

Appendix 1a: Intervention Announcements by the Bank of Japan in the Yen/Dollar Market

Date	Time	Announcement
4/2/1993	1:52:42	"BOJ SEEN BUYING DLRS AROUND 113.85 YEN--DEALERS"
4/5/1993	1:35:16	"BOJ SEEN BUYING DOLLARS AT 113.30 YEN AND ABOVE"
4/5/1993	2:46:32	"BOJ BUYS DOLLARS AT 113.80/90 YEN--BANKING SOURCES"
4/5/1993	6:52:10	"BOJ DOLLAR BUYING VS YEN HELPS DOLLAR IN TOKYO"
4/6/1993	2:43:02	"DLR WELL-BID ON TALK OF BOJ INTERVENTION IN TOKYO"
4/6/1993	3:16:00	"DLR UP ON SHORT-COVERING, BOJ TALK AT TOKYO MIDDAY"
4/6/1993	6:12:36	"BOJ SAID TO CHECK DOLLAR RATE AT 114.15 YEN"
4/8/1993	2:53:10	"BOJ SEEN BUYING DOLLARS AT 113.45 YEN"
4/12/1993	2:03:54	"BOJ SEEN BUYING DOLLARS AROUND 112.80 YEN"
4/13/1993	5:05:32	"BOJ SEEN BUYING DLRS AROUND 113.10 YEN IN TOKYO"
4/14/1993	3:55:52	"BOJ SAID BOUGHT DLRS FOR YEN IN N.YORK THROUGH FED"
4/16/1993	6:26:38	"BOJ SEEN TO HAVE BOUGHT DOLLARS FOR YEN IN TOKYO"
4/19/1993	0:57:14	"BOJ SEEN BUYING DOLLARS AT 111.25 YEN AND ABOVE"
4/19/1993	5:08:42	"BOJ BUYS DLRS INTERMITTENTLY AT 110.70 YEN AND UP"
4/19/1993	5:45:56	"BOJ CONTINUES BUYING DOLLARS ABOVE 111 YEN"
4/20/1993	4:45:36	"BOJ SEEN BUYING DLRS AROUND 110.50/60 YEN IN TOKYO"
4/20/1993	5:57:52	"BOJ SEEN BUYING DLRS AT 110.30-40 YEN IN TOKYO"
4/21/1993	0:47:16	"BOJ SEEN BUYING DOLLARS AT 110.50 YEN AND BELOW"
4/21/1993	1:16:36	"BOJ CONTINUES TO BUY DOLLARS AT 110.20-30 YEN"
4/21/1993	1:28:08	"BOJ BUYS DLRS AT 110 YEN IN TOKYO MID-MORNING"
4/21/1993	5:01:12	"BOJ BUYS DLRS AT 110.20-30 YEN IN TOKYO AFTERNOON"
4/22/1993	5:46:36	"BOJ SEEN BUYING DOLLARS AT 110.30 YEN AND ABOVE"
4/23/1993	3:00:46	"BOJ BOUGHT DLRS AT 109.90 YEN AND ABOVE IN TOKYO"
4/23/1993	6:35:18	"BOJ SEEN TO HAVE BOUGHT DLRS AT AROUND 110.60 YEN"
4/27/1993	5:52:10	"BOJ SEEN BUYING DOLLARS AT 110.40 YEN IN AFTERNOON"
5/6/1993	4:42:38	"BOJ SEEN BUYING DLRS AT ABOUT 110.25 YEN IN TOKYO"
5/7/1993	0:28:02	"BOJ SEEN BUYING DLRS AT AROUND 109.75 YEN IN TOKYO"
5/7/1993	1:52:40	"BOJ SEEN BUYING DOLLARS AT 109.80 YEN AND ABOVE"
5/17/1993	3:09:40	"DLR BACK ABOVE 111 YEN AT MIDDAY ON BOJ RATE CHECK"
5/20/1993	5:49:42	"BOJ BOUGHT DLRS AT ABOUT 110.60 YEN TOKYO MORNING"
