

USER'S MANUAL

Cone Planter User's Guide

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Information is subject to change without notice.

Cautions

• CAUTION: This symbol indicates that failure to follow directions could result in damage to equipment or loss of information.



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CHAPTER ONE

Getting Started

1. Getting Started

1.1 Cone Planter Overview

The Cone Planter Plugin for Mirus software automates the planter on field research plots using infurrow cone planters with a GNSS receiver.

System Features:

- Easily retrofitted and added to the most common cone planters already in use or added at time of purchase to new planters.
- Provides a simple solution to tripping the cones using your GNSS signal.
- Can actuate electric solenoids, hydraulic, and pneumatic cylinders.
- Provides accurate records of which seed was applied to each plot.
- Easy connection to a wide range of GNSS receivers.
- Mirus field view shows operators which plots are being planted and the current real-time position.

1.2 Mirus Installation

Mirus provides the user interface and software control of the Cone Planter system and is designed to run on a rugged tablet under the Microsoft Windows 10 operating system. You can use the Mirus software across almost all research data collection and equipment control needs.

Software requirements:

- Mirus 4.3.0 or newer
- Cone Planter 1.0.1 or newer
- GNSS 2.0.0 or newer

Step 1: Download Mirus to the rugged tablet.

- 1. Go to www.harvestmaster.com/support.
- 2. Select Mirus Harvest Software.
- 3. From Mirus Support, select **Downloads** > **Mirus Harvest Software Downloads**. Download the latest version of Mirus.
- Step 2: Run Mirus software installation and follow the prompts on the screen.

Step 3: Activate Mirus online at www.harvestmaster.com/activate.

1.3 GNSS Plugin and Cone Planter Plugin Installation

Mirus software requires the GNSS Plugin and the Cone Planter Plugin to control the Cone Planter system. Mirus must be installed before installing these plugins.

Step 1: Download the GNSS Plugin and the Cone Planter Plugin.

- 1. Go to www.harvestmaster.com/support.
- 2. Select Mirus Plugins and Scripts.
- 3. Select Downloads > Mirus Harvest Software Plugins and Scripts.
- 4. Download the desired plugins.

Step 2: Run the .mbp files for the GNSS Plugin and Cone Planter Plugin.

Step 3: Activate the plugins online at *www.harvestmaster.com/activate*. You can also call your HarvestMaster representative for assistance.





CHAPTER TWO

System Setup

2. System Setup

2.1 Cone Planter System

The Cone Planter system uses a rugged tablet computer connected to a system controller which connects to an actuator module, allowing control of up to 3 solenoids or actuators that activate the Cone Planter.

2.2 System Parts

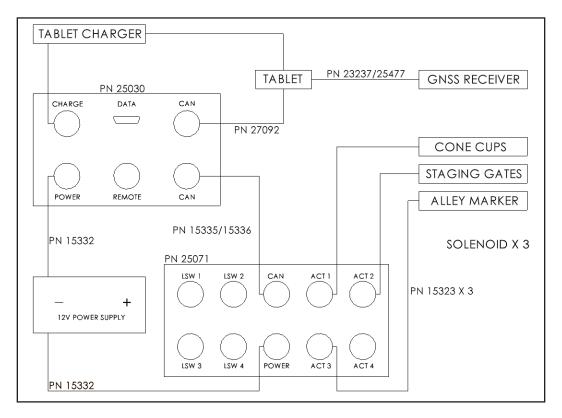
The following table lists the system parts:

PN	Qty	Description	Notes / Purpose	Photo / Drawing
25071		H2 Actuator Module	This module controls the actions of the planter.	Normal States and Stat
25030	1	H2 System Controller with RAM mount and two button head screws	The system controller provides the primary interface between the tablet computer and the other components in the system.	HarvestMaster
15332	2	HM8 12 VDC Power Cable, 20 ft	The power cable connects between the battery, or other 12 V DC power source, and the System Controller.	
15336	1	HM8 CAN Communications Cable, 20 ft	The CAN communications cable connects to the System Controller to the actuator modules in the enclosure.	
27092	1	HM8 USB CAN Converter Cable	The CAN converter cable connects the tablet PC to the System Controller.	
25477	I	GNSS/GPS Data Cable	This cable connects the tablet computer and the GNSS receiver.	

