Start time	Start Run	End time	End Run	POT (E20)	Horn Pulses (M)	Num Nus	Nus per POT (k/E20)	Nus per Pulse (k/M)	POT per Pulse (1/E12)	Horn Rate (Hz)	Beam Up (%)	Tank Down (%)	IRM Down (%)	RWM Down (%)
10/27/2002 21:03:32 UTC	2356	11/03/2002 16:21:08 UTC	2411	0.008	0.216	1751	178.5 (4.7)	6.63 (0.19)	3.70	0.72	51.3	1.0	40.9	35.4
11/03/2002 16:22:03 UTC	2412	11/10/2002 21:56:10 UTC	2485	0.0082	0.137	1847	130.5 (4.0)	4.93 (0.31)	3.94	0.54	40.6	0.9	45.7	44.0
11/10/2002 21:57:12 UTC	2486	11/17/2002 22:41:53 UTC	2553	0.0171	0.391	2129	124.8 (2.7)	4.40 (0.12)	3.69	0.75	85.7	1.1	5.3	5.2
11/17/2002 22:42:37 UTC	2554	11/24/2002 22:14:12 UTC	2687	0.0139	0.392	1657	118.1 (2.9)	4.23 (0.10)	3.53	0.92	70.2	11.8	10.8	17.7
11/24/2002 22:15:00 UTC	2688	12/01/2002 21:49:28 UTC	2753	0.0131	0.352	2747	119.5 (3.0)	4.45 (0.15)	3.71	1.14	51.2	1.1	46.1	2.6
12/01/2002 21:50:16 UTC	2754	12/08/2002 21:57:33 UTC	2824	0.0255	0.689	2992	116.7 (2.1)	4.32 (0.08)	3.70	1.46	78.2	3.0	13.8	13.5
12/08/2002 21:59:00 UTC	2825	12/15/2002 23:41:16 UTC	2925	0.0252	0.681	2716	106.3 (2.1)	3.95 (0.08)	3.71	1.40	79.7	1.9	14.0	14.0
12/15/2002 23:43:24 UTC	2926	12/22/2002 23:39:45 UTC	2994	0.0195	0.549	2079	114.0 (2.5)	4.05 (0.08)	3.56	1.19	76.1	3.8	13.3	13.3
12/22/2002 23:40:31 UTC	2995	12/29/2002 23:54:00 UTC	3052	0.0223	0.58	2354	105.2 (2.2)	4.05 (0.08)	3.85	1.05	91.3	1.5	2.9	2.9
12/29/2002 23:55:57 UTC	3053	01/05/2003 23:48:41 UTC	3123	0.0222	0.579	2401	106.7 (2.2)	4.11 (0.08)	3.84	1.04	92.4	1.7	0.9	0.9
01/05/2003 23:49:28 UTC	3124	01/13/2003 00:00:00 UTC	3457	0.0175	0.468	1771	103.5 (2.5)	3.90 (0.09)	3.76	1.09	70.7	8.7	24.5	24.5
01/24/2003 19:01:38 UTC	3458	01/20/2003 00:00:00 UTC	3457	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	100.0	100.0	100.0
01/24/2003 19:01:38 UTC	3458	01/27/2003 00:00:00 UTC	3474	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	74.3	100.0	100.0
01/28/2003 16:48:55 UTC	3475	02/03/2003 00:00:00 UTC	3532	0	0	2	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	37.0	25.2	25.2
02/03/2003 00:58:43 UTC	3533	02/09/2003 22:20:05 UTC	3636	0.0116	0.451	1210	106.4 (3.1)	2.72 (0.08)	2.54	1.31	57.6	11.6	10.8	10.8
02/09/2003 23:06:27 UTC	3637	02/16/2003 22:38:18 UTC	3716	0.0227	1.008	2387	105.2 (2.2)	2.37 (0.05)	2.25	2.06	81.0	2.4	12.8	12.8
02/16/2003 22:38:53 UTC	3717	02/23/2003 22:53:58 UTC	3804	0.041	1.244	4141	100.9 (1.6)	3.33 (0.05)	3.30	2.30	89.4	3.3	0.3	0.3
02/23/2003 22:55:29 UTC	3805	03/02/2003 23:18:48 UTC	3872	0.038	1.181	4042	106.4 (1.7)	3.42 (0.05)	3.22	2.50	77.9	1.8	0.0	0.0
03/02/2003 23:21:00 UTC	3873	03/09/2003 23:35:15 UTC	3952	0.0285	0.911	3087	108.9 (2.0)	3.39 (0.06)	3.08	2.11	71.2	1.1	0.0	0.0
03/09/2003 23:37:07 UTC	3953	03/16/2003 23:04:09 UTC	4050	0.0412	1.278	4393	106.1 (1.6)	3.42 (0.05)	3.23	2.45	86.4	2.1	0.0	0.0
03/16/2003 23:07:30 UTC	4051	03/23/2003 21:14:20 UTC	4135	0.0468	1.444	4928	105.3 (1.5)	3.42 (0.05)	3.24	2.65	91.3	1.5	0.0	0.0
03/23/2003 21:15:25 UTC	4136	03/30/2003 20:00:39 UTC	4219	0.0466	1.435	4997	107.4 (1.5)	3.49 (0.05)	3.25	3.05	78.5	5.5	0.0	0.0
03/30/2003 20:03:09 UTC	4220	04/06/2003 21:52:24 UTC	4295	0.0517	1.381	5658	109.7 (1.5)	4.10 (0.05)	3.74	2.69	83.9	1.3	0.0	0.0
04/06/2003 21:53:43 UTC	4296	04/13/2003 23:02:45 UTC	4381	0.0458	1.245	4742	103.8 (1.5)	3.81 (0.06)	3.67	2.69	76.0	2.8	0.0	0.0
04/13/2003 23:03:34 UTC	4382	04/20/2003 18:13:53 UTC	4415	0.0514	1.405	5544	108.0 (1.4)	3.95 (0.05)	3.66	2.73	87.7	1.1	0.0	0.0
