The Australian Economy and Financial Markets

Chart Pack September 2015



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Contents

Graphs

World Economy	1–3
Australian GDP Growth and Inflation	4
Household Sector	5–6
Business Sector	7–8
Credit and Money	9
Factors of Production and Labour Market	10–11
Regions and Industry	12–13
Government	14
Commodity Prices	15
Balance of Payments and External Position	16–17
Interest Rates	18–22
Share Markets	23-24
Bond Issuance	25
Equity Raisings and Business Financing	26
Exchange Rates	27–28
Banking Indicators	29-30



World Economy

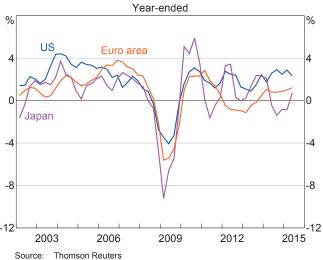
GDP Growth - World



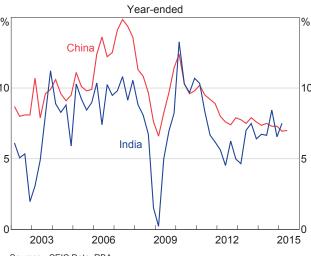
- Weighted using Australian export shares
- ** PPP-weighted; accounts for 85 per cent of world GDP

Sources: ABS; CEIC Data; IMF; RBA; Thomson Reuters

GDP Growth - Advanced Economies

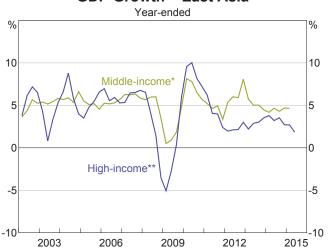


GDP Growth - China and India



Sources: CEIC Data; RBA

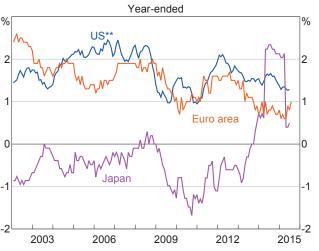
GDP Growth - East Asia



- Indonesia, Malaysia, Philippines and Thailand; PPP-weighted
- ** Hong Kong, Singapore, South Korea and Taiwan; PPP-weighted Sources: CEIC Data; IMF; RBA

World Economy

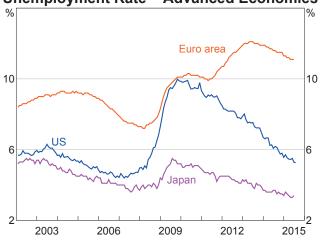
Core Inflation* - Advanced Economies



- * Excluding food and energy, and for the euro area also excluding alcohol and tobacco
- ** Core price index for personal consumption expenditures

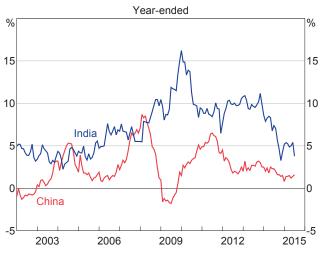
Source: Thomson Reuters

Unemployment Rate - Advanced Economies



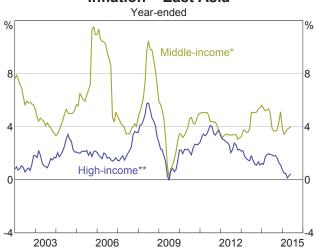
Source: Thomson Reuters

Inflation - China and India



Source: CEIC Data

Inflation - East Asia

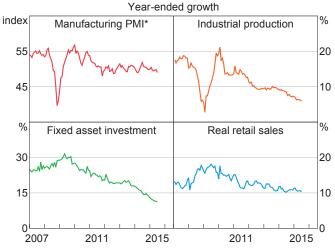


- * Indonesia, Malaysia, Philippines and Thailand; PPP-weighted
- ** Hong Kong, Singapore, South Korea and Taiwan; PPP-weighted Sources: CEIC Data; IMF; RBA; Thomson Reuters



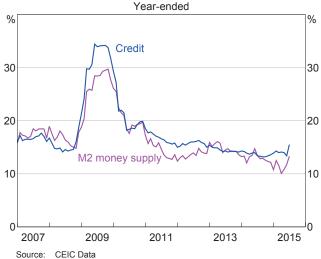
World Economy

China – Activity Indicators

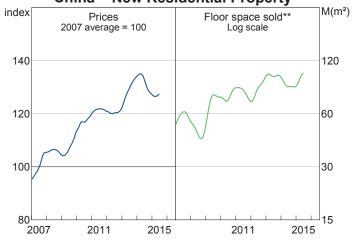


* Diffusion index; average of the official and Caixin Sources: CEIC Data; RBA

China – Credit and Money Supply Growth





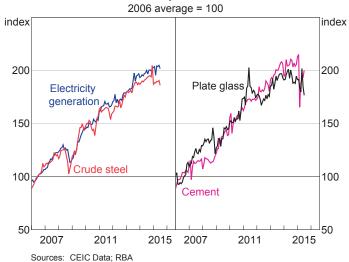


* RBA estimates

** Trend

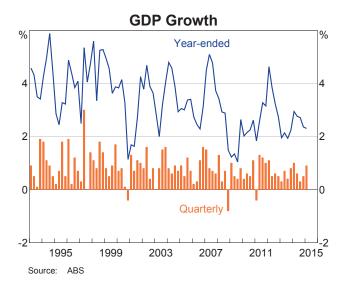
Sources: CEIC Data; RBA

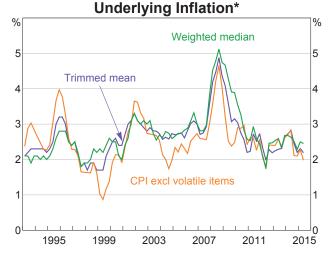
China – Output Indicators





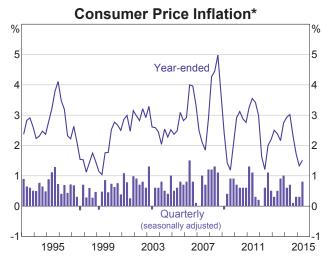
Australian GDP Growth and Inflation





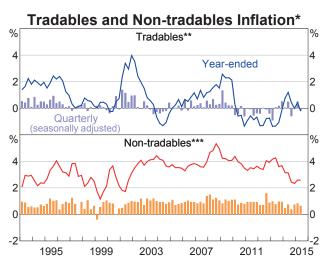
 Excluding interest charges prior to the September quarter 1998 and adjusted for the tax changes of 1999–2000

