

ZURICH, SWITZERLAND, NOVEMBER 5, 2020

ABB share buybacks

October 29 – November 4, 2020

During the period October 29, 2020, to November 4, 2020, ABB repurchased a total of 10,285,000 shares as part of its share buyback program announced on July 22, 2020.

The buyback program is being carried out in accordance with the Market Abuse Regulation (EU) No 596/2014 (“MAR”) and the Commission Delegated Regulation (EU) No 2016/1052 (the “Safe Harbour Regulation”).

Date	Aggregated daily volume (number of shares)	Daily weighted average share price (CHF)	Daily buyback amount (CHF)
Oct 29, 2020	2,170,000	22.362304	48,526,199.68
Oct 30, 2020	2,145,000	22.247483	47,720,851.04
Nov 2, 2020	1,910,000	22.715602	43,386,799.82
Nov 3, 2020	2,010,000	23.195871	46,623,700.71
Nov 4, 2020	2,050,000	23.388146	47,945,699.30

All share purchases above have been carried out on a separate trading line on the SIX Swiss Exchange by a bank, on behalf of ABB. A full breakdown of the transactions pursuant to article 5.3 of MAR and article 2.3 of the Safe Harbour Regulation is attached to this announcement. The bank makes its trading decisions concerning the timing of share repurchases independently of ABB, within some defined parameters.

The total number of ABB Ltd shares which have been bought back within the current share buyback program from July 23, 2020, to and including November 4, 2020, is 89,326,859 shares.

Additional information is available on ABB’s investor relations website site at <https://global.abb/group/en/investors/investor-and-shareholder-resources/share-buyback-program>.

ABB (ABBN: SIX Swiss Ex) is a leading global technology company that energizes the transformation of society and industry to achieve a more productive, sustainable future. By connecting software to its electrification, robotics, automation and motion portfolio, ABB pushes the boundaries of technology to drive performance to new levels. With a history of excellence stretching back more than 130 years, ABB’s success is driven by about 110,000 talented employees in over 100 countries. www.abb.com

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Appendix

Detailed individual transaction information:

All share purchases below were completed on a separate trading line on the SIX Swiss Exchange (Bloomberg ticker for SIX Exchange: SE)

Date	Time (CET)	Volume	Price	Exchange					
					2020-10-29	10:28:21	10,000	22.49	SE
2020-10-29	09:12:28	10,000	22.48	SE	2020-10-29	10:31:33	10,000	22.47	SE
2020-10-29	09:22:29	10,000	22.41	SE	2020-10-29	10:32:35	10,000	22.44	SE
2020-10-29	09:22:35	10,000	22.42	SE	2020-10-29	10:34:50	10,000	22.45	SE
2020-10-29	09:23:09	10,000	22.42	SE	2020-10-29	10:38:31	10,000	22.42	SE
2020-10-29	09:23:09	10,000	22.42	SE	2020-10-29	10:39:07	10,000	22.43	SE
2020-10-29	09:23:15	10,000	22.42	SE	2020-10-29	10:45:28	10,000	22.47	SE
2020-10-29	09:23:21	10,000	22.45	SE	2020-10-29	10:45:34	10,000	22.47	SE
2020-10-29	09:23:25	10,000	22.44	SE	2020-10-29	10:47:04	10,000	22.47	SE
2020-10-29	09:23:30	10,000	22.45	SE	2020-10-29	10:48:23	10,000	22.48	SE
2020-10-29	09:27:08	10,000	22.43	SE	2020-10-29	10:51:19	10,000	22.47	SE
2020-10-29	09:27:23	10,000	22.44	SE	2020-10-29	10:53:05	10,000	22.47	SE
2020-10-29	09:27:28	10,000	22.46	SE	2020-10-29	10:56:34	10,000	22.46	SE
2020-10-29	09:30:49	10,000	22.40	SE	2020-10-29	10:58:19	10,000	22.50	SE
2020-10-29	09:31:13	10,000	22.41	SE	2020-10-29	11:00:10	10,000	22.50	SE
2020-10-29	09:34:44	10,000	22.39	SE	2020-10-29	11:02:27	10,000	22.47	SE
2020-10-29	09:34:44	10,000	22.39	SE	2020-10-29	11:05:38	10,000	22.51	SE
2020-10-29	09:38:51	10,000	22.41	SE	2020-10-29	11:09:31	10,000	22.50	SE
2020-10-29	09:39:25	10,000	22.44	SE	2020-10-29	11:09:45	10,000	22.50	SE
2020-10-29	09:40:00	10,000	22.41	SE	2020-10-29	11:11:40	10,000	22.47	SE
2020-10-29	09:42:53	10,000	22.40	SE	2020-10-29	11:15:56	10,000	22.47	SE
2020-10-29	09:43:42	10,000	22.41	SE	2020-10-29	11:15:59	10,000	22.47	SE
2020-10-29	09:46:54	10,000	22.36	SE	2020-10-29	11:18:34	10,000	22.46	SE
2020-10-29	09:49:47	10,000	22.36	SE	2020-10-29	11:20:45	10,000	22.46	SE
2020-10-29	09:53:23	10,000	22.37	SE	2020-10-29	11:23:21	10,000	22.47	SE
2020-10-29	09:53:29	10,000	22.38	SE	2020-10-29	11:25:34	10,000	22.44	SE
2020-10-29	09:56:29	10,000	22.35	SE	2020-10-29	11:28:14	10,000	22.44	SE
2020-10-29	09:58:56	10,000	22.36	SE	2020-10-29	11:30:05	10,000	22.45	SE
2020-10-29	09:59:29	10,000	22.35	SE	2020-10-29	11:32:07	10,000	22.46	SE
2020-10-29	10:01:32	10,000	22.38	SE	2020-10-29	11:34:36	10,000	22.46	SE
2020-10-29	10:03:33	10,000	22.37	SE	2020-10-29	11:35:58	10,000	22.46	SE
2020-10-29	10:05:01	10,000	22.39	SE	2020-10-29	11:39:16	10,000	22.45	SE
2020-10-29	10:08:20	10,000	22.43	SE	2020-10-29	11:39:59	10,000	22.45	SE
2020-10-29	10:10:07	10,000	22.46	SE	2020-10-29	11:43:20	10,000	22.46	SE
2020-10-29	10:12:23	10,000	22.48	SE	2020-10-29	11:45:08	10,000	22.48	SE
2020-10-29	10:14:31	10,000	22.48	SE	2020-10-29	11:56:47	10,000	22.46	SE
2020-10-29	10:17:02	10,000	22.47	SE	2020-10-29	11:56:52	10,000	22.46	SE
2020-10-29	10:21:10	10,000	22.44	SE	2020-10-29	11:56:57	10,000	22.46	SE
2020-10-29	10:21:16	10,000	22.45	SE	2020-10-29	11:57:02	10,000	22.47	SE
2020-10-29	10:24:13	10,000	22.48	SE	2020-10-29	11:57:15	10,000	22.48	SE
2020-10-29	10:25:43	10,000	22.47	SE	2020-10-29	11:58:26	10,000	22.47	SE

