

Research Team:

Rafał Antczak, Piotr Bujak, Mariusz Jarmużek,
Małgorzata Markiewicz, Anna Orlik,
Katarzyna Piętka, Przemysław Woźniak,
Katarzyna Zawalińska
Supervised by: Łukasz Rawdanowicz

Sponsors



Graphic Design, Group Printed

CeDeWu Sp. z o.o.
CeDeWu Graphic Design (ANB Studio),
Agnieszka Natalia Bury

Publisher



CASE – Center for Social and Economic
Research Foundation
Sienkiewicza 12, 00-944 Warsaw, Poland
tel. (4822) 622 66 27, 828 61 33, fax (4822) 828 60 69
e-mail: case@case.com.pl, www: case.com.pl
ISSN 1507-3149

Distributor

CASE Advisors Ltd.
ul. Sienkiewicza 12, 00-944 Warszawa
tel./fax (48 22) 525 41 12
e-mail: doradcy@case.com.pl

For information about subscription please con-
tact Ms Anna Grom at the CASE-Advisors Ltd.
(pgtop@case.com.pl) or check the web site
(www.case-doradcy.com.pl).

Statistical appendix

Appendix 1.

Components of aggregate demand, 1996–2003 (% change, yoy) 2

Appendix 2.

Value added in major sectors of the economy,
1996–2003 (% change, yoy) 3

Appendix 3.

Contributions to GDP growth, 1997–2003 (%) 4

Appendix 4.

Household disposable income, 1998–2003 5

Appendix 5.

Selected indicators of the real sphere,
1998–2003 (% change, yoy) 6

Appendix 6.

Basic exchange rates, 1998–2003 (in zlotys) 7

Appendix 7.

Exports, imports and net exports, 1998–2003 (US\$ billion) 8

Appendix 8.

Selected items of the balance of payments, 1998–2003 (US\$ billion) . . . 9

Appendix 9.

Selected items of the government budget, 1998–2003 (zloty billion) . . 10

Appendix 10.

Public sector balance, 1999–2002 (% of GDP) 11

Appendix 11.

Employment, 1996–2003 ('000) 12

Appendix 12.

Unemployment, 1996–2003 13

Appendix 13.

Basic price indicators, 1998–2003 (% change, yoy) 14

Appendix 14.

Interest rates, 1998–2003 15

Appendix 15.

Money aggregates, 1998–2003 (zloty billion) 16

Appendix 1. Components of aggregate demand, 1996–2003 (% change, yoy)

		GDP zloty billion	GDP	Domestic demand	Consumption		Investment	Exports	Imports
					household	public			
1996	1Q-4Q	387.8	6.0	9.7	8.7	2.1	19.7	12.0	28.0
1997	1Q-4Q	472.4	6.8	9.2	6.9	3.2	21.7	12.2	21.4
1998	1Q-4Q	553.6	4.8	6.4	4.8	1.6	14.2	14.3	18.5
1999	1Q-4Q	615.1	4.1	4.8	5.2	1.3	6.8	-2.6	1.0
2000	1Q-4Q	685.6	4.0	2.8	2.6	1.2	3.1	32.5	23.2
Forecast									
2001	1Q-4Q	730.3	1.7	-0.3	2.1	0.4	-3.4	9.7	2.6
2002	1Q-4Q	784.6	2.4	2.9	3.2	0.2	4.1	8.0	8.4
2003	1Q-4Q	857.3	4.2	5.7	4.9	2.2	10.3	16.3	18.4
1996	1Q	85.3	3.4	8.0	8.5	2.2	13.1	14.4	36.7
	2Q	92.9	5.4	6.7	6.5	-6.4	20.5	21.6	29.1
	3Q	98.5	7.2	10.6	8.3	1.2	26.8	25.3	42.2
	4Q	111.2	7.9	13.0	11.4	12.0	17.3	-12.5	7.9
1997	1Q	103.8	6.9	7.9	6.7	3.4	19.6	20.5	24.2
	2Q	113.0	7.4	9.0	7.1	3.5	21.0	29.9	36.1
	3Q	119.2	6.7	9.4	7.1	3.4	21.2	8.1	18.4
	4Q	136.4	6.4	10.4	6.6	2.4	23.2	-3.5	11.7
1998	1Q	123.7	6.5	7.3	6.3	2.2	17.3	18.8	20.2
	2Q	133.4	5.3	5.7	4.1	1.6	14.6	24.7	23.0
	3Q	140.0	4.9	6.1	4.4	1.5	14.2	18.9	20.6
	4Q	156.5	3.0	6.6	4.6	1.1	12.9	-1.9	11.6
1999	1Q	134.4	1.6	3.4	4.6	1.3	5.9	-9.9	-3.2
	2Q	147.0	2.9	4.6	5.1	1.2	6.5	-4.6	1.6
	3Q	155.3	5.0	5.5	5.6	1.4	6.8	2.0	4.0
	4Q	178.4	6.2	5.7	5.7	1.3	7.3	2.7	1.6
2000	1Q	152.4	5.9	5.1	4.8	1.1	5.6	30.4	23.3
	2Q	166.3	5.0	3.3	2.9	1.1	3.0	37.7	25.4
	3Q	171.1	3.1	1.4	1.1	1.5	2.4	31.2	20.2
	4Q	195.8	2.4	1.8	1.6	1.3	2.6	30.9	23.9
2001	1Qe1	165.3	2.3	-1.4	1.5	0.2	1.5	17.2	3.3
	2Qe1	176.5	0.9	-1.2	1.7	0.4	-8.4	8.1	1.2
	3Qe2	181.1	1.2	-0.4	2.1	0.4	-6.5	6.7	1.5
Forecast									
	4Q	207.4	2.3	1.4	3.2	0.4	-0.7	7.9	4.2
2002	1Q	175.8	2.1	2.0	2.9	0.3	0.3	6.0	5.0
	2Q	189.0	1.9	2.0	3.0	0.2	0.5	6.7	6.2
	3Q	193.8	2.0	2.7	3.3	0.1	3.0	8.6	9.6
	4Q	225.9	3.7	4.6	3.5	0.1	8.4	10.5	12.1
2003	1Q	190.5	3.3	4.4	4.3	2.1	7.2	15.0	15.3
	2Q	206.2	4.0	5.0	4.8	2.0	8.0	15.5	16.3
	3Q	212.1	4.5	5.8	5.1	2.3	10.0	16.8	18.4
	4Q	248.6	4.8	7.4	5.3	2.4	13.0	17.7	23.1

