



Weather Station Network News

Data Updates • Station Status • Maintenance Information

220 Water Ave.
Berthoud, CO 80513

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northernwater.org

Date/Time	Station	Update
12/6/13 9:05 a.m.	224 Greeley West	Snow and ice covered the solar panel which prevented the battery from receiving adequate charge. The solar panel was cleared off and the battery was swapped out. No data correction was necessary.
12/13/13 9:45 a.m.	228 Fort Collins Central	The soil temperature probe cable had been severed after the access valve box lid had been lost or removed. The cable was spliced and the valve box lid was replaced.
10/25/13 7:13 a.m.	111 Johnson's Corner	The calibration factors were lost from the data logger due to a brief power outage. The factors were applied to the corrected data.
10/25/13 12:25 p.m.	233 Boulder North West	Fall maintenance was performed. The Vaisala temperature & relative humidity, Li-cor pyranometer, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
10/22/13 4:22 p.m.	228 Fort Collins Central	Fall maintenance was performed. The RM Young wind speed & direction, and Li-cor pyranometer sensors were changed out for newly calibrated sensors.
10/17/13 12:05 p.m.	111 Johnson's Corner	The Vaisala temperature & relative humidity, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors. The weighing bucket precipitation gauge was calibrated in place.
10/16/13 1:14 p.m.	111 Johnson's Corner	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled.
10/16/13 11:00 a.m.	220 Berthoud	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind direction setting was found to be offset by -17°. Data points beginning at 6:30 MST 8/22/13 through and including 10:00 MST 10/16/13 were corrected.
10/14/13 1:56 p.m.	102 Loveland	Fall maintenance was performed. The Vaisala temperature & relative humidity, Li-cor pyranometer, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
10/11/13 1:30 p.m.	230 Boulder South West	Fall maintenance was performed. The tipping bucket rain gauge, and Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors.
10/11/13 10:12 a.m.	225 Fort Lupton	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors.
10/10/13 3:14 p.m.	110 Ovid	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled.
10/10/13 2:01 p.m.	109 Crook	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled.
10/10/13 11:55 a.m.	108 Sterling	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled.
10/9/13 3:09 p.m.	103 Longmont South	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The soil

Date/Time	Station	Update
		temperature probe was changed out for a newly calibrated one.
10/9/13 12:28 p.m.	226 Longmont West	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled.
10/8/13 2:41 p.m.	107 Brush	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind direction setting was verified.
10/8/13 1:15 p.m.	222 Fort Morgan	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind direction setting was verified. The weighing bucket precipitation gauge was recharged.
10/8/13 11:47 a.m.	106 Wiggins	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind direction setting was verified. The weighing bucket precipitation gauge was recharged.
10/8/13 9:01 a.m.	224 Greeley West	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
10/7/13 4:11 p.m.	105 Gilcrest	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind direction setting was verified.
10/7/13 2:14 p.m.	104 Eaton	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
10/7/13 11:07 a.m.	101 Fort Collins East	Fall maintenance was performed. The tipping bucket rain gauge was removed for the season. The Li-cor pyranometer was cleaned and leveled. The RM Young wind direction setting was verified. The weighing bucket precipitation gauge was recharged.
9/25/13 12:22 p.m.	104 Eaton	The weighing bucket precipitation gauge was recharged.
9/25/13 11:29 a.m.	224 Greeley West	The weighing bucket precipitation gauge was recharged.
9/24/13 2:09 p.m.	110 Ovid	The weighing bucket precipitation gauge was recharged.
9/24/13 1:50 p.m.	109 Crook	The weighing bucket precipitation gauge was recharged.
9/24/13 12:06 p.m.	108 Sterling	The weighing bucket precipitation gauge was recharged.
9/23/13 12:29 p.m.	107 Brush	The weighing bucket precipitation gauge was recharged.
9/23/13 2:09 p.m.	105 Gilcrest	The weighing bucket precipitation gauge was recharged.
9/23/13 11:33 a.m.	222 Fort Morgan	The weighing bucket precipitation gauge was recharged.
9/23/13 10:19 a.m.	106 Wiggins	The tipping bucket rain gauge funnel was cleaned of debris.
9/19/13 2:33 p.m.	350 Windy Gap	The Vaisala temperature & relative humidity, Li-cor pyranometer, RM Young wind speed & direction, water temperature, and rain gauge tipping bucket with snowfall adaptor sensors were changed out for newly calibrated sensors. The weighing bucket precipitation gauge was calibrated in place and recharged.