2020-10-29	12:00:05	10,000	22.49	SE	2020-10-29	14:39:35	10,000	22.15	SE
2020-10-29	12:06:51	10,000	22.45	SE	2020-10-29	14:39:47	10,000	22.15	SE
2020-10-29	12:06:58	10,000	22.46	SE	2020-10-29	14:41:26	10,000	22.11	SE
2020-10-29	12:07:03	10,000	22.47	SE	2020-10-29	14:41:50	10,000	22.11	SE
2020-10-29	12:09:38	10,000	22.49	SE	2020-10-29	14:45:51	10,000	22.14	SE
2020-10-29	12:15:33	10,000	22.44	SE	2020-10-29	14:51:38	10,000	22.23	SE
2020-10-29	12:19:13	10,000	22.42	SE	2020-10-29	14:52:58	10,000	22.26	SE
2020-10-29	12:19:18	10,000	22.42	SE	2020-10-29	14:55:51	10,000	22.27	SE
2020-10-29	12:19:24	10,000	22.42	SE	2020-10-29	14:59:23	10,000	22.30	SE
2020-10-29	12:21:43	10,000	22.40	SE	2020-10-29	14:59:54	10,000	22.29	SE
2020-10-29	12:31:15	10,000	22.37	SE	2020-10-29	15:02:23	10,000	22.30	SE
2020-10-29	12:31:20	10,000	22.39	SE	2020-10-29	15:02:51	10,000	22.30	SE
2020-10-29	12:31:23	10,000	22.38	SE	2020-10-29	15:03:17	10,000	22.31	SE
2020-10-29	12:33:01	10,000	22.38	SE	2020-10-29	15:04:43	10,000	22.33	SE
2020-10-29	12:36:16	10,000	22.40	SE	2020-10-29	15:04:47	10,000	22.33	SE
2020-10-29	12:42:28	10,000	22.32	SE	2020-10-29	15:06:28	10,000	22.32	SE
2020-10-29	12:46:47	10,000	22.33	SE	2020-10-29	15:07:22	10,000	22.32	SE
2020-10-29	12:52:05	10,000	22.31	SE	2020-10-29	15:07:44	10,000	22.33	SE
2020-10-29	12:52:51	10,000	22.31	SE	2020-10-29	15:08:22	10,000	22.33	SE
2020-10-29	13:01:03	10,000	22.26	SE	2020-10-29	15:08:51	10,000	22.34	SE
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2020-10-29	13:02:58	10,000	22.29	SE	2020-10-29	15:12:48	10,000	22.32	SE
2020-10-29	13:12:26	10,000	22.34	SE	2020-10-29	15:13:26	10,000	22.31	SE
2020-10-29	13:13:40	10,000	22.34	SE	2020-10-29	15:19:32	10,000	22.34	SE
2020-10-29	13:16:30	10,000	22.33	SE	2020-10-29	15:21:08	10,000	22.33	SE
2020-10-29	13:23:38	10,000	22.30	SE	2020-10-29	15:21:41	10,000	22.33	SE
2020-10-29	13:27:28	10,000	22.25	SE	2020-10-29	15:24:00	10,000	22.37	SE
2020-10-29	13:32:35	10,000	22.24	SE	2020-10-29	15:25:47	10,000	22.38	SE
2020-10-29	13:36:15	10,000	22.24	SE	2020-10-29	15:26:18	10,000	22.37	SE
2020-10-29	13:36:56	10,000	22.28	SE	2020-10-29	15:26:30	10,000	22.36	SE
2020-10-29	13:39:46	10,000	22.30	SE	2020-10-29	15:27:32	10,000	22.37	SE
2020-10-29	13:41:25	10,000	22.29	SE	2020-10-29	15:34:46	10,000	22.40	SE
2020-10-29	13:45:49	10,000	22.27	SE	2020-10-29	15:37:57	10,000	22.39	SE
2020-10-29	13:46:36	10,000	22.30	SE	2020-10-29	15:42:08	10,000	22.41	SE
2020-10-29	13:52:25	10,000	22.30	SE	2020-10-29	15:42:13	10,000	22.41	SE
2020-10-29	13:53:29	10,000	22.31	SE	2020-10-29	15:44:15	10,000	22.40	SE
2020-10-29	13:58:48	10,000	22.31	SE	2020-10-29	15:44:35	10,000	22.41	SE
2020-10-29	14:06:33	10,000	22.32	SE	2020-10-29	15:44:52	10,000	22.40	SE
2020-10-29	14:08:55	10,000	22.31	SE	2020-10-29	15:45:29	10,000	22.43	SE
2020-10-29	14:09:19	10,000	22.30	SE	2020-10-29	15:46:00	10,000	22.42	SE
2020-10-29	14:22:12	10,000	22.25	SE	2020-10-29	15:47:50	10,000	22.43	SE
2020-10-29	14:24:48	10,000	22.28	SE	2020-10-29	15:48:40	10,000	22.44	SE
2020-10-29	14:25:13	10,000	22.27	SE	2020-10-29	15:52:00	10,000	22.41	SE
2020-10-29	14:25:22	10,000	22.27	SE	2020-10-29	15:57:34	10,000	22.43	SE
2020-10-29	14:27:59	10,000	22.27	SE	2020-10-29	15:58:24	10,000	22.41	SE
2020-10-29	14:28:49	10,000	22.26	SE	2020-10-29	15:58:46	10,000	22.41	SE
2020-10-29	14:30:42	10,000	22.23	SE	2020-10-29	16:01:31	10,000	22.38	SE
2020-10-29	14:32:12	10,000	22.23	SE	2020-10-29	16:05:42	10,000	22.34	SE
2020-10-29	14:35:37	10,000	22.22	SE	2020-10-29	16:06:47	10,000	22.35	SE