Source: Data and estimates (e1) – CSO; estimates (e2) and forecasts – CASE.

Notes: 1. Domestic demand is defined as the sum consumption of households and non-commercial institutions, public consumption and investment. This table does not provide separate indicators for the consumption for non-commercial institutions.

2. Data are not seasonally adjusted.

3. Data and estimates at annual average prices of previous year, forecasts at average prices of 2000.

4. GDP in billion zloty at current prices.

Appendix 2. Value added in major sectors of the economy, 1996–2003 (% change, yoy)

		GDP	Gross value-added					
			total	agriculture and forestry	manufacturing mining, etc.	construction	market services	non-market services
1996	1Q-4Q	6.0	5.3	2.5	7.6	2.8	5.3	2.6
1997	1Q-4Q	6.8	6.4	1.0	10.3	13.6	4.4	2.9
1998	1Q-4Q	4.8	4.7	5.7	4.3	9.3	4.8	2.3
1999	1Q-4Q	4.1	3.7	-0.1	3.0	3.5	6.0	-0.6
2000	1Q-4Q	4.0	3.8	-6.8	6.8	-0.6	4.6	1.3
Forecas								
2001	1Q-4Q	1.7	1.4	1.4	0.3	-8.3	4.1	0.5
2002	1Q-4Q	2.4	2.2	-0.4	2.4	0.4	3.8	0.4
2003	1Q-4Q	4.2	3.8	4.5	5.8	7.1	4.1	0.7
1996	1Q	3.4	2.5	-2.0	6.1	-18.5	3.3	2.4
	2Q	5.4	4.4	2.2	6.9	-4.2	5.2	1.8
	3Q	7.2	6.5	2.7	9.8	5.0	6.1	2.9
	4Q	7.9	7.7	6.7	7.6	21.9	6.5	3.2
1997	1Q	6.9	6.4	-1.5	8.7	14.7	5.5	4.9
	2Q	7.4	6.7	1.7	11.5	15.6	4.5	1.3
	3Q	6.7	6.5	2.7	10.7	13.3	4.3	1.1
	4Q	6.4	6.2	0.3	10.2	12.2	3.5	3.8
1998	1Q	6.5	6.4	0.8	10.5	14.6	4.3	3.7
	2Q	5.3	5.2	4.3	5.3	10.8	5.6	0.2
	3Q	4.9	4.8	5.2	3.3	8.8	5.9	1.4
	4Q	3.0	2.9	12.8	-1.1	6.1	3.6	3.1
1999	1Q	1.6	1.3	0.2	-4.3	2.0	5.6	-0.6
	2Q	2.9	2.6	-0.9	-0.3	2.8	5.4	-0.5
	3Q	5.0	4.6	-0.1	5.9	3.2	6.2	-0.8
	4Q	6.2	5.9	0.4	9.7	4.9	6.6	-0.5
2000	1Q	5.9	5.7	-6.4	10.1	4.3	5.4	2.3
	2Q	5.0	4.8	-7.2	9.3	0.8	5.2	0.8
	3Q	3.1	2.9	-6.5	6.4	-2.2	3.3	1.3
	4Q	2.4	2.3	-7.1	2.5	-2.4	4.5	0.8
2001	1Qe1	2.3	2.1	-7.3	3.4	-5.2	3.5	0.1
	2Qe1	0.9	0.8	-6.7	-1.2	-8.0	3.7	0.4
	3Qe2	1.2	0.9	7.1	-1.3	-10.7	4.3	0.3
Forecas								
	4Q	2.3	1.7	8.9	0.6	-8.0	4.9	1.0
2002	1Q	2.1	1.8	4.0	1.0	-4.9	3.9	0.5
	2Q	1.9	1.7	4.0	1.1	-4.6	3.6	0.4
	3Q	2.0	1.9	-4.9	2.0	1.2	3.5	0.1
	4Q	3.7	3.3	-2.5	5.1	5.0	4.0	0.5
2003	1Q	3.3	3.0	-3.3	4.3	4.9	4.0	0.9
	2Q	4.0	3.7	8.0	5.1	5.4	4.1	0.5
	3Q	4.5	4.1	4.9	6.2	6.8	4.3	0.8
	4Q	4.7	4.4	5.6	7.2	9.2	4.0	0.6

Source: Data and estimates (e1) – CSO; estimates (e2) and forecasts – CASE.

