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Appendix 1. Components of aggregate demand, 1996–2000 (% change, yoy)

		GDP	GDP	Domestic	Consumption		Investment	Exports	Imports
		zloty billion		demand	households	public			
1996	1Q-4Q	241.9	6.0	9.7	8.7	2.1	19.7	12.0	28.0
1997	1Q-4Q	296.6	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	615.6	4.1	4.9	5.4	1.3	6.5	-1.5	1.9
2000e2	1Q-4Q	695.5	4.0	2.4	1.8	1.2	2.8	11.8	10.1
forecast									
2001	1Q-4Q	764.6	3.0	2.8	2.5	1.8	4.2	8.2	6.4
2002	1Q-4Q	844.8	4.3	5.0	3.7	2.2	10.1	9.6	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	134.5	1.6	3.4	4.6	1.3	5.7	-8.9	-2.2
	2Q	147.1	3.0	4.6	5.2	1.2	6.3	-3.5	2.6
	3Q	155.4	5.0	5.5	5.7	1.4	6.6	2.9	4.9
	4Q	178.6	6.2	5.7	5.9	1.3	7.0	3.8	2.5
2000	1Qe1	153.6	6.0	5.1	4.6	1.0	5.5	11.0	14.5
	2Qe1	167.5	5.2	3.3	2.6	0.9	2.9	12.6	9.6
	3Qe1	172.2	3.3	1.3	0.8	1.3	2.4	10.4	11.7
	4Qe2	202.1	2.0	0.3	-1.0	1.4	1.8	13.0	5.4
forecast									
2001	1Q	169.7	2.5	1.1	1.0	1.6	1.0	10.0	4.0
	2Q	184.0	2.7	2.2	2.4	1.6	2.0	8.0	5.3
	3Q	189.0	3.0	3.2	3.0	1.9	4.6	8.0	7.5
	4Q	221.9	3.6	4.2	3.6	2.0	6.5	7.0	8.6
2002	1Q	187.0	3.7	4.8	4.0	2.2	11.0	9.5	12.0
	2Q	204.4	4.7	5.3	3.9	2.4	12.0	10.0	11.0
	3Q	208.4	4.2	5.0	3.5	2.3	10.7	9.0	10.5
	4Q	245.0	4.7	4.9	3.5	2.0	8.4	10.0	10.0

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 1999 prices.

2. 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.

3. Data are not seasonally adjusted.

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	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	3.9	-1.6	3.0	3.5	6.3	0.0
2000	1Q-4Qe2	4.0	3.7	-6.9	6.9	-0.6	4.3	1.5
<i>forecast</i>								
2001	1Q-4Q	3.0	2.6	4.4	4.7	1.4	3.1	1.5
2002	1Q-4Q	4.3	4.0	1.5	6.3	7.5	4.5	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
	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	1.4	-1.2	-4.3	2.0	5.8	0.0
	2Q	3.0	2.8	-2.3	-0.2	2.8	5.8	0.1
	3Q	5.0	4.8	-1.5	6.0	3.2	6.5	-0.2
	4Q	6.2	6.1	-1.0	9.7	4.9	6.8	0.1
2000	1Qe1	6.0	5.8	-7.0	10.2	4.3	5.5	2.3
	2Qe1	5.2	5.0	-7.8	9.4	0.8	5.3	0.9
	3Qe1	3.3	3.1	-7.0	6.5	-2.2	3.5	1.2
	4Qe2	2.0	1.6	-6.0	2.4	-2.4	3.2	1.3
<i>forecast</i>								
2001	1Q	2.5	2.0	-1.0	2.0	-1.0	3.2	2.2
	2Q	2.7	2.3	2.4	3.8	-0.4	3.0	1.4
	3Q	3.0	2.7	8.0	5.3	1.6	3.0	1.0
	4Q	3.6	3.4	6.0	7.0	3.2	3.1	1.4
2002	1Q	3.7	3.4	3.5	7.0	4.5	3.3	1.5
	2Q	4.7	4.3	1.6	7.5	8.0	4.6	0.5
	3Q	4.2	4.0	1.0	6.0	7.5	4.7	0.5
	4Q	4.7	4.2	0.5	5.1	8.5	5.1	1.3

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

Notes: 1. Data and estimates at annual average prices of a previous year; forecasts at average 1999 prices.

