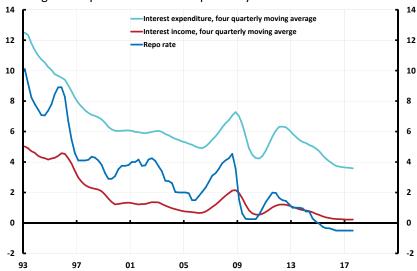






Figure 1.14. The repo rate, households' interest expenditure and interest income

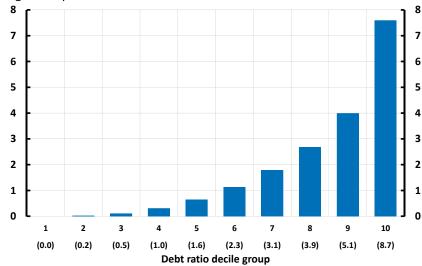
Per cent and percentage of disposable income respectively



Note. Interest income and expenditures are calculated before taxes and are not corrected for FISIM.

Sources: Statistics Sweden and the Riksbank

Figure 1.15. Cashflow effect for groups of households with different debt-to-income ratios when the rate rises by 1.25 percentage points Percentage change in disposable income



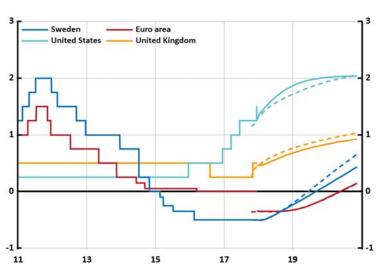
Note. The cashflow effect refers to the average for the respective decile group. The average debt-to-income ratio is stated in brackets. Source: The Riksbank





Figure 2.1. Policy rates and rate expectations according to forward rates

Per cent



Note. Forward rates describe the expected overnight rate, which does not always correspond to the policy rate (the main refinancing rate for the euro area). There is no published overnight rate in Sweden, but it normally follows the repo rate closely. Unbroken lines are estimated on 18 December 2017, broken lines are estimated on 26 October 2017.

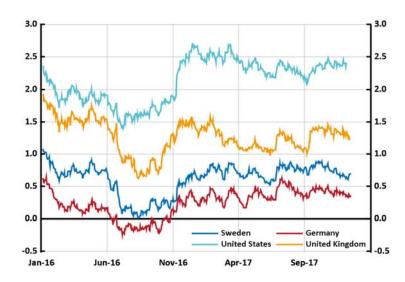


Sources: The national central banks, Thomson Reuters and the Riksbank



Figure 2.2. Government bond rates with 10 years left to maturity

Per cent

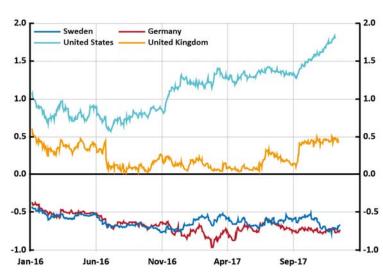


Note. Implied zero-coupon yields from government bonds.

Sources: The national central banks and the Riksbank

Figure 2.3. Government bond rates with 2 years left to maturity

Per cent



Note. Implied zero-coupon yields from government bonds.

Sources: The national central banks and the Riksbank







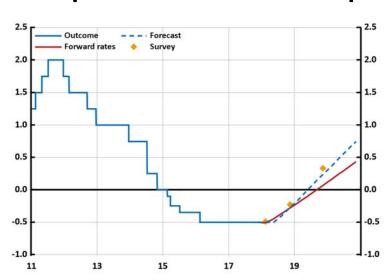
Index, 4 January 2016 = 100



Sources: Macrobond and Thomson Reuters

Figure 2.5. Repo rate and market expectations

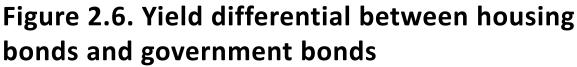
Per cent, average



Note. The forward rates are estimated as of 18 December 2017 and measure the expected repo rate. The survey responses show the average for money market participants on 13 December 2017.

