



**NATIONAL BANK OF UKRAINE**

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# Monetary and Financial Statistics

February 2016

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Information has been prepared according to the monetary and financial statistics data compiled on the basis of the statistical reporting of banks and the National Bank of Ukraine, information of the National Commission for State Regulation of Financial Services Markets, the National Commission on Securities and Stock Market, the Ministry of Finance of Ukraine, the State Statistical Service of Ukraine, calculations and estimates of the National Bank of Ukraine. More detailed information is available on page «Statistics. Monetary and financial statistics» on the official website of the National Bank of Ukraine:

[http://www.bank.gov.ua/control/en/publish/article?art\\_id=8782121&cat\\_id=8782106](http://www.bank.gov.ua/control/en/publish/article?art_id=8782121&cat_id=8782106)

**Table 1. Interest rate on refinancing**

Components	2015												2016	
	2	3	4	5	6	7	8	9	10	11	12	1	2	
<b>NBU discount rate</b> (end of period)	19.5	30.0	30.0	30.0	30.0	30.0	27.0	22.0	22.0	22.0	22.0	22.0	22.0	
Average weighted interest on all instruments of which	21.9	30.4	32.2	32.6	32.0	33.0	32.0	27.4	23.0	23.7	22.1	24.0	23.9	
loans granted through tender	19.5	31.5	30.2	30.0	30.0	–	30.0	27.0	22.0	22.0	22.1	–	22.0	
overnight loans	22.4	29.8	33.0	33.0	33.0	33.0	32.6	27.5	24.0	24.0	24.0	24.0	24.0	
repo transactions	19.5	–	30.0	–	–	–	–	–	–	–	–	–	–	
other long-term loans under the program of financial recovery	21.0	30.9	31.5	–	31.5	–	–	–	–	–	–	–	–	

**Table 2. Reserve requirements, %**

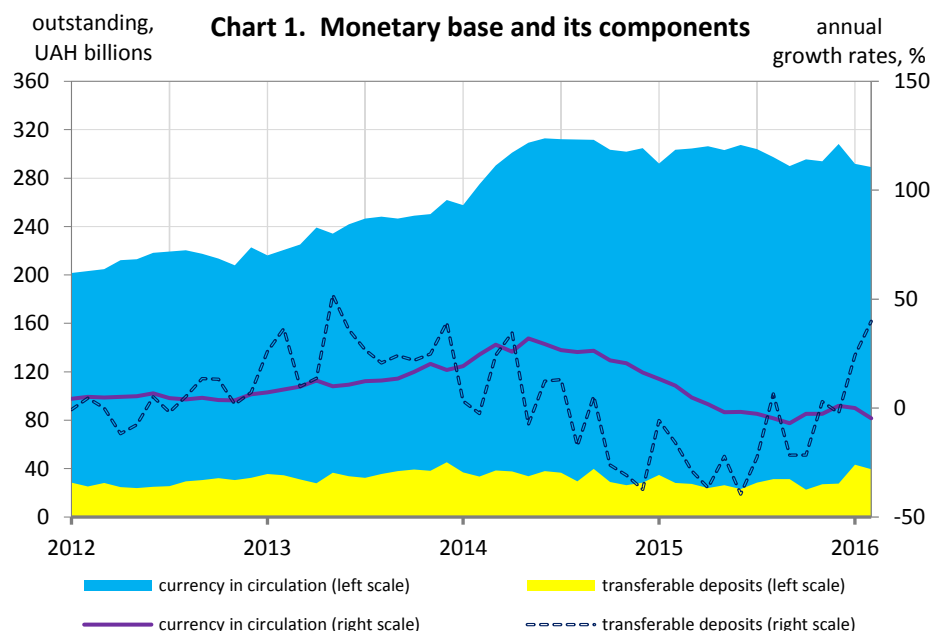
Validity	time deposits	current accounts and demand deposits
since 31.12.2014	3	6.5

**Table 3. Official exchange rate of hryvnia against US dollar and euro, hryvnias**

	2015												2016	
	2	3	4	5	6	7	8	9	10	11	12	1	2	
<b>100 US Dollar</b>														
period average	2447.99	2325.62	2270.95	2091.53	2123.28	2175.74	2162.69	2178.34	2184.13	2331.26	2340.84	2425.97	2639.31	
end of period	2776.31	2344.26	2104.68	2104.82	2101.54	2161.18	2118.54	2152.75	2290.40	2388.47	2400.07	2515.18	2705.44	
<b>100 Euro</b>														
period average	2779.68	2532.43	2446.53	2332.62	2383.93	2393.81	2401.39	2445.61	2455.50	2506.80	2542.71	2634.89	2933.23	
end of period	3141.95	2544.93	2315.57	2293.41	2354.14	2367.57	2387.18	2411.95	2503.41	2527.00	2622.31	2742.30	2977.61	

**Table 4. Monetary base and its components**

Components	2015			2016					
	February			January			February		
	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %
<b>Monetary base</b>	331.61	4.88	7.5	335.08	-0.92	2.6	328.54	-6.54	-0.9
of which									
Currency in circulation	303.35	11.40	10.4	291.86	-16.38	0.0	289.05	-2.81	-4.7
Transferable deposits of other deposit-taking corporations	27.47	-6.44	-14.9	43.16	15.47	27.3	39.44	-3.72	43.6
Transferable deposits of other sectors of economy	0.78	-0.08	-39.4	0.06	-0.01	-93.5	0.05	-0.01	-93.8



**Table 5. Deposit-taking corporations survey<sup>1</sup>**

Components	2015			2016					
	February			January			February		
	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %
(1) <b>Monetary aggregate M3</b>	1 136.13	-15.60	-14.7	995.02	-14.23	-8.9	1 015.51	-5.62	-7.9
(2) Other items (net) (3 + 4 – 1)	648.61	-0.81	–	601.64	21.95	–	630.94	5.97	–
(3) <b>Domestic credit (3.1 + 3.2)</b>	1 915.83	-2.28	-1.9	1 545.72	7.53	-14.2	1 587.82	-2.89	-14.3
(3.1) Net claims on the central government	530.85	24.80	–	476.33	8.93	–	479.96	2.34	–
(3.2) Claims on other sectors of economy	1 384.99	-27.08	-16.4	1 069.38	-1.41	-19.9	1 107.86	-5.23	-18.2
Other financial corporations	42.51	-0.03	1.6	21.25	-0.48	-47.7	21.12	-0.42	-48.7
State and local government	6.29	0.07	-9.2	3.53	-0.01	-41.4	2.88	-0.66	-52.8
Non-financial corporations	1 052.04	-24.63	-16.6	835.70	-1.88	-18.0	898.12	26.52	-12.7
Households <sup>2</sup>	284.14	-2.49	-18.8	208.90	0.97	-22.1	185.74	-30.68	-32.8
(4) <b>Net foreign assets</b>	-131.09	-14.12	–	50.94	0.19	–	58.62	3.24	–