Notes: 1. Data are not seasonally adjusted.

2. Data and estimates at annual average prices of previous year, forecasts at average prices of 2000.

Appendix 3. Contributions to GDP growth, 1997–2003 (%)

		GDP	Household consumption	Public consumption	Investment in fixed assets	Stock- building	Net exports	Exports	Imports
1997	1Q-4Q	6.8	4.3	0.6	4.5	0.1	-2.6	3.0	-5.5
1998	1Q-4Q	4.8	3.0	0.3	3.3	0.1	-1.9	3.7	-5.5
1999	1Q-4Q	4.1	3.3	0.2	1.7	-0.1	-1.0	-0.7	-0.3
2000	1Q-4Q	4.0	1.7	0.2	0.8	0.3	0.9	8.5	-7.5
Forecast									
2001	1Q-4Q	1.7	1.4	0.1	-0.9	-0.9	2.0	3.0	-1.0
2002	1Q-4Q	2.4	2.0	0.0	1.0	0.0	-0.7	2.5	-3.2
2003	1Q-4Q	4.2	3.1	0.4	2.6	0.0	-1.9	5.1	-7.0

Source: Data – CSO, and forecasts – CASE.

Notes: 1. Contributions to GDP growth were calculated using the following formula:

$(\text{annual increase in } X / \text{annual increase in GDP}) * \text{rate of growth of } X.$

2. GDP growth and the sum of contributions to GDP may not add up due to approximations.

Appendix 4. Household disposable income, 1998–2003

		Disposable income	Wages and salaries	Social benefits	Savings rate	Real disposable income
		% change	% change	% change	%	% change
1998	1Q-4Q	17.0	17.8	12.8	13.2	4.6
1999	1Q-4Q	9.5	9.9	12.2	10.8	2.1
2000	1Q-4Q	11.2	8.7	8.7	9.8	1.0
Forecast						
2001	1Q-4Q	7.1	5.1	11.0	9.4	1.5
2002	1Q-4Q	6.4	6.0	8.0	8.4	1.8
2003	1Q-4Q	8.5	7.3	4.7	7.7	3.8
1998	1Q	20.9	21.4	14.6	11.4	6.1
	2Q	16.3	18.4	14.1	13.1	2.8
	3Q	17.2	16.0	12.1	12.4	5.4
	4Q	14.2	15.5	12.8	15.6	4.6
1999	1Q	13.8	9.4	11.2	13.4	7.2
	2Q	8.8	9.6	10.3	9.0	2.2
	3Q	6.5	10.6	15.4	9.0	-0.6
	4Q	9.2	10.4	12.4	11.5	0.0
2000	1Q	8.7	11.2	12.2	8.0	-1.5
	2Q	13.5	8.4	10.2	10.3	3.1
	3Q	10.7	7.5	6.8	8.2	-0.1
	4Q	12.0	7.6	6.3	12.5	2.6
2001	1Q	11.9	7.3	7.6	11.0	4.9
	2Q	3.8	4.9	8.7	6.9	-2.6
	3Q	7.0	4.6	13.9	8.0	2.0
Forecast						
	4Q	6.0	4.2	13.6	11.3	1.7
2002	1Q	6.2	4.8	11.2	9.8	1.5
	2Q	6.6	5.8	10.8	6.8	2.3
	3Q	6.1	6.6	5.3	6.9	1.7
	4Q	6.8	6.9	5.2	10.1	1.9
2003	1Q	8.2	8.1	5.3	9.0	3.4
	2Q	8.4	7.4	5.2	6.4	3.7
	3Q	8.5	7.4	4.1	6.0	3.7
	4Q	8.9	6.5	4.2	9.4	4.3

Source: Annual data – CSO, quarterly data and forecasts – CASE.

Note: 1. Savings rate is calculated as a percentage of nominal disposable income, quarterly data – estimates of CASE.

2. Social security benefits include: pensions and other social benefits, unemployment benefits, early-retirement benefits and social security.

3. Wages and salaries for the entire economy – according to the CSO definition (Table 14 in Statistical Bulletin).

Appendix 5. Selected indicators of the real sphere, 1998–2003 (% change, yoy)