2. 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	3.4	0.2	1.6	-0.1	-1.1	-0.4	0.6
2000	1Q-4Q	4.0	1.1	0.2	0.7	0.5	1.5	3.1	3.3
forecast									
2001	1Q-4Q	3.0	1.6	0.3	1.1	0.0	-0.1	2.2	2.1
2002	1Q-4Q	4.3	2.4	0.4	2.6	0.0	-0.1	2.5	3.6

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

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, 1998–2002

		Disposable income	Wages and salaries	Social benefits	Savings rate	Real disposable income
		% change	% change	% change	%	% change
1998	1Q-4Q	17.0	17.3	15.4	13.1	4.6
1999	1Q-4Q	10.1	10.7	9.1	10.8	2.6
2000	1Q-4Q	9.6	12.0	7.5	8.8	-0.5
<i>forecast</i>						
2001	1Q-4Q	9.5	9.9	8.6	10.3	2.8
2002	1Q-4Q	9.2	9.6	8.0	10.1	3.4
1998	1Q	20.7	20.9	17.0	11.7	6.0
	2Q	15.9	17.9	15.4	12.9	2.5
	3Q	16.9	15.5	14.1	12.3	5.2
	4Q	14.3	15.0	14.9	15.6	4.6
1999	1Q	14.8	9.1	10.9	14.1	8.1
	2Q	7.9	10.4	7.3	7.7	1.4
	3Q	7.2	11.4	9.5	9.1	0.0
	4Q	10.4	11.8	8.7	12.1	1.1
2000	1Q	9.4	13.3	10.4	9.3	-0.8
	2Q	11.4	13.1	8.7	7.4	1.3
	3Q	9.9	11.8	5.8	7.6	-0.8
	4Q	7.6	9.7	5.0	11.0	-1.6
<i>forecast</i>						
2001	1Q	9.5	10.5	7.3	10.5	1.9
	2Q	9.6	10.0	8.7	8.5	1.5
	3Q	9.4	9.5	9.3	8.1	1.4
	4Q	9.4	9.6	9.0	13.9	3.5
2002	1Q	9.5	10.0	8.0	11.9	3.9
	2Q	9.4	9.9	8.0	7.2	2.7
	3Q	9.0	9.3	8.0	8.2	2.5
	4Q	8.9	9.2	8.0	13.2	3.6

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

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

**Appendix 5. Selected short-term indicators of the Polish economy,
1998–2002 (% change, yoy)**

	Output		Transport		Corporate sector	
	manufacturing, mining etc.	construction	freight	passengers	average employment	real gross wages
1998 1Q-2Q	3.5	11.0	-3.4	-2.9	1.5	3.7
1999 1Q-2Q	4.3	9.4	-2.2	-3.0	-1.2	3.0
2000 1Q-2Q	7.1	0.2	-1.0	-2.2	-3.1	2.0
forecast						
2001 1Q-2Q	5.1	1.7	0.8	-1.2	-0.8	5.2
2002 1Q-2Q	6.4	8.3	1.0	-0.5	0.3	5.0
1998 1Q	10.9	24.0	-5.8	0.3	1.9	4.4
2Q	6.0	10.2	-4.6	-0.2	1.7	3.3
3Q	3.9	13.2	1.6	0.5	1.0	3.6
4Q	-0.8	4.5	-5.8	-0.6	1.6	3.7
1999 1Q	-3.1	0.6	-2.7	-6.0	-0.4	2.5
2Q	1.2	4.0	-7.6	-7.1	-1.2	3.8
3Q	7.4	3.2	-8.5	-6.1	-1.3	3.8
4Q	11.7	6.4	-4.0	-5.7	-1.8	1.8
2000 1Q	10.7	4.8	-2.5	-3.9	-3.6	4.6
2Q	9.6	-1.4	-1.1	-1.5	-3.4	2.5
3Q	6.7	-2.9	-4.6	-2.0	-3.1	-0.5
4Qe2	2.5	-3.6	-4.0	-1.5	-2.4	-0.9
forecast						
2001 1Q	2.0	-2.0	-2.8	-1.1	-1.6	2.1
2Q	3.9	-1.0	-1.6	-1.0	-1.2	3.0
3Q	5.4	1.5	-1.0	-0.7	-0.6	4.2
4Q	7.0	3.3	-0.8	-0.6	0.0	5.0
2002 1Q	7.2	4.8	-0.3	-0.5	-0.1	5.2
2Q	7.9	9.0	-0.1	-0.5	0.2	5.4
3Q	6.0	8.1	0.4	-0.5	0.5	5.4
4Q	4.9	8.0	0.5	-0.4	0.7	4.9