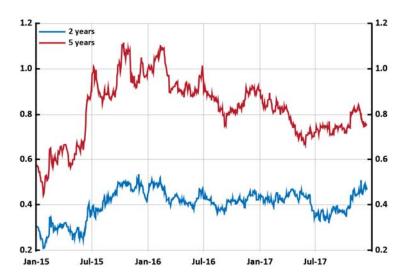
Sources: Macrobond, TNS Sifo Prospera and the Riksbank







Per cent

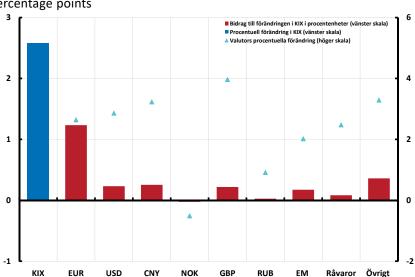


Note. Zero-coupon rates interpolated from bond prices using the Nelson-Siegel method.

Sources: Macrobond and the Riksbank

Figure 2.7. Changes to KIX and exchange rate

Per cent and percentage points



Note. The figure shows change in KIX and contributions from different currencies between 26 October and 18 December 2017. EM refers to Brazil, Hungary, India, Mexico, Poland and Turkey. Commodities refer to Australia, Canada and New Zeeland. Other refers to Czech Republic, Denmark, Iceland, Japan, South Korea and Switzerland.

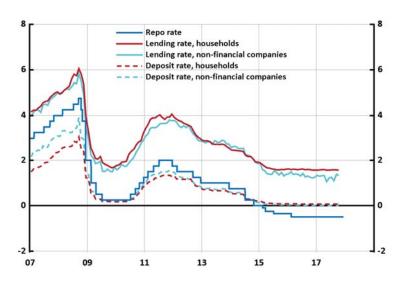
Source: Thomson Reuters and the Riksbank



Figure 2.8. Repo rate together with the deposit and lending rate to households and companies, new contracts



Per cent

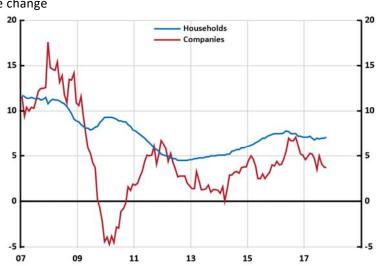


Note. MFIs' average deposit and lending rates for households and non-financial companies.

Sources: Statistics Sweden and the Riksbank

Figure 2.9. Bank lending to households and companies

Annual percentage change



SVERIGES RIKSBANK

Note. MFIs' lending to households and non-financial companies according to financial market statistics adjusted for reclassifications and traded loans since 2006.

Source: Statistics Sweden

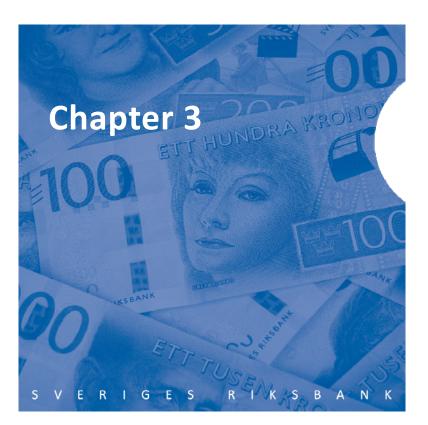




Figure 3.1. CPIF and variation band Annual percentage change



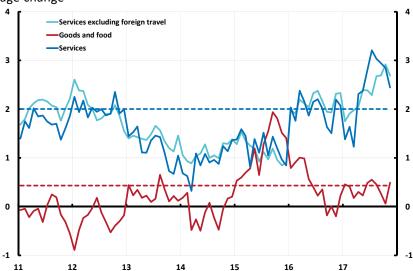
Note. The pink area shows the Riksbank's variation band and covers about three-quarters of outcomes since January 1995.







Annual percentage change



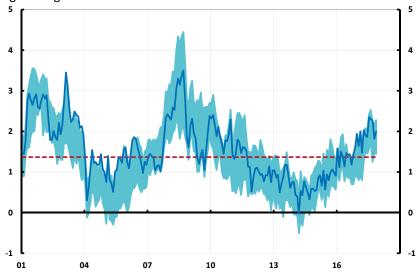
Note. Goods and foodstuffs is a combination of the aggregate goods and foodstuffs in the CPI. Together, these account for 45 per cent of the CPI. Service prices account for 45 per cent of the CPI. The broken lines represents the mean value since January 1995.

