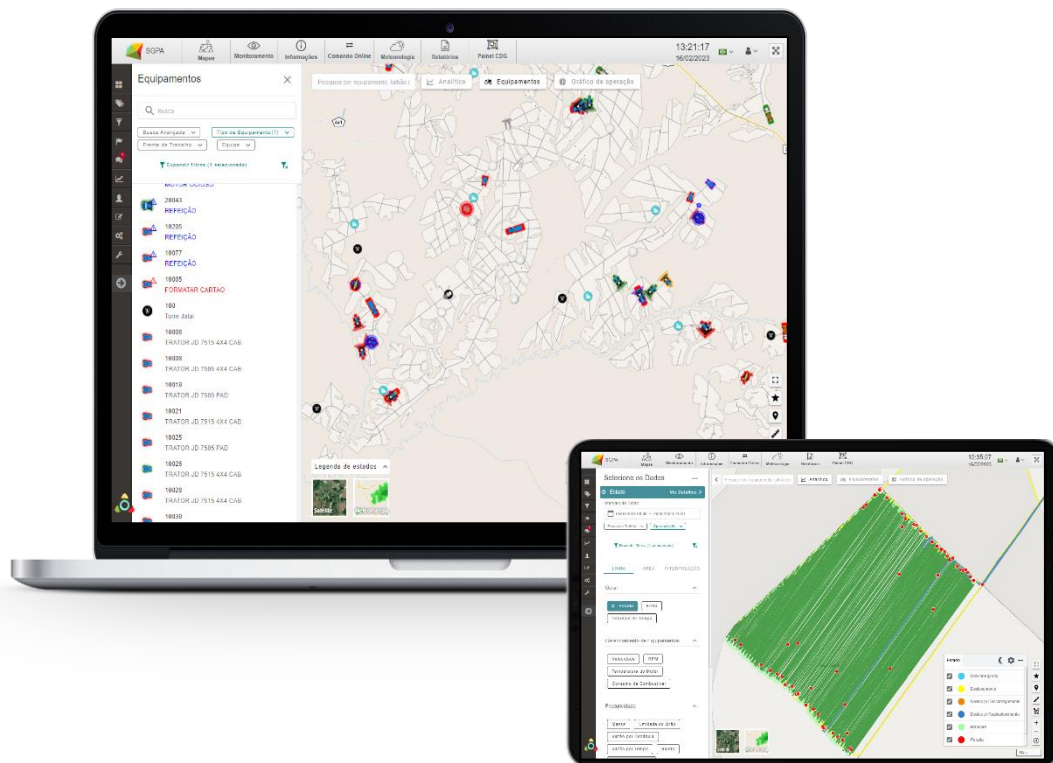


Changelog

SGPA3

Automated Process Management System



Changelog Version 2024/239
 Period: 08/06/2024 to 08/12/2024
 Revision 00
 Date: 08/20/2024

Some applications mentioned in this report may not be available in the feature pack in your SGPA 3.0



Thank you for being a SGPA 3.0 user!

We update our system in order to fix bugs, improve performance and add new features to bring a better user experience and contribute to a management with greater quality and efficiency.

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1. SGPA3

1.1 Improvements

1.1.1 PBI Reports – Climate (Perennial and Cane)

Aiming to improve climate data management, the new PBI “Climate x Operation” Report was implemented for the Perennial and Sugarcane Verticals and improvements were made to the PBI “Climate Conditions” (Perennial) and “Climate Tracks” (Sugarcane) Reports.

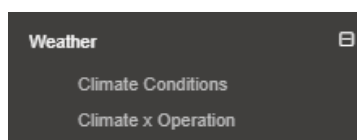


Image 01 – Climate Reports Menu

- **“Climate x Operation” Report:** The report aims to enable climate analysis within each agricultural operation and will present some data already present in the “Climate Conditions” and “Climate Ranges” reports from the previous version, but with improved information detailing. In this version, it will be possible to access the registered parameters to determine the indicators. The innovation is in the second tab, called “Analysis”, where it will be possible to analyze the Operational Area considering Rainfall (mm), Downtime Hours Due to Humidity (%), Temperature (°C), Wind Speed (km/h) and Amount of Rain (mm). An additional relevant analysis is the possibility of calculating the Degree-Day value. To do this, it is necessary to enter the Minimum and Maximum Basal Temperature (°C). This calculation will allow to obtain the value of Accumulated Degree-Days, which is one of the most widely used methods to relate Air Temperature to Plant Development. All calculations and bibliographic references used are detailed in the report. On the cover of the report, you will find an explanatory video, in the “Video” option, on how to use the report.



