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Appendix 1. Components of aggregate demand, 1996–2002 (% change, yoy)

		GDP	GDP	Domestic	Consumption		Investment	Exports	Imports
		zloty billion		demand	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
<i>forecast</i>									
2001	1Q-4Q	740.6	2.4	1.2	1.9	0.1	2.8	16.1	8.8
2002	1Q-4Q	811.8	3.9	4.6	3.7	1.4	9.2	9.5	10.8
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	28.8	10.1
	2Qe2	176.9	0.5	-0.4	-0.5	0.2	-1.0	14.3	8.0
<i>forecast</i>									
	3Q	183.9	2.1	1.7	2.0	0.0	2.0	10.0	7.0
	4Q	214.6	4.5	4.3	4.5	0.0	6.0	12.0	10.0
2002	1Q	179.7	3.4	4.4	3.7	1.0	11.0	10.0	11.5
	2Q	195.6	4.4	4.9	3.6	1.2	12.0	9.1	10.0
	3Q	201.3	3.7	4.6	3.8	1.6	9.0	8.8	11.0
	4Q	235.2	4.0	4.6	3.8	2.0	7.0	10.2	10.8

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

Notes: 1. Data and estimates at annual average prices of previous year, forecasts at average 2000 prices.

3. 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.

4. Data are not seasonally adjusted.

5. GDP in PLN billion at current prices.

Appendix 2. Value added in major sectors of the economy, 1996–2002 (% change, yoy)

		GDP		Gross value-added				
				total	agriculture and forestry	manufacturing mining, etc.	construction	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	4.2	3.9	-0.1	3.0	3.5	6.0	-0.6
2000	1Q-4Q	4.0	3.9	-6.8	6.8	-0.6	4.6	1.3
<i>forecast</i>								
2001	1Q-4Q	2.4	1.9	2.7	1.3	-1.7	3.5	0.8
2002	1Q-4Q	3.9	3.5	1.3	4.5	9.9	3.7	1.0
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
1998	4Q	6.4	6.2	0.3	10.2	12.2	3.5	3.8
	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
1999	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
	1Q	1.7	1.4	0.2	-4.3	2.0	5.6	-0.6
2000	2Q	3.1	2.8	-0.9	-0.3	2.8	5.4	-0.5
	3Q	5.1	4.8	-0.1	5.9	3.2	6.2	-0.8
	4Q	6.3	6.1	0.4	9.7	4.9	6.6	-0.5
2001	1Q	5.9	5.8	-6.4	10.1	4.3	5.4	2.3
	2Q	5.0	5.0	-7.2	9.3	0.8	5.2	0.8
	3Q	3.2	3.1	-6.5	6.4	-2.2	3.3	1.3
2001	4Q	2.3	2.2	-7.1	2.5	-2.4	4.5	0.8
	1Qe1	2.3	2.1	-7.3	3.4	-5.2	3.5	0.1
	2Qe2	0.5	0.2	2.0	-1.2	-8.2	2.0	0.5
<i>forecast</i>								
	3Q	2.1	1.4	6.4	-1.1	-1.4	3.7	0.6
	4Q	4.5	3.6	5.6	4.2	3.4	4.8	1.7
2002	1Q	3.5	3.1	2.3	5.1	5.7	3.2	1.4
	2Q	4.4	3.7	1.8	5.3	11.4	3.4	0.9
	3Q	3.7	3.4	1.1	3.6	10.0	3.9	0.3
	4Q	4.1	3.8	0.3	4.3	10.6	4.1	1.3

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

Notes: 1. Data and estimates at annual prices of a previous year.

2. Forecasts at average 2000 prices.

3. Data are not seasonally adjusted.



Appendix 3. Contributions to GDP growth, 1997–2002 (%)

		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
<i>forecast</i>									
2001	1Q-4Q	2.4	1.2	0.0	0.7	-0.6	1.2	3.9	-2.7
2002	1Q-4Q	3.9	2.4	0.2	2.3	0.0	-1.1	2.3	-3.4

Source: CSO (GDP) and CASE (other data).