04/20/2003 18:18:17 UTC	4416	04/27/2003 23:21:59 UTC	4593	0.052	1.321	5291	102.1 (1.4)	4.02 (0.06)	3.94	2.76	76.8	3.7	0.0	0.0
04/27/2003 23:22:14 UTC	4594	05/04/2003 23:14:22 UTC	4845	0.0522	1.332	5444	105.0 (1.5)	4.12 (0.06)	3.92	2.74	80.4	6.7	4.4	4.4
05/04/2003 23:16:29 UTC	4846	05/11/2003 18:53:05 UTC	4895	0.0484	1.255	5669	109.6 (1.5)	4.26 (0.06)	3.88	2.89	73.8	2.1	0.1	0.1
05/11/2003 18:53:58 UTC	4896	05/18/2003 21:45:57 UTC	4937	0.0682	1.675	7334	107.6 (1.3)	4.38 (0.05)	4.07	2.82	96.6	1.3	0.0	0.0
05/18/2003 21:47:07 UTC	4938	05/25/2003 23:17:47 UTC	4975	0.0513	1.219	5705	111.1 (1.5)	4.68 (0.06)	4.21	2.45	81.4	0.7	0.0	0.0
05/25/2003 23:24:07 UTC	4976	06/01/2003 20:27:18 UTC	5001	0.0171	0.438	2016	106.5 (2.5)	4.15 (0.10)	3.89	2.36	31.3	55.5	0.0	0.0
06/01/2003 20:28:27 UTC	5002	06/08/2003 23:30:34 UTC	5054	0.0331	1.032	3644	110.4 (1.8)	3.54 (0.06)	3.20	2.15	77.8	1.2	0.0	0.0
06/08/2003 23:31:50 UTC	5055	06/15/2003 22:38:05 UTC	5085	0.0413	1.096	4789	110.0 (1.6)	4.15 (0.06)	3.77	2.15	84.6	2.9	0.0	0.0
06/15/2003 22:40:13 UTC	5087	06/22/2003 19:29:20 UTC	5124	0.0346	0.831	3753	108.5 (1.8)	4.52 (0.07)	4.17	1.80	77.8	1.8	0.0	0.0
06/22/2003 19:31:31 UTC	5125	06/29/2003 22:36:10 UTC	5176	0.0437	1.11	4699	107.5 (1.6)	4.24 (0.06)	3.94	2.05	88.0	1.1	0.0	0.0
06/29/2003 22:41:40 UTC	5177	07/06/2003 23:00:32 UTC	5256	0.0305	0.887	3427	109.9 (1.9)	3.78 (0.07)	3.44	2.22	66.0	3.7	2.4	0.0
07/06/2003 23:01:23 UTC	5257	07/13/2003 23:44:23 UTC	5323	0.0411	1.187	4369	106.6 (1.6)	3.69 (0.06)	3.46	2.37	82.6	2.8	0.4	0.4
07/13/2003 23:45:11 UTC	5324	07/20/2003 21:08:05 UTC	5436	0.0465	1.278	5083	107.1 (1.5)	3.90 (0.06)	3.64	2.39	89.9	2.5	2.4	0.0
07/20/2003 21:08:57 UTC	5437	07/27/2003 20:13:52 UTC	5500	0.0449	1.237	4874	108.7 (1.6)	3.95 (0.06)	3.63	2.28	90.1	3.2	0.0	0.0
07/27/2003 20:15:44 UTC	5501	08/03/2003 16:22:44 UTC	5539	0.0424	1.215	4973	105.5 (1.6)	3.68 (0.06)	3.49	2.33	88.4	1.4	4.9	0.0
08/03/2003 16:26:16 UTC	5540	08/10/2003 21:35:52 UTC	5594	0.0423	1.189	4550	107.3 (1.6)	3.82 (0.06)	3.56	2.27	84.0	1.8	0.0	0.0
08/10/2003 21:36:40 UTC	5595	08/17/2003 19:16:15 UTC	5639	0.0435	1.193	4676	107.7 (1.6)	3.92 (0.06)	3.64	2.25	88.9	1.0	0.0	0.0
08/17/2003 19:17:14 UTC	5640	08/24/2003 22:35:49 UTC	5681	0.0509	1.43	5823	112.6 (1.5)	4.01 (0.05)	3.56	2.53	91.8	0.8	0.6	0.0
08/24/2003 22:36:43 UTC	5682	08/31/2003 21:05:47 UTC	5742	0.0443	1.145	4852	109.6 (1.6)	4.25 (0.06)	3.87	2.26	84.6	2.3	0.0	0.0
08/31/2003 21:06:38 UTC	5743	09/07/2003 20:58:16 UTC	5816	0.0125	0.311	1347	107.4 (2.9)	4.33 (0.12)	4.03	2.17	23.7	1.9	61.4	61.4
09/07/2003 20:59:21 UTC	5817	09/15/2003 00:00:00 UTC	5820	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	1.1	100.0	100.0
09/15/2003 16:16:16 UTC	5821	09/22/2003 00:00:00 UTC	5821	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	0.2	100.0	100.0
09/23/2003 17:43:01 UTC	5822	09/29/2003 00:00:00 UTC	5824	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	99.8	100.0	100.0
10/31/2003 22:40:04 UTC	5825	10/06/2003 00:00:00 UTC	5824	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	100.0	100.0	100.0
10/31/2003 22:40:04 UTC	5825	10/13/2003 00:00:00 UTC	5824	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	100.0	100.0	100.0
10/31/2003 22:40:04 UTC	5825	10/20/2003 00:00:00 UTC	5824	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	100.0	100.0	100.0
10/31/2003 22:40:04 UTC	5825	10/27/2003 00:00:00 UTC	5824	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	100.0	100.0	100.0