Date/Time	Station	Update
9/19/13 1:23 p.m.	352 Shadow Mountain	The Vaisala temperature & relative humidity, Li-cor pyranometer, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
9/18/13 2:54 p.m.	103 Longmont South	The weighing bucket precipitation gauge was recharged.
9/17/13 10:18 a.m.	111 Johnson's Corner	The weighing bucket precipitation gauge was recharged. The tipping bucket rain gauge funnel was cleaned of debris.
9/17/13 11:56 a.m.	225 Fort Lupton	The weighing bucket precipitation gauge was recharged.
9/16/13 10:28 a.m.	220 Berthoud	The weighing bucket precipitation gauge was recharged.
8/27/13 11:17 a.m.	226 Longmont West	The Vaisala temperature & relative humidity sensor had been occasionally dropping out since 8/1/13. The sensor was replaced and the gill radiation shield was also replaced.
8/22/13 1:43 p.m.	105 Gilcrest	The Vaisala temperature & relative humidity, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors. The weighing bucket precipitation gauge was calibrated in place and recharged. The tipping bucket rain gauge funnel was cleaned.
8/22/13 8:58 a.m.	220 Berthoud	The Vaisala temperature & relative humidity, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
8/22/13 5:04 p.m.	107 Brush	The Vaisala temperature & relative humidity, and soil temperature sensors were changed out for newly calibrated sensors. The tipping bucket rain gauge funnel was cleaned.
8/22/13 9:01 a.m.	220 Berthoud	The weighing bucket precipitation gauge was calibrated in place.
8/21/13 3:27 p.m.	103 Longmont South	The calibration factors were lost after a brief power outage. Data points between 12:15 MST & 14:30 MST were corrected.
8/21/13 1:55 p.m.	103 Longmont South	The Vaisala temperature & relative humidity, Li-cor pyranometer, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
8/7/13 10:11 a.m.	101 Fort Collins East	The weighing bucket precipitation gauge was recharged.
7/29/13 14:26 p.m.	108 Sterling	The weighing bucket precipitation gauge was recharged.
7/29/13 12:51 p.m.	224 Greeley West	The weighing bucket precipitation gauge was calibrated in place and recharged.
7/26/13 10:15 a.m.	226 Longmont West	The Vaisala temperature & relative humidity, Li-cor pyranometer, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
7/26/13 1:16 p.m.	230 Boulder Southwest	The RM Young wind speed & direction sensors, and Li-cor pyranometer were changed out for newly calibrated sensors.
7/16/13 10:23 a.m.	225 Fort Lupton	The tipping bucket rain gauge was cleaned and leveled.
7/15/13 8:26 a.m.	220 Berthoud	The weighing bucket precipitation gauge was recharged.
7/11/13 12:30 p.m.	222 Fort Morgan	The Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors.
7/10/13 2:04 p.m.	107 Brush	The weighing bucket precipitation gauge had been inadvertently destroyed by farm equipment. The weighing bucket and alter wind guard were replaced.
7/2/13 1:28 p.m.	106 Wiggins	The weighing bucket precipitation gauge was calibrated in place and recharged. The Vaisala temperature & relative humidity, and soil temperature sensors were changed out for newly calibrated sensors.