Sources: Statistics Sweden and the Riksbank

Figure 3.3. The CPIF and different measures of underlying inflation

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Annual percentage change

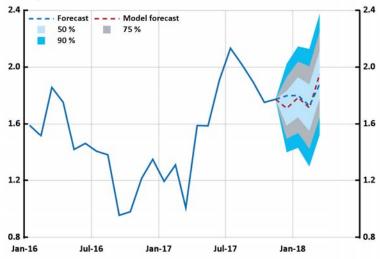


Note. The field shows the highest and lowest outcomes among different measures of underlying inflation. The measures included are the CPIF excluding energy, the CPIF with constant tax, UND24, Trim85, HICP excluding energy and non-refined foods, persistence-weighed inflation, factors from principal component analysis and weighted mean inflation. The broken line represents the mean value since January 2000 for all measures of underlying inflation.



Figure 3.4. CPIF excluding energy, model forecast with uncertainty bands

Annual percentage change

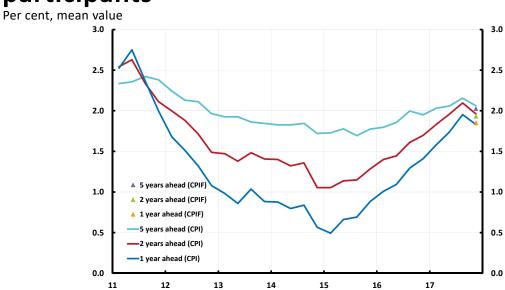


Note. The uncertainty bands are based on the models' historical forecast errors.

Sources: Statistics Sweden and the Riksbank

Figure 3.5. Inflation expectations among all participants

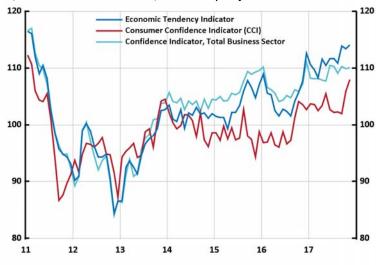
SVERIGES RIKSBANK



Source: TNS Sifo Prospera

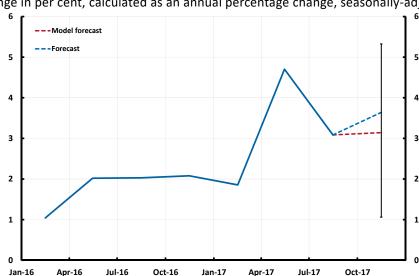


Figure 3.6. Confidence indicators Index, average = 100, standard deviation = 10, seasonally-adjusted data



Source: National Institute of Economic Research

Figure 3.7. Model forecast GDP with uncertainty bands Quarterly change in per cent, calculated as an annual percentage change, seasonally-adjusted data

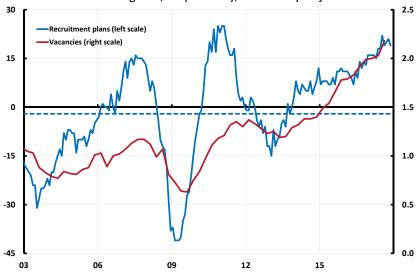


Note. The model forecast is a mean value of forecasts conducted using different statistical models. The vertical line refers to a 50-per cent uncertainty band. The uncertainty bands are based on the models' historical forecasting errors. One explanation for the breadth of the $\ensuremath{\mbox{\sc historical}}$ uncertainty band is the large variation in outcomes between various quarters





Figure 3.8. Vacancies and recruitment plans Per cent of the labour force and net figures, respectively, seasonally-adjusted data

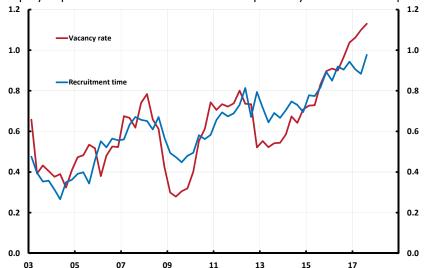


Note. Recruitment plans refer to expectations of the number of employed in the business sector three months ahead. The broken line represents the mean value since 2003.