5/21/1993	1:28:56	"BOJ SEEN BUYING DOLLARS AT 110.50 YEN IN TOKYO"
5/26/1993	1:26:12	"BOJ SEEN BUYING DOLLARS AT 109.00 YEN IN TOKYO"
5/26/1993	2:06:48	"BOJ BUYS DOLLARS INTERMITTENTLY UNDER 109 YEN"
5/26/1993	6:08:42	"BOJ SEEN BUYING DOLLARS AT 108.85 YEN AND BELOW"
5/27/1993	1:37:08	"BOJ SEEN BUYING DOLLARS AT 108.35 YEN IN TOKYO"
5/27/1993	1:42:52	"BOJ BUYS DLRS INTERMITTENTLY AROUND 108.25 YEN"
5/27/1993	2:18:32	"BOJ BUYS DOLLARS AT AS LOW AS 108.00 YEN IN TOKYO"
5/27/1993	3:04:40	"BOJ SEEN BUYING DOLLARS BELOW 108 YEN IN TOKYO"
5/27/1993	4:57:26	"BOJ SEEN BUYING DOLLARS AT 107.80 YEN IN TOKYO"
5/27/1993	5:10:42	"BOJ BUYS DLRS IN \$100-MLN LOTS ABOVE 107.70 YEN"
5/28/1993	0:48:46	"BOJ SEEN BUYING DOLLARS AT 107.10-20 YEN AND ABOVE"
5/28/1993	1:06:16	"FED AND BOJ BUYING DLRS AT 107.20 YEN AND ABOVE"
5/28/1993	6:06:24	"BOJ SEEN BUYING DOLLARS AT 107.25-30 YEN IN TOKYO"
5/31/1993	2:00:48	"BOJ SEEN BUYING DOLLARS AT AROUND 107.45 YEN"
5/31/1993	3:04:10	"BOJ SEEN CONTINUING TO BUY DLRS AT 107.20-30 YEN"
6/1/1993	2:57:22	"BOJ SEEN BUYING DOLLARS AT 107.15-20 YEN IN TOKYO"
6/1/1993	4:50:26	"BOJ BUYS DOLLARS AT 107.05 YEN IN TOKYO AFTERNOON"
6/1/1993	5:11:08	"BOJ BUYS DLRS INTERMITTENTLY AT BELOW 107.00 YEN"

Date	Time	Announcement
6/2/1993	1:12:36	"BOJ SEEN BUYING DOLLARS BELOW 107 YEN IN TOKYO"
6/2/1993	5:16:10	"BOJ BUYS DLRS AT 107.00-05 YEN IN TOKYO AFTERNOON"
6/3/1993	2:32:16	"BOJ SEEN BUYING DOLLARS AT 107.40-45 YEN IN TOKYO"
6/3/1993	2:41:28	"BOJ SEEN BUYING DOLLARS AT AS HIGH AS 107.60 YEN"
6/3/1993	4:44:24	"BOJ SEEN BUYING DOLLARS AT 107.55 YEN AND ABOVE"
6/4/1993	5:00:12	"BOJ SEEN BUYING DOLLARS AT 107.20 YEN IN TOKYO"
6/8/1993	2:23:18	"BOJ SEEN BUYING DOLLARS AT 106.85-90 YEN IN TOKYO"
6/8/1993	3:00:24	"BOJ BUYS DOLLARS INTERMITTENTLY ABOVE 106.60 YEN"
6/8/1993	4:37:54	"BOJ SEEN BUYING DOLLARS AT 106.40 YEN IN TOKYO"
6/8/1993	5:31:14	"BOJ BUYS DLRS INTERMITTENTLY UNDER 106.40 YEN"
6/10/1993	2:15:28	"BOJ SEEN BUYING DOLLARS AT 106.00-10 YEN IN TOKYO"
6/10/1993	4:41:12	"BOJ BUYS DOLLARS UNDER 106 YEN IN TOKYO AFTERNOON"
6/11/1993	2:37:20	"BOJ BUYS DOLLARS AT 106.15-20 YEN IN TOKYO MORNING"
6/14/1993	0:25:22	"BOJ BUYS DOLLARS AT 105.70 YEN IN TOKYO MORNING"