**Table 6. Monetary aggregates and counterparts items of deposit-taking corporations survey<sup>1</sup>**

Components	2015			2016					
	February			January			February		
	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %
<b>Components M3</b>									
(1) <b>M3 (1.6 + 1.7)</b>	1 136.13	-15.60	-14.7	995.02	-14.23	-8.9	1 015.51	-5.62	-7.9
(1.1) Currency in circulation outside deposit-taking corporations (M0)	283.87	9.51	12.2	271.79	-10.88	-0.9	269.29	-2.50	-5.1
(1.2) Transferable deposits in national currency	163.53	3.18	20.9	182.54	-7.00	13.8	183.57	1.02	12.2
(1.3) <b>M1 (1.1 + 1.2)</b>	447.41	12.69	15.2	454.34	-17.88	4.5	452.85	-1.48	1.2
(1.4) Transferable deposits in foreign currency	167.98	10.49	-6.9	109.53	2.85	-17.6	118.19	0.10	-26.0
(1.5) Other deposits	519.83	-37.97	-36.9	430.86	0.78	-18.5	444.20	-4.22	-11.1
(1.6) <b>M2 (1.3 + 1.4 + 1.5)</b>	1 135.21	-14.79	-14.2	994.73	-14.25	-8.8	1 015.24	-5.60	-7.9
(1.7) Securities other than shares	0.92	-0.81	-94.9	0.28	0.02	-89.5	0.27	-0.03	-66.2
<b>Counterparts</b>									
<b>Liabilities</b>									
(2) Liabilities excluded from M3	0.31	-0.01	5.9	1.63	0.98	–	3.54	1.87	–
(3) Shares and other equity	387.53	-37.20	-24.2	346.22	10.82	-32.2	384.83	29.91	-17.8
(4) Other items (net)	260.78	36.40	–	253.80	10.15	–	242.57	-25.80	–
<b>Assets</b>									
(5) Domestic credit	1 915.83	-2.28	-1.9	1 545.72	7.53	-14.2	1 587.82	-2.89	-14.3
(5.1) Net claims on central government	530.85	24.80	–	476.33	8.93	–	479.96	2.34	–
Claims	554.62	25.02	53.7	546.00	17.16	7.6	561.34	10.54	4.2
Minus: liabilities	23.77	0.22	63.1	69.67	8.23	–	81.38	8.21	–
(5.2) Claims on other sectors of economy, among them:	1 384.99	-27.08	-16.4	1 069.38	-1.41	-19.9	1 107.86	-5.23	-18.2
Loans	1 328.56	-26.51	-17.1	1 002.57	-2.30	-21.7	1 042.70	-3.60	-19.9
Securities other than shares	43.70	0.01	-7.0	27.65	0.17	-33.6	26.04	-1.58	-37.4
Shares and other equity	3.82	-0.09	-18.6	1.64	-0.02	-51.4	1.67	0.03	-49.4
(6) Net foreign assets	-131.09	-14.12	–	50.94	0.19	–	58.62	3.24	–

<sup>1</sup> National Bank of Ukraine and other deposit-taking corporations<sup>2</sup> Households and non-profit institutions serving households

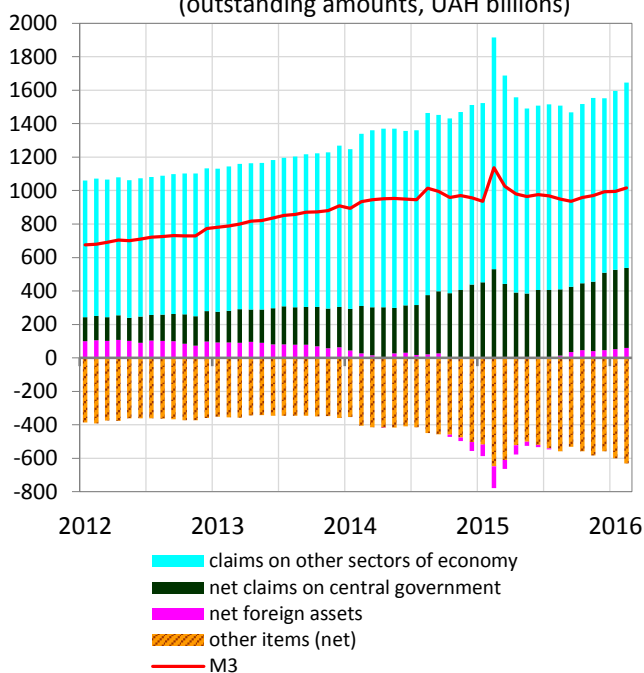
**Table 7. Components M3 by sectors of the economy**

Components	2015			2016					
	February			January			February		
	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %
<b>Transferable deposits in national currency</b>	163.53	3.18	20.9	182.54	-7.00	13.8	183.57	1.02	12.2
Other financial corporations	9.79	-0.71	41.6	6.15	0.22	-41.4	5.92	-0.23	-39.5
Non-financial corporations	89.88	4.79	27.1	106.46	3.21	25.1	108.69	2.23	20.9
Households <sup>1</sup>	63.87	-0.90	10.8	69.93	-10.44	8.0	68.95	-0.97	8.0
<b>M2 - M1</b>	687.81	-27.48	-32.7	540.40	3.63	-18.6	562.39	-4.11	-14.5
Other financial corporations	22.45	0.20	-14.7	23.18	-0.72	9.8	23.00	-0.95	4.1
Non-financial corporations	187.02	-2.78	-22.5	167.35	0.64	-3.3	173.13	-2.15	-2.4
Households <sup>1</sup>	478.34	-24.90	-36.7	349.86	3.70	-25.6	366.26	-1.02	-20.2
<b>M3 - M2</b>	0.92	-0.81	-94.9	0.28	0.02	-89.5	0.27	-0.03	-66.2
Other financial corporations	0.06	-0.07	-95.4	0.09	0.01	-32.0	0.06	-0.03	4.2
Non-financial corporations	0.00	-0.00	-67.4	0.02	0.02	-	0.02	-0.00	-
Households <sup>1</sup>	0.86	-0.74	-94.7	0.18	-0.00	-93.6	0.19	0.00	-75.0