Date/Time	Station	Update
6/25/13 11:30 a.m.	109 Crook	The weighing bucket precipitation gauge was calibrated in place and recharged.
6/24/13	108 Sterling	The RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
6/24/13 11:15 a.m.	107 Brush	The tipping bucket rain gauge had become plugged with debris. The funnel was cleaned. The weighing bucket precipitation gauge was calibrated in place.
6/21/13 11:05 a.m.	102 Loveland	The soil temperature probe and Li-cor pyranometer were changed out for newly calibrated sensors.
6/20/13 8:44 a.m.	111 Johnson's Corner	The soil temperature probe was changed out for a newly calibrated sensor.
6/20/13 11:58 a.m.	224 Greeley West	The Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors.
6/20/13 3:30 p.m.	101 Fort Collins East	The Li-Cor pyranometer was changed out for newly calibrated sensor.
6/20/13 1:00 p.m.	104 Eaton	The weighing bucket precipitation gauge was recharged.
6/18/13 1:50 p.m.	105 Gilcrest	The soil temperature probe was changed out for a newly calibrated sensor.
6/17/13 11:47 a.m.	225 Fort Lupton	The tipping bucket rain gauge was cleaned and leveled. The weighing bucket precipitation gauge was calibrated in place and recharged. The Li-Cor pyranometer, soil temperature probe, and RM Young wind speed & direction sensors were changed out for newly calibrated sensors.
6/14/13 12:00 p.m.	222 Fort Morgan	The soil temperature probe was swapped out for a newly calibrated sensor. The weighing bucket precipitation gauge was calibrated in place.
6/10/13 9:51 a.m.	111 Johnson's Corner	The Li-Cor pyranometer was changed out for newly calibrated sensor. The weighing bucket precipitation gauge was recharged.
6/10/13 2:01 p.m.	224 Greeley West	The Li-Cor pyranometer was changed out for newly calibrated sensor.
6/10/13 11:52 a.m.	105 Gilcrest	The Li-Cor pyranometer was changed out for newly calibrated sensor.
6/4/13 1:53 p.m.	110 Ovid	The weighing bucket precipitation gauge was calibrated in place. The funnel which had been installed for the season had come loose from the collection shroud and fallen into the bucket. The data affected was corrected.
6/3/13 9:00 a.m.	228 Fort Collins Central	A soil temperature sensor was added to the station.
5/28/13 1:03 p.m.	108 Sterling	Spring maintenance was performed. The Li-Cor pyranometer, soil temperature probe, and Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors. The tipping bucket rain gauge was cleaned and leveled.
5/23/13 1:21 p.m.	110 Ovid	Spring maintenance was performed. The weighing bucket precipitation gauge was recharged and calibrated in place. The Li-Cor pyranometer, soil temperature probe, RM Young wind speed & direction, and Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors. The tipping bucket rain gauge was cleaned and leveled. The data logger operating system was upgraded.
5/13/13 5:26 p.m.	111 Johnson's Corner	Spring maintenance was performed. The tipping bucket rain gauge and Li-cor pyranometer were cleaned and leveled. The RM Young wind direction was verified. The data logger operating system was upgraded.
5/13/13	228 Fort Collins	Spring maintenance was performed. The tipping bucket rain gauge was changed

Date/Time	Station	Update
3:05 p.m.	Central	out for a newly calibrated sensor. The Li-cor pyranometer was cleaned and leveled. The data logger operating system was upgraded.
5/13/13 11:32 a.m.	103 Longmont South	Spring maintenance was performed. The weighing bucket precipitation gauge was recharged and calibrated in place. The tipping bucket rain gauge and Li-cor pyranometer were cleaned and leveled. The RM Young wind direction was verified.
5/10/13 2:17 p.m.	230 Boulder South West	Spring maintenance was performed. The tipping bucket rain gauge and Li-cor pyranometer were cleaned and leveled. The data logger operating system was upgraded.
5/10/13 12:34 p.m.	233 Boulder North West	Spring maintenance was performed. The tipping bucket rain gauge was changed out for a newly calibrated sensor. The Li-cor pyranometer was cleaned and leveled.
5/10/13 9:35 a.m.	226 Longmont West	Spring maintenance was performed. The tipping bucket rain gauge and Li-cor pyranometer were cleaned and leveled.
5/9/13 2:45 p.m.	350 Windy Gap	The weighing bucket precipitation gauge was recharged.
5/9/13 2:31 p.m.	102 Loveland	Spring maintenance was performed. The tipping bucket rain gauge was changed out for a newly calibrated sensor. The Li-cor pyranometer was cleaned and leveled. The data logger operating system was upgraded.
5/8/13 10:24 a.m.	104 Eaton	An adjustment was made to the calibration performed on 5/7/13. Data from 5/7/13 to 5/8/13 was corrected.
5/7/13 2:44 p.m.	104 Eaton	Spring maintenance and service of station performed. Weighing bucket precipitation gauge was recharged and calibrated in place. The Li-Cor pyranometer, soil temperature probe, and Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors. The tipping bucket rain gauge was cleaned and leveled. The RM Young wind direction was verified. The data logger operating system was upgraded.
5/7/13 9:12 a.m.	224 Greeley West	Spring maintenance was performed. The tipping bucket rain gauge and Li-cor pyranometer were cleaned and leveled. The RM Young wind direction was verified. The data logger operating system was upgraded.
5/6/13 3:45 p.m.	101 Fort Collins East	Spring maintenance and service of station performed. Weighing bucket precipitation gauge was calibrated in place. The Li-Cor pyranometer, RM Young wind speed & direction, soil temperature probe, and Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors. The tipping bucket rain gauge was cleaned and leveled.
5/6/13 2:17 p.m.	108 Sterling	The weighing bucket precipitation gauge was recharged.
5/6/13 12:53 p.m.	109 Crook	The Vaisala temperature & relative humidity sensor installed on 4/24/13 was periodically dropping out. 107 data point between 4/25/13 and 5/6/13 were corrected.
4/30/13 2:30 p.m.	105 Gilcrest	The weighing bucket precipitation gauge was recharged.
4/30/13 1:01 p.m.	101 Fort Collins East	The weighing bucket precipitation gauge was recharged.
4/30/13 12:17 p.m.	220 Berthoud	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation.
4/26/13 2:09 p.m.	107 Brush	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and leveled. Weighing bucket precipitation gauge re-charged. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar