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

(annual increase in X / annual increase in GDP) * 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, 1998–2002 (% change, yoy)

		Disposable income	Wages and salaries	Social benefits	Savings rate	Real disposable income
		% change	% change	% change	%	% change
1998	1Q-4Q	17.0	17.3	14.4	13.1	4.6
1999	1Q-4Q	10.1	10.7	17.6	10.7	2.6
2000	1Q-4Q	11.0	13.5	8.4	9.6	0.9
forecast						
2001	1Q-4Q	5.8	-0.3	12.8	8.1	0.1
2002	1Q-4Q	10.0	10.8	9.8	9.4	4.6
1998	1Q	20.7	20.9	15.6	11.8	6.0
	2Q	15.9	17.9	14.6	13.0	2.5
	3Q	16.9	15.5	13.3	12.5	5.2
	4Q	14.3	15.0	14.1	15.2	4.6
1999	1Q	14.8	9.1	17.2	13.4	8.1
	2Q	7.9	10.4	15.9	9.0	1.4
	3Q	7.2	11.4	20.4	9.2	0.0
	4Q	10.4	11.8	16.9	11.4	1.1
2000	1Q	9.9	13.2	11.2	9.0	-0.4
	2Q	13.9	12.9	9.8	10.7	3.5
	3Q	9.0	15.7	6.6	6.9	-1.7
	4Q	11.4	12.1	6.0	11.8	2.0
2001	1Q	9.6	1.0	7.2	10.1	2.7
	2Q	2.2	-1.7	8.5	8.3	-3.7
forecast						
2002	3Q	4.4	-2.1	15.7	4.5	-0.6
	4Q	6.9	1.8	19.6	9.5	2.1
	1Q	8.4	8.4	21.7	9.9	2.8
	2Q	9.8	11.2	5.9	9.6	4.1
2002	3Q	12.4	11.6	5.7	7.7	7.0
	4Q	9.5	11.7	5.9	10.4	4.4

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

Note: 1. The savings rate is shown as percentage of nominal disposable income.

2. Social security benefits include: retirement pay and pensions, unemployment benefits, family benefits and social security.

3. Wages and salaries (remuneration bill) calculated as a product of average wages and salaries and average employment (total population according to the Statistical Bulletin definition). Data prior to 2001 are not comparable due to the change in the CSO's statistical population.

Appendix 5. Selected indicators of the real sphere, 1998–2002 (% change, yoy)

	Output		Transport		Corporate sector	
	manufacturing, mining etc.	construction	freight	passengers	average employment	real gross wages
1998 1Q-2Q	3.5	11.1	-3.4	-2.8	1.7	3.7
1999 1Q-2Q	3.6	9.4	-5.9	-3.4	-1.4	3.0
2000 1Q-2Q	6.8	1.0	-3.0	-5.7	-8.5	2.0
<i>forecast</i>						
2001 1Q-2Q	3.1	-1.1	-8.0	-2.7	-1.5	0.5
2002 1Q-2Q	6.3	13.0	-6.2	-3.1	1.6	5.7
1998 1Q	10.9	24.0	-5.6	-0.8	2.5	4.4
2Q	6.0	10.2	-4.7	-3.4	2.3	3.3
3Q	3.9	13.2	1.5	-2.6	1.4	3.6
4Q	-0.8	4.4	-4.7	-4.4	0.7	3.7
1999 1Q	-3.1	0.6	-2.7	-4.4	-1.0	2.5
2Q	1.2	4.0	-7.5	-4.0	-1.6	3.8
3Q	7.4	3.2	-8.4	-3.2	-1.7	3.8
4Q	11.7	6.4	-5.1	-2.0	-1.2	1.8
2000 1Q	10.7	4.8	-2.3	-6.7	-8.6	4.6
2Q	9.6	-1.4	-0.5	-4.4	-8.3	2.5
3Q	6.7	-2.9	-3.7	-5.7	-8.2	-0.5
4Q	2.6	-3.4	-5.3	-6.1	-8.7	-0.9
2001 1Q	4.1	-8.9	-4.8	0.1	-2.4	1.6
2Q	-0.9	-10.9	-9.4	-3.5	-2.4	-0.2
<i>forecast</i>						
3Q	-1.1	0.0	-9.5	-4.3	-0.7	0.7
4Q	4.2	5.0	-8.0	-2.9	-0.5	-0.1
2002 1Q	9.0	15.0	-5.9	-1.7	0.9	4.5
2Q	8.4	12.0	-6.5	-3.7	2.3	5.7
3Q	7.3	18.0	-6.9	-4.2	1.7	6.7
4Q	7.4	16.0	-5.6	-2.7	1.7	6.1

