

Web Appendix

Table A1. Historical data and fuzzified fist difference of TAIEX 1999

Date	TAIEX	Fluctuation	μ_1	μ_2	μ_3	μ_4	μ_5	μ_6	μ_7
05.01.1999	6152.43								
06.01.1999	6199.91	47.48	{0.00	0	0	0	0.59	0.41	0.00}
07.01.1999	6404.31	204.4	{0.00	0	0	0	0	0	1.00}
08.01.1999	6421.75	17.44	{0.00	0	0	0.4	0.6	0	0.00}
11.01.1999	6406.99	-14.76	{0.00	0	0.77	0.23	0	0	0.00}
12.01.1999	6363.89	-43.1	{0.00	0.78	0.22	0	0	0	0.00}
13.01.1999	6319.34	-44.55	{0.00	0.82	0.18	0	0	0	0.00}
14.01.1999	6241.32	-78.02	{0.46	0.54	0	0	0	0	0.00}
15.01.1999	6454.6	213.28	{0.00	0	0	0	0	0	1.00}
16.01.1999	6483.3	28.7	{0.00	0	0	0.02	0.98	0	0.00}
18.01.1999	6377.25	-106.05	{0.93	0.07	0	0	0	0	0.00}
19.01.1999	6343.36	-33.89	{0.00	0.48	0.52	0	0	0	0.00}
20.01.1999	6310.71	-32.65	{0.00	0.44	0.56	0	0	0	0.00}
21.01.1999	6332.2	21.49	{0.00	0	0	0.26	0.74	0	0.00}
22.01.1999	6228.95	-103.25	{0.88	0.12	0	0	0	0	0.00}
25.01.1999	6033.21	-195.74	{1.00	0	0	0	0	0	0.00}
26.01.1999	6115.64	82.43	{0.00	0	0	0	0	0.87	0.13}
27.01.1999	6138.87	23.23	{0.00	0	0	0.2	0.8	0	0.00}
28.01.1999	6063.41	-75.46	{0.42	0.58	0	0	0	0	0.00}
29.01.1999	5984	-79.41	{0.49	0.51	0	0	0	0	0.00}
30.01.1999	5998.32	14.32	{0.00	0	0	0.5	0.5	0	0.00}
01.02.1999	5862.79	-135.53	{1.00	0	0	0	0	0	0.00}
02.02.1999	5749.64	-113.15	{1.00	0	0	0	0	0	0.00}
03.02.1999	5743.86	-5.78	{0.00	0	0.28	0.72	0	0	0.00}
04.02.1999	5514.89	-228.97	{1.00	0	0	0	0	0	0.00}
05.02.1999	5474.79	-40.1	{0.00	0.68	0.32	0	0	0	0.00}
06.02.1999	5710.18	235.39	{0.00	0	0	0	0	0	1.00}
08.02.1999	5822.98	112.8	{0.00	0	0	0	0	0.37	0.63}
09.02.1999	5723.73	-99.25	{0.81	0.19	0	0	0	0	0.00}
10.02.1999	5798	74.27	{0.00	0	0	0	0	1	0.00}
20.02.1999	6072.33	274.33	{0.00	0	0	0	0	0	1.00}
22.02.1999	6313.63	241.3	{0.00	0	0	0	0	0	1.00}
23.02.1999	6180.94	-132.69	{1.00	0	0	0	0	0	0.00}
24.02.1999	6238.87	57.93	{0.00	0	0	0	0.36	0.64	0.00}
25.02.1999	6275.53	36.66	{0.00	0	0	0	0.83	0.17	0.00}
26.02.1999	6318.52	42.99	{0.00	0	0	0	0.69	0.31	0.00}
01.03.1999	6312.25	-6.27	{0.00	0	0.31	0.69	0	0	0.00}
02.03.1999	6263.54	-48.71	{0.00	0.96	0.04	0	0	0	0.00}
03.03.1999	6403.14	139.6	{0.00	0	0	0	0	0	1.00}
04.03.1999	6393.74	-9.4	{0.00	0	0.48	0.52	0	0	0.00}
05.03.1999	6383.09	-10.65	{0.00	0	0.55	0.45	0	0	0.00}
06.03.1999	6421.73	38.64	{0.00	0	0	0	0.79	0.21	0.00}