Sources: The National Institute of Economic Research and Statistics Sweden

Figure 3.9. Recruitment time and vacancy rate in the business sector

Percentage of employed persons in the business sector respectively and months respectively

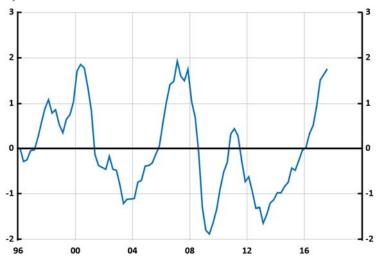


Note. The vacancy rate measures the percentage of unstaffed vacant positions that need to be filled immediately, in relation to the number of employees.





Figure 3.10 RU indicator Index, mean value=0, standard deviation=1



Source: The Riksbank









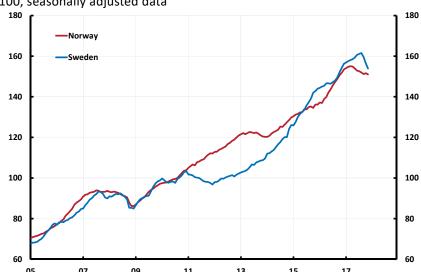


Note. KIX is an aggregate of the countries that are important to Sweden's international transactions.

Sources: Bureau of Economic Analysis, Eurostat, national sources, Office for National Statistics and the Riksbank

House prices in Sweden and Norway

Index, 2010 = 100, seasonally adjusted data

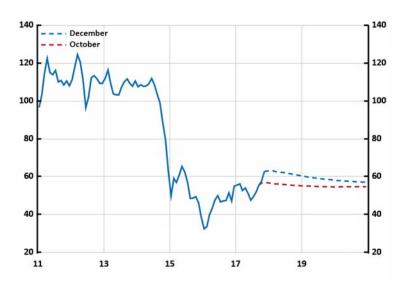


 $\label{thm:course} \textbf{Sources: Eigendom Norge, Valueguard and the Riksbank}$





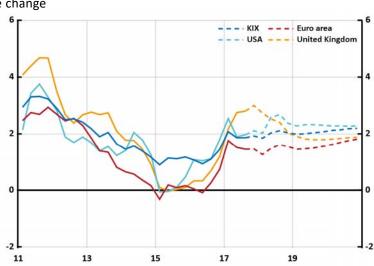
Figure 4.3. Price of crude oil USD per barrel



Note. Brent oil, forward rates are calculated as a 15-day average. The outcome refers to monthly averages of spot prices.

Sources: Macrobond and the Riksbank

Figure 4.4. Inflation in various countries and regions Annual percentage change



Note. KIX is an aggregate of the countries that are important to Sweden's international transactions.

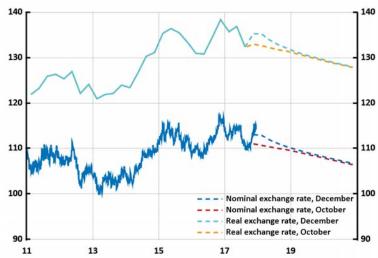
Sources: The Bureau of Labor Statistics, Eurostat, national sources, Office for National Statistics and the Riksbank







Index, 18 November 1992 = 100



Note. The real exchange rate has been deflated with the CPIF for Sweden and the CPI for the rest of the world. Outcomes are daily data for the nominal exchange rate, outcomes for the real exchange rate and forecasts refer to quarterly averages. The KIX is an aggregate of countries that are important for Sweden's international transactions.

Sources: National sources, Statistics Sweden and the Riksbank

Figure 4.6. GDP in SwedenQuarterly change in per cent, calculated as an annual percentage change, seasonally-adjusted data

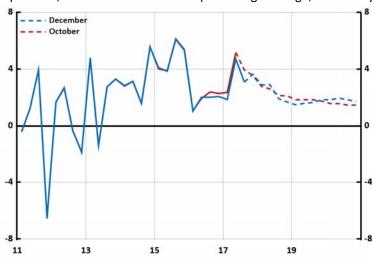
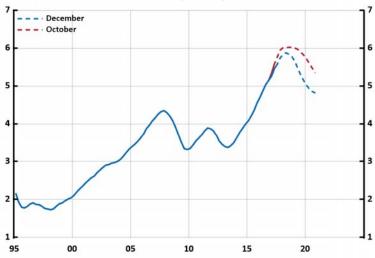




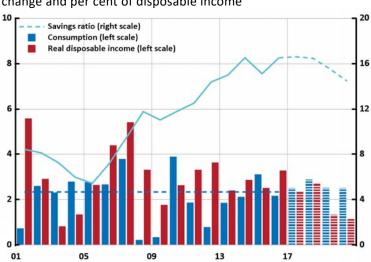


Figure 4.7. Housing investment Per cent of GDP, current prices, four quater moving average