6/14/1993	1:10:12	"BOJ BUYS DOLLARS AT 105.40-45 YEN IN TOKYO MORNING"
6/14/1993	2:31:48	"BOJ SEEN BUYING DOLLARS BELOW 105.50 YEN IN TOKYO"
6/14/1993	4:55:50	"BOJ BUYS DLRS AROUND 105.40 YEN IN TOKYO AFTERNOON"
6/14/1993	5:23:34	"BOJ BUYS DLRS BELOW 105.40 YEN IN TOKYO AFTERNOON"
6/15/1993	0:19:30	"BOJ BUYS DOLLARS AT 105.00 YEN IN TOKYO MORNING"
6/15/1993	0:46:18	"BOJ BUYS DOLLARS UNDER 105 YEN IN TOKYO MORNING"
6/15/1993	1:32:44	"BOJ BUYS DLRS BETWEEN 104.95-105.20 YEN IN TOKYO"
6/15/1993	2:32:44	"BOJ BUYS DOLLARS AT BELOW 104.90 YEN IN TOKYO"
6/15/1993	4:52:58	"BOJ BUYS DOLLARS AT 104.95 YEN IN TOKYO AFTERNOON"
6/16/1993	1:15:38	"BOJ SEEN BUYING DLRS AT ABOVE 105.50 YEN IN TOKYO"
6/17/1993	0:35:46	"BOJ SEEN BUYING DLRS AROUND 106.80 YEN IN TOKYO"
6/18/1993	3:01:10	"BOJ SEEN BUYING DLRS AT 107.40-45 YEN IN TOKYO"
6/25/1993	5:04:42	"BOJ BUYS DOLLARS AT 107.80 YEN IN TOKYO AFTERNOON"
6/25/1993	5:55:24	"BOJ BUYS DOLLARS AT 107.60 YEN IN TOKYO AFTERNOON"
6/25/1993	6:33:28	"BOJ SEEN BUYING DOLLARS REPEATEDLY BELOW 107 YEN"
6/25/1993	7:13:32	"RPT/BOJ SEEN BUYING DLRS REPEATEDLY BELOW 107 YEN"
7/8/1993	0:47:30	"BOJ SEEN BUYING DOLLARS AT 107 YEN AND BELOW"
7/8/1993	2:33:26	"BOJ SEEN BUYING DOLLARS AROUND 107 YEN IN TOKYO"
7/9/1993	5:56:50	"BOJ SEEN BUYING DOLLARS UNDER 108 YEN IN TOKYO"
7/23/1993	2:16:30	"BOJ SEEN BUYING DOLLARS AT 106.25-35 YEN IN TOKYO"
7/30/1993	5:21:02	"BOJ SEEN BUYING DLRS BELOW 106 YEN IN TOKYO"
8/2/1993	0:32:24	"BOJ SEEN BUYING DLRS AT 105.10-20 YEN - BANKERS"
8/3/1993	0:42:00	"BOJ SEEN BUYING DOLLARS AT 104.40 YEN IN TOKYO"
8/3/1993	1:04:38	"BOJ SEEN BUYING DOLLARS AT 104.15 YEN IN TOKYO"
8/6/1993	4:59:30	"BOJ SEEN BUYING DOLLARS AT 104.10 YEN IN TOKYO"
8/10/1993	1:21:32	"BOJ SEEN BUYING DOLLARS AT 104.55 YEN IN TOKYO"
8/10/1993	5:17:02	"BOJ SEEN BUYING DOLLARS AT 104.40-45 YEN - BANKERS"
8/11/1993	1:35:36	"BOJ SEEN BUYING DLRS AT BELOW 104.20 YEN IN TOKYO"
8/11/1993	4:56:50	"BOJ SEEN BUYING DLRS AT ABOVE 104.05 YEN - BANKERS"
8/11/1993	6:14:24	"BOJ SEEN BUYING DLRS AT AROUND 104.00 YEN IN TOKYO"
8/11/1993	6:35:14	"BOJ BUYS DLRS REPEATEDLY BELOW 104 YEN IN TOKYO"