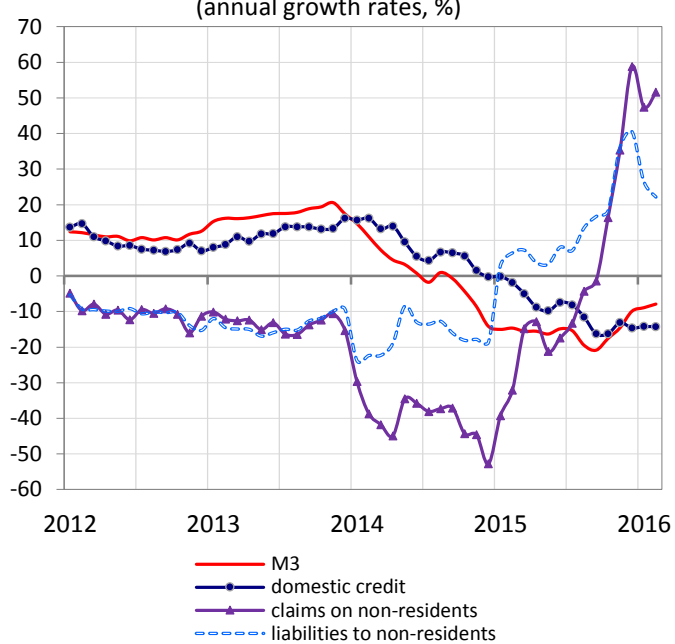
<sup>1</sup> Households and non-profit institutions serving households

**Chart 2. Monetary aggregate M3 and counterpart items**

(outstanding amounts, UAH billions)


**Chart 3. Monetary aggregate M3 and counterpart items**

(annual growth rates, %)

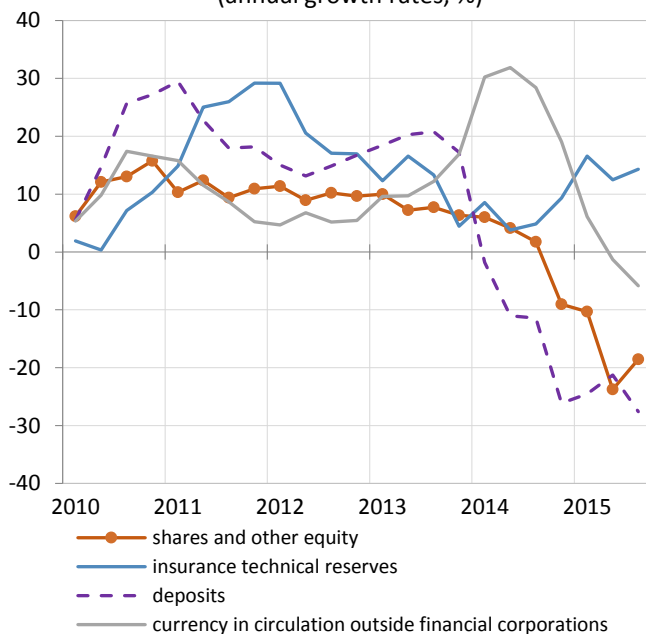


**Table 8. Financial corporations survey**

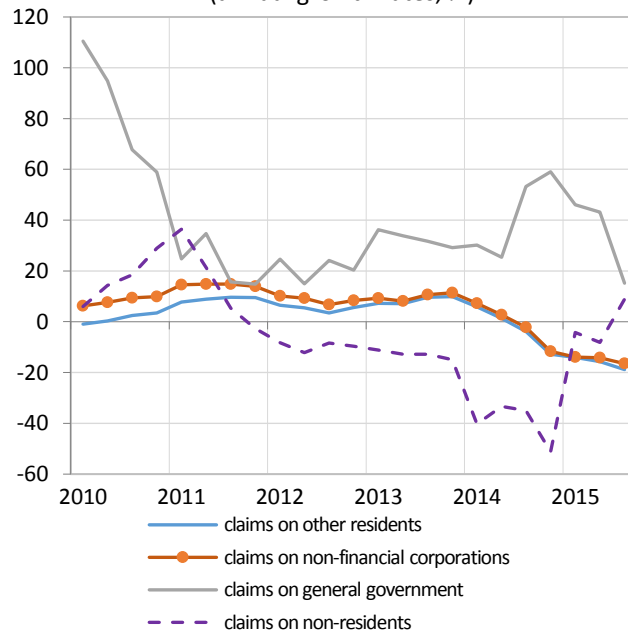
Components	III quarter 2014			II quarter 2015			III quarter 2015		
	outstanding amounts at end of period UAH billions	transactions during the period, UAH billions	annual growth rates, %	outstanding amounts at end of period UAH billions	transactions during the period, UAH billions	annual growth rates, %	outstanding amounts at end of period UAH billions	transactions during the period, UAH billions	annual growth rates, %
(1) Net foreign assets	7.01	-1.27	-	-39.11	-20.50	-	17.90	54.44	-
(2) Domestic credit	1 618.49	63.03	4.9	1 717.74	-101.47	-7.1	1 639.81	-83.99	-15.2
(2.1) Net claims on central government	374.54	83.62	-	409.84	-30.90	-	394.08	-14.02	-
Claims	416.28	85.47	54.7	517.13	-1.41	44.2	523.47	7.42	15.8
Less: liabilities	41.74	1.85	165.9	107.29	29.49	120.9	129.39	21.44	152.8
(2.2) Claims on other residents	1 243.96	-20.59	-3.8	1 307.90	-70.56	-15.7	1 245.73	-69.98	-18.8
State and local government	6.74	0.17	-2.7	5.98	-0.31	-9.1	4.97	-1.01	-26.3
Non-financial corporations	1 019.54	-9.26	-2.2	1 077.99	-38.35	-14.2	1 045.17	-38.16	-16.5
Households <sup>1</sup>	217.68	-11.50	-11.0	223.93	-31.90	-22.2	195.58	-30.81	-29.2
(3) Currency in circulation outside financial corporations	287.46	-2.08	28.4	285.71	1.33	-1.3	270.66	-15.04	-5.8
(4) Deposits	675.57	26.30	-11.4	658.63	-13.01	-21.3	639.04	-27.34	-27.6
(5) Securities other than shares	9.77	-1.04	-37.7	11.36	1.84	-3.1	10.83	-0.53	2.3
(6) Loans	0.49	0.12	-70.6	0.98	0.17	167.7	1.45	0.47	196.2
(7) Financial derivatives	0.03	0.00	0.0	0.03	0.00	0.0	0.01	0.00	0.0
(8) Insurance technical reserves	15.67	0.64	4.8	16.90	-0.46	12.5	17.91	1.00	14.3
(9) Shares and other equity	621.18	6.27	1.8	565.01	-104.91	-23.8	607.46	44.81	-18.6
(10) Other items (net)	15.34	31.55	-	140.01	-6.91	-	110.34	-32.92	-