Sources: Statistics Sweden and the Riksbank

Figure 4.8. Households' real disposable income, consumption and savings ratio Annual percentage change and per cent of disposable income

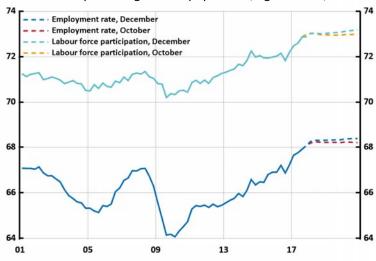




Note. Disposable income has been deflated using the household consumption deflator. Broken line is the average of growth in consumption 1994-2016.







Sources: Statistics Sweden and the Riksbank

Figure 4.10. Population growth, 15–74 years

Annual percentage change

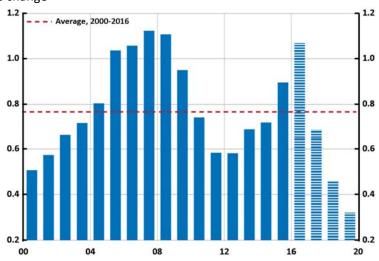
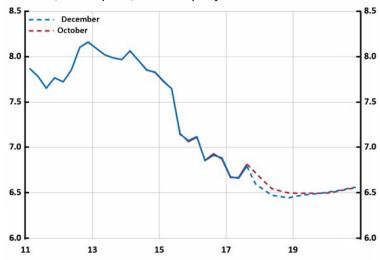






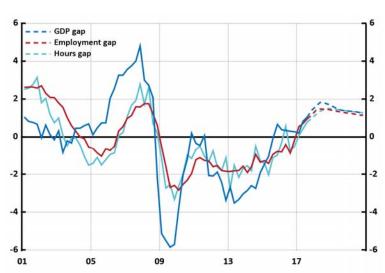
Figure 4.11. UnemploymentPer cent of the labour force, 15–74 years, seasonally-adjusted data



 $Sources: Statistics \ Sweden \ and \ the \ Riksbank$

Figure 4.12. GDP gap, employment gap and hours gap

Per cent



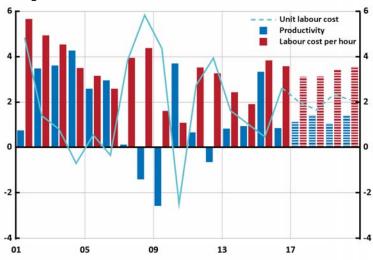
Note. The gaps refer to the deviation in GDP, the number of hours worked and the number of those employed from the Riksbank's assessed trends.







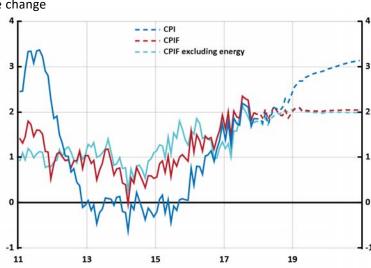
Annual percentage change



Sources: Statistics Sweden and the Riksbank

Figure 4.14. CPI, CPIF and CPIF excluding energy

Annual percentage change





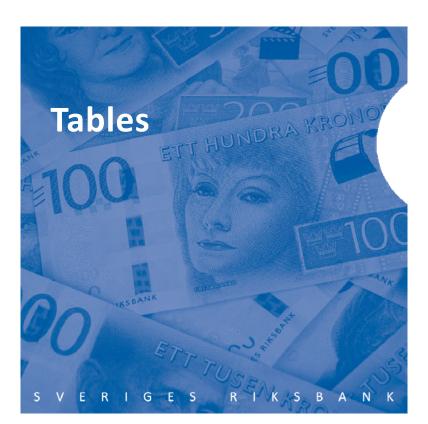




Table 1. Repo rate forecast

Per cent, quarterly averages

,,						
	Q3 2017	Q4 2017	Q1 2018	Q4 2018	Q4 2019	Q4 2020
Repo rate	-0.5	-0.5 (-0.5)	-0.5 (-0.5)	-0.3 (-0.3)	0.2 (0.2)	0.8 (0.8)