PN	Qty	Description	Notes / Purpose	Photo / Drawing
15323	2	Actuator Cable with pig tail ends.	Connect to actuator ports on the H2 Actuator module and to the solenoid.	
Setup Example		H2 Actuator Module with wiring, H2 System Controller, and connectors in enclosure	An enclosure with one actuator module mounted inside. The actuator module is wired to connection plugs. The system controller can be placed inside if desired.	

2.3 Connection and Wiring

The system requires these connections:

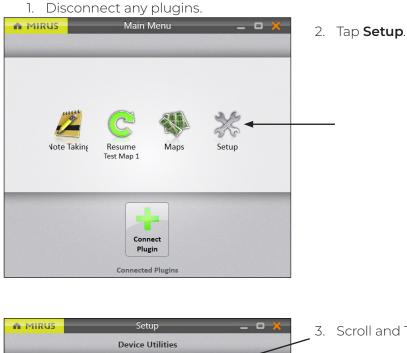


2.4 GNSS/GPS Setup

The GNSS/GPS receiver may need to be configured to communicate with Mirus. Follow the instructions provided for your GNSS/GPS receiver. You also need to configure Mirus to communicate with the GNSS/GPS.

Step 1: Refer to instructions for configuring your GNSS/GPS receiver. On the receiver, enable GGA and VTG. For the best performance, disable other NMEA message types that may be enabled in your GNSS receiver.

Step 2: With wiring complete and connected, power on the GNSS/GPS and the HarvestMaster Cone Planter system.



Device Utilities

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2

About

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Devices

3. Scroll and Tap **GNSS Attachment**.

>

Y

Preferences

T

Traits

Generic Sub-Sampler

GNSS Attachment GNSS Note Taking Single BDS HiCap



On the Setup > GNSS Attachment screen,

1. Tap GNSS Port Detector > COM Port Detection.

Mirus opens the GNSS Port Detection box and detects the ports.

When the COM port detection is completed, you will see the name of each port, its availability, the baud rate through each port, and the status of NMEA messages. The port in use is indicated by the selected radio button. If you want to use a different port,

n Mii	RUS			Setup	(Emulated Mode) 🛛 🗕 🗖 💥
				GNS	SS Attachment
-					GNSS Attachment
GNSS Sett				GNSS	S Port Detection 🛛 🗶
Distance 1		Ports	Available	Baud	Status
GNSS Port	0	COM6	0	4800	FAILED - No NMEA strings detected
NMEA Cor	0	COM7	8	4800	FAILED - No NMEA strings detected
NTRIP	0	COM5	۲	4800	FAILED - No NMEA strings detected
	0	COM3	\odot	115200	FAILED - No NMEA strings detected
	0	COM4	8	115200	FAILED - No NMEA strings detected
	0	COM11	8	115200	FAILED - No NMEA strings detected
	۲	COM8	\odot	4800	SUCCESS - NMEA found at 4800 baud
		COM9	\bigcirc	4800	FAILED - No NMEA strings detected
	2				
				6	E 🔤 ? 🔥
			Preferences	Tra	its Devices About
	Т				
	Ra	electe adio			Check Icon
	В	utton			

- 2. Select a port for the receiver to use. Note: The first time you use the GNSS plugin, you will select the receiver that you want to use.
- 3. Tap the check icon \bigotimes to apply the selected port.

The following settings are automatically filled in, except for offsets:

- Collection Type: Plot Events
- Capture Cycles: No
- Additional Trip Action: None
- Trip Origin: Offset Position
- Receiver Type: Performance NMEA

After the port detection is done, go to GNSS Settings and input either the Left/Right Offset and the Front/Back offset.

		Setup			_ ¤ X
		GNSS Attach	ment		
GNSS Settings GNSS Port Detector NMEA Console	Additional Trip Action None	Baud Rate 4800 ~	Collection Type Plot Events	Communication Delay	Front/Back Offset -6 feet
NTRIP	© Description	⊙ Description	⊙ Description	© Description	⊙ Description
	Left/Right Offset	Port Name COM5 ~	Receiver Type Performance NMEA V	Trip Origin Offset Position	
	© Description	⊙ Description	⊙ Description	⊙ Description	

Step 6: Save the settings and then navigate to the Mirus Home screen.