<sup>1</sup> Households and non-profit institutions serving households

**Chart 4. Resources of financial corporations**  
(annual growth rates, %)

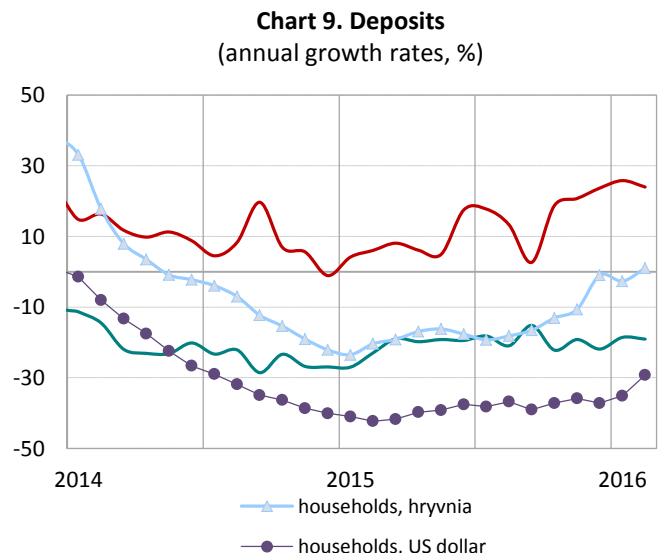
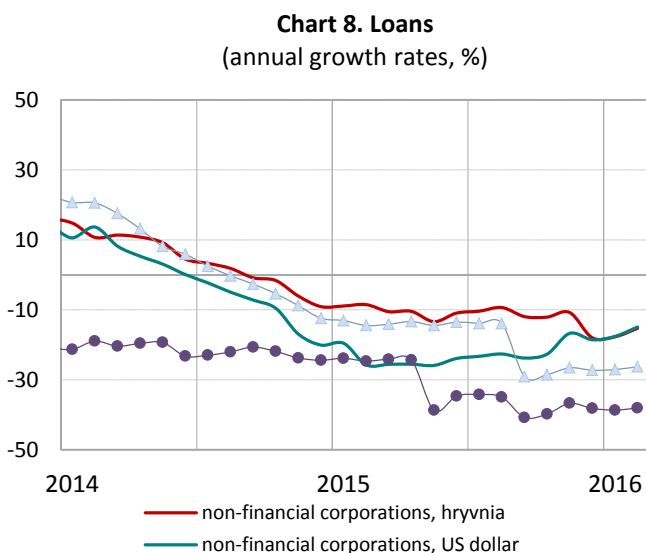
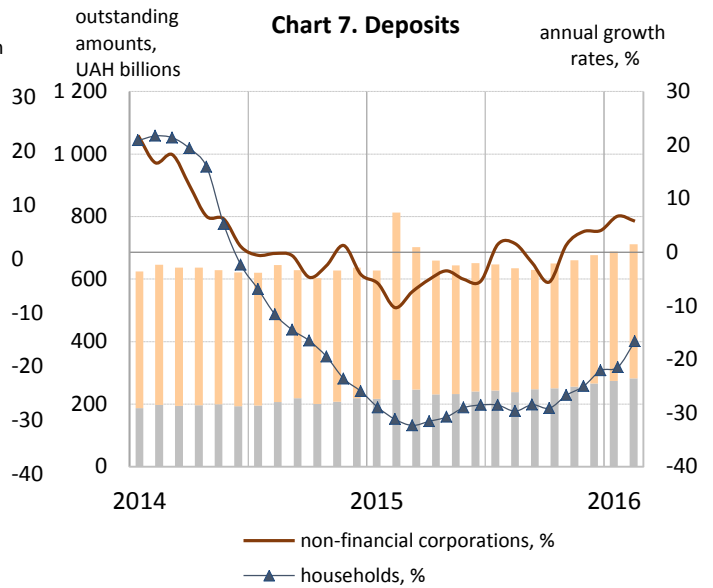
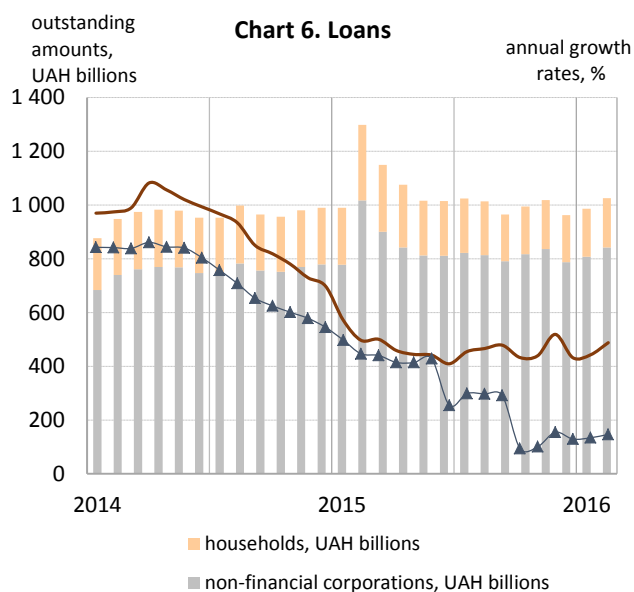