		Output		Corporate sector	
		manufacturing, mining etc.	construction	average employment	real gross wages
1998	1Q-4Q	3.5	11.0	1.9	3.8
1999	1Q-4Q	3.6	9.4	-1.0	3.1
2000	1Q-4Q	6.8	-0.9	-3.3	1.2
Forecast					
2001	1Q-4Q	0.2	-8.8	-2.8	1.1
2002	1Q-4Q	2.1	0.6	-0.9	1.9
2003	1Q-4Q	4.8	7.1	0.7	3.3
1998	1Q	10.9	24.0	2.3	4.7
	2Q	6.0	10.2	2.3	3.4
	3Q	3.9	13.2	1.9	4.0
	4Q	-0.8	4.4	1.0	4.4
1999	1Q	-3.1	0.6	-0.1	2.0
	2Q	1.2	4.0	-1.2	3.9
	3Q	7.4	3.2	-1.7	3.6
	4Q	11.7	6.4	-1.6	1.4
2000	1Q	10.7	4.8	-3.6	5.3
	2Q	9.6	-1.4	-3.2	2.7
	3Q	6.7	-2.9	-2.9	-0.2
	4Q	2.6	-3.4	-2.8	-0.3
2001	1Q	4.1	-8.9	-2.5	1.6
	2Q	-0.9	-10.8	-3.0	-0.2
	3Q	-1.2	-11.7	-3.8	2.0
Forecast					
2002	4Q	0.8	-7.7	-1.8	1.6
	1Q	1.2	-4.6	-1.5	1.7
	2Q	1.2	-4.0	-1.4	3.0
	3Q	2.0	1.4	-0.3	2.5
2003	4Q	5.0	5.2	0.3	1.6
	1Q	4.2	5.1	0.5	3.8
	2Q	4.9	5.3	0.8	3.5
	3Q	5.9	6.7	0.8	3.3
	4Q	6.9	9.2	0.9	3.0

Source: Data – CSO, forecasts – CASE.

Notes: 1. Data on construction calculated from monthly data.

2. Annual data cover the whole statistical population.

3. Data prior to 2000 are not comparable due to the change in the CSO's statistical population.

Appendix 6. Basic exchange rates, 1998–2003 (in zlotys)

		US\$	DM	Euro	Real effective exchange rate
1998	1Q-4Q	3.49	1.99	-	151.10
1999	1Q-4Q	3.97	2.16	4.23	145.70
2000	1Q-4Q	4.35	2.05	4.01	158.60
Forecast					
2001	1Q-4Q	4.12	1.90	3.71	-
2002	1Q-4Q	4.34	2.08	4.06	-
2003	1Q-4Q	4.48	2.22	4.34	-
1998	1Q	3.51	1.93	-	151.67
	2Q	3.44	1.92	-	153.79
	3Q	3.55	2.02	-	148.67
	4Q	3.48	2.09	-	145.49
1999	1Q	3.76	2.16	4.22	142.43
	2Q	3.96	2.14	4.19	146.07
	3Q	3.97	2.13	4.17	150.13
	4Q	4.18	2.22	4.34	146.63
2000	1Q	4.11	2.08	4.07	158.10
	2Q	4.38	2.09	4.08	159.20
	3Q	4.39	2.03	3.98	161.47
	4Q	4.50	2.00	3.92	163.93
2001	1Q	4.09	1.93	3.78	169.83
	2Q	3.99	1.78	3.49	181.97
	3Q	4.22	1.92	3.76	169.47
Forecast					
	4Q	4.20	1.95	3.82	-
2002	1Q	4.27	2.01	3.94	-
	2Q	4.32	2.06	4.03	-
	3Q	4.36	2.10	4.11	-
	4Q	4.40	2.13	4.17	-
2003	1Q	4.44	2.18	4.27	-
	2Q	4.47	2.21	4.32	-
	3Q	4.49	2.22	4.34	-
	4Q	4.52	2.26	4.41	-

Source: NBP, real effective exchange rate – JP Morgan, forecasts – CASE.

Notes: 1. Average exchange rates.

2. Real effective exchange rate, 1990=100 (increase in the indicator = appreciation).

Appendix 7. Exports, imports and net exports, 1998–2003 (US\$ billion)

		Exports		Imports		Net exports	
		NBP	CSO	NBP	CSO	NBP	CSO
1998	1Q-4Q	30.12	28.22	43.84	47.05	-13.72	-18.83
1999	1Q-4Q	26.35	27.41	40.73	45.91	-14.38	-18.50
2000	1Q-4Q	28.26	31.65	41.42	48.94	-13.17	-17.29
Forecast							
2001	1Q-4Q	30.45	35.01	42.13	49.01	-11.68	-14.00
2002	1Q-4Q	31.84	35.99	45.01	51.52	-13.17	-15.53
2003	1Q-4Q	34.29	38.73	49.23	56.05	-14.94	-17.32
1998	1Q	7.06	7.01	10.30	11.08	-3.24	-4.07
	2Q	7.67	7.04	10.55	11.69	-2.88	-4.65
	3Q	7.80	6.89	11.10	12.00	-3.30	-5.10
	4Q	7.60	7.27	11.90	12.28	-4.31	-5.00
1999	1Q	7.01	6.57	9.83	10.42	-2.82	-3.85
	2Q	6.28	6.56	9.64	11.00	-3.36	-4.44
	3Q	6.21	6.75	10.10	11.50	-3.89	-4.75
	4Q	6.84	7.53	11.15	12.99	-4.31	-5.46
2000	1Q	6.32	7.55	10.17	11.77	-3.85	-4.22
	2Q	6.84	7.53	9.86	12.28	-3.02	-4.75
	3Q	7.17	8.02	10.51	12.00	-3.34	-3.99
	4Q	7.93	8.55	10.89	12.88	-2.96	-4.33
2001	1Q	7.46	9.16	10.59	12.41	-3.13	-3.25
	2Q	7.51	8.56	10.29	12.40	-2.78	-3.84
	3Q	7.45	8.26	10.24	11.68	-2.79	-3.42
Forecast							
2002	4Q	7.06	7.01	10.30	11.08	-3.24	-4.07
	1Q	7.67	7.04	10.55	11.69	-2.88	-4.65
	2Q	7.80	6.89	11.10	12.00	-3.30	-5.10
	3Q	7.60	7.27	11.90	12.28	-4.31	-5.00
2003	4Q	7.01	6.57	9.83	10.42	-2.82	-3.85
	1Q	6.28	6.56	9.64	11.00	-3.36	-4.44
	2Q	6.21	6.75	10.10	11.50	-3.89	-4.75
	3Q	6.84	7.53	11.15	12.99	-4.31	-5.46
	4Q	6.32	7.55	10.17	11.77	-3.85	-4.22

Source: Data – NBP, CSO; forecasts – CASE.