Step 7: Connect the Cone Plugin under devices tab.

Step 8: Connect the GNSS Attachment under the attachments tab.

Step 9: Once connected, use the diagnostics view or the NMEA console view to verify that Mirus is receiving live GNSS data.

	GNSS Attachment	
	GNSS Attachment	
GNSS Settings		🗖 🕹 (
GNSS Port Dector	\$GPVTG,180.0,T,M,194,N,3.60,K,A*0D \$GPGGA,172135,80,4145,104232785,N,11148,711986729,W,2.05.1.5.0,M.0.M.,*4E	
NMEA Console	SGPVTG,180.0,T,M,194.NJ.3.60,KA*0D SGPVTG,180.0,T,M,194.NJ.3.60,KA*0D SGPVGA,172135.00,4145.104178886,N,11148.711986729,W,2,05,1.5,0,M,0,M,*4E SGPVGA,172136.00,4145.104124987,N,11148.711986729,W,2,05,1.5,0,M,0,M,*4D SGPVGA,172136.00,4145.104124987,N,11148.711986729,W,2,05,1.5,0,M,0,M,*4D SGPVGA,172136.00,T,M,194.NJ.360,KA*0D SGPGGA,172136.00,T,M,194.SI,06,KA*0D SGPGGA,172136.00,T,M,194.NJ.360,KA*0D SGPGGA,172136.01,4145.104071089,N,11148.711986729,W,2,05,1.5,0,M,0,M,*4A	
		× Ser

2.5 Cone Planter Setup

In Mirus, navigate to Setup > Cone > Settings. The applicator settings should be configured as follows:

2.5.1 Settings

Note that the times mentioned below are subject to change based on speed.

Cone Start Delay: The amount of time it takes to actuate the cylinder or gate and for seed to drop to the ground. To begin, use a setting of 100 to 300 ms, and then calibrate as needed.

Alley Marker Start and Stop Delay: This calibrates the length of the alley marker. For information on how to calibrate the start delay and alley marker start and stop delays, see 4. Calibration on page 12.

Plots Per Pass: The number of plots planted simultaneously.

2.5.2 Actuators

Actuator Module: Use to enable or disable the alley marker

Cone Actuator:

- Actuator Type: Dual (electric), Pneumatic (air)
- Close Transition Time: 200 ms
- Open State Time: 1000 ms (this time can be lengthened to hold the cup open longer for higher volumes of seed)
- Open Transition Time: 200 ms (this will be adjust during the calibration process)

Staging Actuator:

- Actuator Type: If you have a staging cone, change the actuator type from None to Dual or Pneumatic. If you don't have a staging cone, make sure you have the actuator type set to None.
- Close Transition Time: 200 ms
- Open State Time: Controls how long the staging device stays open. This time can be lengthened for larger volumes of seed if needed.
- Open Transition Time: 200 ms





CHAPTER THREE

Calibration

3. Calibration

3.1 Overview

When properly calibrated, the Cone Planter works with plots and alleys of different dimensions.

The process of calibrating the Cone Planter and GNSS plugins requires two main steps: calibrating the setback (offsets) and aligning the seed placement.

Generally, calibration is only required once, but certain changes to the system can require recalibration. The following factors will require recalibration:

- If the GNSS/GPS receiver is recalibrated or changed to a different model, perform recalibration for the communication delay as it may be different for different models.
- The setback may change if the applicator is being used with a different planter or if the GNSS/ GPS antenna is moved to a new position. For situations like these, the setback needs to be recalibrated. When the planter is located behind the GNSS/GPS, the front/back offset is negative.
- Based on the travel speed of the planter, adjust the cone start delay and alley start and stop. Any time the speed changes more than a 0.25 mph, you should make a change to the timers.

3.2 Prepare for Calibration

Before calibration, ensure that all solenoids or actuators are in good condition. Valves and/or gates that are sticky will adversely affect calibration and planting.

3.2.1 Seed Alignment with Plots

With setback and offsets properly set, make sure the seed placement is calibrated to start as the cone enters the plot.