**Chart 5. Claims of financial corporations**  
(annual growth rates, %)



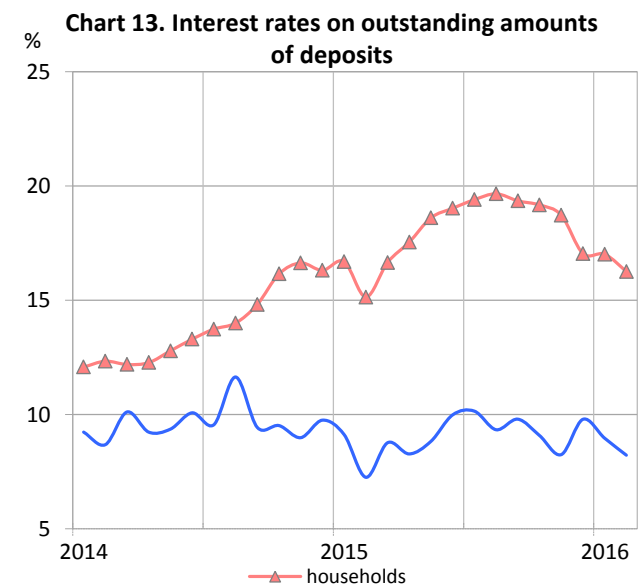
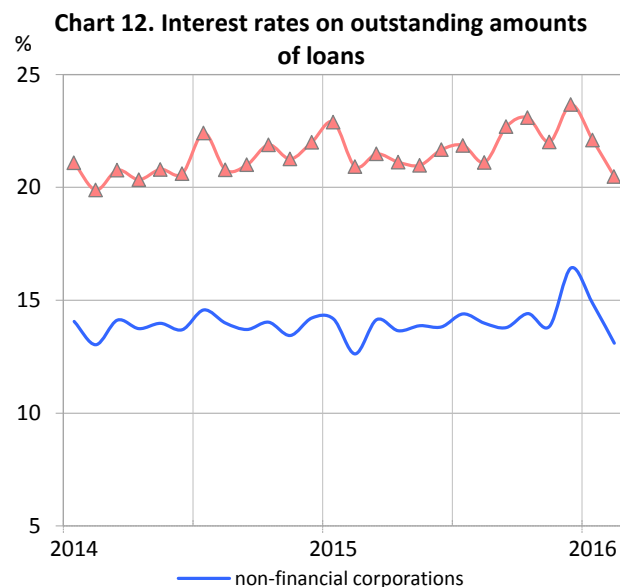
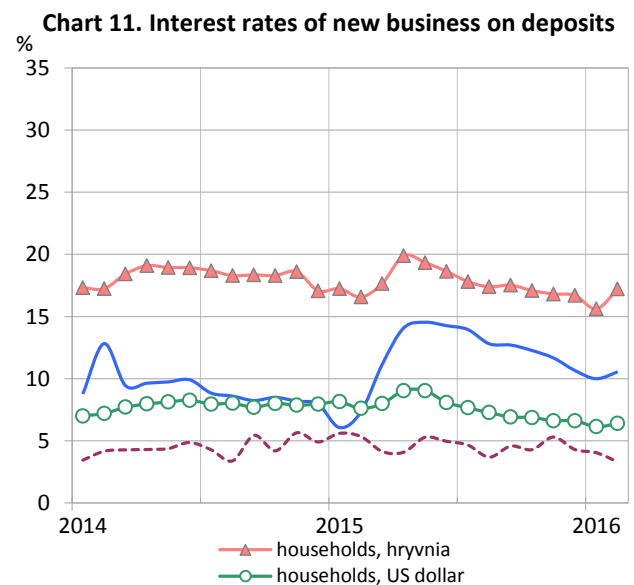
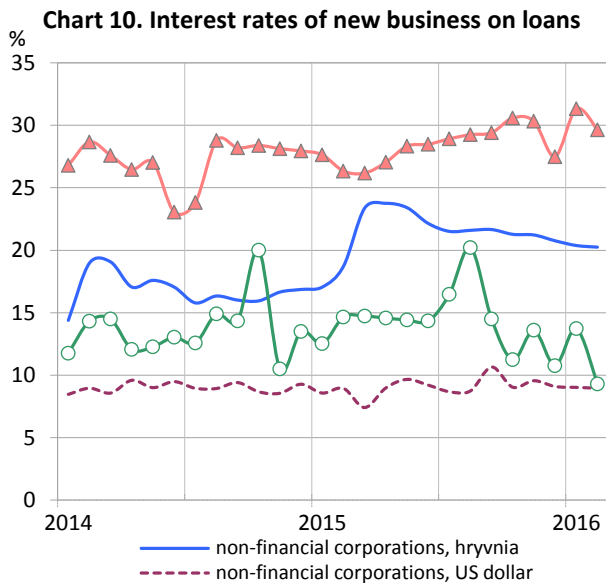
**Table 9. Loans and deposits of non-financial corporations and households, by currencies**

Components	2015			2016					
	February			January			February		
	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %
<b>Loans</b>									
Non-financial corporations	1 017.55	-22.80	-17.0	808.21	-0.92	-17.8	841.97	-2.14	-15.6
hryvnia	403.28	-7.83	-8.5	338.26	-0.36	-17.7	341.57	3.32	-15.3
US dollar	548.56	-14.10	-25.7	426.82	-0.32	-17.6	453.94	-5.04	-14.9
euro	61.42	-0.21	-28.7	40.93	-0.24	-23.8	44.01	-0.43	-24.2
Households	281.19	-3.72	-19.3	178.44	-0.88	-33.3	184.46	-1.49	-32.7
hryvnia	108.49	-0.94	-14.5	79.81	-0.24	-27.1	80.00	0.19	-26.3
US dollar	164.89	-1.88	-24.7	93.46	-1.50	-38.7	98.87	-0.95	-38.1
euro	3.67	-0.08	-26.8	2.23	-0.03	-29.2	2.42	-0.01	-26.8
<b>Deposits</b>									
Non-financial corporations	276.89	2.01	-5.1	273.81	3.86	6.7	281.82	0.08	5.8
hryvnia	138.60	2.00	6.0	171.82	2.74	25.8	171.82	-0.00	24.0
US dollar	116.25	0.63	-22.9	83.72	1.50	-18.6	90.32	0.27	-19.1
euro	19.50	-0.50	-16.1	16.24	-0.06	-7.8	17.71	0.07	-3.3
Households	536.22	-25.74	-31.5	414.02	-7.02	-21.4	429.17	-2.14	-16.6
hryvnia	188.54	-7.59	-20.4	190.88	-7.99	-2.7	190.39	-0.49	1.0
US dollar	292.27	-16.10	-42.3	187.00	1.03	-35.1	199.68	-1.43	-29.3
euro	52.49	-1.89	-37.3	34.52	-0.02	-28.4	37.30	-0.18	-24.3



**Table 13. Interest rates on loans and deposits in February 2016**

Components	Non-financial corporations			Households		
	interest rate, %	change to the previous period, pp	business volumes/ outstanding amounts, UAH billions	interest rate, %	change to the previous period, pp	business volumes/ outstanding amounts, UAH billions
<b>New business on loans</b>	16.40	-0.34	109.4	29.51	-1.67	5.8
hryvnia	20.25	-0.13	72.9	29.64	-1.69	5.8
US dollar	8.96	-0.07	32.9	9.30	-4.43	0.03
euro	6.33	-1.22	3.6	24.19	5.21	0.004
<b>Outstanding amounts of loans</b>	13.10	-1.76	842.0	20.48	-1.61	184.5
hryvnia	16.86	-3.01	341.6	28.90	-0.74	80.0
US dollar	10.52	-0.55	453.9	12.69	-2.15	98.9
euro	9.61	-0.63	44.0	12.91	-2.09	2.4
<b>New business on deposits</b>	10.16	0.46	183.8	11.08	0.57	41.9
hryvnia	10.56	0.56	173.7	17.23	1.62	18.3
US dollar	3.31	-0.74	8.7	6.41	0.26	20.4
euro	3.64	-0.01	1.4	5.68	0.51	3.1
<b>Outstanding amounts of deposits</b>	8.22	-0.74	281.8	16.25	-0.76	429.2
hryvnia	8.22	-3.06	171.8	16.25	-6.89	190.4
US dollar	4.26	-0.26	90.3	9.88	-0.58	199.7
euro	5.10	-0.40	17.7	9.21	-0.58	37.3