Source: Data – CSO; estimates (e) with an exception of output and real gross wages, and forecasts – CASE.

Notes: 1. Data on construction and assembly and transportation calculated from monthly data.

2. Changes calculated from data published in Monthly Statistical Bulletin (CSO).

3. Annual data on average employment relate only to enterprises classified as “large enterprises” (e.g. in manufacturing those with more than five employees until end-1999 and those with more than 9 thereafter).

4. Annual data for output (manufacturing and etc. and construction) calculated for total statistical population.

5. Data prior to 2001 are not comparable due to the change in the CSO's statistical population.

Appendix 6. Basic exchange rates, 1998–2002 (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
<i>forecast</i>					
2001	1Q-4Q	4.16	1.88	3.68	-
2002	1Q-4Q	4.41	2.17	4.23	-
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	154.70
	3Q	4.39	2.03	3.98	161.40
	4Q	4.50	2.00	3.92	163.90
2001	1Q	4.09	1.93	3.78	169.80
	2Q	3.99	1.78	3.49	182.20
<i>forecast</i>					
	3Q	4.23	1.86	3.63	-
	4Q	4.34	1.95	3.82	-
2002	1Q	4.40	2.06	4.03	-
	2Q	4.41	2.16	4.23	-
	3Q	4.42	2.20	4.30	-
	4Q	4.40	2.24	4.38	-

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

Notes: 1. Average exchange rates.

2. Real effective exchange rate, 1990=100.

Appendix 7. Exports, imports and net exports, 1998–2002 (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	30.85	35.31	43.46	50.33	-12.61	-15.02
2002	1Q-4Q	32.75	37.02	46.75	53.50	-14.00	-16.48
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
2000	4Q	6.84	7.53	11.15	12.99	-4.31	-5.46
	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
2001	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	9.15	10.59	12.41	-3.13	-3.26
	2Q	7.59	8.51	10.32	12.25	-2.73	-3.74
forecast							
2002	3Q	7.50	8.32	10.67	12.17	-3.17	-3.86
	4Q	8.30	9.33	11.88	13.50	-3.58	-4.17
	1Q	7.80	9.14	11.05	12.57	-3.25	-3.43
	2Q	7.95	8.91	10.80	12.75	-2.85	-3.84
2002	3Q	8.00	8.87	11.90	13.50	-3.90	-4.63
	4Q	9.00	10.11	13.00	14.69	-4.00	-4.58

Source: NBP, CSO, estimates (e) and forecasts – CASE.

Appendix 8. Selected items of the balance of payments, 1998–2002 (US\$ billion)

		Balance on					Net direct investment	Net portfolio investment	Net other investment	Foreign currency reserves
		current account		merchandise trade	unclassified current transactions	capital account				
		% 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	-8.85	-4.98	-12.61	4.00	7.53	7.03	1.33	-0.59	28.07
2002	1Q-4Q	-10.08	-5.47	-14.00	4.30	7.65	5.25	1.65	0.75	28.60
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	-5.19	-2.73	0.97	0.64	1.42	-0.95	0.17	27.11
forecast										
	3Q	-2.02	-4.92	-3.17	1.21	2.20	1.80	-0.10	0.50	27.72
	4Q	-2.49	-4.98	-3.58	1.09	2.40	2.60	0.00	-0.20	28.07
2002	1Q	-2.71	-5.29	-3.25	0.79	2.05	1.15	0.60	0.30	28.20
	2Q	-1.78	-5.05	-2.85	1.10	1.45	1.10	0.25	0.10	28.40
	3Q	-2.82	-5.44	-3.90	1.27	2.05	1.70	0.20	0.15	28.47
	4Q	-2.77	-5.47	-4.00	1.14	2.10	1.30	0.60	0.20	28.60

Source: Data and estimates (e) – NBP; forecasts – CASE.