8/12/1993	1:19:56	"BOJ SEEN BUYING DLRS BETWEEN 103.40 AND 103.60 YEN"
8/12/1993	2:21:50	"BOJ SEEN BUYING DLRS REPEATEDLY NEAR 103.50 YEN"
8/12/1993	5:12:20	"BOJ SEEN BUYING DLRS REPEATEDLY UNDER 103.60 YEN"
8/12/1993	5:36:08	"BOJ SEEN BUYING DLRS AT AROUND 103.30 YEN IN TOKYO"
8/12/1993	6:14:40	"BOJ SEEN BUYING DOLLARS AT 103.20-30 YEN IN TOKYO"

Date	Time	Announcement
8/13/1993	0:40:48	"BOJ SEEN BUYING DLRS AT AROUND 102.80 YEN IN TOKYO"
8/13/1993	1:24:44	"BOJ SEEN BUYING DOLLARS AT 102.60 YEN IN TOKYO"
8/13/1993	1:39:14	"BOJ SEEN BUYING DLRS REPEATEDLY UNDER 102.50 YEN"
8/13/1993	2:35:08	"BOJ SEEN BUYING DLRS AT AS LOW AS 101.95 YEN"
8/13/1993	5:26:30	"BOJ SEEN SELLING YEN FOR MARK AT 59.40-50-BANKERS"
8/16/1993	0:27:52	"BOJ SEEN BUYING DOLLARS AT ABOVE 101.25 YEN-BANKER"
8/16/1993	2:39:24	"BOJ SEEN BUYING DOLLARS AT AND ABOVE 101.20 YEN"
8/16/1993	4:37:18	"BOJ SEEN BUYING DOLLARS AT 101.10-15 YEN IN TOKYO"
8/16/1993	5:01:56	"BOJ SEEN BUYING DLRS IN MID-AFTERNOON TOKYO"
8/17/1993	1:26:04	"BOJ SEEN BUYING DOLLARS AT 101.15-20 YEN - BANKERS"
8/17/1993	1:38:26	"BOJ SEEN BUYING DLRS AT UNDER 101.00 YEN - BANKERS"
8/17/1993	1:48:12	"BOJ SEEN BUYING DOLLARS AT AS LOW AS 100.70 YEN"
8/17/1993	2:01:20	"BOJ SEEN BUYING DOLLARS AS LOW AS 100.55 YEN"
8/17/1993	2:23:04	"BOJ SEE BUYING DOLLARS AT 100.45 YEN --BANKERS"
8/17/1993	4:36:22	"BOJ SEEN BUYING DOLLARS AT 100.55 YEN IN TOKYO"
8/17/1993	6:01:44	"BOJ BUYS DOLLAR INTERMITTENTLY ABOVE 100.50 YEN"
8/19/1993	1:04:06	"BOJ SEEN BUYING DOLLARS AT 101.30-40 YEN IN TOKYO"
8/19/1993	2:31:00	"BOJ SEEN BUYING DOLLARS AT ABOVE 101.60 YEN"
8/19/1993	5:15:58	"BOJ SEEN BUYING DOLLARS AT 101.85 YEN AND ABOVE"
8/20/1993	1:23:00	"BOJ SEEN BUYING DOLLARS AT 104.85 YEN IN TOKYO"
8/20/1993	1:53:30	"BOJ SEEN BUYING DLRS AT ABOVE 104.65 YEN IN TOKYO"
8/20/1993	3:03:18	"BOJ SEEN BUYING DLRS AT ABOVE 104.50 YEN IN TOKYO"
8/20/1993	5:11:12	"BOJ BUYING DLRS INTERMITTENTLY AROUND 104.55 YEN"
8/23/1993	1:07:08	"BOJ SEEN BUYING DLRS AT 103.65-75 YEN IN TOKYO"
8/23/1993	5:04:14	"BOJ SEEN BUYING DOLLARS AT 103.00-05 YEN IN TOKYO"
8/23/1993	6:26:36	"BOJ SEEN BUYING DLRS AT AROUND 103.30-40 IN TOKYO"