Image 02 – Cover of the “Climate x Operation” Report of the Perennials vertical



Image 03 – Cover of the “Climate x Operation” Report for the Sugarcane vertical

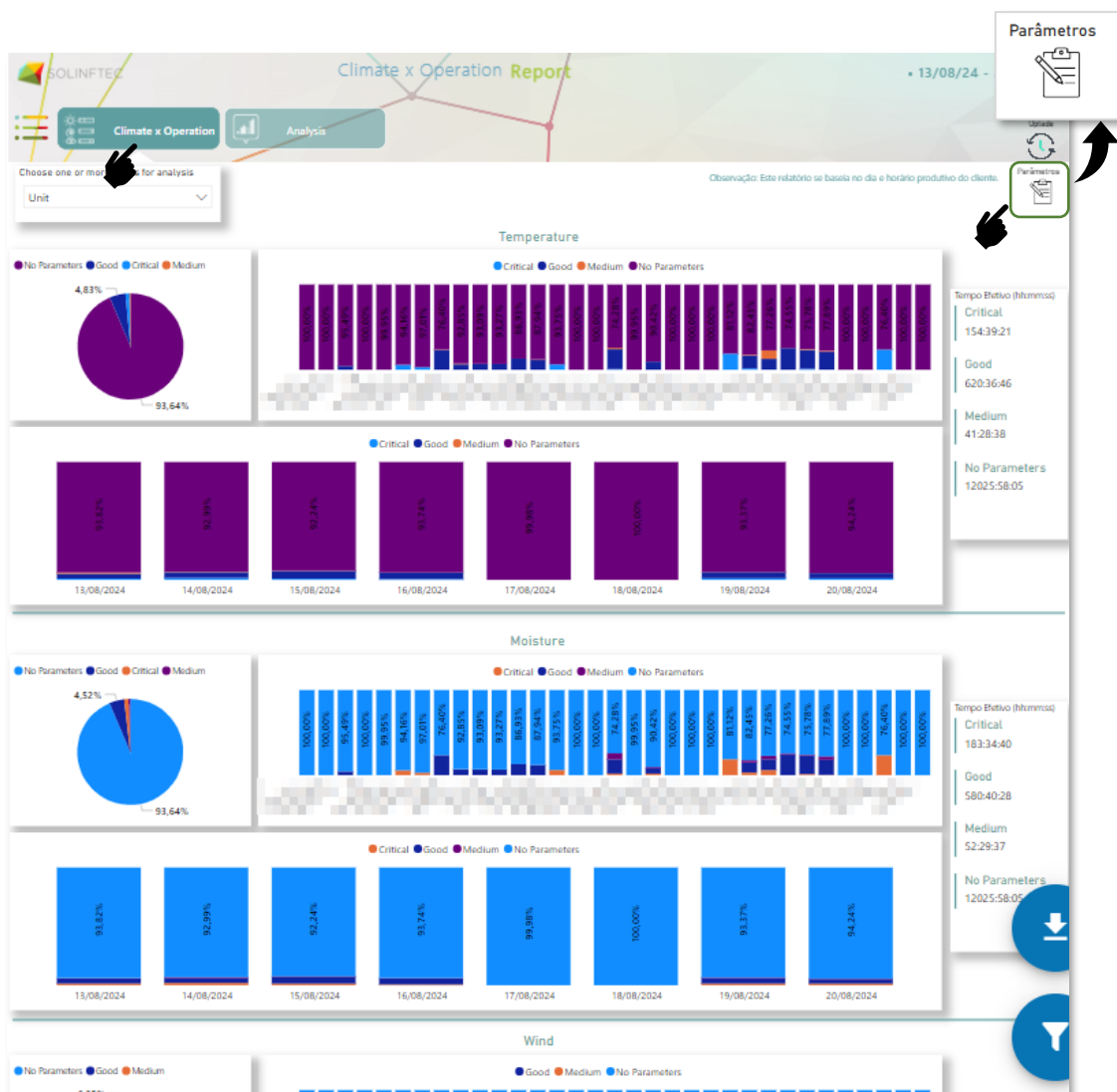



Image 04 – “Climate x Operation” tab and icon that directs to the Parameters screen



SOLINFTEC

Climate x Operation Report

Image 05 – Parameters view of the “Climate x Operation” tab



Image 06 – “Analysis” Tab with Accumulated Degree-Day Indicator

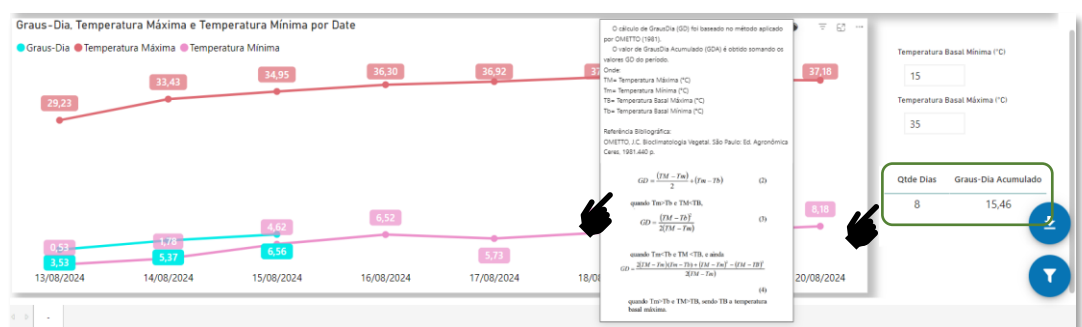
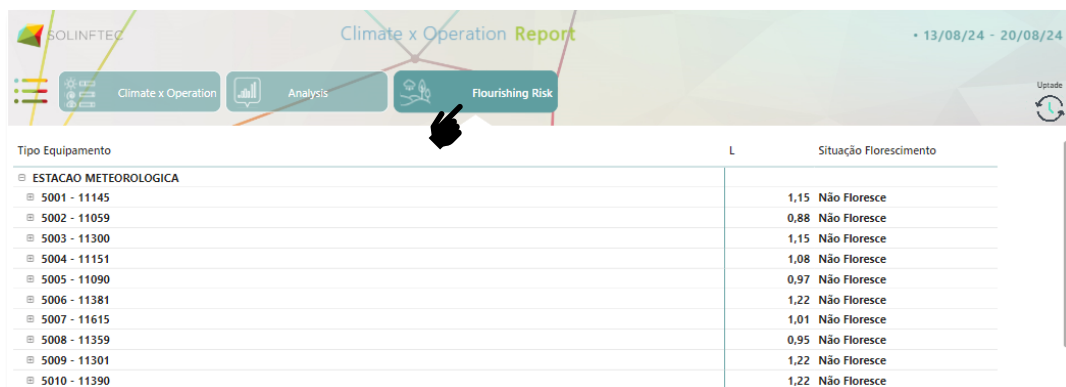


Image 07 – Degree Day (GD) calculation details



The screenshot shows the 'Flourishing Risk' tab selected in the 'Climate x Operation Report'. The report displays a table with two columns: 'Tipo Equipamento' and 'Situação Florescimento'. The data is as follows:

