

# Mirrabooka

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to the sugar industry for  
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## YardView Rail

The Full Yard Mimic provides a complete overview of the consignment, delivery and processing cycle as the cane deliveries progress from the field to factory. It illustrates each phase of the delivery cycle.

FIELD						FULL YARD				NOTICES			
Ticket No.	Bin No.	Farm	Block	Side	Harvest Time	Line	Bins	Sus	Bin No.	Ticket No.	Level	Time	Details
48 0725	1293	1060	2B	57	Oct 25	Line 1	30	0	1192	8 0098	Warning	Oct 15, 17:44	Missed tag at tip
48 0728	1293	1060	3B	57	Wed 05:56	Line 2	10	1	784	52 0098	Warning	Oct 15, 16:08	PLC online again
48 0725	1293	1060	2B	57	Oct 25	Line 3	32	2	993	17 0835	Warning	Oct 15, 16:08	PLC offline
66 1096	424	8780	10A	103	Wed 05:22	Line 4	30	1	1489	17 0835			
66 1096	28	8780	10A	103	Wed 05:39				772	17 0835			
48 0728	1293	1060	3B	57	Wed 05:56				936	17 0835			
66 1096	978	8780	10A	103	Wed 06:13				759	17 0835			
66 1096	1440	8780	10A	103	Wed 06:30				414	17 0835			
48 0728	553	1060	3B	57	Wed 06:47				1201	17 0835			
48 0728	137	1060	3B	57	Wed 07:04				93	17 0835			
48 0728	1384	1060	3B	57	Wed 07:21				843	17 0835			
48 0728	278	1060	3B	57	Wed 07:38				755	47 0722			
48 0728	291	1060	3B	57	Wed 07:55				1003	47 0722			
48 0728	646	1060	3B	57	Wed 08:12				1802	8 0094			
48 0728	514	1060	3B	57	Wed 08:29				797	8 0094			
53 1221	189	1020	5A	42	Wed 08:46				21	8 0094			
53 1221	1209	1020	5A	42	Wed 09:03				700	8 0094			
53 1221	1276	1020	5A	42	Wed 09:20				168	8 0094			
53 1221	1135	1020	5A	42	Wed 09:37				728	8 0094			
53 1221	784	1020	5A	42	Wed 09:54				1511	8 0094			
53 1221	442	1020	5A	42	Wed 10:11				363	8 0094			
53 1221	580	1020	5A	42	Wed 10:28				954	39 0277			
53 1221	23	1020	5A	42	Wed 10:45				263	39 0277			
53 1221	668	1020	5A	42	Wed 11:02				721	39 0277			
53 1221	714	1020	5A	42	Wed 11:19				1141	53 0441			
53 1221	42	1020	5A	42	Wed 11:36				350	53 0441			
53 1221	958	1020	5A	42	Wed 11:53				601	53 0441			
53 1221	931	1020	5A	42	Wed 12:10				752	8 0094			
53 1221	73	1020	5A	42	Wed 12:27				284	39 0277			
53 1221	1044	1020	5A	42	Wed 12:44				703	39 0277			
53 1221	1473	1020	5A	42	Wed 13:01				908	39 0277			
53 1221	86	1020	5A	42	Wed 13:18				117	0 0000			
53 1221	358	1020	5A	42	Wed 13:35				109	39 0277			
53 1221	485	1020	5A	42	Wed 13:52				340	39 0277			
									156	39 0277			
									841	0 0000			
									936	39 0277			
									739	39 0277			
									1834	39 0277			
									53	39 0277			
									526	39 0277			

## Features

- Web-based mimic, runs in any modern web browser
- Vehicles identified by RFID
- Lists all consigned bins
- Multi-line or single-line viewing mode
- Diagnostic warning message

The mimic can be run in two modes. *Operator Mode* is available to users with the appropriate permissions and allows amendments to be made. *Monitor Mode* is available to anyone, and restricts the user to passively viewing the mimic. It runs in any modern web browser, convenient for a wide range of personnel.