8/24/1993	0:14:38	"BOJ SEEN BUYING DLRS AT AROUND 102.95 YEN IN TOKYO"
8/24/1993	0:28:56	"BOJ STEPS IN QUICKLY, BUT DLR WEAK IN EARLY TOKYO"
8/24/1993	1:33:14	"BOJ SEEN BUYING DLRS AT 103.20-30 YEN IN TOKYO"
8/24/1993	3:06:36	"BOJ SEEN BUYING DOLLARS AT 103.40 YEN AND ABOVE"
8/24/1993	5:51:02	"BOJ SEEN BUYING DLRS AT AROUND 103.70 YEN IN TOKYO"
8/24/1993	6:54:20	"DOLLAR JUMPS ONE YEN IN TOKYO AS BOJ NAGS MARKET"
8/25/1993	2:28:02	"BOJ SEEN BUYING DLRS AT AROUND 104.00-10 YEN"
8/26/1993	1:48:42	"BOJ BUYS DOLLARS AT 105.00 YEN IN TOKYO MORNING"
8/26/1993	4:59:46	"BOJ BUYS DOLLARS AT 105.00-10 YEN IN TOKYO"
8/26/1993	6:46:54	"BOJ BUYING BUOYS DLR OVER 105 YEN AT TOKYO CLOSE"
8/27/1993	1:29:00	"BOJ SEEN BUYING DLRS AT AROUND 104.60 YEN IN TOKYO"
8/27/1993	2:29:40	"BOJ SEEN BUYING DLRS AT 104.40-45 YEN IN TOKYO"
8/27/1993	5:16:58	"BOJ SEEN BUYING DLRS AT ABOVE 104.30 YEN IN TOKYO"
8/30/1993	1:11:52	"BOJ SEEN BUYING DLRS AT 103.70 YEN AND ABOVE"
8/30/1993	3:24:02	"BOJ BUYING FAILS TO LIFT DLR OVER 104 YEN IN TOKYO"
8/31/1993	1:54:06	"BOJ SEEN BUYING DLRS AT AROUND 104.10 YEN IN TOKYO"
9/1/1993	0:38:18	"BOJ SEEN BUYING DLRS AT 104.95-105.00 YEN IN TOKYO"
9/1/1993	1:22:08	"BOJ SEEN BUYING DOLLARS AT AROUND 104.70-80 YEN"
9/1/1993	6:20:50	"BOJ SEEN BUYING DOLLARS AT AND ABOVE 104.65 YEN"
9/2/1993	1:48:26	"BOJ SEEN BUYING DLRS AT 105.05-10 YEN IN TOKYO"
9/2/1993	6:08:20	"BOJ SEEN BUYING DLRS AT 105.20-30 YEN IN TOKYO"
9/6/1993	2:07:22	"BOJ SEEN BUYING DLRS AT AROUND 104.50 YEN IN TOKYO"
9/7/1993	5:27:26	"BOJ SEEN BUYING DOLLARS AT 104.10 YEN AND BELOW"
9/14/1993	3:00:34	"BOJ SEEN BUYING DLRS AT AROUND 105.50 YEN IN TOKYO"

Date	Time	Announcement
9/14/1993	5:57:42	"BOJ SEEN BUYING DOLLARS AT 105.50 YEN IN TOKYO"
9/17/1993	1:53:56	"BOJ SEEN BUYING DLRS AT AROUND 104.20 YEN IN TOKYO"
9/20/1993	0:39:36	"BOJ SEEN BUYING DOLLARS AROUND 104.45 YEN -TRADERS"
9/20/1993	2:04:24	"BOJ SEEN CONTINUING TO BUY DLRS VS YEN IN TOKYO"
9/22/1993	2:39:18	"BOJ SEEN BUYING DLRS AT AROUND 105.90 YEN IN TOKYO"

Appendix 1b: Intervention Announcements by the Bank of Japan in the Yen/Dollar Market

Date	Time	Announcement
4/27/1993	13:05:36	"FED BUYS U.S. DOLLARS AT 109.50/55 YEN -- DEALERS"