08.03.1999	6431.96	10.23	{0.00	0	0	0.64	0.36	0	0.00}
09.03.1999	6493.43	61.47	{0.00	0	0	0	0.28	0.72	0.00}
10.03.1999	6486.61	-6.82	{0.00	0	0.34	0.66	0	0	0.00}
11.03.1999	6436.8	-49.81	{0.00	0.99	0.01	0	0	0	0.00}
12.03.1999	6462.73	25.93	{0.00	0	0	0.11	0.89	0	0.00}
15.03.1999	6598.32	135.59	{0.00	0	0	0	0	0.01	0.99}
16.03.1999	6672.23	73.91	{0.00	0	0	0	0	1	0.00}
17.03.1999	6757.07	84.84	{0.00	0	0	0	0	0.83	0.17}
18.03.1999	6895.01	137.94	{0.00	0	0	0	0	0	1.00}
19.03.1999	6997.29	102.28	{0.00	0	0	0	0	0.54	0.46}
20.03.1999	6993.38	-3.91	{0.00	0	0.18	0.82	0	0	0.00}
22.03.1999	7043.23	49.85	{0.00	0	0	0	0.54	0.46	0.00}
23.03.1999	6945.48	-97.75	{0.79	0.21	0	0	0	0	0.00}
24.03.1999	6889.42	-56.06	{0.10	0.9	0	0	0	0	0.00}
25.03.1999	6941.38	51.96	{0.00	0	0	0	0.49	0.51	0.00}
26.03.1999	7033.25	91.87	{0.00	0	0	0	0	0.71	0.29}
29.03.1999	6901.68	-131.57	{1.00	0	0	0	0	0	0.00}
30.03.1999	6898.66	-3.02	{0.00	0	0.13	0.87	0	0	0.00}
31.03.1999	6881.72	-16.94	{0.00	0	0.89	0.11	0	0	0.00}
01.04.1999	7018.68	136.96	{0.00	0	0	0	0	0	1.00}
02.04.1999	7232.51	213.83	{0.00	0	0	0	0	0	1.00}
03.04.1999	7182.2	-50.31	{0.00	1	0	0	0	0	0.00}
06.04.1999	7163.99	-18.21	{0.00	0	0.96	0.04	0	0	0.00}
07.04.1999	7135.89	-28.1	{0.00	0.3	0.7	0	0	0	0.00}
08.04.1999	7273.41	137.52	{0.00	0	0	0	0	0	1.00}
09.04.1999	7265.7	-7.71	{0.00	0	0.39	0.61	0	0	0.00}
12.04.1999	7242.4	-23.3	{0.00	0.14	0.86	0	0	0	0.00}
13.04.1999	7337.85	95.45	{0.00	0	0	0	0	0.66	0.34}
14.04.1999	7398.65	60.8	{0.00	0	0	0	0.3	0.7	0.00}
15.04.1999	7498.17	99.52	{0.00	0	0	0	0	0.59	0.41}
16.04.1999	7466.82	-31.35	{0.00	0.4	0.6	0	0	0	0.00}
17.04.1999	7581.5	114.68	{0.00	0	0	0	0	0.34	0.66}
19.04.1999	7623.18	41.68	{0.00	0	0	0	0.72	0.28	0.00}
20.04.1999	7627.74	4.56	{0.00	0	0	0.83	0.17	0	0.00}
21.04.1999	7474.16	-153.58	{1.00	0	0	0	0	0	0.00}
22.04.1999	7494.6	20.44	{0.00	0	0	0.29	0.71	0	0.00}
23.04.1999	7612.8	118.2	{0.00	0	0	0	0	0.29	0.71}
26.04.1999	7629.09	16.29	{0.00	0	0	0.43	0.57	0	0.00}
27.04.1999	7550.13	-78.96	{0.48	0.52	0	0	0	0	0.00}
28.04.1999	7496.61	-53.52	{0.06	0.94	0	0	0	0	0.00}
29.04.1999	7289.62	-206.99	{1.00	0	0	0	0	0	0.00}
30.04.1999	7371.17	81.55	{0.00	0	0	0	0	0.88	0.12}
03.05.1999	7383.26	12.09	{0.00	0	0	0.57	0.43	0	0.00}
04.05.1999	7588.04	204.78	{0.00	0	0	0	0	0	1.00}