Sources: ABS; RBA



Excluding interest charges prior to the September quarter 1998 and adjusted for the tax changes of 1999–2000

Sources: ABS; RBA

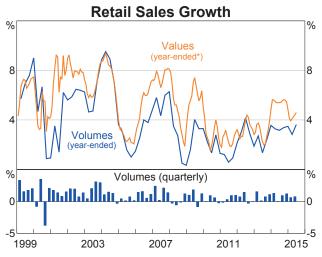


- * Adjusted for the tax changes of 1999–2000
- ** Excluding volatile items (fruit, vegetables & automotive fuel) and tobacco
- *** Excluding interest charges prior to the September quarter 1998 and deposit & loan facilities prior to the September quarter 2011

Sources: ABS; RBA

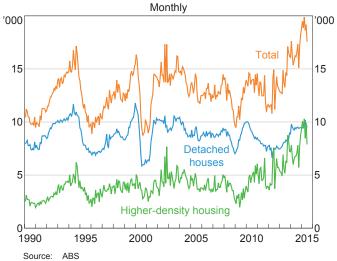


Household Sector

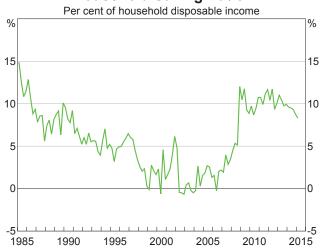


* Percentage change over year to latest three months

Private Residential Building Approvals



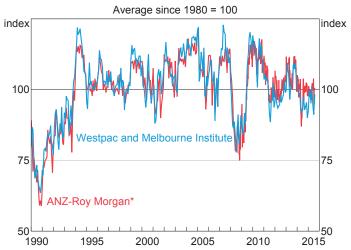
Household Saving Ratio*



Net of depreciation

Source: ABS

Consumer Sentiment



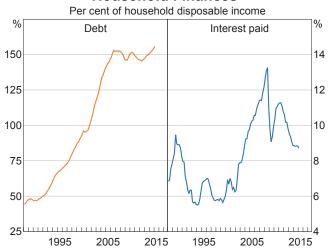
 Rescaled to have the same average as the Westpac and Melbourne Institute index since 1996

Sources: ANZ-Roy Morgan; RBA; Westpac and Melbourne Institute



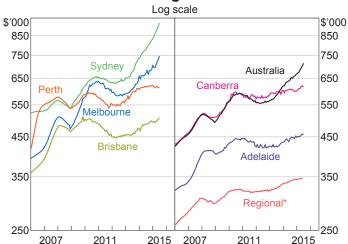
Household Sector

Household Finances*



* Household sector excludes unincorporated enterprises; disposable income is after tax and before the deduction of interest payments Sources: ABS; RBA

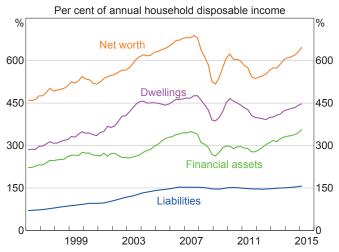
Housing Prices



 Excludes apartments; measured as areas outside of capital cities in mainland states

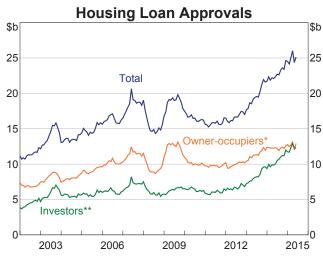
Sources: CoreLogic RP Data; RBA

Household Wealth and Liabilities*



Household liabilities exclude the liabilities of unincorporated enterprises; disposable income is after tax and before the deduction of interest payments

Sources: ABS; RBA

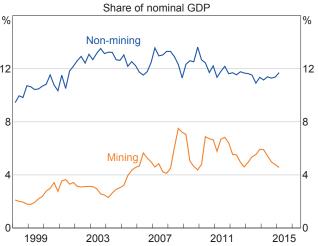


- * Excludes refinancing
- ** Includes refinancing

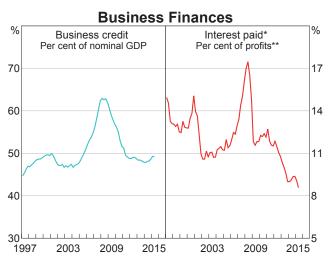
Sources: ABS; RBA

Business Sector

Private Non-financial Corporation Profits*

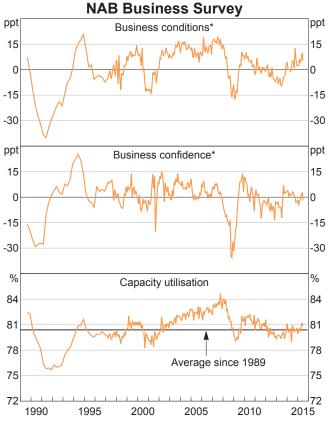


* Gross operating profits; inventory valuation adjusted Sources: ABS; RBA



- Interest on intermediated debt from Australian-domiciled financial institutions
- ** Profits are private non-financial gross operating surplus (adjusted for privatisations) and gross mixed income