Three key factors influence how well the seed placement can be aligned to start as the planter enters the plot: GNSS/GPS accuracy, GNSS/GPS communication delay, and cone start delay associated with the mechanics of the actuator.

3.2.2 GNSS/GPS Accuracy

The accuracy of the GNSS/GPS receiver affects how well the seed aligns to the plots. Mirus cannot compensate for misalignment that is due to lack of accuracy from the GNSS/GPS receiver. For example, consider a scenario in which an RTK receiver provides accuracy of 2 cm. The system will have up to 2 cm of stagger in both directions and could appear to be off by as much as 4 cm. Because of this factor, allow for a certain degree of imperfection in aligning the seed with the plot.

3.2.3 GNSS/GPS Communication Delay

The time for the GNSS/GPS receiver to transmit the current position to the tablet computer is a critical factor, and Mirus provides the capability to calibrate for this delay.

3.2.4 Actuator Start

The mechanics of the actuator introduce delay from when Mirus sends the signal to start planting. The Cone Planter Delay allows adjustment to compensate for the mechanical delay. Raising this number will open the cone(s) sooner.

3.2.5 Setting Delays in Mirus

Considering the stagger that can be introduced from GNSS/GPS accuracy, it can be difficult to determine which delays need to be adjusted. If the cone start delay is too early or too late, the timers might need to be adjusted. Changing the communications delay also affects the GPS positions that are saved to the database, and so it is important to adjust the right parameters.

To calibrate the planter properly, make sure to drive at least 2 passes at the same speed, preferably the same speed as when you actually plant the plots.

The following scenarios outline likely issues and provide guidance for making adjustments in the Mirus settings.

Issue Description	Possible Causes	Diagram
Scenario 1 The seed placement starts too early (before entering the plot) and ends too early (before leaving the plot). But the seed placement length is correct and is staggered backward.	 Communication delay set too long. Cone start delay is too long. Offset is too short. Note: Offset is unlikely if you properly calibrated the offset previously. But you can tell if set back is the issue by testing at different speeds (fast and slow). Setback is the problem if the stagger remains the same at fast and slow speeds. Delay settings are the problem if the seed placement becomes longer at higher speeds. 	Alley 2
Scenario 2 The seed placement starts too late (after entering the plot) and ends too late (after leaving the plot). But the seed placement length is correct and is staggered forward.	 Communication delay set too short. Cone start delay is too short. Offset is too long. Note: Offset is unlikely if you properly calibrated the setback previously. But you can tell if set back is the issue by testing at different speeds (fast and slow). Offset is the problem if the stagger remains the same at fast and slow speeds. Delay settings are the problem if the seed placement becomes longer at higher speeds. 	Alley 2 Plot1





CHAPTER FOUR

Operation

4. Operation

This section covers instructions for planting. Be sure that calibration and system setup have already been completed.

4.1 Create a Map

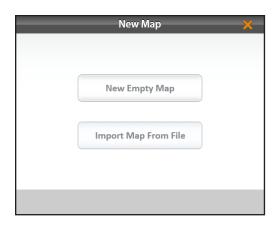


The following instructions walk you through creation of a Range Row map.

On the Mirus Home screen,

1. Tap Maps 🐝.

- MIRUS Maps Manage Maps Sort: Name Created: Wednesday 10:23 AM Created: Wednesday 02:15 PM Ċ + Delete Export View Сору New New
- 2. Tap **New**.



<	_	New Ma	p - Test	×
Nam	e			
Tes	t			
Desc	ription			
Туре				
	Range Row	Four Row	Std Plot Id	Sub-Map
				\bigcirc

<	Test	— X
Ranges Deep:	- 10 +	
Plots Wide:	- 10 +	
Range Increment:	- 1 +	
Plot Increment:	- 1 +	
Starting Range:	- 1 +	
Starting Plot:	- 1 +	
		<u></u>

3. Select New Empty Map.

- 4. Name and describe the map.
- 5. Tap Range Row.
- 6. Tap the next arrow ⊃.

Note: The **Name** box will only accept basic letters and numbers. Do not use emojis or the following special characters: > < :"\?|/*

- 7. Set the following:
 - Ranges deep
 - Plots wide
 - Range increment
 - Plot increment
 - Starting range
 - Starting plot
- 8. Tap the check icon 🤣 to save the map.