05.05.1999	7572.16	-15.88	{0.00	0	0.83	0.17	0	0	0.00}
06.05.1999	7560.05	-12.11	{0.00	0	0.63	0.37	0	0	0.00}
07.05.1999	7469.33	-90.72	{0.67	0.33	0	0	0	0	0.00}
10.05.1999	7484.37	15.04	{0.00	0	0	0.48	0.52	0	0.00}
11.05.1999	7474.45	-9.92	{0.00	0	0.51	0.49	0	0	0.00}
12.05.1999	7448.41	-26.04	{0.00	0.23	0.77	0	0	0	0.00}
13.05.1999	7416.2	-32.21	{0.00	0.43	0.57	0	0	0	0.00}
14.05.1999	7592.53	176.33	{0.00	0	0	0	0	0	1.00}
15.05.1999	7576.64	-15.89	{0.00	0	0.83	0.17	0	0	0.00}
17.05.1999	7599.76	23.12	{0.00	0	0	0.21	0.79	0	0.00}
18.05.1999	7585.51	-14.25	{0.00	0	0.75	0.25	0	0	0.00}
19.05.1999	7614.6	29.09	{0.00	0	0	0.01	0.99	0	0.00}
20.05.1999	7608.88	-5.72	{0.00	0	0.28	0.72	0	0	0.00}
21.05.1999	7606.69	-2.19	{0.00	0	0.09	0.91	0	0	0.00}
24.05.1999	7588.23	-18.46	{0.00	0	0.98	0.02	0	0	0.00}
25.05.1999	7417.03	-171.2	{1.00	0	0	0	0	0	0.00}
26.05.1999	7426.63	9.6	{0.00	0	0	0.66	0.34	0	0.00}
27.05.1999	7469.01	42.38	{0.00	0	0	0	0.71	0.29	0.00}
28.05.1999	7387.37	-81.64	{0.52	0.48	0	0	0	0	0.00}
29.05.1999	7419.7	32.33	{0.00	0	0	0	0.93	0.07	0.00}
31.05.1999	7316.57	-103.13	{0.88	0.12	0	0	0	0	0.00}
01.06.1999	7397.62	81.05	{0.00	0	0	0	0	0.89	0.11}
02.06.1999	7488.03	90.41	{0.00	0	0	0	0	0.74	0.26}
03.06.1999	7572.91	84.88	{0.00	0	0	0	0	0.83	0.17}
04.06.1999	7590.44	17.53	{0.00	0	0	0.39	0.61	0	0.00}
05.06.1999	7639.3	48.86	{0.00	0	0	0	0.56	0.44	0.00}
07.06.1999	7802.69	163.39	{0.00	0	0	0	0	0	1.00}
08.06.1999	7892.13	89.44	{0.00	0	0	0	0	0.75	0.25}
09.06.1999	7957.71	65.58	{0.00	0	0	0	0.19	0.81	0.00}
10.06.1999	7996.76	39.05	{0.00	0	0	0	0.78	0.22	0.00}
11.06.1999	7979.4	-17.36	{0.00	0	0.92	0.08	0	0	0.00}
14.06.1999	7973.58	-5.82	{0.00	0	0.28	0.72	0	0	0.00}
15.06.1999	7960	-13.58	{0.00	0	0.71	0.29	0	0	0.00}
16.06.1999	8059.02	99.02	{0.00	0	0	0	0	0.6	0.40}
17.06.1999	8274.36	215.34	{0.00	0	0	0	0	0	1.00}
21.06.1999	8413.48	139.12	{0.00	0	0	0	0	0	1.00}
22.06.1999	8608.91	195.43	{0.00	0	0	0	0	0	1.00}
23.06.1999	8492.32	-116.59	{1.00	0	0	0	0	0	0.00}
24.06.1999	8589.31	96.99	{0.00	0	0	0	0	0.63	0.37}
25.06.1999	8265.96	-323.35	{1.00	0	0	0	0	0	0.00}
28.06.1999	8281.45	15.49	{0.00	0	0	0.46	0.54	0	0.00}
29.06.1999	8514.27	232.82	{0.00	0	0	0	0	0	1.00}
30.06.1999	8467.37	-46.9	{0.00	0.9	0.1	0	0	0	0.00}
02.07.1999	8572.09	104.72	{0.00	0	0	0	0	0.51	0.49}