Sources: ABS; APRA; RBA



* Net balance; deviation from average since 1989 Sources: NAB; RBA



Business Sector

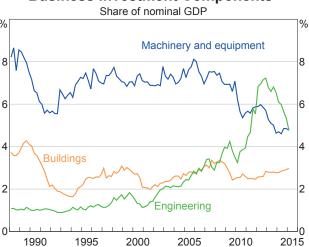
Business Investment*



 Adjusted for second-hand asset transfers between the private and other sectors

Source: ABS

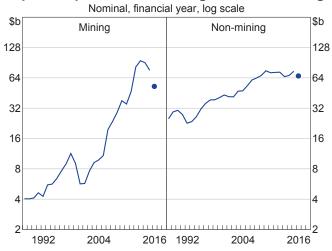
Business Investment Components*



 Adjusted for second-hand asset transfers between the private and other sectors

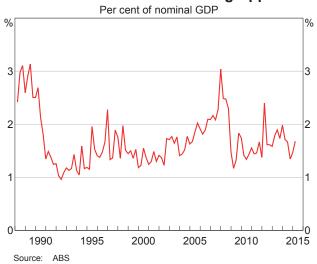
Source: ABS

Capital Expenditure - Mining and Non-mining*



* Sample of firms' spending plans; dots represent the survey's most recent estimates for 2015/16 adjusted for historical realised spending Sources: ABS; RBA

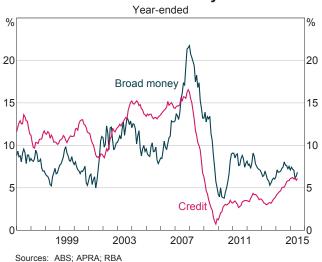
Private Non-residential Building Approvals



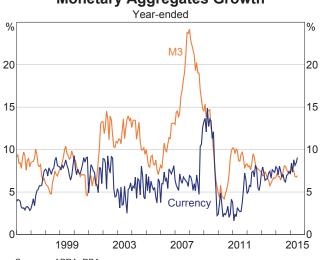


Credit and Money

Credit and Broad Money Growth



Monetary Aggregates Growth



Sources: APRA; RBA

Ratio to nominal GDP ratio ratio 1.4 1.1 0.8

Credit*

* Not adjusted for breaks Sources: ABS; APRA; RBA

1995

8.0

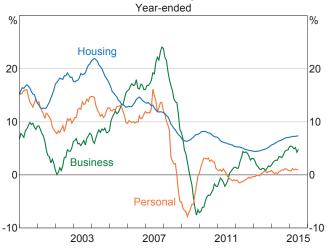
Credit Growth by Sector

2005

2010

2015

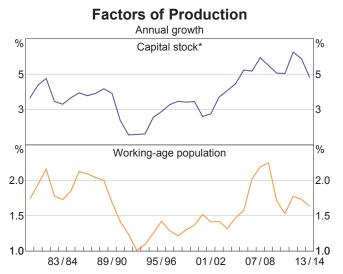
2000



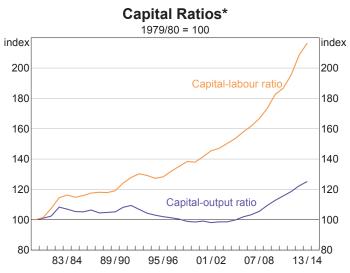
Sources: ABS; APRA; RBA



Factors of Production and Labour Market



* Excluding livestock & orchards, dwellings and ownership transfer costs Sources: ABS; RBA

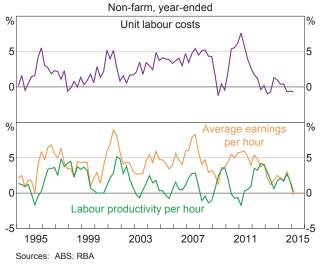


 Capital stock excludes livestock & orchards, dwellings and ownership transfer costs

Sources: ABS; RBA

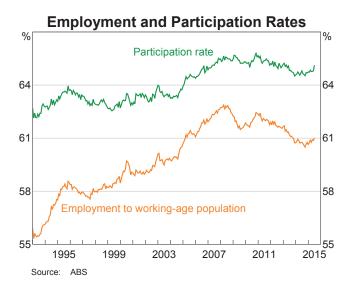


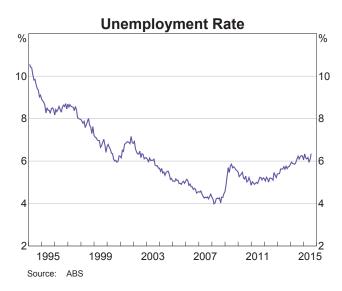




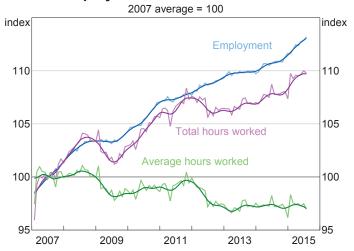


Factors of Production and Labour Market



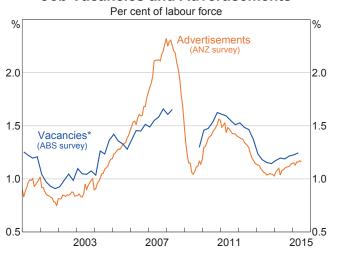


Employment and Hours Worked*



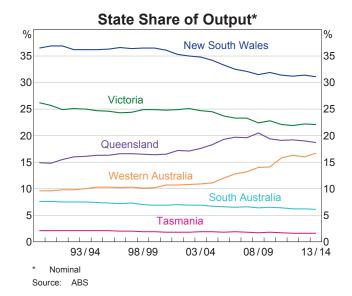
* Smoothed lines are 13-period Henderson trends Sources: ABS; RBA