## Field Details

This lists all of the bins that have been consigned from the field using telemetry. The user can highlight a row, view the details and has the facility to remove this entry from the field queue.

FIELD						32
Ticket No.	Bin No.	Farm	Block	Side	Harvest Time	
48 0725	1293	1060	2B	57	Oct 25	
48 0728	1293	1060	3B	57	Wed 05:56	
+++++						
48 0725	1293	1060	2B	57	Oct 25	
66 1096	424	8780	10A	103	Wed 05:22	
66 1096	28	8780	10A	103	Wed 05:39	
48 0728	1293	1060	3B	57	Wed 05:56	
66 1096	978	8780	10A	103	Wed 06:13	
66 1096	1440	8780	10A	103	Wed 06:30	
48 0728	553	1060	3B	57	Wed 06:47	
48 0728	137	1060	3B	57	Wed 07:04	
48 0728	1384	1060	3B	57	Wed 07:21	
48 0728	278	1060	3B	57	Wed 07:38	
48 0728	291	1060	3B	57	Wed 07:55	

## Full Yard

The full yard consists of a number of lines that are used for storage.

The screenshot shows the 'FULL YARD' interface. At the top, there are four columns representing 'Line 1' through 'Line 4', each with 'Bins' and 'Sus' counts. Below this is a table of bins with columns for Bin No, Ticket No, and Farm. A modal window is open for 'Ticket 170271', showing details for 8 field bins and 12 yard bins. The form includes fields for Ticket, Farm (1222), Harvester (17), Harvest Date (9/11/16), Time (09:45), Green (checked), Burnt Date, Block (13), Variety (503), and Class (40). Buttons for 'Save', 'Clear', and 'Close' are visible.

RFID antennas mounted at the entrance identify the bins and a line selector identifies which line these bins are being transferred onto. Bins are recorded and the system examines the bins in the field queue and attempts to match the bin on the line to the telemetry details. Bins that have been matched have a ticket number associated with it; bins not matching have a zero ticket number and are shown in red (suspense). The ticket details for a particular bin can be viewed and amended.

This screenshot shows a list of actions for Bin 1730: 'Insert bins after Bin 1730', 'Insert bins before Bin 1730', 'Reassign Bin 1730', 'Reassign Bin 1730 to Ticket 1514', 'Delete Bin 1730', 'Add bins to end of Line 4', and 'Clear Line 4'. To the right is a form for 'Ticket 510049' with fields for Ticket, Farm (7740), Harvester (51), Harvest Date (29/5/21), Time (06:27), Green (checked), Burn Date, Block (1), Variety, and Class. 'Save' and 'Close' buttons are at the bottom.

## Tip Queue

This displays the bins between merging of the full yard lines onto the tip queue. As the bins move onto the weighbridge tippler, the weights and consignment details are displayed as each bin is crushed and processed.

The screenshot displays the 'Tip Queue' interface. It features a table of bins with columns for Bin No, Ticket No, and Farm. On the left, there are dropdowns for 'Primary Line' (set to 2) and 'Secondary Line' (set to 3). At the bottom, a row of bin icons shows the 10th Bin (672) and other bins (419, 599, 1065, 49, 1267, 1949, 226, 1249, 866, 944). On the right, a summary box shows 'Tippler State: tipping', 'Weigh Mode: Automatic', and various weight and volume readings: Tick: 535778, F/B: 1480 27A, Bin: 866, Var: Q183, Gros: 752, Rak: 17625, Tare: 0, Sam: 16421.

## Notices Window

Should a diagnostic warning message or a more serious error occur, these will be displayed in this window. The serious error is displayed in Red, the diagnostic error in Amber and when the error has returned to normal displayed in Green.

Warning	Oct 15, 17:44	Missed tag at tip
Normal	Oct 15, 16:08	PLC online again
Severe	Oct 15, 16:08	PLC offline