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2020-10-29	16:10:58	10,000	22.36	SE	2020-10-30	09:39:39	10,000	22.17	SE
2020-10-29	16:11:01	10,000	22.36	SE	2020-10-30	09:39:40	10,000	22.17	SE
2020-10-29	16:13:30	10,000	22.38	SE	2020-10-30	09:39:48	10,000	22.17	SE
2020-10-29	16:18:05	10,000	22.38	SE	2020-10-30	09:40:20	10,000	22.16	SE
2020-10-29	16:20:05	10,000	22.38	SE	2020-10-30	09:41:41	10,000	22.12	SE
2020-10-29	16:22:36	10,000	22.39	SE	2020-10-30	09:44:13	10,000	22.13	SE
2020-10-29	16:23:28	10,000	22.38	SE	2020-10-30	09:47:41	10,000	22.14	SE
2020-10-29	16:24:39	10,000	22.38	SE	2020-10-30	09:48:53	10,000	22.16	SE
2020-10-29	16:28:39	10,000	22.41	SE	2020-10-30	09:57:12	10,000	22.13	SE
2020-10-29	16:29:07	10,000	22.40	SE	2020-10-30	09:57:13	10,000	22.13	SE
2020-10-29	16:29:39	10,000	22.39	SE	2020-10-30	09:58:00	10,000	22.15	SE
2020-10-29	16:32:18	10,000	22.33	SE	2020-10-30	10:05:20	10,000	22.19	SE
2020-10-29	16:34:34	10,000	22.33	SE	2020-10-30	10:07:10	10,000	22.17	SE
2020-10-29	16:35:27	10,000	22.31	SE	2020-10-30	10:07:39	10,000	22.14	SE
2020-10-29	16:37:48	10,000	22.29	SE	2020-10-30	10:08:41	10,000	22.18	SE
2020-10-29	16:39:59	10,000	22.29	SE	2020-10-30	10:11:02	10,000	22.18	SE
2020-10-29	16:42:54	10,000	22.24	SE	2020-10-30	10:13:20	10,000	22.22	SE
2020-10-29	16:45:04	10,000	22.22	SE	2020-10-30	10:14:13	10,000	22.22	SE
2020-10-29	16:55:23	10,000	22.21	SE	2020-10-30	10:15:36	10,000	22.21	SE
2020-10-29	16:56:32	10,000	22.22	SE	2020-10-30	10:18:21	10,000	22.25	SE
2020-10-29	16:57:12	10,000	22.23	SE	2020-10-30	10:20:13	10,000	22.29	SE
2020-10-29	17:02:02	10,000	22.18	SE	2020-10-30	10:22:21	10,000	22.28	SE
2020-10-29	17:05:47	10,000	22.19	SE	2020-10-30	10:22:47	10,000	22.29	SE
2020-10-29	17:08:06	10,000	22.18	SE	2020-10-30	10:27:24	10,000	22.30	SE
2020-10-29	17:09:58	10,000	22.17	SE	2020-10-30	10:28:26	10,000	22.31	SE
2020-10-29	17:10:23	10,000	22.17	SE	2020-10-30	10:28:37	10,000	22.30	SE
2020-10-29	17:11:25	10,000	22.18	SE	2020-10-30	10:31:39	10,000	22.32	SE
2020-10-29	17:12:27	10,000	22.18	SE	2020-10-30	10:31:47	10,000	22.32	SE
2020-10-29	17:14:40	10,000	22.20	SE	2020-10-30	10:33:49	10,000	22.31	SE
2020-10-29	17:15:03	10,000	22.20	SE	2020-10-30	10:38:15	10,000	22.32	SE
2020-10-29	17:15:45	10,000	22.21	SE	2020-10-30	10:40:31	10,000	22.34	SE
2020-10-29	17:15:46	10,000	22.21	SE	2020-10-30	10:42:19	10,000	22.36	SE
2020-10-29	17:15:47	10,000	22.21	SE	2020-10-30	10:44:18	10,000	22.38	SE
2020-10-29	17:16:21	10,000	22.21	SE	2020-10-30	10:44:34	10,000	22.38	SE
2020-10-29	17:18:17	10,000	22.21	SE	2020-10-30	10:47:59	10,000	22.42	SE
2020-10-29	17:19:02	10,000	22.21	SE	2020-10-30	10:48:45	10,000	22.41	SE
2020-10-29	17:19:44	10,000	22.21	SE	2020-10-30	10:52:29	10,000	22.44	SE
2020-10-30	09:16:16	10,000	22.01	SE	2020-10-30	10:54:11	10,000	22.41	SE
2020-10-30	09:18:47	10,000	22.05	SE	2020-10-30	10:55:18	10,000	22.40	SE
2020-10-30	09:19:17	10,000	22.05	SE	2020-10-30	11:00:29	10,000	22.35	SE
2020-10-30	09:21:19	10,000	22.11	SE	2020-10-30	11:01:59	10,000	22.32	SE
2020-10-30	09:23:03	10,000	22.14	SE	2020-10-30	11:02:26	10,000	22.31	SE
2020-10-30	09:29:03	10,000	22.11	SE	2020-10-30	11:07:43	10,000	22.28	SE
2020-10-30	09:32:34	10,000	22.13	SE	2020-10-30	11:07:48	10,000	22.29	SE
2020-10-30	09:35:08	10,000	22.16	SE	2020-10-30	11:11:51	10,000	22.28	SE
2020-10-30	09:35:42	10,000	22.16	SE	2020-10-30	11:21:55	10,000	22.25	SE
2020-10-30	09:36:56	10,000	22.15	SE	2020-10-30	11:23:52	10,000	22.24	SE
2020-10-30	09:37:09	10,000	22.16	SE	2020-10-30	11:24:20	10,000	22.25	SE