10/31/2003 22:40:04 UTC	5825	11/02/2003 21:57:47 UTC	5865	0	0	3	0.0 (0.0)	90.91 (43.30)	0.00	0.00	0.0	1.1	41.4	41.4
11/02/2003 21:58:27 UTC	5866	11/10/2003 00:00:00 UTC	5965	0	0	6	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	2.6	98.0	98.0
11/10/2003 17:30:18 UTC	5966	11/16/2003 23:52:26 UTC	6049	0.0022	0.101	255	118.5 (7.4)	2.54 (0.16)	2.14	1.38	13.5	22.6	10.7	10.7
11/16/2003 23:52:48 UTC	6050	11/23/2003 23:28:18 UTC	6188	0.0153	0.47	1760	115.3 (2.8)	3.76 (0.09)	3.25	0.87	89.6	3.0	0.0	0.0
11/23/2003 23:28:49 UTC	6189	11/30/2003 22:17:04 UTC	6341	0.0106	0.343	1192	112.1 (3.3)	3.48 (0.10)	3.10	0.92	62.1	1.2	0.0	0.0
11/30/2003 22:17:33 UTC	6342	12/07/2003 23:56:20 UTC	6498	0.0185	0.467	2120	113.4 (2.5)	4.50 (0.10)	3.97	1.00	76.1	1.3	0.0	0.0
12/07/2003 23:56:48 UTC	6499	12/15/2003 00:00:00 UTC	6676	0.0198	0.467	2151	109.0 (2.4)	4.65 (0.10)	4.25	1.28	60.5	1.9	0.0	0.0
12/15/2003 00:00:22 UTC	6677	12/21/2003 22:07:50 UTC	6849	0.0413	0.943	4385	106.0 (1.6)	4.64 (0.07)	4.38	1.76	89.8	5.2	0.2	0.2
12/21/2003 22:08:47 UTC	6850	12/28/2003 23:49:02 UTC	6977	0.0037	0.087	375	102.1 (5.3)	4.33 (0.22)	4.24	1.63	8.7	1.4	0.0	0.0
12/28/2003 23:49:48 UTC	6978	01/04/2004 23:50:23 UTC	7200	0.0546	1.472	5797	106.3 (1.4)	3.95 (0.05)	3.71	2.83	86.1	2.2	0.0	0.0
01/04/2004 23:51:17 UTC	7201	01/11/2004 23:24:53 UTC	7409	0.0527	1.329	5835	106.8 (1.4)	4.23 (0.06)	3.96	2.37	93.1	1.6	0.0	0.0
01/11/2004 23:25:27 UTC	7410	01/18/2004 23:43:16 UTC	7500	0.0513	1.304	5818	112.7 (1.5)	4.43 (0.06)	3.93	2.69	80.0	2.3	0.4	0.4
01/18/2004 23:43:51 UTC	7501	01/25/2004 17:26:41 UTC	7545	0.0566	1.366	6256	110.6 (1.4)	4.58 (0.06)	4.14	2.70	87.0	0.6	0.0	0.0
01/25/2004 17:27:16 UTC	7546	02/01/2004 17:10:04 UTC	7586	0.0568	1.274	6468	113.9 (1.4)	5.08 (0.06)	4.46	2.52	83.6	0.7	0.0	0.0
02/01/2004 17:10:41 UTC	7587	02/08/2004 20:22:58 UTC	7629	0.0639	1.442	7402	115.9 (1.3)	5.13 (0.06)	4.43	2.58	90.6	0.6	0.0	0.0
02/08/2004 20:23:36 UTC	7630	02/15/2004 21:29:21 UTC	7667	0.0448	1.067	5157	115.2 (1.6)	4.83 (0.07)	4.20	2.22	79.0	0.6	0.0	0.0
02/15/2004 21:29:50 UTC	7668	02/22/2004 21:45:49 UTC	7705	0.0543	1.252	6083	111.7 (1.4)	4.84 (0.06)	4.33	2.27	90.9	0.5	0.0	0.0
02/22/2004 21:46:17 UTC	7706	02/29/2004 21:09:11 UTC	7752	0.0621	1.354	7175	115.5 (1.4)	5.30 (0.06)	4.59	2.39	94.0	0.5	0.0	0.0

02/29/2004 21:09:42 UTC	7753	03/07/2004 21:07:56 UTC	7801	0.0545	1.17	6212	111.2 (1.4)	5.18 (0.07)	4.66	2.14	90.3	0.5	0.0	0.0
03/07/2004 21:08:28 UTC	7802	03/14/2004 23:54:09 UTC	7853	0.0576	1.245	6623	114.3 (1.4)	5.29 (0.07)	4.63	2.38	84.9	1.0	0.7	0.0
03/14/2004 23:54:46 UTC	7854	03/22/2004 00:00:00 UTC	8136	0.0017	0.037	222	129.2 (8.7)	5.97 (0.40)	4.62	2.05	3.0	6.2	5.7	5.7
03/24/2004 02:33:48 UTC	8137	03/28/2004 17:38:01 UTC	8149	0.0088	0.217	958	109.4 (3.5)	4.42 (0.14)	4.04	0.99	54.9	25.2	24.9	24.9
03/28/2004 17:38:34 UTC	8150	04/04/2004 23:26:11 UTC	8186	0.0384	0.921	4251	110.8 (1.7)	4.61 (0.07)	4.17	1.58	93.3	0.9	0.0	0.0
04/04/2004 23:26:45 UTC	8187	04/11/2004 18:23:27 UTC	8220	0.0485	1.093	5475	113.0 (1.5)	5.01 (0.07)	4.44	1.98	94.0	0.6	0.0	0.0
04/11/2004 18:25:37 UTC	8221	04/18/2004 22:45:49 UTC	8273	0.062	0.581	3623	58.6 (1.0)	5.05 (0.10)	4.47	0.98	95.7	0.6	0.0	0.0
04/18/2004 22:46:28 UTC	8274	04/25/2004 23:48:13 UTC	8335	0.0683	0	1384	20.3 (0.5)	0.00 (0.00)	0.00	0.00	95.9	0.6	0.0	0.0
04/25/2004 23:48:38 UTC	8336	05/02/2004 22:29:52 UTC	8375	0.0618	1.019	5564	90.1 (1.2)	5.17 (0.07)	4.57	1.81	93.6	0.5	0.0	0.0
05/02/2004 22:30:29 UTC	8376	05/09/2004 21:37:15 UTC	8431	0.0587	1.302	6689	113.4 (1.4)	5.12 (0.06)	4.51	2.57	84.2	2.5	0.0	0.0