03.07.1999	8563.55	-8.54	{0.00	0	0.43	0.57	0	0	0.00}
05.07.1999	8593.35	29.8	{0.00	0	0	0	0.99	0.01	0.00}
06.07.1999	8454.49	-138.86	{1.00	0	0	0	0	0	0.00}
07.07.1999	8470.07	15.58	{0.00	0	0	0.46	0.54	0	0.00}
08.07.1999	8592.43	122.36	{0.00	0	0	0	0	0.22	0.78}
09.07.1999	8550.27	-42.16	{0.00	0.75	0.25	0	0	0	0.00}
12.07.1999	8463.9	-86.37	{0.60	0.4	0	0	0	0	0.00}
13.07.1999	8204.5	-259.4	{1.00	0	0	0	0	0	0.00}
14.07.1999	7888.66	-315.84	{1.00	0	0	0	0	0	0.00}
15.07.1999	7918.04	29.38	{0.00	0	0	0	1	0	0.00}
16.07.1999	7411.58	-506.46	{1.00	0	0	0	0	0	0.00}
17.07.1999	7366.23	-45.35	{0.00	0.85	0.15	0	0	0	0.00}
19.07.1999	7386.89	20.66	{0.00	0	0	0.29	0.71	0	0.00}
20.07.1999	7806.85	419.96	{0.00	0	0	0	0	0	1.00}
21.07.1999	7786.65	-20.2	{0.00	0.04	0.96	0	0	0	0.00}
22.07.1999	7678.67	-107.98	{0.96	0.04	0	0	0	0	0.00}
23.07.1999	7724.52	45.85	{0.00	0	0	0	0.63	0.37	0.00}
26.07.1999	7595.71	-128.81	{1.00	0	0	0	0	0	0.00}
27.07.1999	7367.97	-227.74	{1.00	0	0	0	0	0	0.00}
28.07.1999	7484.5	116.53	{0.00	0	0	0	0	0.31	0.69}
29.07.1999	7359.37	-125.13	{1.00	0	0	0	0	0	0.00}
30.07.1999	7413.11	53.74	{0.00	0	0	0	0.45	0.55	0.00}
31.07.1999	7326.75	-86.36	{0.60	0.4	0	0	0	0	0.00}
02.08.1999	7195.94	-130.81	{1.00	0	0	0	0	0	0.00}
03.08.1999	7175.19	-20.75	{0.00	0.06	0.94	0	0	0	0.00}
04.08.1999	7110.8	-64.39	{0.24	0.76	0	0	0	0	0.00}
05.08.1999	6959.73	-151.07	{1.00	0	0	0	0	0	0.00}
06.08.1999	6823.52	-136.21	{1.00	0	0	0	0	0	0.00}
07.08.1999	7049.74	226.22	{0.00	0	0	0	0	0	1.00}
09.08.1999	7028.01	-21.73	{0.00	0.09	0.91	0	0	0	0.00}
10.08.1999	7269.6	241.59	{0.00	0	0	0	0	0	1.00}
11.08.1999	7228.68	-40.92	{0.00	0.71	0.29	0	0	0	0.00}
12.08.1999	7330.24	101.56	{0.00	0	0	0	0	0.56	0.44}
13.08.1999	7626.05	295.81	{0.00	0	0	0	0	0	1.00}
16.08.1999	8018.47	392.42	{0.00	0	0	0	0	0	1.00}
17.08.1999	8083.43	64.96	{0.00	0	0	0	0.2	0.8	0.00}
18.08.1999	7993.71	-89.72	{0.66	0.34	0	0	0	0	0.00}
19.08.1999	7964.67	-29.04	{0.00	0.33	0.67	0	0	0	0.00}
20.08.1999	8117.42	152.75	{0.00	0	0	0	0	0	1.00}
21.08.1999	8153.57	36.15	{0.00	0	0	0	0.85	0.15	0.00}
23.08.1999	8119.98	-33.59	{0.00	0.47	0.53	0	0	0	0.00}
24.08.1999	7984.39	-135.59	{1.00	0	0	0	0	0	0.00}
25.08.1999	8127.09	142.7	{0.00	0	0	0	0	0	1.00}
26.08.1999	8097.57	-29.52	{0.00	0.34	0.66	0	0	0	0.00}

27.08.1999	8053.97	-43.6	{0.00	0.79	0.21	0	0	0	0.00}