Date/Time	Station	Update
		radiation. The RM Young wind speed & direction sensor changed out with newly calibrated sensor.
4/26/13 12:18 p.m.	222 Fort Morgan	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and leveled. Weighing bucket precipitation gauge re-charged and funnel installed for summer season. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. The RM Young wind speed & direction sensor changed out with newly calibrated sensor.
4/26/13 10:02 a.m.	106 Wiggins	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and leveled. Weighing bucket precipitation gauge re-charged and funnel installed for summer season. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. The RM Young wind speed & direction sensor changed out with newly calibrated sensor.
4/24/13 5:30 p.m.	109 Crook	The station was relocated to an adjacent field due to pivot sprinkler installation. Spring maintenance and service of station performed. Weighing bucket precipitation gauge re-charged and calibrated in place. The tipping bucket rain gauge, Li-Cor pyranometer, RM Young wind speed & direction, soil temperature probe, and Vaisala temperature & relative humidity sensors were changed out for newly calibrated sensors.
4/16/13 11:45 a.m.	101 Fort Collins East	Detected 50 incidents between 4/15/13 and 4/16/13 where the RM Young wind speed & direction sensor was not measuring correctly due to ice buildup which fastened the device and prevented it from moving freely. Data for all 50 incidents have been corrected and sensor.
4/16/13 11:30 a.m.	228 Fort Collins Central	Detected 48 incidents between 4/15/13 and 4/16/13 where the RM Young wind speed & direction sensor was not measuring correctly due to ice buildup which fastened the device and prevented it from moving freely. Data for all 48 incidents have been corrected and sensor.
4/11/13 4:54 p.m.	220 Berthoud	The weighing bucket precipitation gauge was recharged.
3/7/13 3:36 p.m.	220 Berthoud	The tipping bucket rain gauge was installed for the season.
3/7/13 3:24 p.m.	110 Ovid	The tipping bucket rain gauge was installed for the season.
3/7/13 2:59 p.m.	111 Johnson's Corner	The tipping bucket rain gauge was installed for the season.
3/7/13 2:27 p.m.	109 Crook	The tipping bucket rain gauge was installed for the season.
3/7/13 2:00 p.m.	103 Longmont South	The tipping bucket rain gauge was installed for the season.
3/7/13 1:09 p.m.	225 Fort Lupton	The tipping bucket rain gauge was installed for the season.
3/7/13 12:38 p.m.	108 Sterling	The tipping bucket rain gauge was installed for the season.
3/7/13 12:28 p.m.	105 Gilcrest	The tipping bucket rain gauge was installed for the season.
3/7/13 11:34 a.m.	224 Greeley West	The tipping bucket rain gauge was installed for the season.
3/7/13 11:21 a.m.	107 Brush	The tipping bucket rain gauge was installed for the season.
3/7/13	104 Eaton	The tipping bucket rain gauge was installed for the season.