Notes: In 3Q01 data by CSO – CASE estimates and by NBP – NBP preliminary data.

Appendix 8. Selected items of the balance of payments, 1998–2003 (US\$ billion)

		Balance on							Gross reserve assets	
		current account		merchandise trade	unclassified current transactions	capital and financial account	Net direct investment	Net portfolio investment		Net other investment
		% of GDP								
1998	1Q-4Q	-6.86	-4.33	-13.72	6.00	11.67	4.97	1.33	5.30	28.28
1999	1Q-4Q	-11.57	-7.48	-14.38	3.64	8.25	6.35	1.45	0.41	27.31
2000	1Q-4Q	-9.98	-6.34	-13.17	3.99	7.75	8.17	2.77	-3.21	27.46
Forecast										
2001	1Q-4Q	-7.20	-4.07	-11.68	4.31	6.86	6.15	1.85	-0.81	28.79
2002	1Q-4Q	-9.14	-5.04	-13.17	4.40	8.00	5.05	1.85	1.10	29.57
2003	1Q-4Q	-11.00	-5.73	-14.94	4.59	9.88	5.52	2.47	1.89	30.39
1998	1Q	-2.00	-3.30	-3.24	1.16	3.24	1.00	0.21	2.01	24.40
	2Q	-0.67	-2.87	-2.88	1.72	2.19	1.26	0.36	0.57	27.12
	3Q	-1.22	-2.98	-3.30	1.87	3.54	1.68	-0.86	2.71	28.10
	4Q	-2.98	-4.33	-4.31	1.25	2.70	1.02	1.61	0.01	28.28
1999	1Q	-2.24	-4.47	-2.82	0.80	1.85	1.13	-0.29	0.99	28.61
	2Q	-2.76	-5.85	-3.36	0.79	1.29	1.04	0.03	0.22	27.38
	3Q	-3.01	-7.00	-3.89	1.15	2.06	2.47	-0.09	-0.31	27.89
	4Q	-3.56	-7.48	-4.31	0.90	3.05	1.71	1.80	-0.50	27.31
2000	1Q	-3.52	-8.23	-3.85	0.73	2.08	1.55	2.44	-1.89	26.24
	2Q	-2.12	-7.78	-3.02	1.06	1.19	1.12	0.21	-0.15	25.99
	3Q	-2.25	-7.30	-3.34	1.08	1.42	0.90	-0.08	0.61	25.42
	4Q	-2.09	-6.34	-2.96	1.12	3.05	4.59	0.19	-1.78	27.46
2001	1Q	-2.14	-5.35	-3.13	0.73	2.29	1.21	2.38	-1.06	28.00
	2Q	-2.21	-5.20	-2.78	0.97	1.02	1.46	-0.95	0.15	27.11
	3Q	-1.00	-4.35	-2.79	1.37	1.21	1.32	-0.03	0.34	28.30
Forecast										
	4Q	-1.85	-4.07	-2.99	1.24	2.35	2.15	0.45	-0.25	28.79
2002	1Q	-2.34	-4.15	-2.98	0.79	2.14	1.15	0.65	0.34	28.98
	2Q	-2.08	-4.09	-3.07	1.05	1.64	1.10	0.30	0.24	29.18
	3Q	-2.24	-4.75	-3.45	1.35	2.16	1.60	0.25	0.31	29.37
	4Q	-2.48	-5.04	-3.66	1.21	2.06	1.20	0.65	0.21	29.57
2003	1Q	-2.83	-5.26	-3.38	0.83	2.63	1.16	0.62	0.85	29.78
	2Q	-2.45	-5.40	-3.43	1.09	2.06	1.37	0.45	0.24	30.00
	3Q	-2.76	-5.59	-4.02	1.40	2.43	1.46	0.60	0.37	30.19
	4Q	-2.96	-5.73	-4.11	1.27	2.76	1.53	0.80	0.43	30.39

Source: Data – NBP; forecasts – CASE.

Notes: 3Q01 data – preliminary.