For more information about different kinds of maps or how to import a map, see the *Mirus for H2 Graingage* manuals at *www.harvestmaster. com/support/article/14823.*

4.2 Automatic GPS/GNSS Cycling

Step 1: Create the AB Line. create an AB line that corresponds to one side of your physical field.

On the Maps > select a map screen,

1. Tap AB Line.

Map W	/ith GNSS Attachment
Created: 5/4/2020 12:45:03 PM Location: C:\HarvestMaster\Mirus\Maps\M Attachment.hmf Ranges Deep: 10 Rows Wide 10	Map With GNSS Attachment\Map With GNSS $\vdash 10^{-1}_{-10}$
	Harvest AB Line AB Line
AB Line Wizard 🗙	2. In the AB Line Wizard, tap New AB Line .
New AB Line	Note: If you want to edit an existing line, choose Existing AB Line and then select the map file that contains the AB line you want to copy.
Existing AB Line	

AB Line Wizard 🛛 🗙
Plot Dimensions
Alley Length (ft)
1.5
Plot Length (ft)
20
Row Width (in)
30
Rows Per Plot
2
Stacked Plots
No
\bigcirc

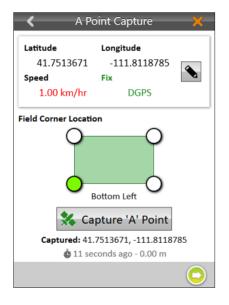
- 3. Set the Plot Dimensions.
 - Alley Length: The alley is the empty space between ranges.

Note: The minimum Alley Length is 0.1 ft, which creates a field with no alley.

- **Plot Length**: The length of the space allotted for the plants to grow.
- **Row Width**: The width of the space allotted for each row of plants to grow.
- Rows Per Plot: The number of plant rows to be grouped together to create a plot.

Note: The row width and rows per plot should equal the effective swath width.

- Stacked Plots: A group of plots separated from other plot groups by a larger alley. This option defines a longer alley after a specific number of smaller alleys between plots. If you are using stacked plots, enable Stacked Plots and define the number of plots per stack and the stack alley width.
- 4. Tap the next arrow 🔿.
- 5. Move your GNSS receiver to the location you want displayed in Mirus as the lower left corner of the field. When using the GNSS attachment with a GrainGage and the correct offsets entered, position your combine in front of the first plot with the first plant contacting the cutter bar or deck plates.



6. In Mirus tap Capture 'A' Point.

Note: You can manually edit the latitude and longitude of the 'A' point before capturing it.

7. Tap the next arrow 🗘.

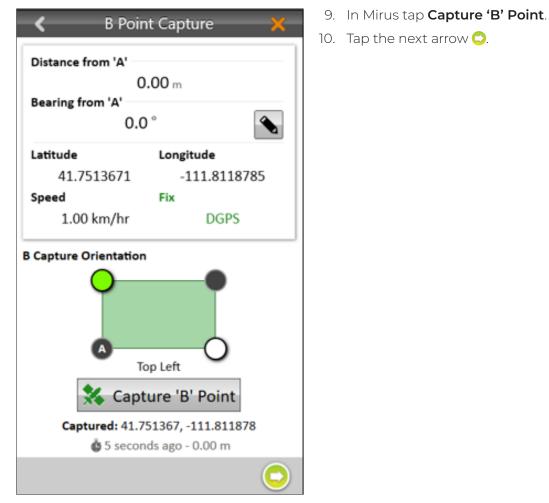
8. Move your GNSS receiver to the location you want displayed in Mirus as the upper left corner of

the field. For example, position your combine, pointing the same direction, at the end of the first row of the first plot with the last plant touching the cutter bar or deck plates.