Job Vacancies and Advertisements

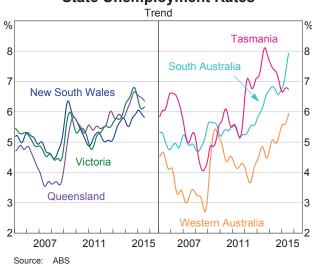


* This survey was suspended between May 2008 and November 2009 Sources: ABS; ANZ

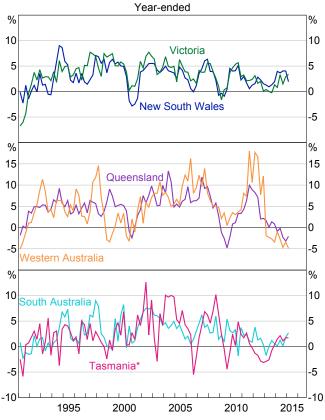
Regions and Industry



State Unemployment Rates

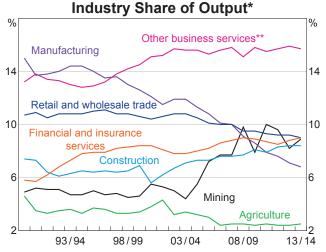


State Final Demand Growth



* Adjusted for the purchase and sale of ferries in 2002 Sources: ABS; RBA

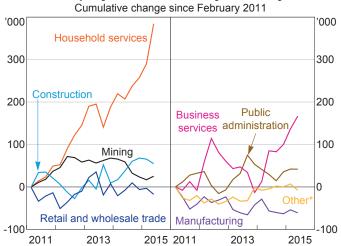
Regions and Industry



- * Nominal gross value added
- ** Includes: information media and telecommunications; rental, hiring and real estate services; professional, scientific and technical services; administrative and support services

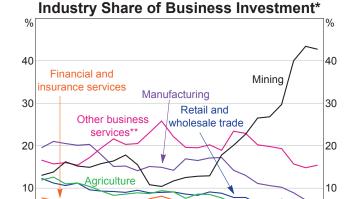
Source: ABS

Employment Growth by Industry



Includes agriculture, forestry & fishing; transport, postal & warehousing; and electricity, gas, water & waste services

Source: ABS



* Nominal

93/94

** Includes: information media and telecommunications; rental, hiring and real estate services; professional, scientific and technical services; administrative and support services

Construction

03/04

98/99

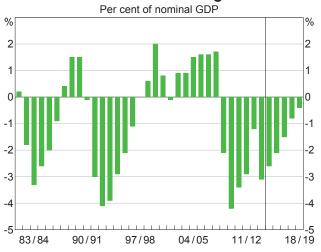
Source: ABS

13/14

08/09

Government

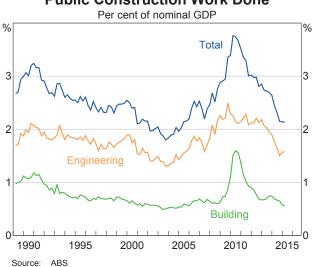
Australian Government Budget Balance*



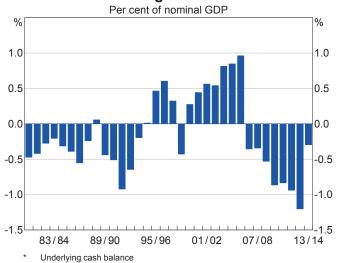
* Underlying cash balance; 2015/16 Budget

Source: Australian Treasury

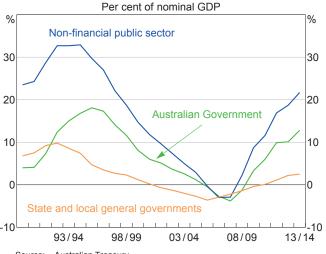
Public Construction Work Done



State Budget Balances*



Non-financial Public Sector Net Debt



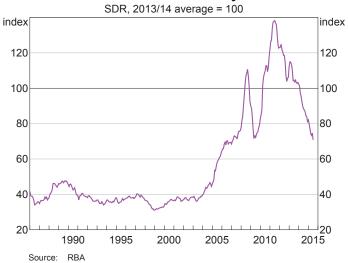
Source: Australian Treasury

Source: ABS

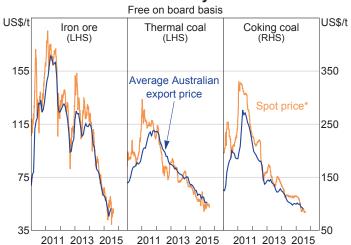


Commodity Prices

RBA Index of Commodity Prices

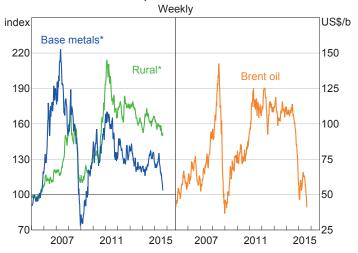


Bulk Commodity Prices



 * — Iron ore fines, Newcastle thermal coal and premium hard coking coal Sources: ABS; Bloomberg; IHS; RBA