Appendix 9. Selected items of the government budget, 1998–2003 (zloty billion)

		Revenues		Expenditures	Budget deficit	
		total	of which tax revenues		zloty billion	% of GDP
1998	1Q-4Q	126.6	120.0	139.8	-13.2	-2.4
1999	1Q-4Q	125.9	118.3	138.4	-12.5	-2.0
2000	1Q-4Q	135.7	124.7	151.1	-15.4	-2.2
Forecast						
2001	1Q-4Q	140.1	122.9	169.3	-29.1	-4.0
2002	1Q-4Q	142.9	131.7	183.0	-40.1	-5.1
2003	1Q-4Q	156.1	143.9	191.2	-35.1	-4.1
1998	1Q	28.7	27.0	32.3	-3.5	-2.9
	2Q	29.3	27.7	35.1	-5.8	-4.4
	3Q	33.1	31.4	34.1	-1.1	-0.8
	4Q	35.5	33.8	38.3	-2.8	-1.8
1999	1Q	27.7	25.9	36.5	-8.7	-6.5
	2Q	28.8	26.6	31.4	-2.6	-1.8
	3Q	32.4	30.9	32.4	0.0	0.0
	4Q	37.0	34.9	38.2	-1.2	-0.7
2000	1Q	30.9	28.8	37.9	-6.9	-4.5
	2Q	33.3	28.1	37.0	-3.7	-2.2
	3Q	33.6	32.9	37.0	-3.4	-2.0
	4Q	37.8	35.0	39.1	-1.3	-0.7
2001	1Q	31.6	27.7	46.6	-15.0	-9.1
	2Q	36.1	27.2	39.9	-3.8	-2.2
	3Q	35.1	33.0	38.1	-3.0	-1.7
Forecast						
	4Q	37.3	35.0	44.6	-7.3	-3.5
2002	1Q	31.9	29.1	45.9	-14.0	-8.0
	2Q	31.9	29.1	44.8	-12.9	-6.8
	3Q	38.1	35.3	44.9	-6.8	-3.5
	4Q	41.0	38.2	47.4	-6.5	-2.9
2003	1Q	34.6	31.5	48.0	-13.4	-7.0
	2Q	34.8	31.8	46.9	-12.0	-5.8
	3Q	41.7	38.6	46.9	-5.2	-2.4
	4Q	45.0	42.0	49.5	-4.5	-1.8

Source: Data – Ministry of Finance; forecasts – CASE.

Appendix 10. Public sector balance, 1999–2002 (% of GDP)

	1999	2000 ¹	2001 ²	2001 CASE	2002 CASE
Government budget balance	-2.0	-2.2	-3.9	-4.0	-5.1
Local government balance	-0.2	-0.5	-0.7	-0.7	-0.6
Funds balance	-0.9	-0.1	-0.3	-0.3	0.1
Regional Health Funds balance	-0.1	0.1	0.0	0.0	0.0
General government balance	-3.2	-2.6	-4.9	-5.0	-5.7
Compensations	-	-0.5	-0.3	-0.3	-0.4
II pillar in the social insurance system	0.5	1.1	1.3	1.3	1.5
Expenditures financed by revenues from UMTS licenses	-	-	-0.4	-0.4	-
Total effect on domestic savings (i.e., economic deficit)	-2.7	-2.0	-4.3	-4.4	-4.6

Source: CASE and the 2001 budget amendment.

Notes: 1. 2000 data take into account the government revision.

2. Data for 2001 assume the fulfilment of the draft of the 2002 Budget Act.

Appendix 11. Employment, 1996–2003 ('000)

		Working population	Paid employment					
			total	agriculture and forestry	manufacturing, mining etc.	construction	market services	non-market services
1996	1Q-4Q	14838	8548	179	3245	564	2197	2158
1997	1Q-4Q	15439	8648	166	3221	584	2281	2184
1998	1Q-4Q	15800	8752	150	3197	603	2386	2206
1999	1Q-4Q	15397	8702	130	3056	602	2475	2229
2000	1Q-4Q	15299	8120	118	2791	538	2305	2172
Forecast								
2001	1Q-4Q	15042	7889	109	2660	500	2235	2196
2002	1Q-4Q	14666	7804	101	2630	487	2210	2199
2003	1Q-4Q	14472	7770	92	2613	492	2211	2176
1996	1Q	14763	8487	175	3242	550	2182	2138
	2Q	14977	8513	183	3240	557	2189	2140
	3Q	14682	8522	183	3238	568	2189	2137
	4Q	14932	8671	176	3261	579	2228	2218
1997	1Q	15048	8567	159	3234	560	2251	2155
	2Q	15374	8645	165	3218	583	2281	2185
	3Q	15594	8675	166	3215	593	2302	2184
	4Q	15739	8706	173	3215	601	2291	2213
1998	1Q	15837	8717	148	3217	586	2360	2194
	2Q	15830	8759	153	3212	602	2378	2202
	3Q	15766	8714	151	3172	605	2393	2186
	4Q	15767	8817	146	3188	620	2413	2240
1999	1Q	15472	8747	131	3106	589	2461	2252
	2Q	15439	8717	132	3067	599	2476	2231
	3Q	15268	8649	128	3030	606	2482	2192
	4Q	15410	8695	129	3020	614	2482	2241
2000	1Q	15352	8139	113	2823	531	2302	2173
	2Q	15335	8106	113	2796	536	2311	2155
	3Q	15272	8083	113	2781	542	2320	2133
	4Q	15237	8152	131	2765	543	2285	2227
2001	1Q	15169	7896	105	2690	501	2248	2166
	2Q	15107	7852	108	2665	495	2241	2154
	3Q	15029	7791	110	2628	487	2253	2124
Forecast								
2002	4Q	14864	8017	114	2658	515	2198	2339
	1Q	14743	7764	95	2633	470	2196	2184
	2Q	14637	7732	100	2627	473	2193	2152
	3Q	14762	7756	101	2625	490	2234	2120
2003	4Q	14523	7966	106	2634	517	2219	2339
	1Q	14552	7730	86	2611	469	2201	2178
	2Q	14503	7672	92	2609	476	2183	2127
	3Q	14552	7708	93	2614	499	2234	2083
	4Q	14280	7970	97	2617	523	2227	2315

Source: Annual data – CSO; quarterly data of the working population and forecasts – CASE.