Tipo Equipamento	Situação Florescimento
ESTACAO METEOROLOGICA	
5001 - 11145	1,15 Não Floresce
5002 - 11059	0,88 Não Floresce
5003 - 11300	1,15 Não Floresce
5004 - 11151	1,08 Não Floresce
5005 - 11090	0,97 Não Floresce
5006 - 11381	1,22 Não Floresce
5007 - 11615	1,01 Não Floresce
5008 - 11359	0,95 Não Floresce
5009 - 11301	1,22 Não Floresce
5010 - 11390	1,22 Não Floresce

Image 08 – The “Flourishing Risk” tab details available in the “Climate x Operation” report of the Sugarcane Vertical

- **“Climate Conditions” Report:** The report has undergone a complete overhaul and will replace the “Rain Gauge” report. It will present climate data obtained from Weather Stations and Rain Gauges, where it will be possible to continue analyzing data on Rain (mm), Temperature (°C), Humidity (%) and Wind Speed (km/h). New features include Wind Direction (Wind Roses) and Solar Radiation (w/m²). In the second tab, the “Climate Report”, it will be possible to extract indicators by Farm, Zone, Field and Equipment. The indicators include Humidity (%), Solar Radiation (w/m²), Evapotranspiration (mm), Dew Point (°C) and Gust (km/h). An explanatory video is available on the cover of the report, in the “Video” option, on how to use the report.

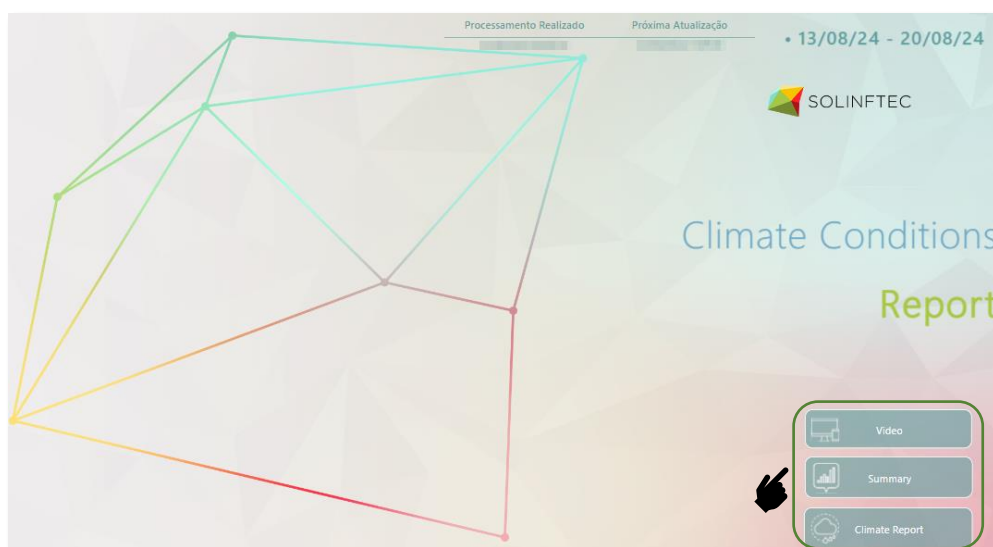
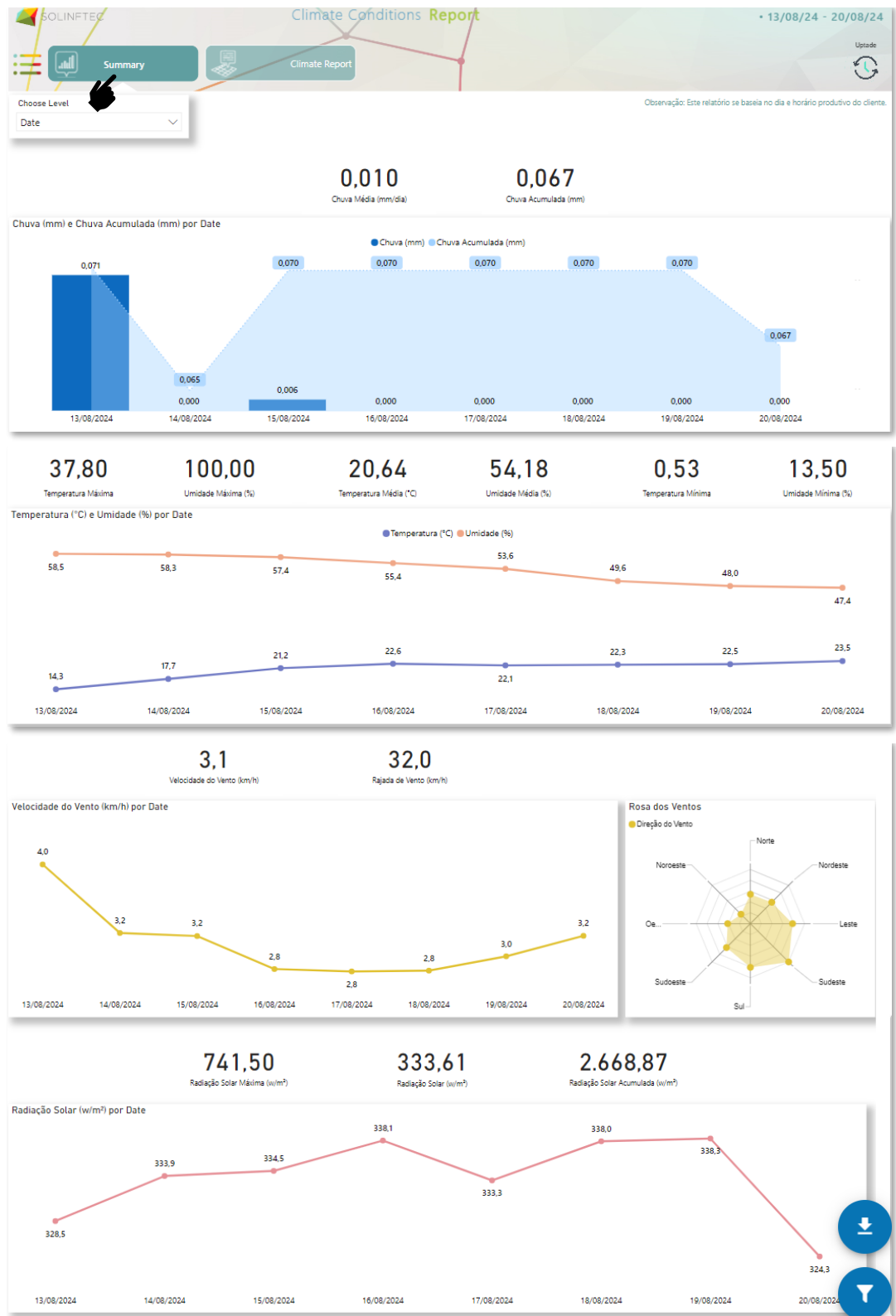
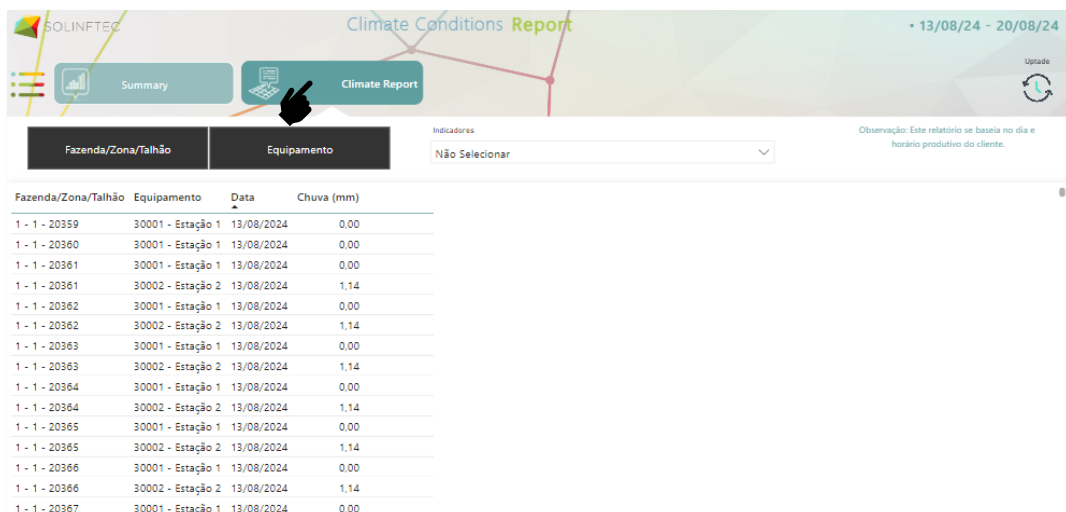