Date/Time	Station	Update
9:52 a.m.		
3/7/13 9:50 a.m.	222 Fort Morgan	The tipping bucket rain gauge was installed for the season.
2/7/13 8:46 a.m.	101 Fort Collins East	The tipping bucket rain gauge was installed for the season.
3/7/13 8:34 a.m.	106 Wiggins	The tipping bucket rain gauge was installed for the season.
2/6/13 8:21 a.m.	228 Fort Collins Central	The propeller on the RM Young wind speed & wind direction sensor broke off. The propeller was replaced. Wind speed data beginning 2/1/13 through 2/6/13 was corrected.
1/28/13 6:28 a.m.	109 Crook	The weighing bucket precipitation gauge measured noise between 18:30 and 23:00 MST. The data was corrected. The cause of the noise is unknown thus far.
1/24/13 1:08 pm	350 Windy Gap	The weighing bucket precipitation gauge was recharged.
1/24/13 12:56 p.m.	352 Shadow Mountain	The station had sustained a direct lightning strike on 8/29/12. The data logger was sent back to the manufacture for calibration. The station was powered down while the original data logger was installed. The outage lasted for four data points which were corrected.
12/21/12 2:58 p.m.	111 Johnson's Corner	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, RM Young wind speed & direction sensor. The weighing bucket precipitation gauge was changed out for a newly temperature calibrated unit. A weight calibration was performed in the field.
12/4/12 1:54 p.m.	104 Eaton	The weighing bucket precipitation gauge was changed out for a newly temperature calibrated unit. A weight calibration was performed in the field.
11/30/12 12:38 p.m.	103 Longmont South	The weighing bucket precipitation gauge was changed out for a newly temperature calibrated unit. A weight calibration was performed in the field.
11/27/12 9:50 a.m.	110 Ovid	The weighing bucket precipitation gauge was serviced and field calibrated.
11/28/12 3:04 p.m.	102 Loveland	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, and RM Young wind speed.
11/8/12 1:31 p.m.	110 Ovid	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified. The Vaisala air temperature & relative humidity sensor was changed out for a newly calibrated unit. The weighing bucket precipitation gauge was recharged.
11/2/12 11:46 a.m.	109 Crook	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
11/2/12 10:25 a.m.	226 Longmont West	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
11/2/12 9:22 a.m.	103 Longmont South	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
11/1/12 3:15 p.m.	108 Sterling	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
11/1/12 1:30 p.m.	107 Brush	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
11/1/12 12:15 a.m.	222 Fort Morgan	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
11/1/12 11:06 a.m.	106 Wiggins	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
10/31/12	233 Boulder North	Fall maintenance was performed. The Li-cor pyranometer was cleaned and

Date/Time	Station	Update
3:49 p.m.	West	leveled. The tipping bucket rain gauge was cleaned and leveled.
10/31/12 2:47 p.m.	230 Boulder South West	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The tipping bucket rain gauge was cleaned and leveled.
10/31/12 11:10 a.m.	225 Fort Lupton	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction verification revealed a discrepancy. The RM Young wind direction and wind sensor had been set 18° off. The error was caused by a faulty digital compass. The wind vector data between 4/23/12 and 10/31/12 was corrected. The weighing bucket precipitation gauge was field calibrated.
10/30/12 4:59 p.m.	104 Eaton	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
10/30/12 3:31 p.m.	224 Greeley West	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
10/30/12 2:22 p.m.	102 Loveland	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The tipping bucket rain gauge was cleaned and leveled.
10/30/12 1:20 p.m.	228 Fort Collins Central	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled.
10/30/12 11:25 a.m.	224 Greeley West	The weighing bucket precipitation gauge was changed out for a newly temperature calibrated unit. A weight calibration was performed in the field.
10/30/12 8:30	105 Gilcrest	Fall maintenance was performed. The Li-cor pyranometer was cleaned and leveled. The wind direction was verified.
10/29/12 9:07 a.m.	101 Fort Collins East	Detected 902 incidents between 10/23/12 and 10/28/12 when soil temperature values were incorrect. The cause of the malfunction was detected and corrected. Data for all 902 incidents have been corrected.
10/24/12 9:19 a.m.	101 Fort Collins East	The weighing bucket precipitation gauge was field calibrated.
10/23/12 10:38 a.m.	101 Fort Collins East	The station was relocated to an adjacent field due to crop rotation. The new station was installed a week before the original station was removed in order to collect and compare data and provide a clean transition.
10/8/12 1:55 p.m.	220 Berthoud	The tipping bucket rain gauge was removed for the season.
10/4/12 9:58 a.m.	225 Fort Lupton	The tipping bucket rain gauge was removed for the season.
10/4/12 7:35 a.m.	103 Longmont South	The tipping bucket rain gauge was removed for the season.
10/3/12 12:31 p.m.	109 Crook	The tipping bucket rain gauge was removed for the season.
10/3/12 12:02 p.m.	110 Ovid	The tipping bucket rain gauge was removed for the season. The funnel was removed from the weighing bucket precipitation gauge.
10/3/12 10:55 a.m.	108 Sterling	The tipping bucket rain gauge was removed for the season.
10/3/12 9:57 a.m.	222 Fort Morgan	The tipping bucket rain gauge was removed for the season. The funnel was removed from the weighing bucket precipitation gauge.
10/3/12 10:58 a.m.	107 Brush	The tipping bucket rain gauge was removed for the season.
10/3/12 8:42 a.m.	106 Wiggins	The tipping bucket rain gauge was removed for the season. The funnel was removed from the weighing bucket precipitation gauge.
10/2/12 10:36 a.m.	101 Fort Collins East	The tipping bucket rain gauge was removed for the season. The funnel was removed from the weighing bucket precipitation gauge.
10/2/12	104 Eaton	The tipping bucket rain gauge was removed for the season.