05/09/2004 21:37:47 UTC	8432	05/16/2004 19:25:54 UTC	8480	0.0703	1.558	7959	112.9 (1.3)	5.10 (0.06)	4.51	2.94	88.9	0.6	0.0	0.0
05/16/2004 19:26:24 UTC	8481	05/23/2004 23:33:57 UTC	8533	0.0755	1.85	8666	114.7 (1.2)	4.68 (0.05)	4.08	3.34	89.3	1.2	0.0	0.0
05/23/2004 23:34:30 UTC	8534	05/30/2004 16:10:13 UTC	8570	0.0586	1.337	7125	114.2 (1.4)	5.00 (0.06)	4.38	3.10	74.5	2.3	9.9	8.1
05/30/2004 16:10:38 UTC	8571	06/06/2004 19:49:32 UTC	8611	0.0839	1.892	8579	112.1 (1.2)	4.95 (0.05)	4.43	3.23	94.8	0.5	0.0	0.0
06/06/2004 19:50:09 UTC	8612	06/13/2004 23:46:28 UTC	8657	0.0797	1.941	9127	114.5 (1.2)	4.70 (0.05)	4.10	3.95	79.4	0.5	0.0	0.0
06/13/2004 23:47:02 UTC	8658	06/20/2004 19:35:43 UTC	8700	0.0973	2.238	11086	114.0 (1.1)	4.95 (0.05)	4.35	4.09	92.7	0.7	0.0	0.0
06/20/2004 19:36:17 UTC	8701	06/27/2004 23:07:14 UTC	8755	0.0891	2.097	10063	112.6 (1.1)	4.78 (0.05)	4.25	3.89	87.3	2.1	0.0	0.0
06/27/2004 23:07:49 UTC	8756	07/04/2004 20:23:59 UTC	8811	0.0962	2.238	11065	115.0 (1.1)	4.94 (0.05)	4.30	3.90	96.4	0.7	0.0	0.0
07/04/2004 20:24:43 UTC	8812	07/11/2004 21:53:51 UTC	8854	0.0823	2	9146	110.9 (1.2)	4.57 (0.05)	4.12	3.76	87.2	0.6	0.0	0.0
07/11/2004 21:54:25 UTC	8855	07/18/2004 18:01:09 UTC	8905	0.1016	2.245	11384	112.1 (1.1)	5.07 (0.05)	4.53	4.13	92.0	0.7	0.0	0.0
07/18/2004 18:01:44 UTC	8906	07/25/2004 19:57:36 UTC	8945	0.087	1.934	9509	109.3 (1.1)	4.92 (0.05)	4.50	3.95	80.1	0.8	0.0	0.0
07/25/2004 19:58:11 UTC	8946	08/01/2004 22:57:55 UTC	8998	0.0489	0.747	2964	60.8 (1.1)	3.52 (0.07)	4.23	2.14	56.6	0.6	0.0	0.0
08/01/2004 22:58:23 UTC	8999	08/08/2004 21:17:02 UTC	9036	0.0514	0	1088	21.1 (0.6)	0.00 (0.00)	0.00	0.00	74.9	0.5	0.0	0.0
08/08/2004 21:17:29 UTC	9037	08/15/2004 18:04:33 UTC	9084	0.0575	0	1113	19.2 (0.6)	0.00 (0.00)	0.00	0.00	68.0	0.6	0.0	0.0
08/15/2004 18:05:05 UTC	9085	08/22/2004 22:13:31 UTC	9137	0.0542	0	770	13.6 (0.5)	0.00 (0.00)	0.00	0.00	66.4	0.6	0.0	0.0
08/22/2004 22:14:04 UTC	9138	08/29/2004 22:15:35 UTC	9167	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	0.5	92.3	92.3
08/29/2004 22:16:22 UTC	9168	09/05/2004 18:14:42 UTC	9182	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	60.1	100.0	100.0
09/05/2004 18:15:27 UTC	9183	09/12/2004 19:26:45 UTC	9213	0	0	2	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	3.8	100.0	100.0
09/12/2004 19:27:16 UTC	9214	09/20/2004 00:00:00 UTC	9262	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	4.3	100.0	100.0
09/20/2004 20:13:26 UTC	9263	09/26/2004 21:32:07 UTC	9319	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	22.2	100.0	100.0
09/26/2004 21:32:37 UTC	9320	10/03/2004 22:10:32 UTC	9386	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	1.6	100.0	100.0
10/03/2004 22:11:08 UTC	9387	10/10/2004 21:28:24 UTC	9410	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	28.4	100.0	100.0
10/10/2004 21:28:56 UTC	9411	10/18/2004 00:00:00 UTC	9420	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	0.9	100.0	100.0
10/19/2004 17:00:10 UTC	9421	10/24/2004 17:25:47 UTC	9435	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	12.5	100.0	100.0
10/24/2004 17:26:21 UTC	9436	11/01/2004 00:00:00 UTC	9498	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	5.9	100.0	100.0
11/01/2004 09:15:22 UTC	9545	11/07/2004 19:13:28 UTC	9645	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	11.9	100.0	100.0
11/07/2004 19:13:58 UTC	9646	11/14/2004 19:07:31 UTC	9829	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	32.3	100.0	100.0