Image 09 – Cover of the “Climate Conditions” Report



Images 10, 11 and 12 – “Summary” tab of the “Climate Conditions” report



Fazenda/Zona/Talhão	Equipamento	Data	Chuva (mm)
1 - 1 - 20359	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20360	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20361	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20361	30002 - Estação 2	13/08/2024	1.14
1 - 1 - 20362	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20362	30002 - Estação 2	13/08/2024	1.14
1 - 1 - 20363	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20363	30002 - Estação 2	13/08/2024	1.14
1 - 1 - 20364	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20364	30002 - Estação 2	13/08/2024	1.14
1 - 1 - 20365	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20365	30002 - Estação 2	13/08/2024	1.14
1 - 1 - 20366	30001 - Estação 1	13/08/2024	0.00
1 - 1 - 20366	30002 - Estação 2	13/08/2024	1.14
1 - 1 - 20367	30001 - Estação 1	13/08/2024	0.00

Image 13 – “Climate Report” tab of the “Climate Conditions” report



Climate Reports are based on the client's productive day and time.

Perennials vertical will receive the update in Alice's Climate Reports.



Go to Main Menu > Reports > PBI > Climate > Climate x Operation and Climate Conditions

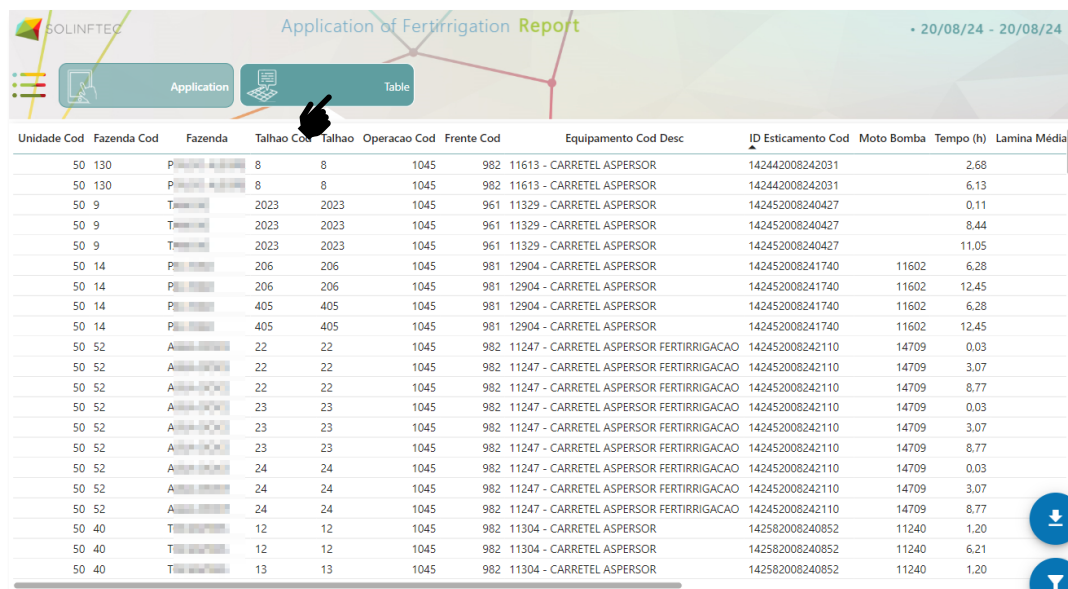


Available for the Sugarcane and Perennial Vertical Environments that have the “Climate” solution active.