30.08.1999	8071.36	17.39	{0.00	0	0	0.4	0.6	0	0.00}
31.08.1999	8157.73	86.37	{0.00	0	0	0	0	0.8	0.20}
01.09.1999	8273.33	115.6	{0.00	0	0	0	0	0.33	0.67}
02.09.1999	8226.15	-47.18	{0.00	0.91	0.09	0	0	0	0.00}
03.09.1999	8073.97	-152.18	{1.00	0	0	0	0	0	0.00}
04.09.1999	8065.11	-8.86	{0.00	0	0.45	0.55	0	0	0.00}
06.09.1999	8130.28	65.17	{0.00	0	0	0	0.2	0.8	0.00}
07.09.1999	7945.76	-184.52	{1.00	0	0	0	0	0	0.00}
08.09.1999	7973.3	27.54	{0.00	0	0	0.06	0.94	0	0.00}
09.09.1999	8025.02	51.72	{0.00	0	0	0	0.5	0.5	0.00}
10.09.1999	8161.46	136.44	{0.00	0	0	0	0	0	1.00}
13.09.1999	8178.69	17.23	{0.00	0	0	0.4	0.6	0	0.00}
14.09.1999	8092.02	-86.67	{0.61	0.39	0	0	0	0	0.00}
15.09.1999	7971.04	-120.98	{1.00	0	0	0	0	0	0.00}
16.09.1999	7968.9	-2.14	{0.00	0	0.08	0.92	0	0	0.00}
17.09.1999	7916.92	-51.98	{0.03	0.97	0	0	0	0	0.00}
18.09.1999	8016.93	100.01	{0.00	0	0	0	0	0.58	0.42}
20.09.1999	7972.14	-44.79	{0.00	0.83	0.17	0	0	0	0.00}
27.09.1999	7759.93	-212.21	{1.00	0	0	0	0	0	0.00}
28.09.1999	7577.85	-182.08	{1.00	0	0	0	0	0	0.00}
29.09.1999	7615.45	37.6	{0.00	0	0	0	0.81	0.19	0.00}
30.09.1999	7598.79	-16.66	{0.00	0	0.88	0.12	0	0	0.00}
01.10.1999	7694.99	96.2	{0.00	0	0	0	0	0.64	0.36}
02.10.1999	7659.55	-35.44	{0.00	0.53	0.47	0	0	0	0.00}
04.10.1999	7685.48	25.93	{0.00	0	0	0.11	0.89	0	0.00}
05.10.1999	7557.01	-128.47	{1.00	0	0	0	0	0	0.00}
06.10.1999	7501.63	-55.38	{0.09	0.91	0	0	0	0	0.00}
07.10.1999	7612	110.37	{0.00	0	0	0	0	0.41	0.59}
08.10.1999	7552.98	-59.02	{0.15	0.85	0	0	0	0	0.00}
11.10.1999	7607.11	54.13	{0.00	0	0	0	0.45	0.55	0.00}
12.10.1999	7835.37	228.26	{0.00	0	0	0	0	0	1.00}
13.10.1999	7836.94	1.57	{0.00	0	0	0.93	0.07	0	0.00}
14.10.1999	7879.91	42.97	{0.00	0	0	0	0.69	0.31	0.00}
15.10.1999	7819.09	-60.82	{0.18	0.82	0	0	0	0	0.00}
16.10.1999	7829.39	10.3	{0.00	0	0	0.63	0.37	0	0.00}
18.10.1999	7745.26	-84.13	{0.56	0.44	0	0	0	0	0.00}
19.10.1999	7692.96	-52.3	{0.04	0.96	0	0	0	0	0.00}
20.10.1999	7666.64	-26.32	{0.00	0.24	0.76	0	0	0	0.00}
21.10.1999	7654.9	-11.74	{0.00	0	0.61	0.39	0	0	0.00}
22.10.1999	7559.63	-95.27	{0.75	0.25	0	0	0	0	0.00}
25.10.1999	7680.87	121.24	{0.00	0	0	0	0	0.24	0.76}
26.10.1999	7700.29	19.42	{0.00	0	0	0.33	0.67	0	0.00}
27.10.1999	7701.22	0.93	{0.00	0	0	0.95	0.05	0	0.00}

28.10.1999	7681.85	-19.37	{0.00	0.01	0.99	0	0	0	0.00}