Notes: 2Q01 data – preliminary.

Appendix 9. Selected items of the government budget, 1998–2002 (zloty billion)

		Revenues		Expenditures	Budget deficit	
		total	of which tax revenues		zloty billion	% of GDP
1998	1Q-2Q	126.6	120.0	139.8	-13.2	-2.4
1999	1Q-2Q	125.9	118.3	138.4	-12.5	-2.0
2000	1Q-2Q	135.7	124.7	151.1	-15.4	-2.2
<i>forecast</i>						
2001	1Q-2Q	147.5	129.0	181.6	-34.1	-4.6
2002	1Q-2Q	158.4	141.4	191.0	-32.6	-4.0
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	46.7	-15.0	-9.1
	2Q	36.1	28.4	39.8	-3.7	-2.1
<i>forecast</i>						
	3Q	38.6	34.7	46.3	-7.7	-4.2
	4Q	41.2	38.2	48.9	-7.7	-3.6
2002	1Q	34.4	30.1	47.9	-13.5	-7.5
	2Q	35.7	31.4	46.8	-11.2	-5.7
	3Q	42.2	38.0	46.8	-4.6	-2.3
	4Q	46.2	41.9	49.5	-3.3	-1.4

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

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

	1999	2000	2001 CASE	2002 CASE
Government budget balance	-2.0	-2.2	-4.6	-4.0
Local government balance	-0.2	-0.5	-0.4	-0.4
Funds balance	-0.9	-0.1	0.1	0.1
Regional Health Funds balance	-0.1	0.1	-0.1	-0.1
General government balance	-3.2	-2.6	-5.0	-4.4
Compensations	-	-0.5	-0.3	-0.3
II pillar in the social insurance system	0.5	1.1	1.8	1.4
Expenditures financed by revenues from UMTS licenses	-	-	-0.4	-
Total effect on domestic savings (i.e., economic deficit)	-2.7	-2.0	-3.9	-3.3

Source: CASE and the 2001 budget amendment.

Appendix 11. Employment, 1996–2002 ('000)

	Working population	Paid employment					
		total	agriculture and forestry	manufacturing, mining etc.	construction	market services	non-market services
1996 1Q-4Q	15021	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	15710	8702	130	3056	602	2475	2229
2000 1Q-4Q	15508	8120	118	2792	538	2305	2172
forecast							
2001 1Q-4Q	15036	7984	111	2682	509	2320	2177
2002 1Q-4Q	15365	8123	104	2727	495	2413	2184
1996 1Q	14682	8487	175	3242	550	2182	2138
2Q	14932	8513	183	3240	557	2189	2140
3Q	15083	8522	183	3238	568	2189	2137
4Q	15386	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	15506	8717	148	3217	586	2360	2194
2Q	15819	8759	153	3212	602	2378	2202
3Q	15921	8714	151	3172	605	2393	2186
4Q	15953	8816	146	3188	620	2413	2240
1999 1Q	15513	8747	131	3106	589	2461	2252
2Q	15726	8717	132	3067	599	2476	2231
3Q	15808	8649	128	3030	606	2482	2192
4Q	15792	8695	129	3020	614	2482	2241
2000 1Q	15185	8139	113	2824	531	2302	2173
2Q	15524	8106	113	2796	536	2311	2155
3Q	15638	8083	113	2781	542	2320	2133
4Q	15685	8152	131	2765	543	2285	2227
2001 1Q	14751	7896	105	2690	501	2249	2166
2Q	14787	7910	113	2658	507	2311	2170
forecast							
3Q	15165	8022	112	2676	513	2366	2155
4Q	15440	8106	115	2703	515	2354	2219
2002 1Q	14967	8007	100	2705	488	2339	2175
2Q	15355	8092	105	2715	493	2403	2176
3Q	15446	8156	104	2731	499	2461	2161
4Q	15691	8238	107	2758	500	2448	2225

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

Notes: 1. Employment according to "Statistical Bulletin".