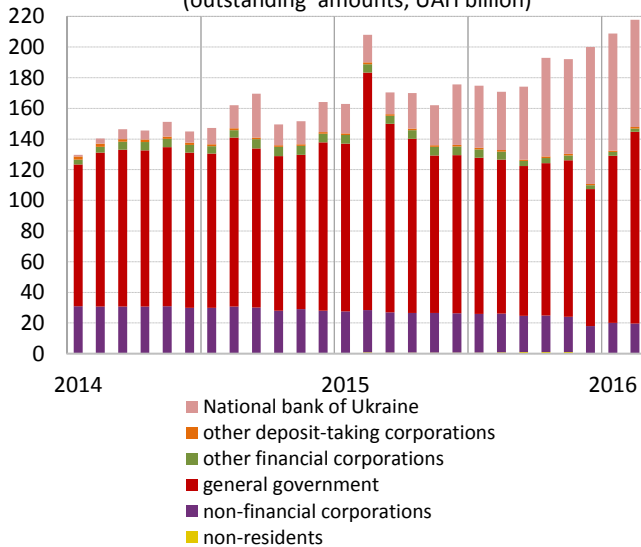




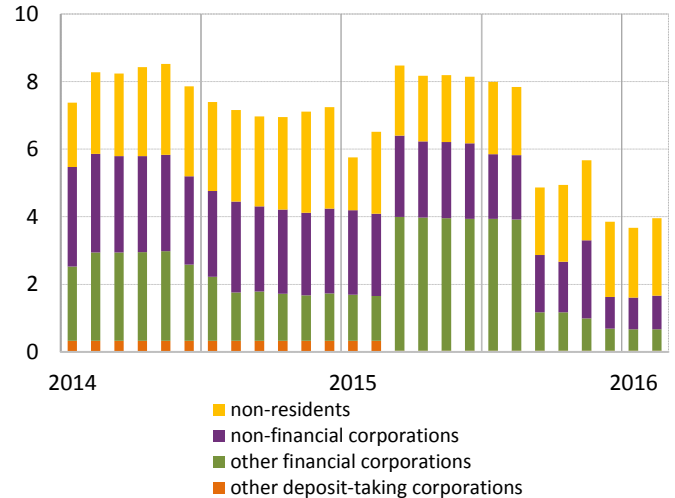
**Table 14. Securities held by deposit-taking corporations (excluding National Bank of Ukraine) by sectors of the economy**

Components	2015			2016			2016		
	February			January			February		
	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	transactions for period, UAH billions	annual growth rates, %
<b>Holdings of securities other than shares</b>	<b>208.04</b>	<b>3.33</b>	<b>3.3</b>	<b>208.82</b>	<b>3.99</b>	<b>14.8</b>	<b>217.82</b>	<b>4.31</b>	<b>14.8</b>
residents	207.26	3.35	3.3	208.59	3.99	15.2	217.58	4.31	15.2
National bank of Ukraine	18.11	-1.04	10.3	76.37	-12.91	37.1	69.97	-6.40	33.8
Other deposit-taking corporations	1.10	0.01	-35.4	0.97	0.00	-10.7	0.97	0.00	-11.1
Other financial corporations	5.57	-0.02	29.5	2.52	0.02	-49.9	2.09	-0.43	-58.3
General government	154.90	4.49	-7.5	108.82	16.73	-16.0	125.19	11.66	-10.6
Non-financial corporations	27.59	-0.09	-9.6	19.91	0.15	-24.5	19.35	-0.53	-26.2
Other residents	—	—	—	—	—	—	—	—	—
non-residents	0.78	-0.02	19.5	0.23	0.00	-66.8	0.24	0.00	-66.1
<b>Holdings of shares</b>	<b>6.51</b>	<b>-0.08</b>	<b>-21.6</b>	<b>3.68</b>	<b>-0.02</b>	<b>-23.0</b>	<b>3.95</b>	<b>0.06</b>	<b>-39.1</b>
residents	4.09	-0.09	-6.9	1.61	-0.02	-35.8	1.66	0.06	-52.3
Other deposit-taking corporations	0.33	0.00	0.3	0.03	0.0	-89.5	0.03	-0.0	-89.5
Other financial corporations	1.32	-0.03	-11.8	0.64	-0.02	-35.6	0.64	0.00	-63.8
Non-financial corporations	2.43	-0.06	-3.7	0.94	0.00	-35.7	0.99	0.06	-29.7
non-residents	2.43	0.00	-43.2	2.07	0.00	-5.6	2.29	0.00	-5.9

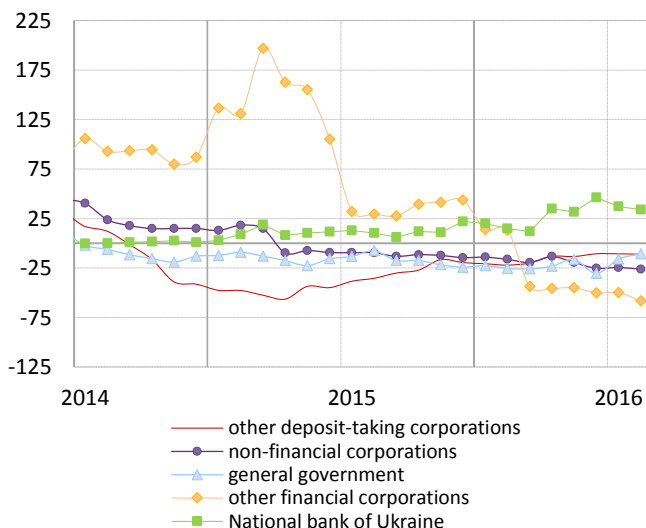
**Chart 14. Holdings of securities other than shares (outstanding amounts, UAH billion)**



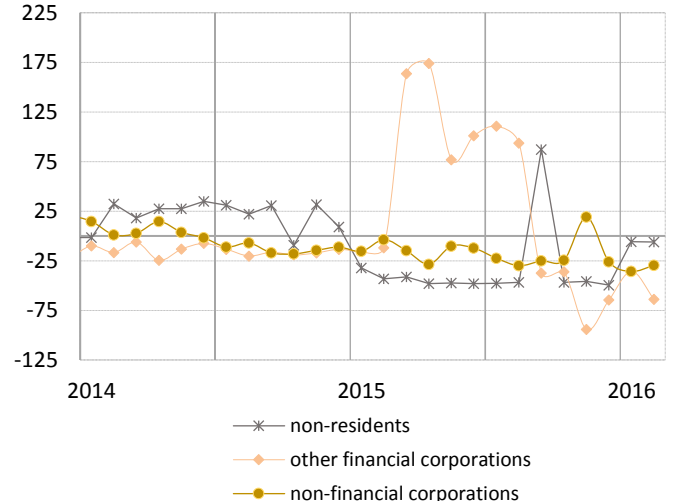
**Chart 15. Holdings of shares (outstanding amounts, UAH billion)**