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

Appendix 6. Basic exchange rates, 1998–2002 (in zlotys)

	US\$	DM	ECU/Euro	Real effective exchange rate
1998 1Q-4Q	3.49	1.99	3.93	151.10
1999 1Q-4Q	3.97	2.16	4.23	145.70
2000 1Q-4Q	4.35	2.05	4.01	158.80
forecast				
2001 1Q-4Q	4.30	2.19	4.28	-
2002 1Q-4Q	4.41	2.28	4.45	-
1998 1Q	3.51	1.93	3.82	151.70
2Q	3.44	1.92	3.79	153.80
3Q	3.55	2.02	3.98	150.20
4Q	3.48	2.09	4.11	147.40
1999 1Q	3.76	2.15	4.22	144.50
2Q	3.96	2.14	4.19	147.40
3Q	3.97	2.13	4.17	150.10
4Q	4.18	2.22	4.34	144.00
2000 1Q	4.11	2.08	4.07	154.20
2Q	4.38	2.09	4.08	154.60
3Q	4.39	2.03	3.98	161.47
4Q	4.50	2.00	3.92	164.67
forecast				
2001 1Q	4.16	2.02	3.95	-
2Q	4.28	2.20	4.30	-
3Q	4.38	2.27	4.44	-
4Q	4.38	2.26	4.41	-
2002 1Q	4.40	2.27	4.44	-
2Q	4.41	2.28	4.45	-
3Q	4.42	2.28	4.46	-
4Q	4.40	2.27	4.45	-

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

Notes: 1. Average exchange rates.

2. Real effective exchange rate, 1990=100.

3. Until the end-1998 – the ECU and then the euro.

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	28.28	31.61	41.41	48.73	-13.13	-17.12
<i>forecast</i>							
2001	1Q-4Q	32.02	35.72	44.66	53.58	-12.64	-17.86
2002	1Q-4Q	34.52	37.50	47.10	54.69	-12.58	-17.19
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	7.56	10.17	11.77	-3.85	-4.21
	2Q	6.84	7.52	9.85	12.29	-3.01	-4.76
	3Q	7.17	7.98	10.51	11.99	-3.34	-4.01
	4Qe	7.95	8.55	10.89	12.69	-2.94	-4.14
<i>forecast</i>							
2001	1Q	6.67	8.03	10.36	12.32	-3.69	-4.29
	2Q	7.55	8.22	10.27	12.83	-2.71	-4.61
	3Q	8.15	8.98	11.41	13.32	-3.25	-4.34
	4Q	9.65	10.49	12.63	15.11	-2.98	-4.62
2002	1Q	7.38	8.49	11.09	12.84	-3.72	-4.34
	2Q	8.11	8.64	10.78	13.13	-2.68	-4.49
	3Q	8.69	9.56	11.93	13.46	-3.24	-3.89
	4Q	10.35	10.80	13.30	15.26	-2.95	-4.46