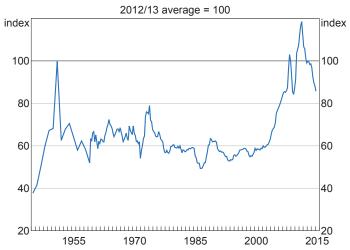
Base Metals, Rural and Oil Prices



 RBA Index of Commodity Prices sub-indices; SDR terms; 2005 average = 100

Sources: Bloomberg; RBA

Terms of Trade*

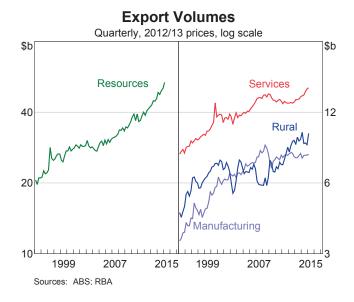


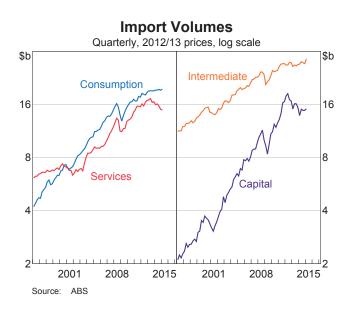
* Annual data are used prior to 1960

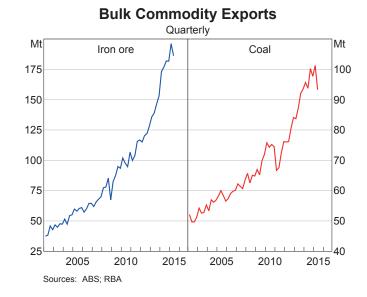
Sources: ABS; RBA

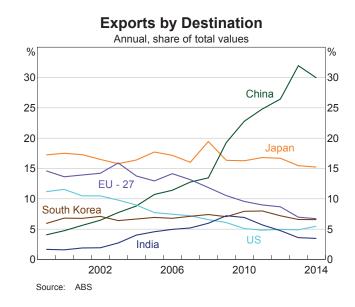


Balance of Payments and External Position











Balance of Payments and External Position

Current Account Balance Per cent of nominal GDP Net income balance Trade balance 0 -3

Current account balance

2005

2010

2015

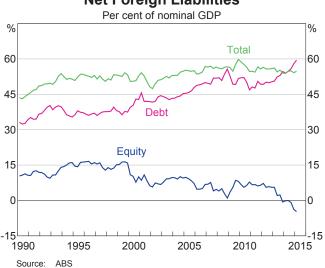
1995

1990

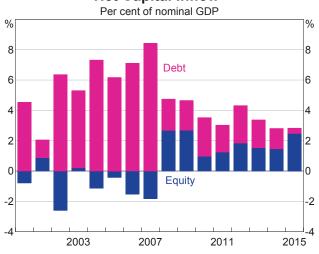
Source: ABS

Net Foreign Liabilities

2000

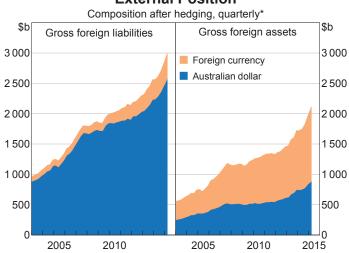


Net Capital Inflow*

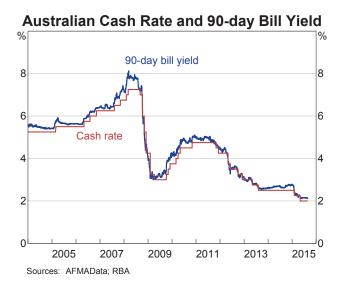


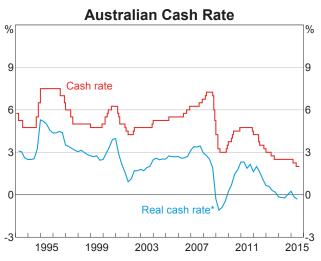
* 2015 values are year to March quarter Source: ABS

External Position



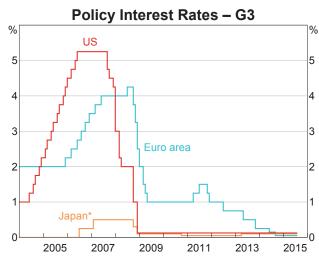
* Hedge ratios inferred from ABS Foreign Currency Exposure surveys Sources: ABS; RBA





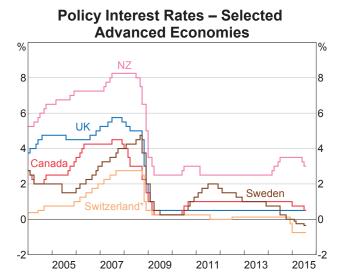
Calculated using average of weighted median and trimmed mean inflation

Sources: ABS; RBA



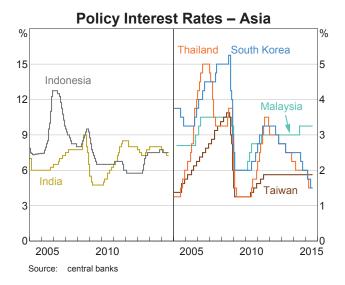
* Since April 2013, the Bank of Japan's main operating target has been the money base

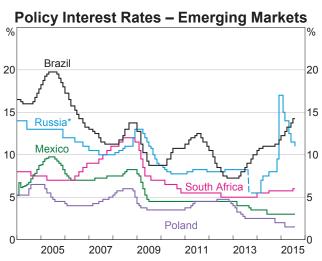
Source: central banks



* Policy rate is the midpoint of the 3-month LIBOR target band Source: central banks

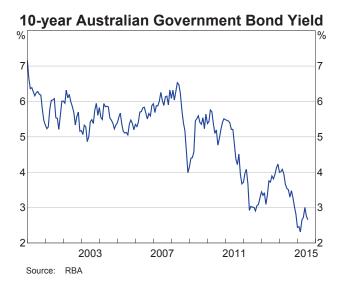


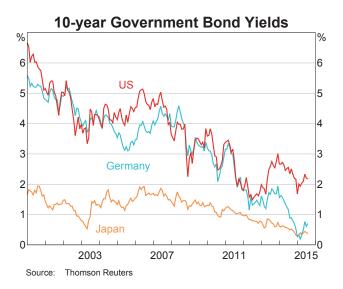




* On 13 September 2013, the Central Bank of the Russian Federation changed its official policy rate to the rate on its one-week open market operations, which was left unchanged at the September 2013 meeting