Source: The Riksbank

Table 2. Inflation

Annual percentage change, annual average

	2016	2017	2018	2019	2020
CPIF	1.4	2.0 (1.9)	2.0 (1.8)	2.0 (2.1)	2.0 (2.1)
CPIF excl. energy	1.4	1.7 (1.7)	1.9 (1.9)	2.0 (2.1)	2.0 (2.0)
СРІ	1.0	1.8 (1.8)	2.0 (1.9)	2.8 (2.8)	3.1 (3.1)
HICP	1.1	1.9 (1.8)	1.9 (1.7)	2.0 (1.9)	1.9 (1.9)

Note. The CPIF is the CPI with a fixed mortgage rate. HICP is an EU harmonised index of consumer prices. Sources: Statistics Sweden and the Riksbank

Table 3. Summary of financial forecasts

Per cent, unless otherwise stated, annual average

	2016	2017	2018	2019	2020			
Repo rate	-0.5	-0.5 (-0.5)	-0.4 (-0.4)	0.0 (0.0)	0.6 (0.6)			
10-year rate	0.5	0.7 (0.8)	1.1 (1.3)	1.9 (2.0)	2.5 (2.6)			
Exchange rate, KIX, 18 November 1992 = 100	111.7	112.9 (112.3)	111.5 (110.2)	109.1 (108.7)	107.3 (107.0)			
General government net lending*	1.2	1.2 (1.2)	0.8 (0.9)	0.9 (1.0)	0.8 (0.9)			

* Per cent of GDP





Table 4. International conditions

Annual percentage change, unless otherwise stated

GDP	PPP-weights	KIX-weights	2016	2017	2018	2019	2020
Euro area	0.12	0.47	1.8	2.4 (2.2)	2.4 (2.1)	1.8 (1.7)	1.6 (1.5)
USA	0.15	0.08	1.5	2.3 (2.1)	2.5 (2.4)	2.1 (2.1)	2.0 (2.0)
Japan	0.04	0.02	0.9	1.8 (1.6)	1.3 (1.1)	0.8 (0.8)	0.3 (0.4)
China	0.18	0.08	6.7	6.8 (6.8)	6.2 (6.2)	6.1 (6.1)	6.1 (6.1)
KIX-weighted	0.75	1.00	2.1	2.8 (2.7)	2.7 (2.5)	2.3 (2.3)	2.2 (2.2)
World (PPP-weighted)	1.00	-	3.2	3.7 (3.6)	3.7 (3.7)	3.7 (3.7)	3.7 (3.7)

Note. Calendar-adjusted growth rates. The PPP-weights refer to the global purchasing-power adjusted GDP-weights, according to the IMF. The Riksbank updates the weights for the KIX krona index at the start of every year with a time lag of three years. The figures in the table are based on the new KIX weights for 2014 that are used for 2017, and on an assumption that the weights will develop according to the trend of the past five years in the coming forecast years.

СРІ	2016	2017	2018	2019	2020
Euro area (HICP)	0.2	1.5 (1.5)	1.5 (1.3)	1.5 (1.6)	1.7 (1.8)
USA	1.3	2.1 (2.2)	2.4 (2.4)	2.3 (2.4)	2.3 (2.3)
Japan	-0.1	0.4 (0.5)	0.9 (1.0)	1.5 (1.5)	2.0 (1.9)
KIX-weighted	1.1	1.9 (1.9)	2.0 (1.9)	2.0 (2.1)	2.2 (2.2)
	2016	2017	2018	2019	2020

Policy rates in the rest of the world, per cent -0.1 -0.1 (-0.1) 0.1 (0.0) 0.2 (0.3) 0.6 (0.6) Crude oil price, USD/barrel Brent 45.1 54.7 (53.6) 61.8 (55.7) 59.1 (54.8) 57.4 (54.6) Swedish export market 3.5 5.2 (5.4) 4.3 (3.9) 3.9 (3.9) 3.8 (3.8)

Note. Policy rates in the rest of the world refer to a weighted average of USA, the euro area, Norway and the United Kingdom. Sources: Eurostat, IMF, Intercontinental Exchange, national sources, OECD and the Riksbank