11/14/2004 19:51:43 UTC	9830	11/21/2004 21:17:28 UTC	9861	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	1.7	100.0	100.0
11/21/2004 21:17:59 UTC	9862	11/28/2004 19:04:35 UTC	9893	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	1.2	100.0	100.0
11/28/2004 19:05:08 UTC	9894	12/05/2004 19:26:15 UTC	9951	0.0113	0.401	1209	106.5 (3.1)	3.05 (0.09)	2.94	1.16	56.8	0.7	0.0	0.0
12/05/2004 19:26:47 UTC	9952	12/12/2004 18:08:56 UTC	9985	0.0319	0.777	3479	101.5 (1.8)	4.17 (0.08)	4.11	1.48	87.2	0.7	0.0	0.0
12/12/2004 18:09:25 UTC	9986	12/19/2004 19:04:15 UTC	10074	0.0577	1.562	6224	105.2 (1.4)	3.88 (0.05)	3.69	2.93	87.6	1.5	0.4	0.4
12/19/2004 19:04:59 UTC	10075	12/26/2004 20:14:54 UTC	10119	0.0639	1.595	7007	109.6 (1.3)	4.39 (0.05)	4.00	3.28	79.9	0.7	0.0	0.0
12/26/2004 20:15:23 UTC	10120	01/02/2005 22:18:01 UTC	10163	0.083	2.223	8953	107.7 (1.1)	4.02 (0.04)	3.73	3.98	91.3	1.4	0.0	0.0
01/02/2005 22:18:22 UTC	10164	01/09/2005 21:17:18 UTC	10212	0.0643	1.656	7035	106.4 (1.3)	4.13 (0.05)	3.88	3.95	69.7	20.9	20.4	20.2
01/09/2005 21:17:42 UTC	10213	01/16/2005 23:49:42 UTC	10315	0.1084	2.461	11447	105.6 (1.0)	4.65 (0.04)	4.40	4.48	89.4	1.0	0.0	0.0
01/16/2005 23:50:21 UTC	10316	01/23/2005 22:49:09 UTC	10421	0.0866	1.991	9328	106.6 (1.1)	4.63 (0.05)	4.35	3.95	83.9	1.0	0.0	0.0
01/23/2005 22:49:40 UTC	10422	01/30/2005 23:07:56 UTC	10528	0.0677	2.062	7369	105.8 (1.3)	3.47 (0.04)	3.28	3.57	95.3	1.0	0.0	0.0
01/30/2005 23:08:24 UTC	10529	02/06/2005 23:18:24 UTC	10607	0.085	2.395	9300	109.5 (1.1)	3.88 (0.04)	3.55	4.18	94.7	0.8	0.0	0.0
02/06/2005 23:18:51 UTC	10608	02/13/2005 22:01:33 UTC	10695	0.0788	2.003	8386	105.3 (1.2)	4.14 (0.05)	3.93	4.16	80.3	1.1	0.0	0.0
02/13/2005 22:02:05 UTC	10696	02/20/2005 22:01:49 UTC	10792	0.0876	2.307	9431	107.2 (1.1)	4.07 (0.04)	3.80	4.21	90.7	1.2	0.0	0.0
02/20/2005 22:02:22 UTC	10793	02/27/2005 23:29:13 UTC	10858	0.0854	2.253	9235	105.5 (1.1)	4.00 (0.04)	3.79	3.93	94.0	1.0	0.0	0.0
02/27/2005 23:29:45 UTC	10859	03/06/2005 23:30:04 UTC	10944	0.0842	2.222	9015	106.6 (1.1)	4.04 (0.04)	3.79	4.35	84.5	1.1	0.0	0.0
03/06/2005 23:30:33 UTC	10945	03/13/2005 19:32:36 UTC	11011	0.0854	2.332	9235	106.7 (1.1)	3.91 (0.04)	3.66	4.37	90.4	1.0	0.0	0.0
03/13/2005 19:33:09 UTC	11012	03/20/2005 23:38:22 UTC	11090	0.0881	2.286	9503	107.4 (1.1)	4.14 (0.04)	3.85	3.91	94.4	1.0	0.0	0.0
03/20/2005 23:38:53 UTC	11091	03/27/2005 23:29:21 UTC	11228	0.0945	2.324	10392	106.2 (1.1)	4.32 (0.04)	4.06	4.27	90.1	1.4	0.0	0.0
03/27/2005 23:29:54 UTC	11229	04/03/2005 19:23:12 UTC	11325	0.0784	1.892	8517	107.2 (1.2)	4.44 (0.05)	4.14	4.09	78.4	1.2	0.0	0.0
04/03/2005 19:24:24 UTC	11326	04/10/2005 18:35:34 UTC	11360	0.0922	2.276	10237	111.1 (1.1)	4.50 (0.04)	4.05	4.26	88.8	0.7	0.0	0.0
04/10/2005 18:36:07 UTC	11361	04/17/2005 23:10:54 UTC	11385	0.0784	1.888	9582	109.6 (1.2)	4.55 (0.05)	4.15	4.41	68.9	0.6	7.7	7.7
04/17/2005 23:11:26 UTC	11386	04/24/2005 21:40:20 UTC	11411	0.0957	2.278	10477	109.2 (1.1)	4.59 (0.04)	4.20	4.40	86.4	0.7	0.0	0.0
04/24/2005 21:40:56 UTC	11412	05/01/2005 20:26:09 UTC	11443	0.0795	1.936	8848	110.7 (1.2)	4.55 (0.05)	4.11	4.32	74.6	0.7	0.0	0.0
05/01/2005 20:26:56 UTC	11444	05/08/2005 21:35:11 UTC	11466	0.0495	1.17	5396	108.9 (1.5)	4.61 (0.06)	4.23	3.50	54.9	0.7	0.0	0.0
05/08/2005 21:35:57 UTC	11467	05/15/2005 20:28:40 UTC	11510	0.0561	1.351	6322	112.7 (1.4)	4.69 (0.06)	4.16	2.84	79.3	0.8	0.0	0.0
05/15/2005 20:29:11 UTC	11511	05/22/2005 17:39:35 UTC	11532	0.0604	1.472	6702	110.2 (1.4)	4.52 (0.06)	4.10	2.87	86.1	0.7	0.0	0.0