1.1.2 PBI Reports – Fertigation Application

Improvement made to the PBI Report “Fertigation Application”, from the Sugarcane Vertical, to add the new “Table” tab, with the aim of exporting the data presented there.

In this new tab, data will be available in columns, with the following information: Unit Code, Farm Code, Farm Description, Zone Code, Field Code, Operation Code, Front Code, Equipment Code, Stretching ID Code, Hydroroll type equipment code (Reel), Motor Pump type equipment code, Time (h), Average Blade, Field Area, Field Application Area, Average Flow, Initial and Final Date and Time.



Application of Fertilization Report

20/08/24 - 20/08/24

Unidade Cod	Fazenda Cod	Fazenda	Talhao Cod	Talhao	Operacao Cod	Frente Cod	Equipamento Cod Desc	ID Esticamento Cod	Moto Bomba	Tempo (h)	Lamina Média
50	130	P...	8	8	1045	982	11613 - CARRETEL ASPERSOR	142442008242031		2.68	
50	130	P...	8	8	1045	982	11613 - CARRETEL ASPERSOR	142442008242031		6.13	
50	9	T...	2023	2023	1045	961	11329 - CARRETEL ASPERSOR	142452008240427		0.11	
50	9	T...	2023	2023	1045	961	11329 - CARRETEL ASPERSOR	142452008240427		8.44	
50	9	T...	2023	2023	1045	961	11329 - CARRETEL ASPERSOR	142452008240427		11.05	
50	14	P...	206	206	1045	981	12904 - CARRETEL ASPERSOR	142452008241740	11602	6.28	
50	14	P...	206	206	1045	981	12904 - CARRETEL ASPERSOR	142452008241740	11602	12.45	
50	14	P...	405	405	1045	981	12904 - CARRETEL ASPERSOR	142452008241740	11602	6.28	
50	14	P...	405	405	1045	981	12904 - CARRETEL ASPERSOR	142452008241740	11602	12.45	
50	52	A...	22	22	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	0.03	
50	52	A...	22	22	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	3.07	
50	52	A...	22	22	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	8.77	
50	52	A...	23	23	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	0.03	
50	52	A...	23	23	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	3.07	
50	52	A...	23	23	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	8.77	
50	52	A...	24	24	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	0.03	
50	52	A...	24	24	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	3.07	
50	52	A...	24	24	1045	982	11247 - CARRETEL ASPERSOR FERTIRRIGACAO	142452008242110	14709	8.77	
50	40	T...	12	12	1045	982	11304 - CARRETEL ASPERSOR	142582008240852	11240	1.20	
50	40	T...	12	12	1045	982	11304 - CARRETEL ASPERSOR	142582008240852	11240	6.21	
50	40	T...	13	13	1045	982	11304 - CARRETEL ASPERSOR	142582008240852	11240	1.20	

Image 14 – New “Table” tab in the “Fertilization Application” report



Go to Main Menu > Reports > PBI > Fertilization Application > Table Tab

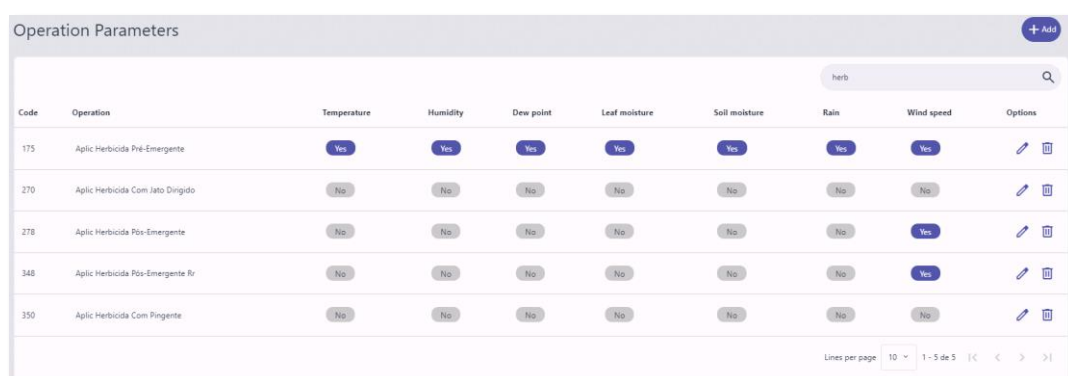


Available for Sugarcane Vertical Environments that have the “Fertilization” solution

active.

1.1.3 Records – Operation Parameters

Improvements made to the “Operation Parameters” Registry. As of this version, the registry is displayed with a new layout.