Table 5. GDP by expenditure

Annual percentage change, unless otherwise stated

	2016	2017	2018	2019	2020
Private consumption	2.2	2.5 (2.5)	2.9 (3.0)	2.5 (2.6)	2.5 (2.2)
Public consumption	3.1	0.4 (0.4)	1.4 (1.5)	1.0 (0.9)	1.2 (1.1)
Gross fixed capital formation	5.6	7.3 (7.8)	4.7 (4.1)	0.7 (2.2)	2.0 (1.6)
Inventory investment*	0.0	-0.1 (0.0)	-0.1 (0.0)	0.0 (0.0)	0.0 (0.0)
Exports	3.3	3.5 (3.4)	4.8 (4.6)	3.8 (3.6)	4.0 (4.1)
Imports	3.4	5.1 (4.4)	5.0 (4.5)	3.8 (4.0)	4.1 (4.1)
GDP	3.2	2.5 (2.9)	2.9 (2.9)	1.7 (2.0)	2.1 (1.9)
GDP, calendar-adjusted	3.0	2.7 (3.1)	3.0 (3.1)	1.7 (2.0)	1.8 (1.6)
Final figure for domestic demand*	3.1	3.0 (3.1)	2.8 (2.7)	1.5 (1.9)	1.9 (1.7)
Net exports*	0.1	-0.4 (-0.2)	0.1 (0.2)	0.2 (0.0)	0.1 (0.2)
Current account (NA), per cent of GDP	5.1	4.6 (4.8)	4.3 (4.8)	4.3 (4.7)	4.2 (4.6)

^{*}Contribution to GDP growth, percentage points

Note. The figures show actual growth rates that have not been calendar-adjusted, unless otherwise stated. NA is the National Accounts.



Annual percentage change, unless otherwise stated

Artificial percentage change, unless otherwise stated								
	2016	2017	2018	2019	2020			
Population, aged 15–74	0.9	1.1 (1.1)	0.7 (0.7)	0.5 (0.5)	0.3 (0.3)			
Potential hours worked	0.9	0.8 (0.7)	0.7 (0.6)	0.6 (0.5)	0.5 (0.4)			
GDP, calendar-adjusted	3.0	2.7 (3.1)	3.0 (3.1)	1.7 (2.0)	1.8 (1.6)			
Number of hours worked, calendar-adjusted	2.1	1.6 (1.5)	1.5 (1.6)	0.7 (0.6)	0.4 (0.3)			
Employed, aged 15–74	1.5	2.3 (2.3)	1.3 (1.2)	0.5 (0.5)	0.4 (0.3)			
Labour force, aged 15–74	1.0	2.0 (2.0)	1.1 (1.0)	0.5 (0.4)	0.5 (0.4)			
Unemployment, aged 15–74 *	6.9	6.7 (6.7)	6.5 (6.5)	6.5 (6.5)	6.5 (6.5)			

^{*} Per cent of the labour force

Note. Potential hours refer to the long-term sustainable level for the number of hours worked according to the Riksbank's assessment. Sources: Statistics Sweden and the Riksbank

Table 7. Wages and labour costs for the economy as a whole

 $\label{percentage} Annual\ percentage\ change,\ calendar-adjusted\ data\ unless\ otherwise\ stated$

	2016	2017	2018	2019	2020
Hourly wage, NMO	2.4	2.7 (2.7)	3.0 (3.1)	3.3 (3.3)	3.4 (3.4)
Hourly wage, NA	2.2	3.1 (3.2)	3.1 (3.2)	3.3 (3.4)	3.4 (3.5)
Employers' contribution*	0.7	0.0 (0.2)	0.0 (0.0)	0.1 (0.1)	0.1 (0.1)
Hourly labour cost, NA	3.0	3.1 (3.4)	3.1 (3.3)	3.4 (3.5)	3.6 (3.6)
Productivity	0.9	1.1 (1.6)	1.4 (1.5)	1.1 (1.4)	1.4 (1.3)
Unit labour cost	2.6	2.0 (1.9)	1.7 (1.8)	2.3 (2.1)	2.1 (2.3)

 $[\]ensuremath{^{\bullet}}$ Contribution to the increase in labour costs, percentage points

Note. NIMO is the National Mediation Office's short-term wage statistics and NA is the National Accounts. Labour cost per hour is defined as the sum of actual wages, social-security charges and wage taxes (labour cost sum) divided by the number of hours worked by employees. Unit labour cost is defined as labour cost sum divided by GDP in fixed prices. Sources: National Mediation Office, Statistics Sweden and the Riksbank