Date/Time	Station	Update
9:38 a.m.		
10/2/12 8:50 a.m.	224 Greeley West	The tipping bucket rain gauge was removed for the season.
10/2/12 8:08 a.m.	105 Gilcrest	The tipping bucket rain gauge was removed for the season.
9/25/12 7:47 a.m.	104 Eaton	The weighing bucket precipitation gauge was recharged.
9/24/12 4:18 p.m.	224 Greeley West	The weighing bucket precipitation gauge was recharged.
9/24/12 3:02 p.m.	106 Wiggins	The weighing bucket precipitation gauge was recharged.
9/24/12 1:47 p.m.	103 Longmont South	The weighing bucket precipitation gauge was recharged.
9/24/12 10:52 a.m.	107 Brush	The weighing bucket precipitation gauge was recharged.
9/17/12 10:40 a.m.	220 Berthoud	Detected 112 incidents since 9/1/2012 when wind vector values were incorrect (VecVel=-7999, VecDir=0, & VecDev=0). Typically occurred when VecDir was near 0 or 360 deg. Data for all 112 incidents have been corrected and sensor. The RM Young wind speed & direction sensor was replaced with a recently calibrated unit. The weighing bucket precipitation gauge was recharged.
9/14/12 8:09 a.m.	109 Crook	The tipping bucket rain gauge was plugged with debris. The weighing bucket precipitation gauge functioned properly during the recent rainfall. The tipping bucket rain gauge data was corrected.
9/14/12 8:09 a.m.	103 Longmont South	The tipping bucket rain gauge was plugged with debris. The weighing bucket precipitation gauge functioned properly during the recent rainfall. The tipping bucket rain gauge data was corrected.
9/6/12	352 Shadow Mountain	The data logger & Li-cor pyranometer were damaged from the recent direct lightning strike. They were swapped out. On 8/30/12 the Vaisala air temperature & relative humidity sensor had been moved to an 8 foot height. The original sensor at 35 feet was replaced and the temporary mount was removed.
9/5/12 3:06 p.m.	105 Gilcrest	The weighing bucket precipitation gauge was measuring small deficits in the total water content weight. A large amount of debris was found in the gauge which had soaked up the layer of oil in the gauge that is applied to keep the water from evaporating. The data beginning with 7/17/12 through 8/1/12 was corrected.
8/30/12 12:47 p.m.	352 Shadow Mountain	The weather station mast sustained a direct lightning strike. The Vaisala air temperature & relative humidity sensor, RM Young sonic wind speed & directions sensor, and Li-cor pyranometer were damaged. The original Vaisala was left in place on the mast. A temporary sensor was installed at eight feet. The Li-cor and sonic RM Young sensors will be replaced in the future when the necessary service equipment is available. All data points between 8/30/12 9:00 and 8/31/12 7:30 MST were lost due to a power outage.
8/30/12 9:43 a.m.	220 Berthoud	The RM Young wind speed & direction sensor and Vaisala air temperature & relative humidity sensors were replaced with recently calibrated units.
8/28/12 3:33 p.m.	350 Windy Gap	The river temperature sensor and Vaisala air temperature & relative humidity sensors were changed out with newly calibrated units. The tipping bucket rain gauge snowfall adaptor was installed for the season.
8/23/12 3:28 p.m.	226 Longmont West	Tipping bucket rain gauge was replaced with recently calibrated unit.