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

Appendix 8. Components 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	3.04	1.33	5.30	28.28
1999	1Q-4Q	-11.57	-7.47	-14.38	3.64	8.25	4.97	1.45	0.41	27.31
2000	1Q-4Q	-9.88	-6.19	-13.13	3.99	7.89	6.35	2.87	-4.30	27.46
<i>forecast</i>										
2001	1Q-4Q	-9.63	-5.42	-13.95	4.55	10.50	7.60	1.40	1.50	30.64
2002	1Q-4Q	-12.70	-6.62	-16.43	4.10	9.75	6.40	1.55	1.80	30.09
1998	1Q	-2.00	-5.67	-3.24	1.16	3.24	1.00	0.21	2.01	24.40
	2Q	-0.67	-1.71	-2.88	1.72	2.19	1.26	0.36	0.57	27.12
	3Q	-1.22	-3.08	-3.30	1.87	3.54	1.68	-0.86	2.71	28.10
	4Q	-2.98	-6.62	-4.31	1.25	2.70	1.02	1.61	0.01	28.28
1999	1Q	-2.24	-6.27	-2.82	0.80	1.85	1.13	-0.29	0.99	28.61
	2Q	-2.76	-7.43	-3.36	0.79	1.29	1.04	0.03	0.22	27.38
	3Q	-3.01	-7.69	-3.89	1.15	2.06	2.47	-0.09	-0.31	27.89
	4Q	-3.56	-8.33	-4.31	0.90	3.05	1.71	1.80	-0.50	27.31
2000	1Q	-3.52	-9.41	-3.85	0.73	2.08	1.55	2.44	-1.89	26.24
	2Q	-2.11	-5.52	-3.01	1.06	1.16	1.12	0.24	-0.21	25.99
	3Q	-2.25	-5.75	-3.34	1.08	1.43	0.90	-0.07	0.61	25.42
	4Qe	-2.00	-4.46	-2.94	1.12	3.23	5.72	0.26	-2.82	27.46
<i>forecast</i>										
2001	1Q	-2.12	-5.20	-2.90	1.00	2.00	1.60	0.30	0.10	27.94
	2Q	-1.72	-4.01	-2.71	1.00	2.10	1.50	0.30	0.30	28.82
	3Q	-2.39	-5.55	-3.71	1.40	2.70	2.00	0.20	0.50	29.72
	4Q	-3.39	-6.69	-4.63	1.15	3.70	2.50	0.60	0.60	30.64
2002	1Q	-3.19	-7.51	-3.72	0.80	2.30	1.50	0.20	0.60	30.34
	2Q	-2.26	-4.89	-3.18	0.95	2.15	1.30	0.35	0.50	30.83
	3Q	-3.06	-6.49	-4.23	1.30	2.40	1.60	0.40	0.40	30.77
	4Q	-4.18	-7.50	-5.30	1.05	2.90	2.00	0.60	0.30	30.09

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

Notes: 4Q00 data – preliminary.

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

	Revenues		Expenditures	Budget deficit	
	total	of which tax revenues		zlotych billion	% of GDP
1998 1Q-2Q	126.6	113.9	139.8	-13.2	-2.4
1999 1Q-2Q	125.9	112.7	138.4	-12.5	-2.0
2000 1Q-2Q	135.7	119.5	151.1	-15.4	-2.2
forecast					
2001 1Q-2Q	159.1	135.8	183.6	-24.4	-3.2
2002 1Q-2Q	171.2	148.7	192.8	-21.7	-2.6
1998 1Q	28.7	25.6	32.3	-3.5	-2.9
2Q	29.3	26.3	35.1	-5.8	-4.4
3Q	33.1	29.9	34.1	-1.1	-0.8
4Q	35.5	32.2	38.3	-2.8	-1.8
1999 1Q	27.7	24.8	36.5	-8.7	-6.5
2Q	28.8	25.2	31.4	-2.6	-1.8
3Q	32.4	29.5	32.4	0.0	0.0
4Q	37.0	33.2	38.2	-1.2	-0.7
2000 1Q	30.9	27.6	37.9	-6.9	-4.5
2Q	33.3	26.7	37.0	-3.7	-2.2
3Q	33.6	31.6	37.0	-3.4	-2.0
4Q	37.8	33.6	39.1	-1.4	-0.7
forecast					
2001 1Q	35.7	30.6	46.0	-10.4	-6.1
2Q	38.3	30.4	45.0	-6.7	-3.7
3Q	39.8	35.8	45.0	-5.2	-2.8
4Q	45.4	39.1	47.6	-2.1	-1.0
2002 1Q	38.4	33.5	48.4	-12.4	-6.7
2Q	40.9	33.3	47.3	-4.9	-2.4
3Q	43.0	39.1	47.3	-2.3	-1.1
4Q	48.9	42.8	50.0	-2.0	-0.8