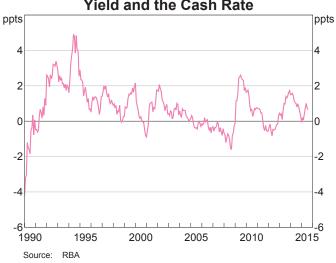
Source: central banks



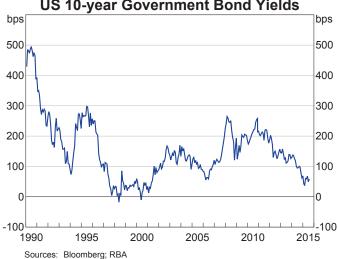




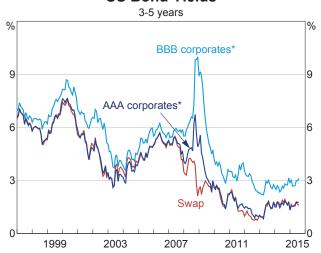




Differential between Australian and US 10-year Government Bond Yields



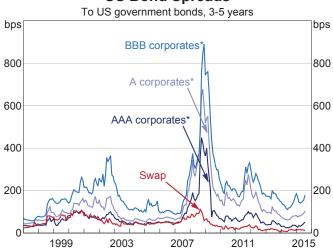
US Bond Yields



Includes financials and non-financials

Sources: Bank of America Merrill Lynch; Bloomberg; Thomson Reuters

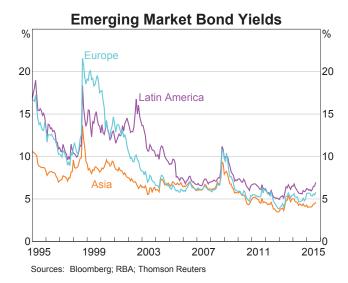
US Bond Spreads



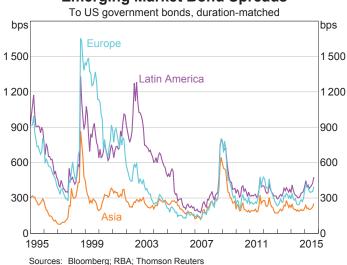
* Includes financials and non-financials

Sources: Bank of America Merrill Lynch; Bloomberg

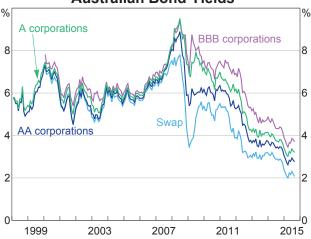




Emerging Market Bond Spreads



Australian Bond Yields*

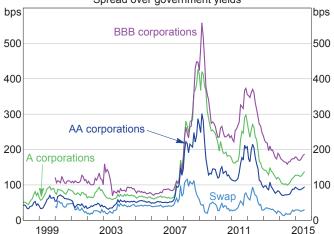


 Swap rates are for 3-year maturity; corporate bond yields are a weighted average of senior bonds with remaining maturities of 1 to 5 years, including financial and non-financial corporations

Sources: Bloomberg; RBA; UBS AG, Australia Branch

Australian Bond Spreads*

Spread over government yields

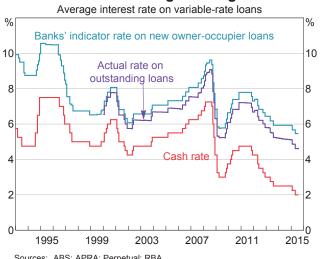


* Swap spreads are for 3-year maturity; corporate bond spreads are a weighted average of senior bonds with remaining maturities of 1 to 5 years, including financial and non-financial corporations

Sources: Bloomberg; RBA; UBS AG, Australia Branch

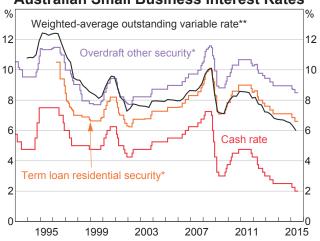


Australian Housing Lending Rates



Sources: ABS; APRA; Perpetual; RBA

Australian Small Business Interest Rates

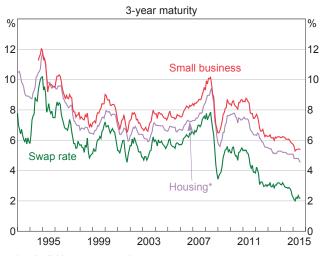


* Indicator rates

** RBA estimate; including risk margins

Sources: APRA; CANSTAR; RBA

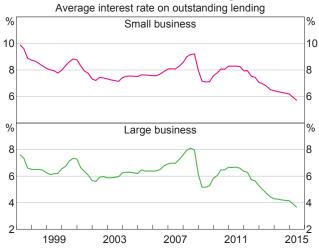
Australian Fixed Interest Rates



Available to owner-occupiers

Sources: Banks' websites; Bloomberg; CANSTAR; RBA

Australian Business Lending Rates*



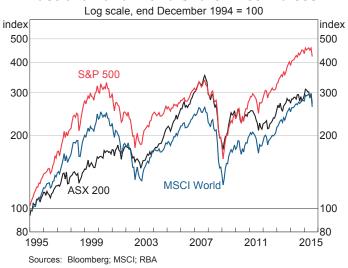
* RBA estimates



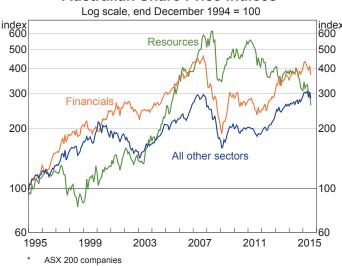


Share Markets

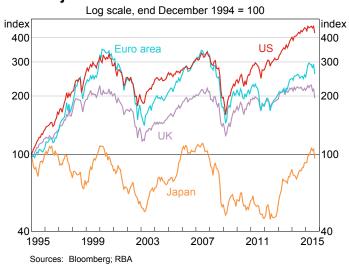
Australian and World Share Price Indices