Operation Parameters

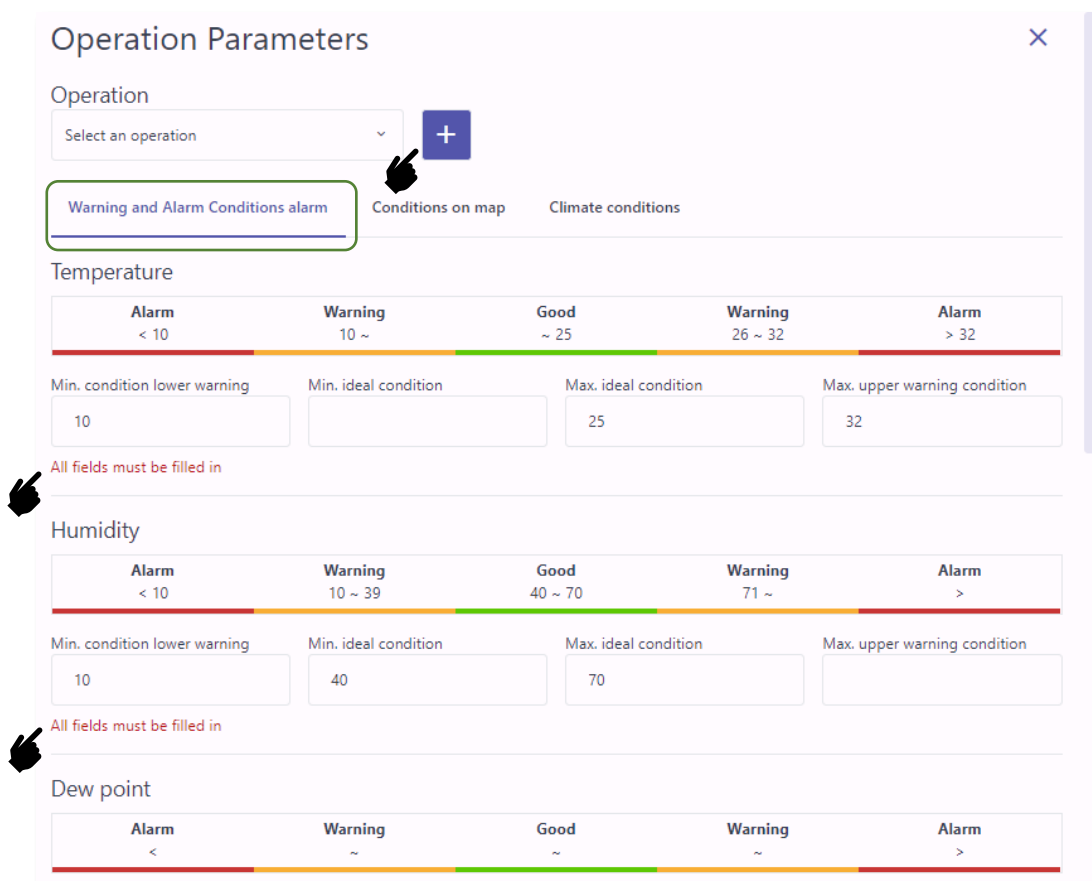
herb

Code	Operation	Temperature	Humidity	Dew point	Leaf moisture	Soil moisture	Rain	Wind speed	Options
175	Aplic Herbicida Pré-Emergente	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
270	Aplic Herbicida Com Jato Dirigido	No	No	No	No	No	No	No	
278	Aplic Herbicida Pós-Emergente	No	No	No	No	No	No	Yes	
348	Aplic Herbicida Pós-Emergente Rv	No	No	No	No	No	No	Yes	
350	Aplic Herbicida Com Pingente	No	No	No	No	No	No	No	


Lines per page 10 1 - 5 de 5

Image 15 – New layout for the “Operation Parameters” registration screen

- The screen for creating/editing an “Operation Parameter” record is divided into three tabs: “Warning and alarm conditions”, “Map conditions” and “Weather conditions”.
- In the “Warning and alarm conditions” tab, when adding values in one of the parameter fields, such as Temperature and Humidity, it is necessary to fill in the other parameter fields to allow the record to be saved.
- Using the button , it's possible to create an Operation without leaving the Operation Parameters registration screen.



Operation Parameters

Operation: Select an operation 

Warning and Alarm Conditions alarm Conditions on map Climate conditions

Temperature

Alarm	Warning	Good	Warning	Alarm
< 10	10 ~	~ 25	26 ~ 32	> 32
Min. condition lower warning	Min. ideal condition	Max. ideal condition	Max. upper warning condition	
10		25	32	

All fields must be filled in

Humidity

Alarm	Warning	Good	Warning	Alarm
< 10	10 ~ 39	40 ~ 70	71 ~	>
Min. condition lower warning	Min. ideal condition	Max. ideal condition	Max. upper warning condition	
10	40	70		

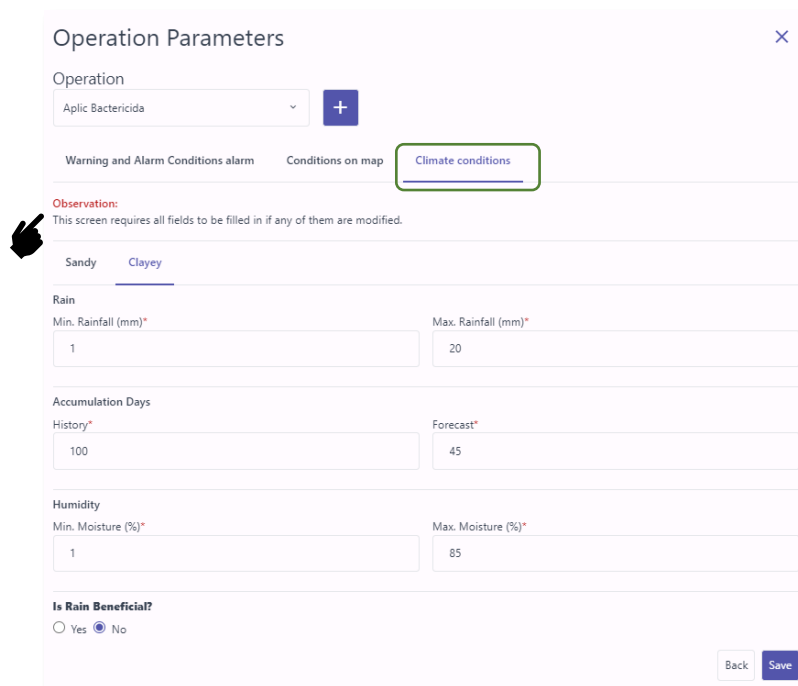
All fields must be filled in

Dew point

Alarm	Warning	Good	Warning	Alarm
<	~	~	~	>
Min. condition lower warning	Min. ideal condition	Max. ideal condition	Max. upper warning condition	

Image 16 – Screen for creating/editing a new “Operation Parameters” record

- In the “Climate Conditions” tab, if you enter data in at least one field, you must fill in the other fields for the “Sandy” and “Clay” parameters to allow the record to be saved.