Notes: 1. Employment according to CSO definition from Statistical Bulletin.

2. Employment concerns entities of the national economy which employed more than 5 people until the end-1999 and 9 people starting from 2000.

Appendix 12. Unemployment, 1996–2003

		Registered unemployment		Unemployment LFS	
		('000)	%	('000)	%
1996	1Q-4Q	2360	13.2	1961	11.5
1997	1Q-4Q	1826	10.3	1737	10.2
1998	1Q-4Q	1831	10.4	1827	10.6
1999	1Q-4Q	2350	13.1	2641	15.3
2000	1Q-4Q	2703	15.1	2760	16.0
Forecast					
2001	1Q-4Q	3064	17.2	-	-
2002	1Q-4Q	3315	18.5	-	-
2003	1Q-4Q	3368	18.8	-	-
1996	1Q	2726	15.4	2349	14.0
	2Q	2508	14.3	2103	12.4
	3Q	2341	13.5	2018	11.6
	4Q	2360	13.2	1961	11.5
1997	1Q	2236	12.6	2176	12.8
	2Q	2040	11.6	1927	11.3
	3Q	1854	10.6	1853	10.7
	4Q	1826	10.3	1737	10.2
1998	1Q	1846	10.4	1896	11.1
	2Q	1688	9.6	1753	10.2
	3Q	1677	9.6	1786	10.3
	4Q	1831	10.4	1827	10.6
1999	1Q	2170	12.0	2141	12.5
	2Q	2074	11.6	-	-
	3Q	2178	12.1	-	-
	4Q	2350	13.1	2641	15.3
2000	1Q	2532	14.0	2880	16.7
	2Q	2437	13.6	2825	16.3
	3Q	2529	14.0	2675	15.4
	4Q	2703	15.1	2760	16.0
2001	1Q	2899	16.1	3158	18.2
	2Q	2849	15.9	3208	18.4
	3Q	2920	16.3	-	-
Forecast					
	4Q	3064	17.2	-	-
2002	1Q	3189	17.8	-	-
	2Q	3135	17.5	-	-
	3Q	3207	17.9	-	-
	4Q	3315	18.5	-	-
2003	1Q	3368	18.8	-	-
	2Q	3279	18.3	-	-
	3Q	3297	18.4	-	-
	4Q	3368	18.8	-	-

Source: Data – CSO; forecasts – CASE.

Notes: The CSO resumed publishing LFS (labour force survey) statistics in 4Q99.

Appendix 13. Basic price indicators, 1998–2003 (% change, yoy)

		CPI	PPI	Currency basket	GDP deflator
1998	1Q-4Q	11.8	7.3	6.3	11.8
1999	1Q-4Q	7.3	5.6	5.6	6.8
2000	1Q-4Q	10.1	7.9	3.7	7.2
Forecast					
2001	1Q-4Q	5.6	2.1	-8.6	4.8
2002	1Q-4Q	4.6	3.5	7.9	4.9
2003	1Q-4Q	4.5	3.8	5.3	4.9
1998	1Q	13.9	9.2	13.1	11.9
	2Q	13.1	8.1	6.7	12.1
	3Q	11.2	6.7	3.9	12.0
	4Q	9.2	5.2	1.6	11.4
1999	1Q	6.2	4.1	2.8	7.0
	2Q	6.4	5.1	7.5	7.1
	3Q	7.2	5.8	3.5	5.6
	4Q	9.2	7.5	8.6	7.4
2000	1Q	10.3	7.9	4.0	7.1
	2Q	10.0	8.1	5.4	7.8
	3Q	10.8	8.5	4.6	6.9
	4Q	9.2	6.9	0.9	7.2
2001	1Q	6.7	4.2	-9.5	6.0
	2Q	6.6	2.2	-16.1	5.2
	3Q	4.9	0.8	-4.8	4.6
Forecast					
	4Q	4.2	1.1	-4.1	3.6
2002	1Q	4.8	2.9	4.4	4.3
	2Q	4.3	3.5	12.6	5.1
	3Q	4.5	3.9	7.1	4.9
	4Q	4.8	3.6	7.5	5.1
2003	1Q	4.6	3.8	6.6	4.8
	2Q	4.5	3.5	5.7	4.9
	3Q	4.6	4.0	4.5	4.7
	4Q	4.4	4.0	4.6	5.0

Source: Data – CSO (currency basket – NBP); GDP deflator estimates and forecasts – CASE.

Notes: Currency basket consists: euro – 60% and US\$ – 40%.