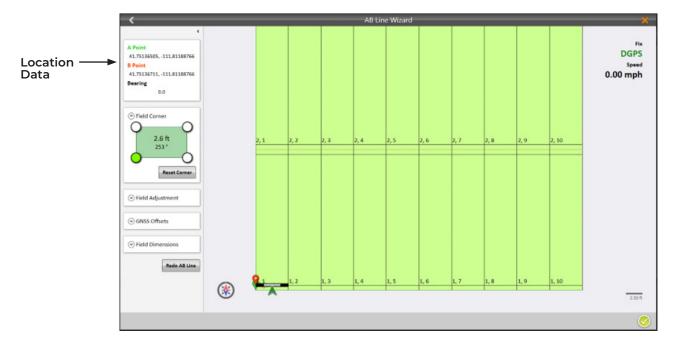
Note: If it is not feasible to drive exactly along your row as you would to plant, you can drive the tractor parallel to your row to the side of the plot, and then reset the corner(s) using an offset distance in Mirus once the AB line has been created.

To improve the accuracy of the map with the AB line you are defining,

- Drive the entire length of the field between capturing the 'A' and 'B' Points.
- Use the pencil button to enter the distance from your first corner A and the bearing in degrees from A to B.



Mirus will display the Map View of the field calculated from the AB Line.

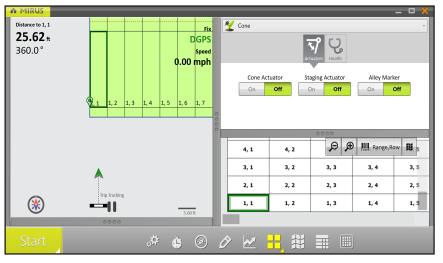


All of the field parameters are displayed on the left side of the screen. Several of them can be edited from there.

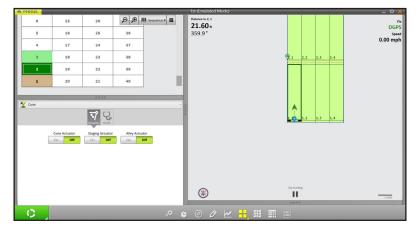
AB Line Wizard Final Screen				
Setting	Description and Options			
A Point				
B Point	View the A and B coordinates and the bearing entered.			
Bearing				
Field Corner	Reset the corner to reposition the AB line based on your new position.			
Field Adjustment	Change the vertical or horizontal width of your field.			
GNSS Offsets	View the currently set offsets.			
Field Dimensions	Adjust the Alley Length, Plot Length, Row Width, Rows Per Plot, and choose Stacked Plots.			
Redo AB Line	Recapture the AB line.			

Step 2: Proceed to plant.

- a. Under Manage Maps, tap **Plant**
- b. Select your starting location, the direction, and the navigation type. Tap the green arrow.
- c. On the Data Sources window, tap the green arrow. The planting screen will display.
- d. In the planting screen, tap **Start** on the bottom left. Important Note: Be sure that you are not in the field when you select start because the system will begin planting. For best results, move the planter back to a position outside of the plots (near your starting location), and start moving into and through the plots at your target speed.
- e. Load seed into the cone.

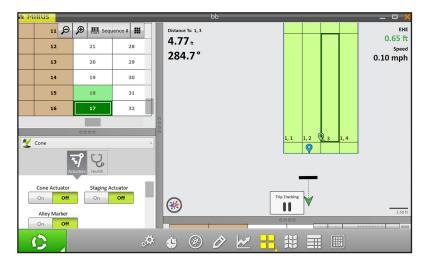


f. Drive into the field.



Step 3: In the quad view, choose the views that you would like to display.

If you use the spatial view in your quad view setup, it displays plots labeled with "Range, Row" by default. But you can select from a list of different spatial attributes by clicking on the spatial attribute button in that quad. To visually distinguish plots that have been planted, select the spatial attribute with the sequence number.



Step 4: Proceed through the plots at a consistent speed. Mirus triggers the planter automatically.





CHAPTER FIVE

Export

5. Export 5.1 Export GNSS Planting Data

The map export utility will export trip (start of row) positions for each plot.

To export data, please see the Export Map Data section in the appropriate *Mirus Manual*.

If needed, you can switch **Advanced** to **On** and check the box to Include Cycle Data.