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

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

	1999	2000	2001 <i>Budget draft</i>	2001 <i>CASE</i>	2002 <i>CASE</i>
Government budget balance	-2.0	-2.2	-2.6	-3.2	-2.6
Local government balance	-0.2	-0.5	-0.4	-0.4	-0.4
Funds balance	-0.9	-0.5	0.1	0.1	0.1
Regional Health Funds balance	-0.1	-0.1	0.0	-0.1	-0.1
General government balance	-3.2	-3.3	-2.9	-3.6	-3.0
Compensations	-	-0.5	-0.3	-0.3	-0.3
II pillar in the social insurance system	0.5	1.1	1.8	1.8	1.4
Expenditures financed by revenues from UMTS licenses	-	-	-0.4	-0.4	-
Total effect on domestic savings (i.e. economic deficit)	-2.7	-2.7	-1.8	-2.5	-1.9

Source: CASE and the 2001 budget draft.

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

	Total	Paid employment				Market Services	Non-market Services
		of which employment	agriculture and forestry	manufacturing, mining etc.	construction		
1996 1Q-4Q	15021	8548	4010	3730	843	4161	2277
1997 1Q-4Q	15439	8637	3985	3740	908	4489	2316
1998 1Q-4Q	15800	8752	3969	3701	961	4798	2371
1999 1Q-4Q	15710	8702	3931	3529	954	4892	2404
2000 1Q-4Q	15508	8100	3905	3340	940	4950	2373
forecast							
2001 1Q-4Q	15546	8078	3905	3325	930	4965	2375
2002 1Q-4Q	15721	8059	3890	3313	898	5053	2428
1996 1Q	14682	8487	4002	3714	737	3969	2260
2Q	14932	8513	4001	3719	837	4120	2255
3Q	15083	8522	4044	3730	879	4181	2249
4Q	15386	8671	4038	3759	919	4326	2344
1997 1Q	15048	8567	3982	3753	788	4235	2290
2Q	15374	8645	3980	3733	910	4441	2311
3Q	15594	8675	4020	3735	952	4578	2309
4Q	15739	8706	4006	3740	981	4656	2356
1998 1Q	15506	8717	3956	3717	864	4609	2360
2Q	15819	8759	3953	3722	978	4804	2362
3Q	15921	8714	3991	3676	1010	4901	2343
4Q	15953	8817	3976	3688	992	4879	2418
1999 1Q	15513	8747	3900	3587	871	4725	2430
2Q	15726	8717	3925	3543	973	4877	2408
3Q	15808	8649	3960	3507	1001	4974	2366
4Q	15792	8695	3940	3480	970	4992	2410
2000 1Q	15185	8139	3880	3350	840	4765	2350
2Q	15524	8106	3890	3330	970	4944	2390
3Q	15638	8045	3920	3330	980	5038	2370
4Q	15685	8111	3930	3350	970	5055	2380
forecast							
2001 1Q	15155	8052	3880	3290	800	4825	2360
2Q	15548	8042	3880	3300	930	5018	2420
3Q	15698	8014	3910	3320	940	5108	2420
4Q	15785	8113	3910	3330	940	5165	2440
2002 1Q	15291	8068	3860	3300	780	4921	2430
2Q	15719	8069	3860	3320	920	5139	2480
3Q	15902	8048	3880	3330	940	5252	2500
4Q	15974	8151	3880	3340	950	5284	2520

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

Notes: Employment is calculated according to CSO's methodology.