Appendix 14. Interest rates, 1998–2003

		Rediscount rate	Lombard rate	3-month WIBOR	28-day repo rate
1998	1Q	24.5	27.0	25.1	23.0
	2Q	23.5	26.0	22.1	21.5
	3Q	21.5	24.0	18.8	18.0
	4Q	18.3	20.0	15.9	15.5
1999	1Q	15.5	17.0	13.2	13.0
	2Q	15.5	17.0	13.3	13.0
	3Q	15.5	17.0	14.3	14.0
	4Q	19.0	20.5	19.3	16.5
2000	1Q	20.0	21.5	18.4	17.5
	2Q	20.0	21.5	18.5	17.5
	3Q	21.5	23.0	19.6	19.0
	4Q	21.5	23.0	19.6	19.0
2001	1Q	19.5	21.0	18.0	17.0
	2Q	18.0	19.5	16.9	15.5
	3Q	17.0	18.5	14.7	14.5
Forecast					
	4Q	15.0	16.5	13.5	12.5
2002	1Q	15.0	16.5	13.2	12.5
	2Q	14.5	16.0	12.6	12.0
	3Q	13.5	15.0	12.2	11.0
	4Q	13.5	15.0	12.0	11.0
2003	1Q	12.5	14.0	11.6	10.0
	2Q	12.5	14.0	11.5	10.0
	3Q	12.5	14.0	11.2	10.0
	4Q	11.5	13.0	10.9	9.0

Source: Data – NBP; forecasts – CASE.

Notes: End-period forecasts; WIBOR monthly average.

Appendix 15. Money aggregates, 1998–2003 (zloty billion)



		M0	M2	Cash	Zloty deposits			Foreign currency deposits	Credits			Net liabilities of the budgetary sector
					total	individual	corporate		total	individual	corporate	
1998	1Q-4Q	53.6	220.8	30.2	156.9	109.6	47.3	33.6	138.5	23.9	114.6	61.3
1999	1Q-4Q	52.8	263.5	38.1	185.7	124.1	61.6	39.7	175.9	36.6	139.3	64.7
2000	1Q-4Q	48.8	294.4	34.1	217.2	154.4	63.3	43.0	206.3	48.2	158.2	50.9
<i>Forecast</i>												
2001	1Q-4Q	49.6	333.1	36.3	244.3	179.9	64.4	52.5	232.0	57.1	174.9	63.3
2002	1Q-4Q	53.4	363.3	37.8	269.6	196.0	73.6	55.8	257.8	65.6	192.2	64.0
2003	1Q-4Q	56.1	396.1	39.2	297.7	214.1	83.6	59.2	285.2	72.6	212.6	63.5
1998	1Q	44.4	180.4	27.3	123.3	88.9	34.4	29.8	114.7	18.6	96.1	50.3
	2Q	49.7	192.3	29.7	132.9	95.1	37.8	29.7	122.1	20.1	102.0	50.7
	3Q	49.7	203.5	30.3	142.3	101.8	40.5	30.9	131.0	21.9	109.0	56.8
	4Q	53.6	220.8	30.2	156.9	109.6	47.3	33.6	138.5	23.9	114.6	61.3
1999	1Q	53.9	230.3	32.0	161.2	116.5	44.6	37.1	148.6	25.3	123.3	63.9
	2Q	59.1	236.2	33.6	166.2	119.2	47.0	36.4	155.8	28.3	127.5	65.2
	3Q	46.2	246.0	34.2	173.3	122.4	51.0	38.5	167.4	32.4	135.0	61.6
	4Q	52.8	263.5	38.1	185.7	124.1	61.6	39.7	175.9	36.6	139.3	64.7
2000	1Q	45.2	262.0	33.0	186.9	134.8	52.1	42.2	184.0	38.5	145.6	55.1
	2Q	51.8	284.9	35.1	205.3	141.6	63.7	44.4	203.4	50.8	152.6	58.5
	3Q	51.1	280.6	34.7	201.1	145.1	56.0	44.8	204.1	45.6	158.5	57.9
	4Q	48.8	294.4	34.1	217.2	154.4	63.3	43.0	206.3	48.2	158.2	50.9
2001	1Q	48.3	301.0	33.5	221.4	164.6	56.8	46.1	211.0	48.4	162.6	56.5
	2Q	48.5	321.4	35.0	226.7	169.1	57.6	45.9	213.5	50.2	163.4	57.1
	3Q	48.3	321.4	36.6	233.5	173.1	60.5	51.3	226.2	54.2	172.0	53.2
<i>Forecast</i>												
	4Q	49.6	333.1	36.3	244.3	179.9	64.4	52.5	232.0	57.1	174.9	63.3
2002	1Q	49.1	337.5	35.8	248.5	184.4	64.2	53.2	238.0	58.5	179.5	55.0
	2Q	54.1	343.5	37.4	253.4	188.2	65.3	52.7	242.7	60.8	181.9	57.8
	3Q	51.8	353.6	37.5	261.9	193.0	68.8	54.3	251.0	62.8	188.2	58.1
	4Q	53.4	363.3	37.8	269.6	196.0	73.6	55.8	257.8	65.6	192.2	64.0
2003	1Q	53.0	372.1	37.3	278.3	206.0	72.3	56.5	264.1	66.8	197.3	55.1
	2Q	56.7	374.7	38.9	280.0	205.8	74.2	55.9	270.0	68.7	201.3	60.2
	3Q	54.5	386.0	38.9	289.5	211.5	78.0	57.6	277.9	70.3	207.6	58.9
	4Q	56.1	396.1	39.2	297.7	214.1	83.6	59.2	285.2	72.6	212.6	63.5

Source: Data – NBP; forecasts – CASE.