2020-10-30	11:25:41	10,000	22.25	SE	2020-10-30	14:10:17	10,000	22.29	SE
2020-10-30	11:25:45	10,000	22.26	SE	2020-10-30	14:10:50	10,000	22.29	SE
2020-10-30	11:26:08	10,000	22.26	SE	2020-10-30	14:11:08	5,000	22.29	SE
2020-10-30	11:26:41	10,000	22.25	SE	2020-10-30	14:11:08	10,000	22.29	SE
2020-10-30	11:26:52	10,000	22.24	SE	2020-10-30	14:19:54	10,000	22.30	SE
2020-10-30	11:29:01	10,000	22.23	SE	2020-10-30	14:19:54	10,000	22.30	SE
2020-10-30	11:31:45	10,000	22.20	SE	2020-10-30	14:22:23	10,000	22.31	SE
2020-10-30	11:33:11	10,000	22.20	SE	2020-10-30	14:25:18	10,000	22.33	SE
2020-10-30	11:35:10	10,000	22.20	SE	2020-10-30	14:25:42	10,000	22.33	SE
2020-10-30	11:38:36	10,000	22.20	SE	2020-10-30	14:32:46	10,000	22.34	SE
2020-10-30	11:40:17	10,000	22.17	SE	2020-10-30	14:33:27	10,000	22.34	SE
2020-10-30	11:43:07	10,000	22.16	SE	2020-10-30	14:35:49	10,000	22.31	SE
2020-10-30	11:43:48	10,000	22.16	SE	2020-10-30	14:40:15	10,000	22.33	SE
2020-10-30	11:46:11	10,000	22.17	SE	2020-10-30	14:40:48	10,000	22.33	SE
2020-10-30	11:51:14	10,000	22.13	SE	2020-10-30	14:45:30	10,000	22.27	SE
2020-10-30	11:52:46	10,000	22.15	SE	2020-10-30	14:45:56	10,000	22.27	SE
2020-10-30	11:54:47	10,000	22.17	SE	2020-10-30	14:46:58	10,000	22.26	SE
2020-10-30	11:54:47	10,000	22.17	SE	2020-10-30	14:51:45	10,000	22.22	SE
2020-10-30	11:58:16	10,000	22.22	SE	2020-10-30	15:08:51	10,000	22.25	SE
2020-10-30	12:01:14	10,000	22.26	SE	2020-10-30	15:08:53	10,000	22.26	SE
2020-10-30	12:05:55	10,000	22.25	SE	2020-10-30	15:09:24	10,000	22.26	SE
2020-10-30	12:08:50	10,000	22.28	SE	2020-10-30	15:10:00	10,000	22.26	SE
2020-10-30	12:08:53	10,000	22.28	SE	2020-10-30	15:12:26	10,000	22.25	SE
2020-10-30	12:13:32	10,000	22.30	SE	2020-10-30	15:13:40	10,000	22.24	SE
2020-10-30	12:14:21	10,000	22.30	SE	2020-10-30	15:13:48	10,000	22.23	SE
2020-10-30	12:26:52	10,000	22.31	SE	2020-10-30	15:18:20	10,000	22.27	SE
2020-10-30	12:26:53	10,000	22.31	SE	2020-10-30	15:21:24	10,000	22.26	SE
2020-10-30	12:30:25	10,000	22.31	SE	2020-10-30	15:21:41	10,000	22.26	SE
2020-10-30	12:31:35	10,000	22.30	SE	2020-10-30	15:22:11	10,000	22.26	SE
2020-10-30	12:33:23	10,000	22.30	SE	2020-10-30	15:24:28	10,000	22.26	SE
2020-10-30	12:34:04	10,000	22.29	SE	2020-10-30	15:24:43	10,000	22.25	SE
2020-10-30	12:35:17	10,000	22.29	SE	2020-10-30	15:24:53	10,000	22.25	SE
2020-10-30	12:35:20	10,000	22.29	SE	2020-10-30	15:25:18	10,000	22.24	SE
2020-10-30	12:40:10	10,000	22.31	SE	2020-10-30	15:25:32	10,000	22.24	SE
2020-10-30	12:50:32	10,000	22.29	SE	2020-10-30	15:26:44	10,000	22.23	SE
2020-10-30	13:04:24	10,000	22.29	SE	2020-10-30	15:28:50	10,000	22.23	SE
2020-10-30	13:05:44	10,000	22.28	SE	2020-10-30	15:29:28	10,000	22.21	SE
2020-10-30	13:06:42	10,000	22.27	SE	2020-10-30	15:29:32	10,000	22.21	SE
2020-10-30	13:07:14	10,000	22.27	SE	2020-10-30	15:30:00	10,000	22.22	SE
2020-10-30	13:12:13	10,000	22.25	SE	2020-10-30	15:31:19	10,000	22.22	SE
2020-10-30	13:12:32	10,000	22.24	SE	2020-10-30	15:32:09	10,000	22.22	SE
2020-10-30	13:12:38	10,000	22.23	SE	2020-10-30	15:49:04	10,000	22.15	SE
2020-10-30	13:23:04	10,000	22.20	SE	2020-10-30	15:50:15	10,000	22.15	SE
2020-10-30	13:30:53	10,000	22.21	SE	2020-10-30	15:51:38	10,000	22.16	SE
2020-10-30	13:39:51	10,000	22.22	SE	2020-10-30	15:54:29	10,000	22.18	SE
2020-10-30	14:00:23	10,000	22.29	SE	2020-10-30	15:58:32	10,000	22.19	SE
2020-10-30	14:05:28	10,000	22.27	SE	2020-10-30	15:58:49	10,000	22.18	SE
2020-10-30	14:06:44	10,000	22.28	SE	2020-10-30	15:59:47	10,000	22.16	SE
2020-10-30	14:08:05	10,000	22.28	SE	2020-10-30	16:00:14	10,000	22.17	SE