Date/Time	Station	Update
8/23/12 1:31 p.m.	228 Fort Collins Central	Tipping bucket rain gauge was replaced with recently calibrated unit.
8/20/12 4:43 p.m.	109 Crook	The weighing bucket precipitation gauge was replaced due to damage caused by mice to the wiring.
8/20/12 4:27 p.m.	101 Fort Collins East	A section of the alter wind guard around the weighing bucket precipitation gauge had become unfastened from the mounting and had attached to the outside of the gauge which was causing noise in the sensor. The problem was corrected.
8/9/12 9:43 a.m.	230 Boulder South West	The tipping bucket rain gauge was changed out with newly calibrated unit.
8/9/12 10:36 a.m.	233 Boulder North West	The tipping bucket rain gauge changed out with newly calibrated unit.
8/8/12 8:19 a.m.	226 Longmont West	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, RM Young wind speed & direction sensor, & Li-Cor pyranometer.
8/8/12 1:43 p.m.	230 Boulder South West	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, RM Young wind speed & direction sensor, & Li-Cor pyranometer.
8/7/12 9:57 a.m.	228 Fort Collins	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. RM Young wind monitor changed out for newly calibrated unit. The Vaisala air temperature & relative humidity sensor was disconnected for service.
8/7/12 4:07 p.m.	233 Boulder North West	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, RM Young wind speed & direction sensor, & Li-Cor pyranometer.
7/26/12 8:01 p.m.	350 Windy Gap	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, RM Young wind speed & direction sensor, Li-Cor pyranometer, & tipping bucket rain gauge. The weighing bucket precipitation gauge was serviced and field calibrated. The river temperature sensor was disconnected for service.
7/9/12 10:15 a.m.	106 Wiggins	The tipping bucket rain gauge funnel had become plugged. The debris was removed and the data from 7/7/12 to 7/9/12 was corrected.
7/9/12 11:07 a.m.	222 Fort Morgan	The weighing bucket precipitation gauge was recharged.
7/5/2012 10:40 a.m.	220 Berthoud	Detected 14 incidents since 1/1/2012 when wind vector values were incorrect (VecVel=-7999, VecDir=0, & VecDev=0). Typically occurred when VecDir was near 0 or 360 deg. Data for all 14 incidents have been corrected and sensor issue is under investigation.
7/3/2012 11:20 a.m.	104 Eaton	Vaisala air temperature & relative humidity sensor was replaced with recently calibrated unit. Four incidents (all less than 2 hours) of incorrect temperature data since 6/30/2012 have been corrected.
7/2/2012 1:36 p.m.	109 Crook	Vaisala air temperature & relative humidity sensor was replaced with recently calibrated unit.
7/2/2012 11:27 a.m.	108 Sterling	RM Young wind monitor and cable replaced with recently calibrated unit as potentiometer for measuring wind direction had become suspect.
7/2/2012 10:28 a.m.	220 Berthoud	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation.
7/2/2012 9:36 a.m.	107 Brush	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation.
6/28/2012 12:00 p.m.	103 Longmont South	Vaisala air temperature & relative humidity sensor changed out with newly calibrated unit.