Operation Parameters

Operation: Aplic Bactericida +

Warning and Alarm Conditions alarm Conditions on map **Climate conditions**

Observation:
This screen requires all fields to be filled in if any of them are modified.

Sandy **Clayey**

Rain
Min. Rainfall (mm)*: Max. Rainfall (mm)*:


Accumulation Days
History*: Forecast*:

Humidity
Min. Moisture (%)*: Max. Moisture (%)*:

Is Rain Beneficial?
☐ Yes ☒ No

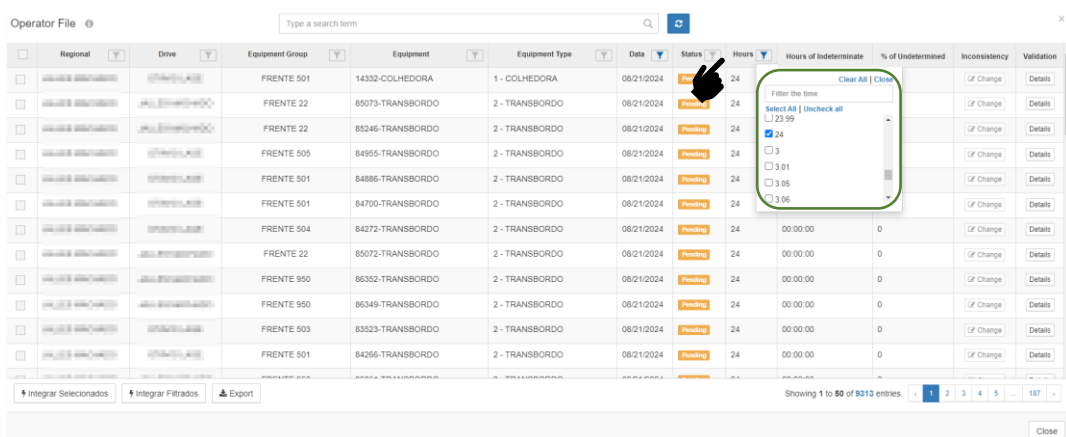
Back Save

Image 17 – “Climate Conditions” tab with informative message about the need to fill in the fields

 Go to Main menu > Registrations > Operation > Operation Parameters

1.1.4 Tools – Operator’s File

Improvement made to the “Operator’s File” Tool to include a filter in the “Hours” column, thus making it possible to filter records according to the time interval.



Regional	Drive	Equipment Group	Equipment	Equipment Type	Data	Status	Hours	Hours of Indeterminate	% of Undetermined	Inconsistency	Validation
		FRENTE 501	14332-COLHEDORA	1 - COLHEDORA	08/21/2024	Pending	24				
		FRENTE 22	85073-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24				
		FRENTE 22	85246-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24				
		FRENTE 505	84955-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24				
		FRENTE 501	84886-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24				
		FRENTE 501	84700-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24				
		FRENTE 504	84272-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24	00:00:00	0		
		FRENTE 22	85072-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24	00:00:00	0		
		FRENTE 950	86352-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24	00:00:00	0		
		FRENTE 950	86349-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24	00:00:00	0		
		FRENTE 503	83523-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24	00:00:00	0		
		FRENTE 501	84266-TRANSBORDO	2 - TRANSBORDO	08/21/2024	Pending	24	00:00:00	0		

Showing 1 to 80 of 8013 entries. 1 2 3 4 5 187

Image 18 – New filter in the “Hours” column of the “Operator’s File” tool

Go to Main menu > Tools > Operator file > Hours > Filter

Available for Sugarcane Vertical Environments.

1.1.5 CDG Panel – Scale Contingency

Improvement made in the “Scale Contingency” screen of the “CDG Panel”, to display the Date and Time according to the Unit’s time zone, in the “Creation Date” column of the “List of Contingencies”.

Scale Contingency

List of Contingencies + New

A - All

BALANCE	TRUCK	PLACA	ENTRY TIME	USER	CREATION DATE
1	2316	ATV0588	04/13/2024 13:50:00		04/13/2024 14:46:08
1	2316	ATV0588	04/13/2024 13:50:00		04/13/2024 14:46:13
3	3391	QPF9I20	04/13/2024 11:57:00		04/13/2024 14:45:07
3	3391	QPF9I20	04/13/2024 11:57:00		04/13/2024 14:45:10
3	3405	QQT5B06	04/13/2024 09:48:00		04/13/2024 14:43:51
1	3400	DAH8E28	04/13/2024 09:40:00		04/13/2024 14:43:12
3	3399	ITY7855	04/13/2024 09:38:00		04/13/2024 14:40:54
1	3396	IUI8H69	04/13/2024 09:36:00		04/13/2024 14:38:45
3	3414	CDM4I57	04/13/2024 09:16:00		04/13/2024 14:20:15
1	2150	KMR5C87	04/12/2024 18:27:00		04/13/2024 14:16:30

1 ate 11 de 744

Close

Image 19 – “Creation Date” Column in the Scale Contingency List

Go to Top menu > CDG Panel > Scale Contingency > List of Contingencies > Creation

Date

Available for Grains Vertical Environments that have the “CDG – Digital Certificate of Grains” solution active. Applied on 08/13/2024.

1.1.6 CDA Panel – Cotton Gin

Improvement made to the “Cotton Gin” tab of the “CDA Panel”, to present in the report the information regarding: **Client, Farm, Fleet, Period, Hour, Total Modules Processed** and **Average per productive day**.