05/22/2005 17:40:06 UTC	11533	05/29/2005 17:14:43 UTC	11555	0.06	1.543	6658	107.7 (1.3)	4.19 (0.05)	3.89	2.87	89.1	0.7	0.0	0.0
05/29/2005 17:15:15 UTC	11556	06/05/2005 21:17:24 UTC	11580	0.0452	1.251	5033	111.4 (1.6)	4.02 (0.06)	3.61	2.31	87.4	17.0	0.0	0.0
06/05/2005 21:18:43 UTC	11581	06/12/2005 16:01:43 UTC	11606	0.0404	1.127	4385	104.2 (1.6)	3.74 (0.06)	3.59	2.27	84.8	0.9	0.0	0.0
06/12/2005 16:03:04 UTC	11607	06/19/2005 19:11:54 UTC	11639	0.0487	1.314	1703	35.0 (0.8)	1.30 (0.03)	3.70	2.55	83.7	1.7	0.0	0.0
06/19/2005 19:12:27 UTC	11640	06/26/2005 16:59:14 UTC	11703	0.044	1.205	4193	95.6 (1.5)	3.49 (0.05)	3.65	2.26	89.2	1.7	0.0	0.0
06/26/2005 16:59:47 UTC	11704	07/03/2005 19:30:54 UTC	11731	0.0543	1.418	5757	105.8 (1.4)	4.05 (0.05)	3.83	2.60	88.7	1.1	0.0	0.0
07/03/2005 19:31:27 UTC	11732	07/10/2005 22:32:20 UTC	11759	0.07	1.751	7910	110.3 (1.3)	4.41 (0.05)	4.00	3.22	88.3	0.8	0.0	0.0
07/10/2005 22:32:49 UTC	11760	07/17/2005 23:30:11 UTC	11953	0.0513	1.314	5649	111.0 (1.5)	4.33 (0.06)	3.90	2.34	92.3	4.4	-337344.7	
-337344.8														
07/17/2005 23:32:05 UTC	11954	07/24/2005 18:51:55 UTC	12125	0.0296	0.914	2942	101.6 (1.9)	3.30 (0.06)	3.24	1.94	80.2	7.3	-348895.4	

-348895.4

07/24/2005 18:52:26 UTC	12126	07/31/2005 17:35:48 UTC	12152	0.0354	1.015	3744	104.3 (1.7)	3.64 (0.06)	3.49	1.95	86.6	0.5	0.0	0.0
07/31/2005 17:36:19 UTC	12153	08/07/2005 22:41:16 UTC	12175	0.0473	1.379	5426	112.3 (1.5)	3.85 (0.05)	3.43	2.39	92.7	0.4	0.0	0.0
08/07/2005 22:41:46 UTC	12176	08/14/2005 17:18:51 UTC	12202	0.0311	0.864	3416	109.9 (1.9)	3.95 (0.07)	3.61	1.75	84.1	0.5	0.0	0.0
08/14/2005 17:19:22 UTC	12203	08/21/2005 23:49:20 UTC	12228	0.0378	0.918	4198	110.8 (1.7)	4.57 (0.07)	4.12	1.71	85.6	0.4	0.0	0.0
08/21/2005 23:49:49 UTC	12229	08/28/2005 21:41:28 UTC	12254	0.0407	0.978	4473	106.2 (1.6)	4.42 (0.07)	4.16	1.74	94.3	0.5	0.0	0.0
08/28/2005 21:41:58 UTC	12255	09/04/2005 21:06:12 UTC	12281	0.0349	0.807	3841	106.1 (1.7)	4.58 (0.08)	4.32	1.56	85.8	0.5	0.0	0.0
09/04/2005 21:06:46 UTC	12282	09/11/2005 22:09:03 UTC	12306	0.0402	0.945	4447	109.8 (1.7)	4.67 (0.07)	4.25	1.60	97.0	0.4	0.0	0.0
09/11/2005 22:09:35 UTC	12307	09/18/2005 20:22:31 UTC	12336	0.0352	0.924	3638	103.3 (1.7)	3.94 (0.07)	3.81	1.66	93.2	0.7	0.0	0.0
09/18/2005 20:23:04 UTC	12337	09/25/2005 23:49:32 UTC	12368	0.0333	0.821	3416	100.8 (1.7)	4.09 (0.07)	4.05	1.43	92.7	0.9	0.0	0.0
09/25/2005 23:50:02 UTC	12369	10/02/2005 23:51:51 UTC	12401	0.0486	1.228	5543	114.1 (1.5)	4.52 (0.06)	3.96	2.17	93.6	1.4	0.0	0.0
10/02/2005 23:52:16 UTC	12402	10/09/2005 20:36:07 UTC	12424	0.0903	1.863	9528	105.5 (1.1)	5.11 (0.05)	4.85	3.31	94.8	0.5	0.0	0.0
10/09/2005 20:36:37 UTC	12425	10/16/2005 18:49:21 UTC	12446	0.0471	1.127	5352	110.9 (1.5)	4.64 (0.06)	4.18	2.74	68.7	0.5	0.0	0.0
10/16/2005 18:49:53 UTC	12447	10/23/2005 19:21:51 UTC	12474	0.0518	1.34	5869	108.4 (1.4)	4.19 (0.06)	3.87	2.51	88.1	0.9	0.0	0.0
10/23/2005 19:22:23 UTC	12475	10/30/2005 22:17:15 UTC	12498	0.0506	1.268	5536	109.4 (1.5)	4.36 (0.06)	3.99	2.12	97.4	0.5	0.0	0.0
10/30/2005 22:17:49 UTC	12499	11/06/2005 17:35:31 UTC	12519	0.0432	1.092	3953	103.8 (1.7)	4.10 (0.06)	3.95	1.98	93.9	0.5	0.0	0.0
11/06/2005 17:36:04 UTC	12520	11/13/2005 19:56:25 UTC	12545	0.0162	1.097	1494	92.3 (2.4)	1.36 (0.04)	1.48	2.07	86.3	0.5	0.0	0.0
11/13/2005 19:56:52 UTC	12546	11/20/2005 16:04:10 UTC	12567	0.0181	0.588	1051	58.2 (1.8)	1.79 (0.06)	3.07	1.45	68.5	0.4	0.0	0.0