Date/Time	Station	Update
6/28/2012 10:45 a.m.	225 Fort Lupton	Vaisala air temperature & relative humidity sensor changed out with newly calibrated unit. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation.
6/28/2012 8:15 a.m.	106 Wiggins	Spring maintenance and service of station performed. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Soil temperature probe changed out with newly calibrated sensor. Funnel installed in weighing bucket precipitation gauge for summer season.
6/26/2012 9:45 a.m.	101 Fort Collins East	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and leveled. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Weighing bucket precipitation gauge serviced and field calibrated.
6/26/2012 7:30 a.m.	102 Loveland	Spring maintenance and service of station performed. Tipping bucket rain gauge swapped with newly calibrated unit. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Soil temperature probe changed out with newly calibrated sensor.
6/20/2012 1:15 p.m.	220 Berthoud	Li-Cor pyranometer field checked. Future service scheduled.
6/7/2012 3:45 p.m.	107 Brush	Tipping bucket rain gauge found clogged with bird droppings and debris. Unit was cleaned, leveled, and field tested. Previous data corrected as appropriate for delayed measurements of rain events.
6/7/2012 2:15 p.m.	108 Sterling	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and re-leveled. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Errors in wind direction readings corrected for 6-7-12 @ 14:15 thru 6-9-12 @ 11:15 and for 6-10-12 @ 2:45 thru 6-10-12 @ 9:00. Issue under investigation.
6/7/2012 12:30 p.m.	109 Crook	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and leveled. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Soil temperature probe changed out with newly calibrated sensor. RM Young wind monitor changed out for newly calibrated unit.
6/7/2012 10:30 a.m.	110 Ovid	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and leveled. Weighing bucket precipitation gauge re-charged and funnel installed for summer season. RM Young wind monitor changed out for newly calibrated unit. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Soil temperature probe changed out with newly calibrated sensor.
6/6/2012 12:45 p.m.	103 Longmont South	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Soil temperature probe changed out with newly calibrated sensor.
6/6/2012 11:00 a.m.	111 Johnson's Corner	Spring maintenance and service of station performed. Tipping bucket rain gauge cleaned and leveled. Weighing bucket precipitation gauge re-charged and funnel installed for summer season. Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation. Soil temperature probe changed out with newly calibrated sensor.
6/1/2012 1:45 p.m.	105 Gilcrest	Li-Cor pyranometer cleaned of bird droppings and leveled. Readings corrected for previous day to present.
6/1/2012 11:30 a.m.	101 Fort Collins East	Li-Cor pyranometer cleaned of bird droppings and leveled. Readings corrected for previous day to present.
4/24/12 7:24 a.m.	103 Longmont South	The calibration coefficients were erased from the data logger after the field service performed on the previous day. They were manually applied to the data

Date/Time	Station	Update
		collected from the time of the outage.
4/23/12 2:12 p.m.	103 Longmont South	Annual maintenance & service of station included change out of RM Young wind speed & direction sensor, Li-Cor pyranometer, & soil temperature sensor.
4/11/2012 7:30 a.m.	228 Fort Collins	Vaisala air temperature & relative humidity sensor was replaced due to vandalism on 4/10/2012 at 4:15 p.m. MST. Both the Gill radiation shield and the Vaisala sensor head were broken by impact(s) from blunt object.
4/10/2012 4:30 p.m.	104 Eaton	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation.
4/10/2012 3:30 p.m.	224 Greeley West	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation.
4/10/2012 1:00 p.m.	222 Fort Morgan	Li-Cor pyranometer changed out with newly calibrated unit for measuring solar radiation.
4/9/2012 3:30 p.m.	105 Gilcrest	Li-Cor pyranometer was changed out because bird droppings had reduced solar radiation readings since start of 4/4/2012.
4/5/2012 12:30 p.m.	108 Sterling	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, RM Young wind speed & direction sensor, & soil temperature sensor. The weighing bucket precipitation gauge was also changed out & then field calibrated.
4/5/2012 8:15 a.m.	224 Greeley West	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor & RM Young wind speed & direction sensor.
4/5/2012 3:30 p.m.	107 Brush	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor & soil temperature sensor. The weighing bucket precipitation gauge was also changed out & then field calibrated.
4/5/2012 12:00 p.m.	222 Fort Morgan	Annual maintenance & service of station included change out of Vaisala air temperature & relative humidity sensor, RM Young wind speed & direction sensor, & soil temperature sensor. The weighing bucket precipitation gauge was serviced and field calibrated.
1/31/2012 12:55 a.m.	233 Boulder North West	Due to high winds on January 18 th , 2011 the top mount of the tipping bucket rain gauge became loose. Due to subsequent vibration during high wind gusts, this rain gauge registered false tips on January 18 th and 19 th . These erroneous readings have been corrected, reducing the previously reported rain amounts.
12/16/2011 8:11 a.m.	225 Fort Lupton	Beginning this morning, a weighing bucket precipitation gauge is being added to the station. Concurrent with this work, the existing tipping bucket rain gauge will be temporarily uninstalled for the winter season. Some erroneous data is possible during this period. However, every effort will be made to correct the data as soon as possible.