2020-10-30	16:02:23	10,000	22.20	SE	2020-10-30	17:04:44	10,000	22.28	SE
2020-10-30	16:04:07	10,000	22.22	SE	2020-10-30	17:07:54	10,000	22.27	SE
2020-10-30	16:04:11	10,000	22.23	SE	2020-10-30	17:08:02	10,000	22.26	SE
2020-10-30	16:05:12	10,000	22.23	SE	2020-10-30	17:10:11	10,000	22.26	SE
2020-10-30	16:06:09	10,000	22.22	SE	2020-10-30	17:16:07	10,000	22.25	SE
2020-10-30	16:06:15	10,000	22.22	SE	2020-10-30	17:16:16	10,000	22.24	SE
2020-10-30	16:06:19	10,000	22.22	SE	2020-10-30	17:17:51	10,000	22.26	SE
2020-10-30	16:07:47	10,000	22.22	SE	2020-10-30	17:18:43	10,000	22.27	SE
2020-10-30	16:09:12	10,000	22.23	SE	2020-11-02	09:21:14	10,000	22.25	SE
2020-10-30	16:09:29	10,000	22.22	SE	2020-11-02	09:30:47	10,000	22.21	SE
2020-10-30	16:11:36	10,000	22.24	SE	2020-11-02	09:32:13	10,000	22.21	SE
2020-10-30	16:11:36	10,000	22.24	SE	2020-11-02	09:32:18	10,000	22.21	SE
2020-10-30	16:13:33	10,000	22.27	SE	2020-11-02	09:32:56	10,000	22.20	SE
2020-10-30	16:13:59	10,000	22.27	SE	2020-11-02	09:37:41	10,000	22.22	SE
2020-10-30	16:14:53	10,000	22.28	SE	2020-11-02	09:39:40	10,000	22.22	SE
2020-10-30	16:15:19	10,000	22.28	SE	2020-11-02	09:44:34	10,000	22.23	SE
2020-10-30	16:16:20	10,000	22.29	SE	2020-11-02	09:50:20	10,000	22.22	SE
2020-10-30	16:16:58	10,000	22.28	SE	2020-11-02	09:51:45	10,000	22.26	SE
2020-10-30	16:16:59	10,000	22.28	SE	2020-11-02	09:56:30	10,000	22.30	SE
2020-10-30	16:17:48	10,000	22.28	SE	2020-11-02	09:56:59	10,000	22.29	SE
2020-10-30	16:19:06	10,000	22.27	SE	2020-11-02	09:58:32	10,000	22.32	SE
2020-10-30	16:19:09	10,000	22.26	SE	2020-11-02	09:58:38	10,000	22.31	SE
2020-10-30	16:21:17	10,000	22.28	SE	2020-11-02	10:05:20	10,000	22.36	SE
2020-10-30	16:21:18	10,000	22.28	SE	2020-11-02	10:06:53	10,000	22.37	SE
2020-10-30	16:21:23	10,000	22.28	SE	2020-11-02	10:25:44	10,000	22.41	SE
2020-10-30	16:21:28	10,000	22.28	SE	2020-11-02	10:32:03	10,000	22.57	SE
2020-10-30	16:21:34	10,000	22.28	SE	2020-11-02	10:32:13	10,000	22.56	SE
2020-10-30	16:21:38	10,000	22.28	SE	2020-11-02	10:32:21	10,000	22.55	SE
2020-10-30	16:21:43	10,000	22.28	SE	2020-11-02	10:33:41	10,000	22.54	SE
2020-10-30	16:24:14	10,000	22.31	SE	2020-11-02	10:33:53	10,000	22.54	SE
2020-10-30	16:25:31	10,000	22.32	SE	2020-11-02	10:35:27	10,000	22.54	SE
2020-10-30	16:26:38	10,000	22.30	SE	2020-11-02	10:35:38	10,000	22.54	SE
2020-10-30	16:30:16	10,000	22.26	SE	2020-11-02	10:36:52	10,000	22.54	SE
2020-10-30	16:33:06	10,000	22.27	SE	2020-11-02	10:37:01	10,000	22.53	SE
2020-10-30	16:34:25	10,000	22.26	SE	2020-11-02	10:37:39	10,000	22.52	SE
2020-10-30	16:35:06	10,000	22.26	SE	2020-11-02	10:39:26	10,000	22.54	SE
2020-10-30	16:40:33	10,000	22.26	SE	2020-11-02	10:48:54	10,000	22.51	SE
2020-10-30	16:42:49	10,000	22.26	SE	2020-11-02	10:49:44	10,000	22.52	SE
2020-10-30	16:44:12	10,000	22.25	SE	2020-11-02	10:54:20	10,000	22.52	SE
2020-10-30	16:47:54	10,000	22.26	SE	2020-11-02	10:54:30	10,000	22.52	SE
2020-10-30	16:48:04	10,000	22.26	SE	2020-11-02	11:05:48	10,000	22.54	SE
2020-10-30	16:51:41	10,000	22.27	SE	2020-11-02	11:26:34	10,000	22.54	SE
2020-10-30	16:52:12	10,000	22.27	SE	2020-11-02	11:26:34	10,000	22.53	SE
2020-10-30	16:55:25	10,000	22.28	SE	2020-11-02	11:29:34	10,000	22.58	SE
2020-10-30	16:56:05	10,000	22.27	SE	2020-11-02	11:29:40	10,000	22.58	SE
2020-10-30	16:56:24	10,000	22.27	SE	2020-11-02	11:31:51	10,000	22.57	SE
2020-10-30	16:59:46	10,000	22.28	SE	2020-11-02	11:32:12	10,000	22.58	SE
2020-10-30	17:00:28	10,000	22.27	SE	2020-11-02	11:36:22	10,000	22.56	SE
2020-10-30	17:02:33	10,000	22.26	SE	2020-11-02	11:36:26	10,000	22.56	SE