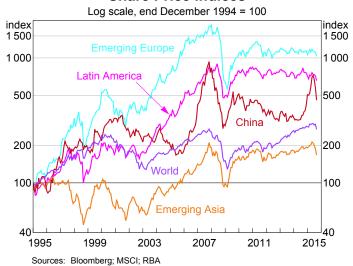
Australian Share Price Indices*



Major Economies' Share Price Indices



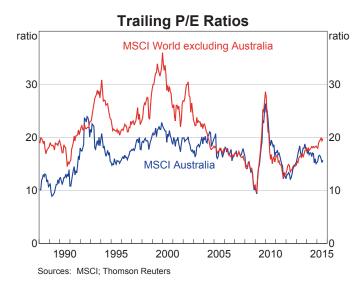
Share Price Indices

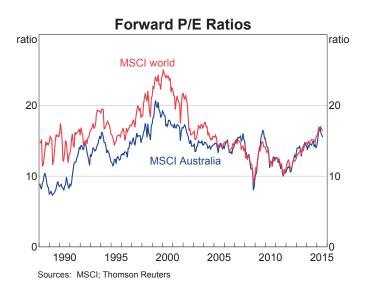


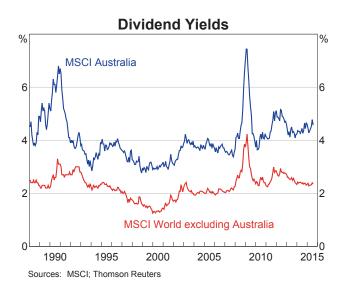


Sources: Bloomberg; RBA

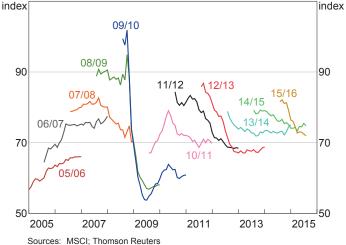
Share Markets





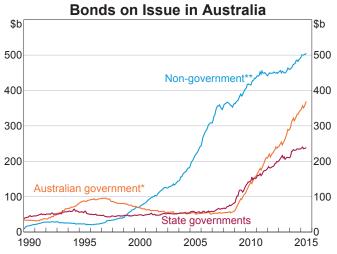








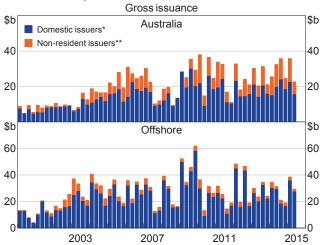
Bond Issuance



- * Excludes bonds purchased by the Australian Government
- ** Excludes ADIs' self-securitisations, includes government-guaranteed bonds

Sources: ABS; AOFM; RBA; State Treasury Corporations

Non-government Bond Issuance



- Excludes ADIs' self-securitisations
- Offshore non-resident issuance includes Australian dollar-denominated bonds only

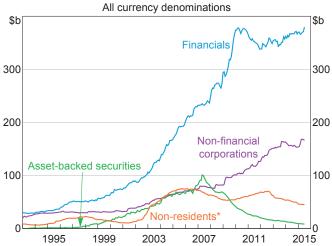
Source: RBA

Non-government Bonds on Issue in Australia Financials 150 150 Asset-backed securities* 100 100 50 50 Non-financial corporations Non-residents 1990 1995 2000 2005 2010 2015

* Excludes ADIs' self-securitisations

Sources: ABS; RBA

Non-government Bonds on Issue Offshore

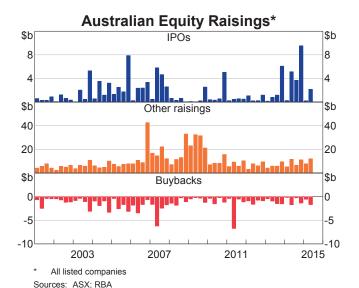


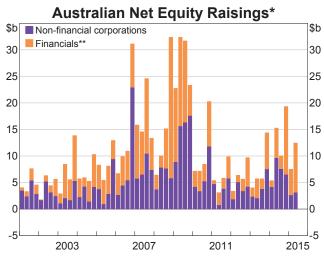
* Australian dollar-denominated bonds only

Sources: ABS; RBA



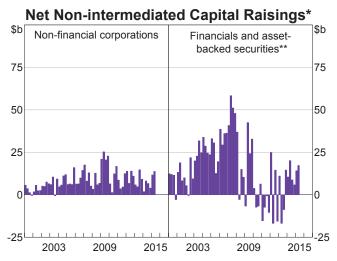
Equity Raisings and Business Financing





- * All listed companies
- ** Includes banks and non-bank financials

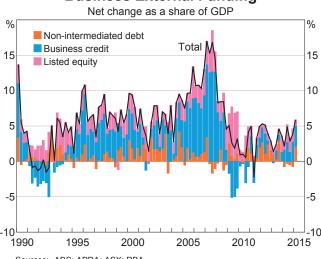
Sources: ASX; RBA



- Includes equity, hybrids, bonds, and short-term debt
- ** Excludes ADIs' self-securitisations; financials include banks and non-bank financials

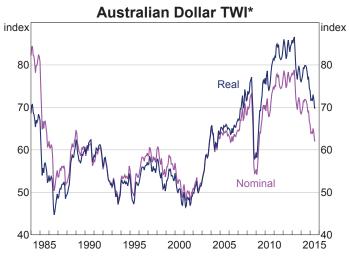
Sources: APRA; ASX; Austraclear; RBA

Business External Funding



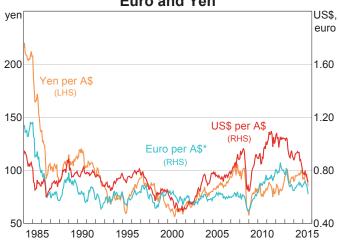
Sources: ABS; APRA; ASX; RBA

Exchange Rates

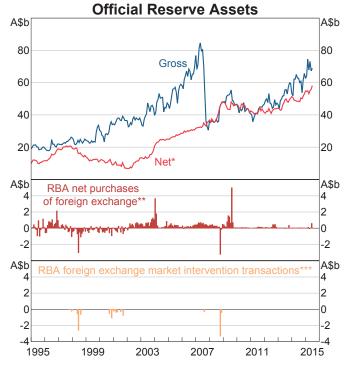


* May 1970 = 100 for nominal; real indexed to equate post-float averages Sources: ABS; RBA; Thomson Reuters; WM/Reuters