	Export - 0	GNSS Map	×	
	Data Output Folder			
	C:\HarvestMaster\Mirus\Exports\GNSS Map.csv		Browse	
	Identifiers		~	
	Range,Row			
	Traits	Advanced	On	Switch
	Ó Moisture			Advanced to On .
	王 Test Weight			
	🛠 Offset Latitude			
	🗱 Offset Longitude			
	🗱 Position			
	🗱 AB Bottom Left Latitude			
	🛠 AB Bottom Left Longitude			
Check Include	Include Cycle data	□s	elect All	
			0	

Exported data is in CSV format, so it can easily be viewed in Excel and imported into analysis software such as AgroBase or Prism. The following is an example of the exported data with GNSS data for each cycle.

Date/Time	Range	Row	Cycle	Weight	Moisture	Offset Latitude	Offset Longitude	Position	Harvest Sequence
7/12/2019 13:57	1	1	т	27.33	1.3	41.76216494	-111.8622119	41.762163827, -111.862199761	1
7/12/2019 13:57	1	1	1	5.09	1.27	41.7621345	-111.8619736	41.762137287, -111.861959814	1
7/12/2019 14:03	1	2	Т	17.67	1.41	41.76216074	-111.8620596	41.762161798, -111.862071770	2
7/12/2019 14:03	1	2	1	3.1	1.41	41.76218637	-111.8622635	41.762183296, -111.862277148	2
7/12/2019 14:07	1	3	Т	29.46	2.72	41.76218322	-111.8621941	41.762181990, -111.862182028	3
7/12/2019 14:07	1	3	1	5.08	2.72	41.76215117	-111.8619635	41.762155624, -111.861950547	3

5.2 Export Error Logs

If you encounter a problem while installing or operating the Cone Planter plugin, contact a HarvestMaster Field Service Engineer. If the HarvestMaster Field Service Engineer needs to look through the GrainGage error logs, you can find them saved on your device.

- 1. Insert a USB into your tablet.
- 2. Open File Explorer.
- 3. Go to C:\HarvestMaster\Mirus\ErrorLogs\Mirus

The most recent error log will be saved under Mirus_log.txt. The Mirus_log.txt file will hold up to 15 MB before it moves to become Mirus_log.txt.1. When the next Mirus_log.txt fills up, Mirus_log.txt.1 will become Mirus_log.txt.2. The log will continue to cascade down until it becomes Mirus_log.txt.9 and then is deleted from the folder.

📜 🕑 📜 🗢 Mirus		
File Home Share View Image: Share View Image: Share View Image: Pin to Quick access Copy Paste Image: Share Image: Copy Paste Image: Paste Image: Paste Image: Copy Copy Paste Image: Paste Image: Copy Copy Paste Image: Paste Image: Copy Copy Copy Paste	Move Copy to* to* Delete Rename Organize New	
\leftarrow \rightarrow \checkmark \uparrow \blacksquare \Rightarrow This PC \Rightarrow Local Di	sk (C:) > HarvestMaster > Mirus > ErrorLogs > Mir	us
Documents	│ Name	Date modified
🖊 Downloads	GNSS-Diagnostics.csv	4/28/2022 10:35 AM
b Music	H2-Diagnostics.csv	4/7/2022 10:59 AM
E Pictures	HM800-Diagnostics.csv	4/7/2022 11:32 AM
📕 Videos	Mirus_log.txt	5/4/2022 10:52 AM
🐛 Local Disk (C:)	Airus_log.txt.1	5/4/2022 10:52 AM
\$WinREAgent	Airus_log.txt.2	5/4/2022 9:15 AM
Dell	Mirus_log.txt.3	5/4/2022 7:45 AM
HarvestMaster	Airus_log.txt.4	5/3/2022 5:48 PM
_	Mirus_log.txt.5	5/3/2022 4:06 PM
Lintel	Mirus_log.txt.6	5/3/2022 12:59 PM
OneDriveTemp	Mirus_log.txt.7	5/3/2022 11:11 AM
PerfLogs	Mirus_log.txt.8	5/3/2022 9:21 AM
📜 Program Files	Mirus_log.txt.9	5/2/2022 4:13 PM
Program Files (x86)		

- 4. Select the Mirus log file the HarvestMaster Field Service Engineer requested.
- 5. Copy the selected file to the USB.
- 6. Transfer the file to your desktop computer and email it to the HarvestMaster Field Service Engineer.