29.10.1999	7706.67	24.82	{0.00	0	0	0.15	0.85	0	0.00}
30.10.1999	7854.85	148.18	{0.00	0	0	0	0	0	1.00}
01.11.1999	7814.89	-39.96	{0.00	0.68	0.32	0	0	0	0.00}
02.11.1999	7721.59	-93.3	{0.71	0.29	0	0	0	0	0.00}
03.11.1999	7580.09	-141.5	{1.00	0	0	0	0	0	0.00}
04.11.1999	7469.23	-110.86	{1.00	0	0	0	0	0	0.00}
05.11.1999	7488.26	19.03	{0.00	0	0	0.34	0.66	0	0.00}
06.11.1999	7376.56	-111.7	{1.00	0	0	0	0	0	0.00}
08.11.1999	7401.49	24.93	{0.00	0	0	0.14	0.86	0	0.00}
09.11.1999	7362.69	-38.8	{0.00	0.64	0.36	0	0	0	0.00}
10.11.1999	7401.81	39.12	{0.00	0	0	0	0.78	0.22	0.00}
11.11.1999	7532.22	130.41	{0.00	0	0	0	0	0.09	0.91}
15.11.1999	7545.03	12.81	{0.00	0	0	0.55	0.45	0	0.00}
16.11.1999	7606.2	61.17	{0.00	0	0	0	0.29	0.71	0.00}
17.11.1999	7645.78	39.58	{0.00	0	0	0	0.77	0.23	0.00}
18.11.1999	7718.06	72.28	{0.00	0	0	0	0.04	0.96	0.00}
19.11.1999	7770.81	52.75	{0.00	0	0	0	0.48	0.52	0.00}
20.11.1999	7900.34	129.53	{0.00	0	0	0	0	0.1	0.90}
22.11.1999	8052.31	151.97	{0.00	0	0	0	0	0	1.00}
23.11.1999	8046.19	-6.12	{0.00	0	0.3	0.7	0	0	0.00}
24.11.1999	7921.85	-124.34	{1.00	0	0	0	0	0	0.00}
25.11.1999	7904.53	-17.32	{0.00	0	0.91	0.09	0	0	0.00}
26.11.1999	7595.44	-309.09	{1.00	0	0	0	0	0	0.00}
29.11.1999	7823.9	228.46	{0.00	0	0	0	0	0	1.00}
30.11.1999	7720.87	-103.03	{0.88	0.12	0	0	0	0	0.00}
01.12.1999	7766.2	45.33	{0.00	0	0	0	0.64	0.36	0.00}
02.12.1999	7806.26	40.06	{0.00	0	0	0	0.76	0.24	0.00}
03.12.1999	7933.17	126.91	{0.00	0	0	0	0	0.15	0.85}
04.12.1999	7964.49	31.32	{0.00	0	0	0	0.95	0.05	0.00}
06.12.1999	7894.46	-70.03	{0.33	0.67	0	0	0	0	0.00}
07.12.1999	7827.05	-67.41	{0.29	0.71	0	0	0	0	0.00}
08.12.1999	7811.02	-16.03	{0.00	0	0.84	0.16	0	0	0.00}
09.12.1999	7738.84	-72.18	{0.37	0.63	0	0	0	0	0.00}
10.12.1999	7733.77	-5.07	{0.00	0	0.24	0.76	0	0	0.00}
13.12.1999	7883.61	149.84	{0.00	0	0	0	0	0	1.00}
14.12.1999	7850.14	-33.47	{0.00	0.47	0.53	0	0	0	0.00}
15.12.1999	7859.89	9.75	{0.00	0	0	0.65	0.35	0	0.00}
16.12.1999	7739.76	-120.13	{1.00	0	0	0	0	0	0.00}
17.12.1999	7723.22	-16.54	{0.00	0	0.87	0.13	0	0	0.00}
18.12.1999	7797.87	74.65	{0.00	0	0	0	0	0.99	0.01}
20.12.1999	7782.94	-14.93	{0.00	0	0.78	0.22	0	0	0.00}
21.12.1999	7934.26	151.32	{0.00	0	0	0	0	0	1.00}
22.12.1999	8002.76	68.5	{0.00	0	0	0	0.12	0.88	0.00}

23.12.1999	8083.49	80.73	{0.00	0	0	0	0	0.89	0.11}