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

3. Working population; this includes self-employed and employment in the broad agricultural sector – CASE's estimates.

Appendix 12. Unemployment, 1996–2002

		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	2825	16.3
2000	1Q-4Q	2703	15.0	2760	16.0
<i>forecast</i>					
2001	1Q-4Q	3037	16.8	–	–
2002	1Q-4Q	3228	17.7	–	–
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	15.0	2760	16.0
2001	1Q	2899	15.9	3158	18.2
	2Q	2849	15.8		
<i>forecast</i>					
	3Q	2910	16.2	–	–
	4Q	3037	16.8	–	–
2002	1Q	3106	17.0	–	–
	2Q	3049	16.7	–	–
	3Q	3143	17.1	–	–
	4Q	3228	17.7	–	–

Source: Data – CSO; forecasts – CASE.

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

Appendix 13. Basic price indicators, 1998–2002 (% change, yoy)

		CPI	PPI	Currency basket	GDP deflator
1998	1Q-4Q	11.9	7.3	6.3	11.8
1999	1Q-4Q	7.3	5.6	5.6	7.0
2000	1Q-4Q	10.1	7.9	3.7	7.3
<i>forecast</i>					
2001	1Q-4Q	5.9	1.8	-5.7	5.5
2002	1Q-4Q	5.2	3.4	9.6	5.5
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	7.2
	2Q	6.4	5.2	7.5	7.2
	3Q	7.2	5.8	3.5	5.9
	4Q	9.2	7.4	8.6	7.8
2000	1Q	10.3	7.9	4.0	7.1
	2Q	10.0	8.1	5.4	7.8
	3Q	10.9	8.6	4.6	6.9
	4Q	9.2	6.9	0.9	7.2
2001	1Q	6.8	4.2	-3.1	6.0
	2Q	6.5	2.2	-11.0	5.8
<i>forecast</i>					
	3Q	5.2	0.5	-5.6	5.3
	4Q	5.0	0.5	-3.0	4.9
2002	1Q	5.6	2.2	7.3	5.2
	2Q	5.2	2.9	14.8	5.9
	3Q	5.0	4.1	9.9	5.5
	4Q	4.9	4.3	6.5	5.4

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, 1998–2002

		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
<i>forecast</i>					
	3Q	17.0	18.5	15.6	14.5
	4Q	16.0	17.5	14.6	13.5
2002	1Q	16.0	17.5	14.4	13.5
	2Q	16.0	17.5	14.2	13.5
	3Q	15.5	17.0	14.0	13.0
	4Q	15.5	17.0	13.6	13.0

Source: Data – NBP; forecasts – CASE.

Notes: End-period forecast; WIBOR monthly average.

Appendix 15. Money aggregates, 1998–2002 (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	48.6	333.3	35.3	249.5	182.3	67.1	48.5	229.8	55.4	174.4	63.3
2002	1Q-4Q	52.4	364.9	36.7	276.7	203.1	73.6	51.6	255.3	63.7	191.7	63.8
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	307.5	34.9	226.7	169.5	57.2	46.0	213.7	50.2	163.6	57.1
<i>forecast</i>												
	3Q	47.0	319.5	35.0	237.4	175.8	61.6	47.1	223.4	52.4	171.0	61.1
	4Q	48.6	333.3	35.3	249.5	182.3	67.1	48.5	229.8	55.4	174.4	63.3
2002	1Q	48.2	339.2	34.8	255.2	190.9	64.3	49.2	235.7	56.8	178.9	56.0
	2Q	53.0	347.6	36.3	262.6	195.5	67.1	48.7	240.3	59.0	181.3	58.5
	3Q	50.8	353.8	36.4	267.2	199.2	68.0	50.2	248.6	61.0	187.6	57.8
	4Q	52.4	364.9	36.7	276.7	203.1	73.6	51.6	255.3	63.7	191.7	63.8

Source: Data – NBP; forecasts – CASE.