4/27/1993	13:35:14	"FED AGAIN BUYS U.S. DOLLARS FOR YEN -- DEALERS"
4/27/1993	14:15:54	"FED BUYS DOLLARS FOR YEN A THIRD TIME -- DEALERS"
5/27/1993	13:12:36	"FED BUYS DOLLARS FOR YEN -- DEALERS"
5/27/1993	13:47:18	"FED AGAIN BUYS U.S. DOLLARS FOR YEN -- DEALERS"
5/27/1993	17:43:46	"FED AGAIN BUYS U.S. DOLLARS FOR YEN - DEALERS"
5/27/1993	17:47:46	"FED BUYS DOLLARS FOR YEN IN NEW ROUND - DEALERS"
5/27/1993	18:00:32	"FED CONTINUES BUYING DOLLARS FOR YEN--DEALERS"
5/27/1993	18:16:52	"FED BUYS DOLLARS FOR YEN AS DOLLAR RISES--DEALERS"
5/28/1993	1:06:16	"FED AND BOJ BUYING DLRS AT 107.20 YEN AND ABOVE"
5/28/1993	3:14:02	"DOLLAR UP VS YEN ON FED/BOJ ACTION AT TOKYO MIDDAY"
5/28/1993	13:01:24	"FED BUYS U.S. DOLLARS FOR YEN -- DEALERS"
5/28/1993	13:14:24	"FED INTERVENTION LIFTS DOLLAR AFTER WEAK U.S. OPEN"
5/28/1993	13:23:46	"FED BUYS DOLLARS MORE AGGRESSIVELY AT 107.30 YEN"
5/28/1993	13:39:32	"FED CONTINUES BUYING DOLLARS FOR YEN -- DEALERS"
5/28/1993	13:46:40	"FED INTERVENES AGAIN AS DOLLAR RECOVERS -- DEALERS"
5/28/1993	14:33:04	"FED BUYS DOLLARS AGAIN FOR YEN -- DEALERS"
5/28/1993	15:10:00	"FED BUYS DOLLARS FOR YEN AS U.S. CURRENCY FALLS"
5/28/1993	15:23:34	"FED BUYS DOLLARS FOR YEN AT 107.35 YEN"
5/28/1993	15:53:44	"FED BUYS DOLLARS FOR YEN AT 107.17 YEN"
6/1/1993	14:49:10	"FED SEEN BUYING DOLLARS AROUND 107 YEN -- DEALERS"
6/8/1993	15:25:42	"FED BUYS DOLLARS AT 106.20/25 YEN - DEALERS"
6/8/1993	15:38:36	"FED BUYS DOLLARS AT 106.35 TO 106.37 YEN--DEALERS"
6/8/1993	16:03:36	"FED BUYS DOLLARS AT 106.25 YEN"
8/19/1993	14:39:44	"FED BUYS DOLLARS AT 101.60 YEN - DEALERS"
8/19/1993	14:50:18	"TRADE TRAUMA ROCKS DOLLAR IN EUROPE, FED STEPS IN"
8/19/1993	14:54:58	"FED BUYS DOLLARS AT 102.30 YEN - DEALERS"
8/19/1993	14:57:10	"FED BUYS DOLLARS AT 102.70/80 YEN - DEALERS"
8/19/1993	15:07:08	"FED BUYS DOLLARS AT 103.60 YEN - DEALERS"
8/19/1993	15:52:06	"FED BUYS DOLLARS AGAIN AT 103.80 YEN - DEALERS"
8/19/1993	15:58:18	"FED BUYS DOLLARS IN LARGER VOLUME - U.S. DEALERS"
8/19/1993	16:00:20	"FED BUYS DOLLARS AT 104 AND 104.05 YEN - DEALERS"
8/19/1993	16:52:18	"FED SWOOPS IN TO RESURRECT DOLLAR AT U.S. MIDDAY"