2020-11-02	11:43:33	10,000	22.57	SE	2020-11-02	13:38:07	10,000	22.68	SE
2020-11-02	11:43:40	10,000	22.56	SE	2020-11-02	13:43:13	10,000	22.66	SE
2020-11-02	11:43:46	10,000	22.56	SE	2020-11-02	13:45:42	10,000	22.68	SE
2020-11-02	11:44:02	10,000	22.56	SE	2020-11-02	13:46:07	10,000	22.69	SE
2020-11-02	11:44:10	10,000	22.57	SE	2020-11-02	13:49:55	10,000	22.69	SE
2020-11-02	11:49:40	10,000	22.58	SE	2020-11-02	13:53:23	10,000	22.65	SE
2020-11-02	11:50:02	10,000	22.60	SE	2020-11-02	13:56:22	10,000	22.65	SE
2020-11-02	11:50:41	10,000	22.62	SE	2020-11-02	13:57:33	10,000	22.65	SE
2020-11-02	11:52:26	10,000	22.63	SE	2020-11-02	14:00:42	10,000	22.66	SE
2020-11-02	11:53:19	10,000	22.64	SE	2020-11-02	14:04:55	10,000	22.67	SE
2020-11-02	12:01:26	10,000	22.61	SE	2020-11-02	14:06:29	10,000	22.66	SE
2020-11-02	12:02:18	10,000	22.62	SE	2020-11-02	14:08:25	10,000	22.68	SE
2020-11-02	12:02:37	10,000	22.62	SE	2020-11-02	14:13:03	10,000	22.70	SE
2020-11-02	12:04:03	10,000	22.62	SE	2020-11-02	14:14:08	10,000	22.70	SE
2020-11-02	12:06:49	10,000	22.62	SE	2020-11-02	14:14:38	10,000	22.71	SE
2020-11-02	12:07:52	10,000	22.62	SE	2020-11-02	14:17:04	10,000	22.72	SE
2020-11-02	12:08:03	10,000	22.62	SE	2020-11-02	14:19:25	10,000	22.74	SE
2020-11-02	12:08:22	10,000	22.62	SE	2020-11-02	14:21:59	10,000	22.76	SE
2020-11-02	12:11:04	10,000	22.68	SE	2020-11-02	14:24:21	10,000	22.76	SE
2020-11-02	12:19:23	10,000	22.62	SE	2020-11-02	14:26:52	10,000	22.77	SE
2020-11-02	12:20:18	10,000	22.62	SE	2020-11-02	14:30:59	10,000	22.78	SE
2020-11-02	12:20:36	10,000	22.62	SE	2020-11-02	14:31:03	10,000	22.78	SE
2020-11-02	12:20:44	10,000	22.62	SE	2020-11-02	14:33:11	10,000	22.79	SE
2020-11-02	12:21:27	10,000	22.64	SE	2020-11-02	14:36:57	10,000	22.80	SE
2020-11-02	12:24:18	10,000	22.66	SE	2020-11-02	14:38:38	10,000	22.79	SE
2020-11-02	12:27:40	10,000	22.66	SE	2020-11-02	14:40:09	10,000	22.78	SE
2020-11-02	12:27:46	10,000	22.66	SE	2020-11-02	14:44:42	10,000	22.81	SE
2020-11-02	12:30:22	10,000	22.65	SE	2020-11-02	14:45:54	10,000	22.83	SE
2020-11-02	12:33:49	10,000	22.65	SE	2020-11-02	14:46:06	10,000	22.83	SE
2020-11-02	12:38:03	10,000	22.66	SE	2020-11-02	14:48:40	10,000	22.80	SE
2020-11-02	12:40:14	10,000	22.67	SE	2020-11-02	14:50:46	10,000	22.81	SE
2020-11-02	12:40:42	10,000	22.69	SE	2020-11-02	14:53:13	10,000	22.80	SE
2020-11-02	12:44:46	10,000	22.65	SE	2020-11-02	14:57:40	10,000	22.81	SE
2020-11-02	12:46:53	10,000	22.63	SE	2020-11-02	14:58:48	10,000	22.81	SE
2020-11-02	12:49:42	10,000	22.64	SE	2020-11-02	14:59:39	10,000	22.81	SE
2020-11-02	12:56:16	10,000	22.66	SE	2020-11-02	15:00:50	10,000	22.81	SE
2020-11-02	12:56:26	10,000	22.66	SE	2020-11-02	15:02:15	10,000	22.80	SE
2020-11-02	13:00:03	10,000	22.67	SE	2020-11-02	15:04:33	10,000	22.80	SE
2020-11-02	13:04:20	10,000	22.65	SE	2020-11-02	15:05:42	10,000	22.81	SE
2020-11-02	13:07:05	10,000	22.66	SE	2020-11-02	15:08:29	10,000	22.83	SE
2020-11-02	13:09:23	10,000	22.66	SE	2020-11-02	15:10:32	10,000	22.81	SE
2020-11-02	13:10:45	10,000	22.67	SE	2020-11-02	15:13:11	10,000	22.80	SE
2020-11-02	13:17:17	10,000	22.69	SE	2020-11-02	15:15:33	10,000	22.83	SE
2020-11-02	13:18:49	10,000	22.69	SE	2020-11-02	15:19:06	10,000	22.83	SE
2020-11-02	13:22:29	10,000	22.68	SE	2020-11-02	15:25:54	10,000	22.83	SE
2020-11-02	13:24:01	10,000	22.68	SE	2020-11-02	15:26:01	10,000	22.84	SE
2020-11-02	13:28:43	10,000	22.68	SE	2020-11-02	15:26:19	10,000	22.84	SE
2020-11-02	13:32:28	10,000	22.66	SE	2020-11-02	15:31:29	10,000	22.86	SE
2020-11-02	13:34:31	10,000	22.68	SE	2020-11-02	15:31:56	10,000	22.83	SE