**Chart 16. Holdings of securities other than shares (annual growth rates, %)**



**Chart 17. Holdings of shares (annual growth rates, %)**

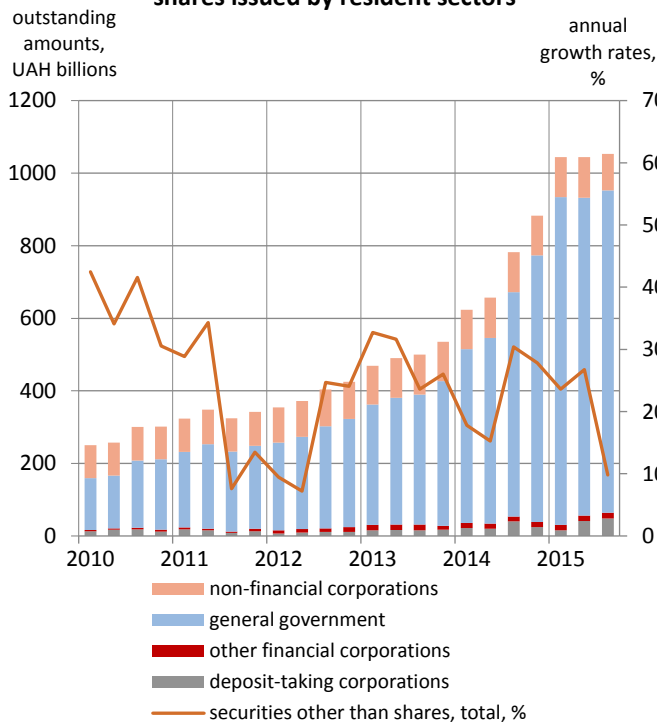


**Table 15. Securities other than shares issued by resident sectors**

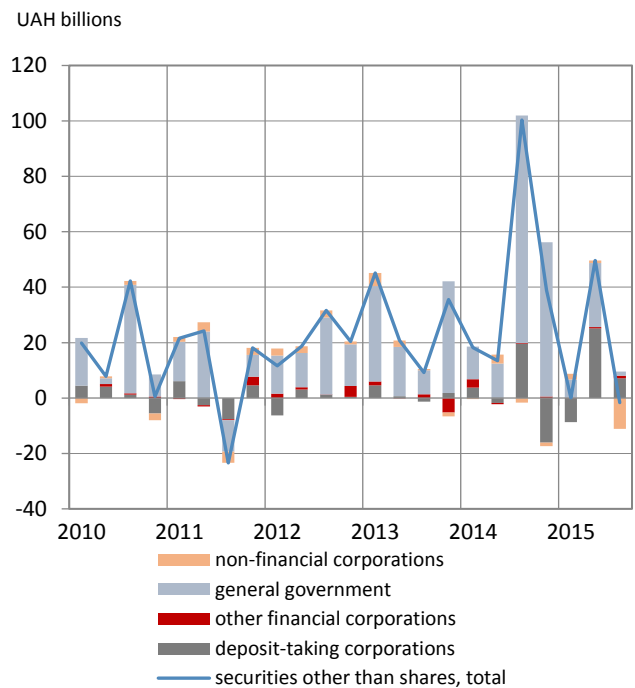
Components	III quarter 2014			II quarter 2015			III quarter 2015		
	outstanding amounts at end of period, UAH billions	net issues during the period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	net issues during the period, UAH billions	annual growth rates, %	outstanding amounts at end of period, UAH billions	net issues during the period, UAH billions	annual growth rates, %
<b>Total</b>	782.06	100.31	30.4	1 044.22	49.64	26.7	1 053.38	-1.63	9.8
Deposit-taking corporations	40.02	19.55	147.3	41.00	25.16	93.4	48.13	7.12	15.5
National Bank of Ukraine <sup>1</sup>	28.47	21.11	–	39.50	25.32	–	47.57	8.07	67.1
Other deposit-taking corporations	11.55	-1.56	-21.6	1.50	-0.16	-91.9	0.56	-0.95	-96.6
Other financial corporations	13.63	0.23	-16.2	14.73	0.45	9.9	15.62	0.88	14.6
General government	618.56	82.20	36.4	876.79	23.14	30.9	889.11	1.54	13.0
Non-financial corporations	109.85	-1.67	0.0	111.69	0.89	0.2	100.52	-11.18	-8.5