24.12.1999	8219.45	135.96	{0.00	0	0	0	0	0	1.00}
27.12.1999	8415.07	195.62	{0.00	0	0	0	0	0	1.00}
28.12.1999	8448.84	33.77	{0.00	0	0	0	0.9	0.1	0.00}

Table A2. The trained fuzzy transition relationship matrix

<i>i</i>	<i>j</i>	$\{\mu_1$	μ_2	μ_3	μ_4	μ_5	μ_6	$\mu_7\}$
1	1	{0.86	0.04	0.91	1.37	1.95	1.39	1.86}
1	2	{0.46	0.37	0.67	0.36	1.06	0.74	1.43}
1	3	{0.51	1.01	0.41	0.07	0.2	0.36	0.76}
1	4	{1.05	0.94	0.94	0.25	0.6	0.85	1.03}
1	5	{2.58	0.27	0.89	0.27	1.01	0.99	1.54}
1	6	{1.67	0.27	0.17	0.76	1.72	0.72	1.11}
1	7	{1.06	0.49	1.57	0.29	0.99	0.07	0.03}
2	1	{2.49	0.03	0.83	1.00	0.18	0.96	0.98}
2	2	{1.13	0.46	0.48	0.4	0.56	0.1	0.65}
2	3	{0.17	0.41	1.14	0.39	0.24	0	0.36}
2	4	{0.78	0.28	0.11	0.08	0	0.25	0.42}
2	5	{1.60	0.23	0.09	0.08	0	0.71	2.09}
2	6	{0.10	0.79	0.29	0.28	0.17	0.51	1.21}
2	7	{0.08	0.86	1.22	1.07	1.14	0.42	0.74}
3	1	{0.54	0.19	0.13	0.89	1.13	0.45	0.96}
3	2	{0.90	0.64	0.17	0.4	0.92	0.13	1.17}
3	3	{0.80	0.62	0.46	0.21	0.51	0.39	1.45}
3	4	{0.61	0.19	0.84	0.24	0.17	0.16	0.25}
3	5	{1.38	0.07	0.7	0.98	0.16	0.1	0.98}
3	6	{0.43	0.32	0.29	0.1	0.36	0.45	0.59}
3	7	{0.00	0.81	1.21	0.58	0.94	0.54	1.51}
4	1	{1.05	1.18	0.24	0.38	0.72	0.09	0.24}
4	2	{0.27	0.73	0.1	0.13	0.66	0.6	1.15}
4	3	{0.96	0.53	0.56	0.15	1.18	0.71	1.22}
4	4	{0.06	0.15	1.22	0.05	0.24	0.17	0.18}
4	5	{1.38	0.85	0.25	0.56	0.13	0	0.25}
4	6	{0.90	0.52	0.22	0.4	0.08	0.11	0.59}
4	7	{0.00	0.72	0.91	0.19	0.12	0.14	0.28}
5	1	{2.72	3.15	0.71	0.59	1.23	0.75	0.09}
5	2	{1.16	0.83	0.09	0.36	0.52	0.12	0.01}
5	3	{0.45	0.72	0.55	0.78	0.63	0.46	0.25}
5	4	{0.60	0.82	0.96	0.7	0.34	0.43	0.04}
5	5	{0.26	0.16	0.38	0.48	0.29	0.3	0.81}
5	6	{0.41	0.23	0.34	0.44	0.16	0.18	1.07}
5	7	{0.14	0.88	1.27	1.14	0.98	1.34	0.22}
6	1	{0.73	0.5	0.45	1.00	1.43	0.57	0.01}
6	2	{1.18	0.24	0.19	0.2	0.68	0.36	0.16}

6	3	{0.24	0.35	0.06	0.18	0.54	0.27	0.29}
6	4	{0.36	0.84	0.02	0.09	0.75	0.46	0.51}
6	5	{0.42	0.49	0.61	0.49	0.84	0.58	0.45}
6	6	{0.36	0.41	0.45	0.37	0.94	0.98	1.13}
6	7	{0.15	0.6	0.22	0.93	0.66	0.97	2.85}
7	1	{0.00	0	0.04	0.42	0.91	2.2	0.37}
7	2	{1.35	0.5	1.03	0.06	0.39	1.3	0.96}
7	3	{1.17	0.7	1.26	0.72	1.07	0.34	1.25}
7	4	{0.42	0.42	1.22	0.66	1.3	0.49	0.07}
7	5	{1.64	1.05	0.91	1.01	0.26	0.14	0.09}
7	6	{0.83	0.48	0.19	0.68	0.46	1.68	0.29}
7	7	{2.51	1.23	0.09	0.39	0.28	1.12	1.93}