<div> <div>Client: F</div> <div>Farm: C</div> <div>Fleet: ALGODOEIRA - 502</div> </div> <div> <div>Period: 13/08/2024 - 20/08/2024</div> <div>Hour: 00:00:00 - 23:59:59</div> </div>													
<div> <div>988</div> <div>123.5</div> </div> <div> <div>Total Processed Modules</div> <div>Average per productive day</div> </div>													
Counter	Cotton entrance	Module ID	F-Z-T	Fleet equipment	Weight (kg)	Fiber humidity (%)	Variety	Field Time	CAMPO	BALANÇA ROTA	ALGODOEIRA ROTA	Local	Anomaly
988	20/08/2024 23:49:22	24601014775	1-7-57	1207	2365	8.75	—	5 dias	10/08/2024 20:13:26	16/08/2024 09:18:04	20/08/2024 23:49:22	INTERNO	—
987	20/08/2024 23:48:44	24601024046	1-7-57	1204	2263	9.51	—	5 dias	10/08/2024 21:14:24	16/08/2024 09:19:07	20/08/2024 23:48:44	INTERNO	—
986	20/08/2024 23:30:12	24601015929	1-7-57	1201	2466	8.26	—	5 dias	10/08/2024 18:47:16	16/08/2024 08:35:15	20/08/2024 23:30:12	INTERNO	—
985	20/08/2024 23:14:01	24601014784	1-7-57	1207	2370	7.47	—	4 dias	10/08/2024 17:55:46	15/08/2024 16:48:15	20/08/2024 23:14:01	INTERNO	—
984	20/08/2024 23:06:46	24601014890	1-7-57	1202	2360	7.71	—	4 dias	10/08/2024 18:04:06	15/08/2024 16:48:16	20/08/2024 23:06:46	INTERNO	—
983	20/08/2024 22:48:10	24601015897	1-7-57	1207	2099	6.62	—	5 dias	10/08/2024 16:07:18	15/08/2024 16:40:56	20/08/2024 22:48:10	INTERNO	—
982	20/08/2024 22:33:37	24601014901	1-7-57	1202	2349	6.94	—	5 dias	10/08/2024 15:23:35	15/08/2024 16:40:54	20/08/2024 22:33:37	INTERNO	—
981	20/08/2024 22:32:35	24601015931	1-7-57	1201	2267	8.03	—	5 dias	10/08/2024 18:21:31	16/08/2024 08:35:10	20/08/2024 22:32:35	INTERNO	—
980	20/08/2024 22:32:04	24601014789	1-7-57	1207	2143	6.46	—	4 dias	10/08/2024 17:09:23	15/08/2024 16:48:14	20/08/2024 22:32:04	INTERNO	—
979	20/08/2024 22:30:43	24601015934	1-7-57	1201	2295	6.79	—	4 dias	10/08/2024 17:40:51	15/08/2024 16:48:12	20/08/2024 22:30:43	INTERNO	—

Image 20 – Cotton Production Report exported in the “Cotton” tab of the “CDA Panel”



Go to Top menu > CDA Panel > Cotton Gin > Export > CDA Cotton Gin Production

Report



Available for Environments in the Grains vertical that have the “CDA – Digital Certificate of Cotton” solution active.

1.2 Bugs

1.2.1 Maps – Worked Area

Adjustment made to the “Worked Area” map to display the data on the map when filtering by a productive day, that is, selecting the client's productive day and time in the “Date Range” filter.



Go to Top Menu > Maps > Select Data > Date Range > Select a productive day > Area > Area Worked

1.2.2 Maps – Meteorology

Adjustment made to “Weather Maps by Area” to display in gray on the map only when the fields have null values, thus standardizing as indicated in the legend.



Top menu > Maps > Top map menu > Meteorology > Weather Maps > Area > Legend/Map > Gray color > Information unavailable



Available for Environments that have the “Climate” solution active.

1.2.3 Maps – CDA

Adjustment made to the “CDA” module of maps when selecting Equipment that has Module harvesting (Rolls) in more than one field, not multiplying the Module data displayed in the “Harvest Summary” of the PRODUCTIVITY parameter.



Go to Top menu > Maps > Top map menu > CDA > Yield > Weight and Productivity > Harvest Summary



Available for Environments in the Grains vertical that have the “CDA – Digital Certificate of Cotton” solution active.

1.2.4 PBI Reports – Benchmark

Adjustment made to the MESORREGION filter of the PBI Benchmark Reports, in order to display the data in the filter according to the selected REGION.



Go to Main Menu > Reports > PBI > Benchmark Menu > TPL Benchmark, Sugarcane, Harvester and Transshipment



Available for Environments that have the “Benchmark” solution active.

1.2.5 PBI Reports – Cutting, Loading and Transporting Cane

Adjustment made to the “Front Diary” tab of the PBI Report “Cutting, Loading and Transporting Cane”, of the Sugarcane Vertical, in order to display the values in percentage (%) in the bars of the “Cane Cutting Speed Ranges” graph.



Go to Main Menu > Reports > PBI > Operational Hours > Cutting, Loading and Transporting Cane > Front Daily Tab

1.2.6 Report Generator – Checklist

Adjustment made in the “Report Generator”, in the “Checklist” report in PDF format, to correctly display the values in the fields “Total Items”, “Total Items with errors” and “Percentage of Items with errors”.



Go to Main Menu > Reports > Report Generator > Report Type > Checklist > Regional/Unit/Equipment/Operator – Checklist > File Type > PDF



Available for the Sugarcane Vertical Environments. Applied on 08/13/2024.

1.2.7 CDG Panel – Contingency in the Field

Adjustments applied to the “Field Contingency” screen of the CDG Panel:

- An adjustment was made so when editing a record and selecting the “2 – Harvester -> Transshipment” option in the “Unloading Type” field, it displays the Transshipment type equipment in the “Equip. with Received Load” field.
- In the Contingency List, an adjustment was made so when validating a record, the description of the user who performed the validation is displayed in the “User” column.



Go to Top menu > CDG Panel > Field Contingency



Available for Grains Environments Vertical that have the “CDG – Digital Certificate of Grains” solution active. Applied on 08/13/2024.

In case of doubt or further clarification, please contact us via email suporte@solinftec.com.br or call +55 18 3622 2270