<sup>1</sup> Including the National Bank of Ukraine certificates of deposit

**Chart 18. Dynamics of securities other than shares issued by resident sectors**



**Chart 19. Net issues of securities other than shares issued by resident sectors**



**Table 16. Financial Soundness Indicators**

Descriptions for Deposit takers	2014	2015			
	December	March	June	September	December
<b>Core Financial Soundness Indicators</b>					
I1 Regulatory capital to risk-weighted assets	15.60	8.35	9.03	7.09	12.31
I2 Regulatory Tier 1 capital to risk-weighted assets	11.21	5.50	5.53	3.48	8.30
I3 Nonperforming loans net of provisions to capital	61.07	129.52	94.93	84.18	129.02
I4 Nonperforming loans to total gross loans	18.98	24.70	24.27	25.58	28.03
I5 Sectoral distribution of loans to total loans					
Residents	96.05	95.43	95.06	94.90	94.54
Deposit-takers	1.14	1.18	0.75	0.76	0.72
Central bank	0.00	0.00	0.00	0.00	0.00
Other financial corporations	2.38	2.08	1.83	1.68	1.49
General government	0.46	0.37	0.36	0.35	0.32
Nonfinancial corporations	72.42	71.89	73.66	75.54	75.29
Other domestic sectors	19.65	19.92	18.46	16.56	16.72
Nonresidents	3.95	4.57	4.94	5.10	5.46
I6 Return on assets	-4.24	-23.53	-12.10	-6.88	-5.54
I7 Return on equity	-31.95	-277.33	-147.25	-80.26	-65.51
I8 Interest margin to gross income	48.46	14.20	42.93	47.99	39.00
I9 Noninterest expenses to gross income	59.85	36.63	45.54	51.55	54.40
I10 Liquid assets to total assets	26.40	26.75	27.87	29.92	33.00
I11 Liquid assets to short-term liabilities	86.14	78.76	79.60	83.80	92.87
I12 Net open position in foreign exchange to capital	31.69	113.44	98.14	95.22	136.03
<b>Encouraged Financial Soundness Indicators</b>					
I13 Capital to assets	11.23	5.98	7.64	9.70	8.02
I14 Large exposures to capital	250.04	651.32	573.17	819.95	364.14
I15 Geographical distribution of loans to total loans					
Domestic economy	96.05	95.43	95.06	94.90	94.54
Advanced economies, excluding China	1.66	2.05	2.37	2.47	2.85
Other emerging market and developing countries, including China	2.29	2.52	2.57	2.63	2.62
I16 Gross asset position in financial derivatives to capital	2.83	13.15	8.33	6.40	12.55
I17 Gross liability position in financial derivatives to capital	0.27	0.72	0.22	0.19	0.19
I18 Trading income to total income	14.26	52.13	20.29	13.72	21.10
I19 Personnel expenses to noninterest expenses	35.48	36.17	35.37	35.24	36.14
I20 Spread between reference lending and deposit rates (basis points)	540	536	460	633	772
I21 Spread between highest and lowest interbank rates (basis points)	4660	4690	3157	2770	2401
I22 Customer deposits to total (noninterbank) loans	64.45	62.60	65.32	66.93	71.22
I23 Foreign-currency-denominated loans to total loans	47.77	57.37	54.44	54.85	57.90
I24 Foreign-currency-denominated liabilities to total liabilities	49.27	56.11	52.75	52.55	52.82
I39 Residential real estate loans to total gross loans	6.68	7.73	6.12	5.97	6.32
I40 Commercial real estate loans to total gross loans	1.45	1.47	1.32	1.41	1.24

Note. Financial soundness indicators are compiled according to the IMF Financial Soundness Indicators Compilation Guide (2006). More detailed information is available on page «Statistics. Financial Soundness Indicators» on the official website of the National Bank of Ukraine:

[http://www.bank.gov.ua/control/en/publish/category?cat\\_id=95132](http://www.bank.gov.ua/control/en/publish/category?cat_id=95132)

## Glossary

1. *Monetary aggregates* – liabilities of deposit-taking corporations (National Bank of Ukraine and other deposit-taking corporations (banks of Ukraine)), which have relatively high degree of liquidity to other sectors of the economy with the exception of deposit-taking corporations and general government sector. Liabilities of deposit-taking corporations include currency in circulation outside the deposit-taking corporations, transferable deposits, other deposits and securities other than shares.

Monetary aggregate M0 includes currency in circulation outside the deposit-taking corporations.

Monetary aggregate M1 – monetary aggregate M0 and transferable deposits in national currency (M1 - M0).

Monetary aggregate M2 – monetary aggregate M1 and transferable deposits in foreign currency and other deposits (M2 - M1).

Monetary aggregate M3 – monetary aggregate M2 and securities other than shares (M3 - M2).

2. *Transferable deposits* – financial assets that are exchangeable on demand at par and directly usable for making payments.

3. *Other deposits* – non-transferable deposits that are convertible into cash or transferable deposits in short terms such as demand deposits, that are not used directly to make payments, time deposits and savings deposits.

4. *Securities other than shares* – negotiable instruments serving as evidence that units have obligations to settle by means of providing cash, a financial instrument, or some other item of economic value. Some common types of securities are bonds, treasury bills, promissory notes, deposit certificates of corporations, etc.

5. *Lending for house purchase* – loans granted for the purpose of investing in housing, including building and home improvements.

6. *Net foreign assets* – balance between claims and liabilities vis-a-vis non-residents on cash in foreign currency, deposits, loans, securities and other accounts receivable/payable.

7. *Domestic credit* includes net claims of financial corporations on the central government and claims on other sectors of economy in national and foreign currencies.

8. *Net claims on the central government* are a balance between claims and liabilities of financial corporations vis-a-vis central government under the investments in government securities, under the loans granted and other accounts.

9. *Claims on other residents* include the claims of financial corporations under the loans, investments in securities etc with regard to state and local government, public and other non-financial corporations, other sectors of the economy (households and non-profit institutions serving households).

10. *The interest rate on new business of loans/deposits* are calculated for each maturity, borrower and currency as a weighted average of interest rates in terms of primary loan/deposit agreements concluded during the reporting period and the volume of additional contracts, which was a change either in the amount or interest rate or the amount and interest rate year on year. *Interest rates on outstanding loans/deposits* reflect the aggregate reward including both a charge for usage of funds granted extended in the form of a nominal interest rate and commissions and fees paid to the bank, which are an integral part of financial instrument income/expenses (equivalent of effective interest rate). Calculation of interest rates is based on the data on all outstanding loans/deposits as of the reporting date and those redeemed during the reporting month. Interest rates on outstanding loans/deposits are calculated as a ratio of recognized interest income/expenses on loans/deposits to average loan/deposit balances in per cent per annum.

11. *Transactions* – net financial flows for the period adjusted for the impact of non-operational effects (revaluations arising from changes in the prices of financial assets and/or the exchange rates).

12. *Net issues for the period* – financial flows for the period adjusted for the impact of revaluations arising from changes in the exchange rates.

## Technical notes

1. Annual growth rates for the adjusted monthly data  $a_t$  i.e. change in 12-months in the reporting period is calculated from the monthly financial transactions and the outstanding amounts at the beginning of each month using of the following formula:

$$a_t = \left[ \prod_{i=0}^{11} \left( 1 + \frac{F_{t-i}^M}{L_{t-1-i}} \right) - 1 \right] \cdot 100,$$

where transactions for month  $F_t^M = (L_t - L_{t-1}) - E_t^M - V_t^M - C_t^M$ ,  $L_t$  – outstanding amounts at end of period  $t$ ,  $E_t^M$  – valuation changes affected by the exchange rates changes,  $V_t^M$  – valuation changes affected by price changes,  $C_t^M$  – other changes in the volume of assets.

2. Annual growth rates  $a_t$  are calculated from quarterly transactions and outstanding amounts as follows:

$$a_t = \left[ \prod_{i=t-3}^t \left( 1 + \frac{F_i}{L_{i-1}} \right) - 1 \right] \cdot 100,$$

where  $F_t$  – transactions during the quarter  $t$ ,  $L_t$  – outstanding amounts at end of the quarter  $t$ .

3. Annual growth rates  $a_t$  are calculated from net issues and outstanding amounts as follows:

$$a_t = \left[ \prod_{i=t-3}^t \left( 1 + \frac{N_i}{L_{i-1}} \right) - 1 \right] \cdot 100,$$

where  $N_t$  – net issues during the quarter  $t$ ,  $L_t$  – outstanding amounts at end of the quarter  $t$ .