2020-11-02	15:32:00	10,000	22.82	SE	2020-11-02	16:41:29	10,000	22.98	SE
2020-11-02	15:32:02	10,000	22.82	SE	2020-11-02	16:43:08	10,000	22.96	SE
2020-11-02	15:32:10	10,000	22.82	SE	2020-11-02	16:51:19	10,000	22.97	SE
2020-11-02	15:33:45	10,000	22.84	SE	2020-11-03	09:22:25	10,000	23.11	SE
2020-11-02	15:34:24	10,000	22.84	SE	2020-11-03	09:23:06	10,000	23.13	SE
2020-11-02	15:35:24	10,000	22.82	SE	2020-11-03	09:25:06	10,000	23.14	SE
2020-11-02	15:40:40	10,000	22.81	SE	2020-11-03	09:27:46	10,000	23.15	SE
2020-11-02	15:43:14	10,000	22.83	SE	2020-11-03	09:28:22	10,000	23.15	SE
2020-11-02	15:43:46	10,000	22.83	SE	2020-11-03	09:29:42	10,000	23.16	SE
2020-11-02	15:43:55	10,000	22.83	SE	2020-11-03	09:31:07	10,000	23.13	SE
2020-11-02	15:47:15	10,000	22.83	SE	2020-11-03	09:32:09	10,000	23.14	SE
2020-11-02	15:53:39	10,000	22.93	SE	2020-11-03	09:32:30	10,000	23.15	SE
2020-11-02	15:54:11	10,000	22.94	SE	2020-11-03	09:33:03	10,000	23.16	SE
2020-11-02	15:56:06	10,000	22.92	SE	2020-11-03	09:35:18	10,000	23.15	SE
2020-11-02	15:56:17	10,000	22.92	SE	2020-11-03	09:37:11	10,000	23.15	SE
2020-11-02	15:59:54	10,000	22.96	SE	2020-11-03	09:40:56	10,000	23.20	SE
2020-11-02	16:00:06	10,000	23.00	SE	2020-11-03	09:41:58	10,000	23.19	SE
2020-11-02	16:00:34	10,000	22.97	SE	2020-11-03	09:42:51	10,000	23.21	SE
2020-11-02	16:03:18	10,000	22.99	SE	2020-11-03	09:45:11	10,000	23.22	SE
2020-11-02	16:03:38	10,000	22.98	SE	2020-11-03	09:46:48	10,000	23.24	SE
2020-11-02	16:07:34	10,000	23.00	SE	2020-11-03	09:48:02	10,000	23.22	SE
2020-11-02	16:08:21	10,000	23.00	SE	2020-11-03	09:51:06	10,000	23.26	SE
2020-11-02	16:11:31	10,000	23.00	SE	2020-11-03	09:54:31	10,000	23.26	SE
2020-11-02	16:13:37	10,000	22.99	SE	2020-11-03	09:55:53	10,000	23.27	SE
2020-11-02	16:24:11	10,000	23.03	SE	2020-11-03	09:56:02	10,000	23.27	SE
2020-11-02	16:24:27	10,000	23.04	SE	2020-11-03	09:58:32	10,000	23.23	SE
2020-11-02	16:24:47	10,000	23.04	SE	2020-11-03	10:02:13	10,000	23.22	SE
2020-11-02	16:26:31	10,000	23.04	SE	2020-11-03	10:02:46	10,000	23.22	SE
2020-11-02	16:27:13	10,000	23.04	SE	2020-11-03	10:05:11	10,000	23.21	SE
2020-11-02	16:28:32	10,000	23.06	SE	2020-11-03	10:06:20	10,000	23.20	SE
2020-11-02	16:28:58	10,000	23.06	SE	2020-11-03	10:15:25	10,000	23.19	SE
2020-11-02	16:30:53	10,000	23.01	SE	2020-11-03	10:18:54	10,000	23.20	SE
2020-11-02	16:31:29	10,000	23.00	SE	2020-11-03	10:21:22	10,000	23.21	SE
2020-11-02	16:31:35	10,000	23.01	SE	2020-11-03	10:21:29	10,000	23.20	SE
2020-11-02	16:31:44	10,000	23.01	SE	2020-11-03	10:21:46	10,000	23.20	SE
2020-11-02	16:32:11	10,000	23.01	SE	2020-11-03	10:21:52	10,000	23.20	SE
2020-11-02	16:32:16	10,000	23.02	SE	2020-11-03	10:22:05	10,000	23.20	SE
2020-11-02	16:32:22	10,000	23.02	SE	2020-11-03	10:36:14	10,000	23.15	SE
2020-11-02	16:33:44	10,000	23.02	SE	2020-11-03	10:37:53	10,000	23.16	SE
2020-11-02	16:33:48	10,000	23.01	SE	2020-11-03	10:39:53	10,000	23.17	SE
2020-11-02	16:35:06	10,000	23.03	SE	2020-11-03	10:42:09	10,000	23.17	SE
2020-11-02	16:35:11	10,000	23.03	SE	2020-11-03	10:42:37	10,000	23.18	SE
2020-11-02	16:35:26	10,000	23.05	SE	2020-11-03	10:43:31	10,000	23.19	SE
2020-11-02	16:35:37	10,000	23.06	SE	2020-11-03	10:43:55	10,000	23.19	SE
2020-11-02	16:35:56	10,000	23.06	SE	2020-11-03	10:44:14	10,000	23.19	SE
2020-11-02	16:36:08	10,000	23.05	SE	2020-11-03	10:45:33	10,000	23.19	SE
2020-11-02	16:36:56	10,000	23.05	SE	2020-11-03	10:47:43	10,000	23.20	SE
2020-11-02	16:39:00	10,000	23.00	SE	2020-11-03	10:51:10	10,000	23.21	SE
2020-11-02	16:39:58	10,000	22.98	SE	2020-11-03	10:53:24	10,000	23.21	SE