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	13.0	2880	16.7
2000	1Q-4Q	2727	15.0		
forecast					
2001	1Q-4Q	2813	15.4	-	-
2002	1Q-4Q	2783	15.1	-	-
1996	1Q	2726	15.4	2349	14
	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	10.7	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	12.1	2141	12.5
	2Q	2074	11.6	-	-
	3Q	2178	12.1	-	-
	4Q	2350	13.0	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	2727	15.0	-	-
forecast					
2001	1Q	2989	16.4	-	-
	2Q	2869	15.9	-	-
	3Q	2764	15.2	-	-
	4Q	2813	15.4	-	-
2002	1Q	3008	16.4	-	-
	2Q	2856	15.7	-	-
	3Q	2719	14.9	-	-
	4Q	2783	15.1	-	-

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	8.6
<i>forecast</i>					
2001	1Q-4Q	6.7	4.9	1.7	6.8
2002	1Q-4Q	5.8	4.9	3.2	5.9
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	7.2
	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	7.6
	2Q	10.0	8.0	5.4	8.2
	3Q	10.8	8.5	4.6	7.4
	4Q	9.2	7.0	0.9	11.0
<i>forecast</i>					
2001	1Q	7.5	5.2	-0.4	8.2
	2Q	7.0	4.8	0.6	7.4
	3Q	5.3	4.4	4.0	6.7
	4Q	5.3	4.8	2.7	6.1
2002	1Q	5.3	5.4	8.3	6.4
	2Q	5.0	4.7	3.2	6.1
	3Q	5.5	4.1	0.8	5.8
	4Q	5.1	3.9	0.6	5.5

Source: Annual data – CSO; currency basket – NBP; GDP deflator estimates (with an exception of CPI, PPI, and the currency basket) and forecasts – CASE.

Notes: Currency basket over 1996–1998 consists: 55% of US\$ and 45% of DM, and, from 1999: euro – 55% and US\$ – 45%.

Appendix 14. Interest rates, 1998–2002

		Rediscount rate	Lombard rate	3M 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
forecast					
2001	1Q	-	21.0	18.5	-
	2Q	-	21.0	18.0	-
	3Q	-	21.0	17.1	-
	4Q	-	19.0	16.2	-
2002	1Q	-	19.0	16.0	-
	2Q	-	19.0	15.4	-
	3Q	-	17.0	14.7	-
	4Q	-	17.0	14.2	-

Source: Data – NBP; forecasts – CASE.

Notes: End-period forecast; WIBOR monthly average.

Appendix 15. Money aggregates, 1998–2002 (billion zloty)



	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	52.0	294.4	34.1	217.2	154.4	62.8	43.0	206.3	48.3	158.0	50.9
forecast											
2001 1Q-4Q	55.7	335.5	35.0	252.0	184.0	68.0	48.5	236.6	56.7	179.9	60.0
2002 1Q-4Q	58.2	372.6	34.4	287.2	211.0	76.2	51.1	269.8	67.4	202.4	62.4
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	52.0	294.4	34.1	217.2	154.4	62.8	43.0	206.3	48.3	158.0	50.9
forecast											
2001 1Q	52.1	302.1	34.2	222.3	165.3	57.0	45.6	212.6	49.4	163.2	52.0
2Q	53.6	313.3	35.4	231.4	171.4	60.0	46.5	222.5	52.0	170.5	56.0
3Q	54.7	319.4	35.3	237.0	175.0	62.0	47.1	232.6	54.2	178.4	55.0
4Q	55.7	335.5	35.0	252.0	184.0	68.0	48.5	236.6	56.7	179.9	60.0
2002 1Q	55.5	342.1	35.0	258.8	195.0	63.8	48.3	243.1	57.7	185.4	53.0
2Q	56.3	350.5	34.4	267.2	200.0	67.2	48.9	254.2	61.0	193.2	57.5
3Q	57.4	356.7	34.7	272.4	203.0	69.4	49.5	265.6	64.4	201.2	56.7
4Q	58.2	372.6	34.4	287.2	211.0	76.2	51.1	269.8	67.4	202.4	62.4

Source: Data – NBP; forecasts – CASE.