11/20/2005 16:04:40 UTC	12568	11/27/2005 20:27:58 UTC	12593	0.0391	1.035	2083	52.5 (1.2)	1.98 (0.04)	3.77	1.73	96.5	0.5	0.0	0.0
11/27/2005 20:28:27 UTC	12594	12/04/2005 22:27:46 UTC	12617	0.0194	0.528	969	46.3 (1.5)	1.70 (0.06)	3.67	1.19	72.5	0.5	0.0	0.0
12/04/2005 22:28:16 UTC	12618	12/11/2005 22:42:45 UTC	12642	0.0525	1.657	2802	53.4 (1.0)	1.69 (0.03)	3.17	2.83	96.8	0.5	0.0	0.0
12/11/2005 22:43:16 UTC	12643	12/18/2005 22:00:21 UTC	12670	0.0787	1.891	3091	37.6 (0.7)	1.57 (0.03)	4.16	3.67	85.5	0.5	0.0	0.0
12/18/2005 22:00:48 UTC	12671	12/25/2005 19:31:10 UTC	12700	0.0513	1.378	1592	27.3 (0.7)	1.02 (0.03)	3.73	2.57	89.9	1.1	0.0	0.0
12/25/2005 19:31:44 UTC	12701	01/01/2006 20:17:34 UTC	12737	0.0388	1.065	1170	30.1 (0.9)	1.10 (0.03)	3.65	1.87	93.8	0.6	0.0	0.0
01/01/2006 20:18:04 UTC	12738	01/08/2006 21:40:45 UTC	12766	0.0331	0.931	954	28.6 (0.9)	1.02 (0.03)	3.55	2.00	76.4	0.5	0.0	0.0
01/08/2006 21:41:18 UTC	12767	01/15/2006 19:58:00 UTC	12796	0.0277	0.109	573	20.7 (0.9)	1.00 (0.22)	4.09	0.26	69.8	0.5	0.0	0.0
01/15/2006 19:58:34 UTC	12797	01/22/2006 23:52:13 UTC	13242	0.031	0.327	725	22.3 (0.9)	1.07 (0.08)	4.25	0.66	79.9	8.1	9.2	0.0
01/22/2006 23:54:04 UTC	13243	01/30/2006 00:00:00 UTC	13540	0.0183	0.474	515	23.7 (1.1)	0.91 (0.05)	3.87	1.32	59.3	6.4	9.9	0.6
01/29/2006 19:20:30 UTC	13541	02/05/2006 17:54:38 UTC	13566	0.0468	1.126	1158	24.6 (0.7)	1.02 (0.03)	4.16	2.11	89.1	0.5	0.0	0.0
02/05/2006 17:55:09 UTC	13567	02/12/2006 23:55:35 UTC	13601	0.0507	1.254	1212	23.8 (0.7)	0.96 (0.03)	4.04	2.20	90.8	1.6	0.0	0.0
02/12/2006 23:57:08 UTC	13602	02/19/2006 21:30:36 UTC	13639	0.0369	0.936	800	21.4 (0.8)	0.85 (0.03)	3.94	1.94	80.8	7.4	0.0	0.0
02/19/2006 21:31:40 UTC	13640	02/26/2006 21:31:49 UTC	13676	0.0193	1.211	493	25.6 (1.2)	0.41 (0.02)	1.59	2.41	83.1	0.6	0.0	0.0
02/26/2006 21:32:13 UTC	13677	03/05/2006 23:34:38 UTC	13696	0	0	1	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	27.5	90.6	90.6
03/05/2006 23:35:06 UTC	13697	03/12/2006 22:28:13 UTC	13724	0	0	3	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	9.7	100.0	100.0
03/12/2006 22:28:44 UTC	13725	03/19/2006 08:10:40 UTC	13754	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	10.4	100.0	100.0
03/19/2006 18:16:19 UTC	13755	03/26/2006 22:21:20 UTC	13780	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	0.4	100.0	100.0
03/26/2006 22:21:53 UTC	13781	04/03/2006 00:00:00 UTC	13803	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	11.5	100.0	100.0
04/03/2006 18:39:24 UTC	13804	04/09/2006 22:10:01 UTC	13834	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	1.5	100.0	100.0
04/09/2006 22:10:27 UTC	13835	04/17/2006 00:00:00 UTC	13848	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	2.4	100.0	100.0
04/17/2006 20:40:38 UTC	13849	04/24/2006 00:00:00 UTC	13849	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	0.0	100.0	100.0
05/19/2006 16:20:45 UTC	13850	05/01/2006 00:00:00 UTC	13849	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	100.0	100.0	100.0
05/19/2006 16:20:45 UTC	13850	05/07/2006 23:38:31 UTC	13900	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	97.1	100.0	100.0
05/19/2006 16:20:45 UTC	13850	05/14/2006 22:06:30 UTC	13924	0	0	12	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	40.7	100.0	100.0
05/19/2006 16:20:45 UTC	13850	05/21/2006 22:35:22 UTC	14005	0	0	12	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	1.6	100.0	100.0
05/21/2006 22:35:44 UTC	14006	05/28/2006 23:46:55 UTC	14026	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	0.1	95.3	95.3