2020-11-03	10:58:09	10,000	23.22	SE	2020-11-03	14:14:49	10,000	23.16	SE
2020-11-03	11:03:53	10,000	23.19	SE	2020-11-03	14:17:17	10,000	23.15	SE
2020-11-03	11:06:10	10,000	23.21	SE	2020-11-03	14:19:13	10,000	23.13	SE
2020-11-03	11:17:40	10,000	23.21	SE	2020-11-03	14:21:41	10,000	23.15	SE
2020-11-03	11:17:45	10,000	23.20	SE	2020-11-03	14:25:26	10,000	23.14	SE
2020-11-03	11:20:26	10,000	23.21	SE	2020-11-03	14:33:25	10,000	23.15	SE
2020-11-03	11:21:05	10,000	23.20	SE	2020-11-03	14:33:28	10,000	23.15	SE
2020-11-03	11:21:40	10,000	23.20	SE	2020-11-03	14:34:00	10,000	23.15	SE
2020-11-03	11:25:02	10,000	23.21	SE	2020-11-03	14:35:11	10,000	23.15	SE
2020-11-03	11:28:26	10,000	23.20	SE	2020-11-03	14:35:15	10,000	23.16	SE
2020-11-03	11:29:33	10,000	23.21	SE	2020-11-03	14:36:21	10,000	23.15	SE
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2020-11-03	12:54:16	10,000	23.17	SE	2020-11-03	15:16:16	10,000	23.21	SE
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2020-11-03	13:18:19	10,000	23.18	SE	2020-11-03	15:21:45	10,000	23.18	SE
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2020-11-03	13:24:51	10,000	23.16	SE	2020-11-03	15:31:18	10,000	23.15	SE
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2020-11-03	13:33:06	10,000	23.17	SE	2020-11-03	15:31:43	10,000	23.15	SE
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2020-11-03	14:14:18	10,000	23.16	SE	2020-11-03	15:44:53	10,000	23.14	SE

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2020-11-03	16:29:45	10,000	23.27	SE	2020-11-04	10:08:24	10,000	23.28	SE
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2020-11-03	16:43:32	10,000	23.26	SE	2020-11-04	10:33:03	10,000	23.41	SE
2020-11-03	16:43:39	10,000	23.27	SE	2020-11-04	10:33:26	10,000	23.42	SE
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2020-11-03	16:46:01	10,000	23.30	SE	2020-11-04	10:35:38	10,000	23.46	SE
2020-11-03	16:47:21	10,000	23.33	SE	2020-11-04	10:40:05	10,000	23.49	SE
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2020-11-04	11:23:30	10,000	23.35	SE	2020-11-04	13:37:02	10,000	23.49	SE
2020-11-04	11:24:41	10,000	23.32	SE	2020-11-04	13:41:14	10,000	23.47	SE
2020-11-04	11:24:44	10,000	23.32	SE	2020-11-04	13:44:25	10,000	23.46	SE
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2020-11-04	11:43:39	10,000	23.33	SE	2020-11-04	14:14:53	10,000	23.53	SE
2020-11-04	11:43:40	10,000	23.33	SE	2020-11-04	14:30:17	10,000	23.56	SE
2020-11-04	11:43:41	10,000	23.33	SE	2020-11-04	14:30:33	10,000	23.55	SE
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2020-11-04	12:18:27	10,000	23.33	SE	2020-11-04	14:43:16	10,000	23.49	SE
2020-11-04	12:20:00	10,000	23.34	SE	2020-11-04	14:44:09	10,000	23.48	SE
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2020-11-04	12:23:55	10,000	23.36	SE	2020-11-04	14:57:02	10,000	23.51	SE
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2020-11-04	12:27:42	10,000	23.43	SE	2020-11-04	14:58:53	10,000	23.49	SE
2020-11-04	12:28:02	10,000	23.44	SE	2020-11-04	15:06:06	10,000	23.46	SE
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2020-11-04	12:30:30	10,000	23.43	SE	2020-11-04	15:08:36	10,000	23.45	SE
2020-11-04	12:33:33	10,000	23.43	SE	2020-11-04	15:09:09	10,000	23.44	SE

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2020-11-04	15:11:24	10,000	23.43	SE	2020-11-04	16:52:04	10,000	23.47	SE
2020-11-04	15:14:19	10,000	23.43	SE	2020-11-04	16:54:51	10,000	23.53	SE
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2020-11-04	15:19:57	10,000	23.38	SE	2020-11-04	16:55:28	10,000	23.52	SE
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2020-11-04	16:27:50	10,000	23.47	SE					
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