Australian Dollar against US Dollar, Euro and Yen



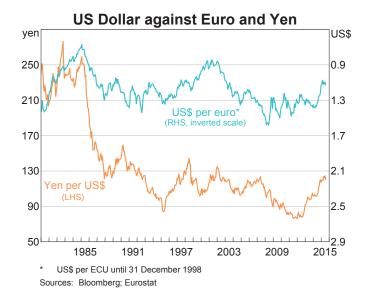
* ECU per A\$ until 31 December 1998 Sources: Thomson Reuters; WM/Reuters

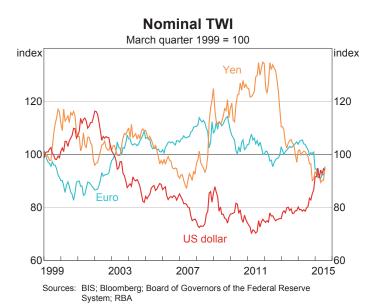


- * Excludes foreign exchange swaps
- ** Includes market, government and other outright transactions, excludes swap deliveries
- *** Data up to 30 June 2014; a positive value indicates a purchase of foreign exchange, while a negative value indicates a sale of foreign exchange

Source: RBA

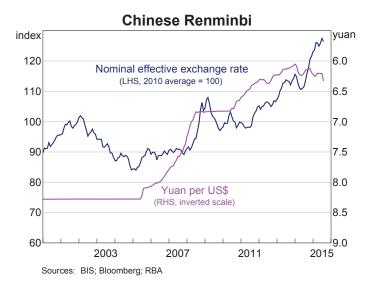
Exchange Rates





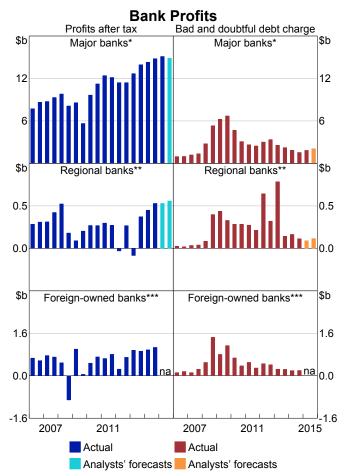
Selected Asian Currencies against the US Dollar







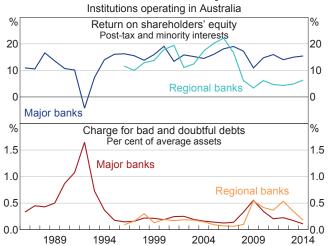
Banking Indicators



- ANZ, NAB and Westpac report half yearly to March and September, while CBA reports to June and December
- ** Suncorp Bank and Bendigo and Adelaide Bank report half yearly to June and December, while Bank of Queensland reports to February and August
- *** All results are half year to June and December

Sources: APRA; Banks' Annual and Interim Reports; Credit Suisse;
Deutsche Bank; Nomura Equity Research; RBA; UBS Securities
Australia

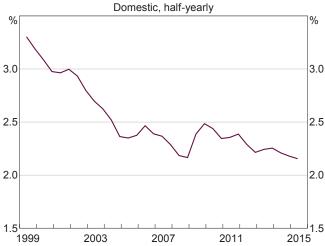
Bank Profitability*



 From 2006 data are on an IFRS basis; prior years are on an AGAAP basis; includes St. George and, from 2009, Bankwest

Sources: Banks' Annual and Interim Reports; RBA

Major Banks' Net Interest Margin*



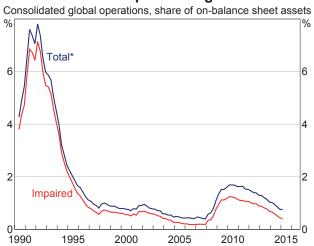
From 2006 data are on an IFRS basis; prior years are on AGAAP basis; excludes St George Bank and Bankwest prior to the first half of 2009

Sources: Banks' Financial Reports; RBA



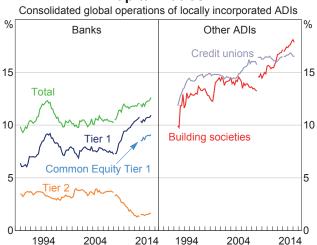
Banking Indicators

Banks' Non-performing Assets



* Includes assets 90+ days past due that are well secured Source: APRA

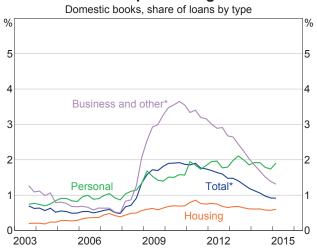
Capital Ratios*



Per cent of risk-weighted assets; break in March 2008 due to the introduction of Basel II for most ADIs; break in March 2013 due to the introduction of Basel III for all ADIs

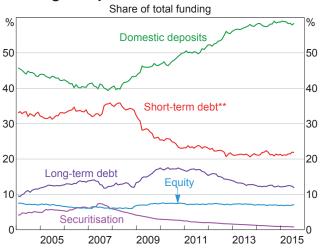
Source: APRA

Banks' Non-performing Assets



Includes lending to financial businesses, bills and debt securities
 Source: APRA

Funding Composition of Banks in Australia*



- Adjusted for movements in foreign exchange rates; tenor of debt is estimated on a residual maturity basis
- ** Includes deposits and intragroup funding from non-residents

Sources: APRA; RBA; Standard & Poor's