05/28/2006 23:47:34 UTC	14027	06/04/2006 22:57:23 UTC	14047	0	0	0	0.0 (0.0)	0.00 (0.00)	0.00	0.00	0.0	8.8	100.0	100.0
06/04/2006 22:57:52 UTC	14048	06/11/2006 19:11:11 UTC	14071	0.0051	0.553	280	24.9 (2.2)	0.32 (0.03)	1.03	2.60	36.0	0.4	34.8	34.8
06/11/2006 19:11:32 UTC	14072	06/18/2006 21:28:08 UTC	14097	0.0089	0.633	341	24.9 (1.7)	0.39 (0.03)	1.45	1.50	68.7	0.2	14.1	14.1
06/18/2006 21:28:37 UTC	14098	06/25/2006 21:22:02 UTC	14124	0.0133	0.777	273	20.6 (1.2)	0.35 (0.02)	1.71	1.83	70.4	0.2	0.0	0.0
06/25/2006 21:22:37 UTC	14125	07/02/2006 22:08:50 UTC	14149	0.0378	1.279	819	20.9 (0.7)	0.62 (0.02)	2.95	2.44	86.2	0.2	4.3	4.3
07/02/2006 22:09:21 UTC	14150	07/09/2006 23:05:50 UTC	14172	0.0626	1.786	1331	20.0 (0.6)	0.70 (0.02)	3.51	3.43	85.6	0.2	4.7	4.7
07/09/2006 23:06:19 UTC	14173	07/16/2006 16:44:17 UTC	14196	0.06	1.533	1171	19.5 (0.6)	0.76 (0.02)	3.91	2.93	89.9	0.2	0.0	0.0
07/16/2006 16:44:42 UTC	14197	07/23/2006 23:57:40 UTC	14224	0.0747	1.883	1418	19.0 (0.5)	0.75 (0.02)	3.97	3.23	92.3	0.4	0.0	0.0
07/23/2006 23:58:09 UTC	14225	07/30/2006 18:39:52 UTC	14252	0.0433	1.129	901	16.7 (0.6)	0.64 (0.03)	3.83	2.52	76.6	0.9	0.0	0.0
07/30/2006 18:41:59 UTC	14253	08/06/2006 18:37:51 UTC	14274	0.022	0.635	455	20.7 (1.0)	0.72 (0.03)	3.47	1.24	84.8	0.2	0.0	0.0
08/06/2006 18:38:30 UTC	14275	08/13/2006 21:37:29 UTC	14297	0.0263	0.695	541	20.6 (0.9)	0.78 (0.03)	3.79	1.37	82.4	0.2	0.0	0.0
08/13/2006 21:39:30 UTC	14298	08/20/2006 20:38:44 UTC	14328	0.0862	2.026	1825	18.1 (0.5)	0.77 (0.02)	4.26	4.07	82.8	1.4	0.1	0.1
08/20/2006 20:39:17 UTC	14329	08/27/2006 19:18:05 UTC	14358	0.1085	2.376	1981	18.3 (0.4)	0.83 (0.02)	4.56	4.19	94.6	0.3	0.0	0.0
08/27/2006 19:18:33 UTC	14359	09/03/2006 20:54:07 UTC	14384	0.1021	2.238	1785	17.5 (0.4)	0.80 (0.02)	4.56	4.11	89.1	0.6	1.0	1.0
09/03/2006 20:54:42 UTC	14385	09/10/2006 20:49:30 UTC	14408	0.0747	1.667	1477	18.8 (0.5)	0.84 (0.02)	4.48	3.63	75.9	0.2	0.0	0.0
09/10/2006 20:50:14 UTC	14409	09/17/2006 22:52:52 UTC	14435	0.0367	0.853	609	16.6 (0.7)	0.71 (0.03)	4.30	1.61	86.7	0.5	0.0	0.0
09/17/2006 22:53:25 UTC	14436	09/24/2006 19:43:46 UTC	14457	0.0344	0.89	573	16.6 (0.7)	0.64 (0.03)	3.87	1.70	88.2	0.2	0.0	0.0
09/24/2006 19:44:29 UTC	14458	10/01/2006 22:10:55 UTC	14504	0.0367	0.894	628	17.0 (0.7)	0.70 (0.03)	4.11	1.98	73.5	2.0	0.0	0.0
10/01/2006 22:11:22 UTC	14505	10/08/2006 23:11:51 UTC	14535	0.0351	0.92	586	16.6 (0.7)	0.63 (0.03)	3.81	1.91	79.1	1.1	1.1	0.0
10/08/2006 23:12:45 UTC	14536	10/15/2006 17:37:40 UTC	14556	0.0185	0.598	320	15.9 (0.9)	0.49 (0.03)	3.10	1.60	63.8	1.2	4.5	0.0
10/15/2006 17:38:09 UTC	14557	10/22/2006 22:16:28 UTC	14579	0.0244	0.628	442	18.1 (0.9)	0.70 (0.03)	3.89	1.38	73.1	0.6	0.0	0.0
10/22/2006 22:17:11 UTC	14580	10/29/2006 23:29:48 UTC	14601	0.0389	0.959	489	12.6 (0.6)	0.51 (0.02)	4.06	1.65	95.2	0.2	0.0	0.0
10/29/2006 23:30:37 UTC	14602	11/05/2006 19:00:38 UTC	14626	0.0111	0.27	129	11.4 (1.0)	0.47 (0.04)	4.12	1.36	33.7	1.3	6.7	1.8
11/05/2006 19:01:05 UTC	14627	11/12/2006 21:16:39 UTC	14649	0.0274	0.642	467	16.5 (0.8)	0.70 (0.03)	4.27	1.47	71.2	0.2	12.4	0.0
11/12/2006 21:17:17 UTC	14650	11/19/2006 18:23:25 UTC	14670	0.0547	1.238	587	10.7 (0.4)	0.47 (0.02)	4.42	2.60	80.1	9.5	11.5	0.0
11/19/2006 18:23:57 UTC	14671	11/26/2006 21:56:34 UTC	14694	0.0623	1.421	980	15.7 (0.5)	0.69 (0.02)	4.38	2.43	94.8	0.7	0.0	0.0

10/27/2002 21:03:32 UTC 2356	11/26/2006 21:56:34 UTC 14694	8.30895285392899	204.451224	741135	69.8	4.1	2.5	1.6	65.1	9.1	-3195.5	-3196		