

# Changelog

## SGPA3

### Automated Process Management System



Changelog Version 2024/247  
 Period: 10/08/2024 to 10/14/2024  
 Revision 00  
 Date: 10/22/2024

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 Maps, Monitoring and Records – Fire Risk

Aiming at all the risks that fire can cause for the producer and society, the “Fire Risk” map was implemented in SGPA3, available in the “Meteorology” module of the Map and Monitoring.

For this new feature, a fire risk classification algorithm was developed to help with the strategy for combating and controlling this damage. The algorithm considers 3 climate indicators, **Humidity**, **Temperature** and **Wind Speed**, to classify the fire risk of each field based on meteorological data collected in real time by the “Weather” solution. When crossing these data, the map receives a color according to the fire risk it presents, being **Low**, **Medium**, **High** and **Extreme**, as shown in the Legend of figures 2 and 3. In addition to the current situation displayed by the map, the timeline shows whether there will be a change in risk throughout the day, due to climate changes.

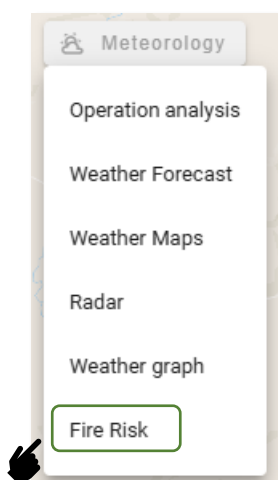


Image 01 – Shortcut to the new “Fire Risk” weather map

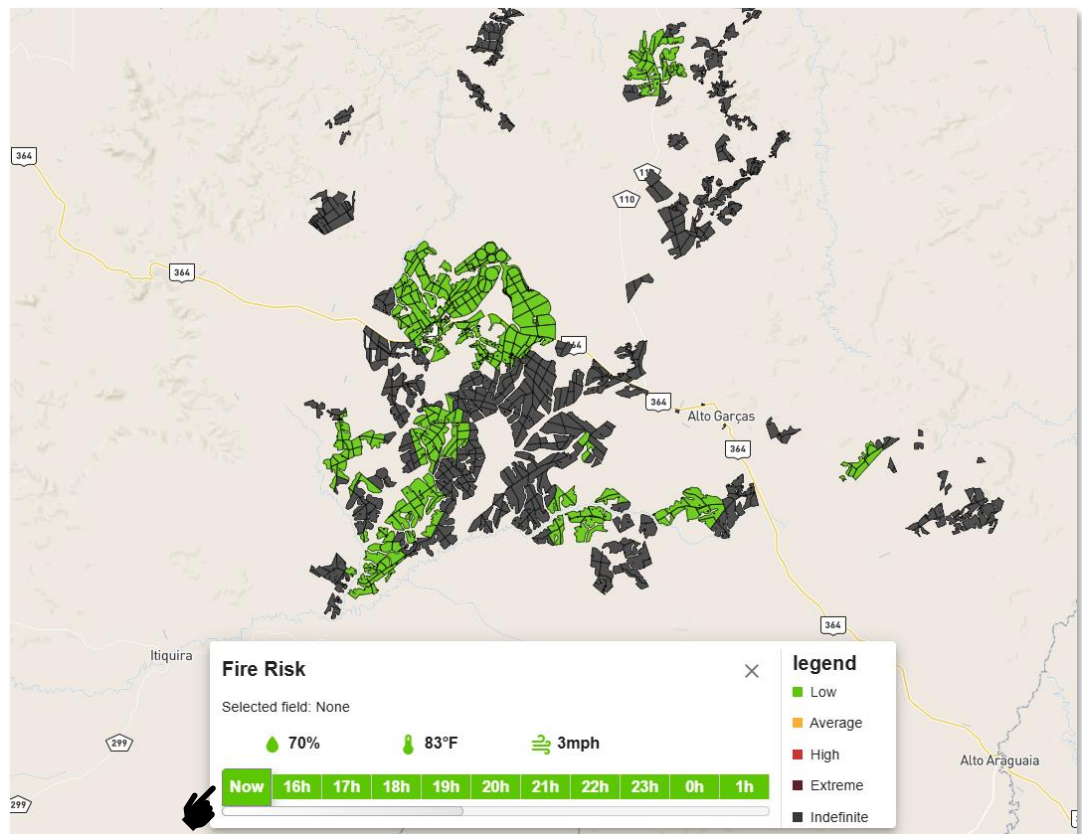


Image 02 – Overview of the “Fire Risk” Weather Map

The menu displays the three indicators mentioned, **Humidity**, **Temperature** and **Wind Speed**, showing which is entering a risk condition. In addition, it is possible to select a field to analyze its timeline.

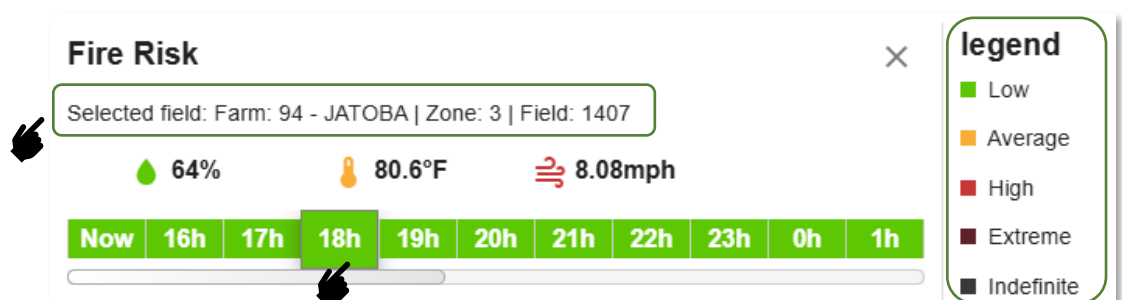
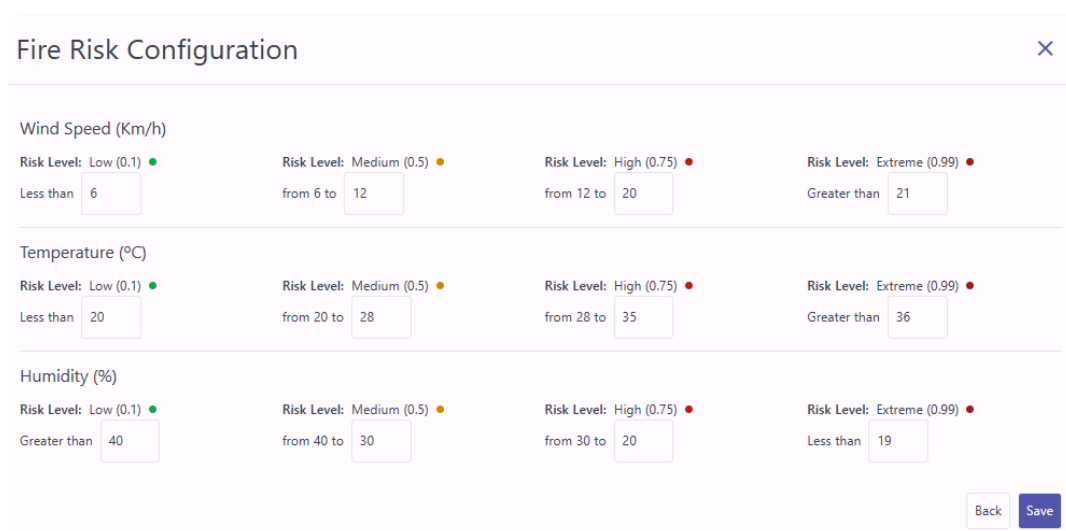


Image 03 – Details of the “Fire Risk” weather map menu with a field selected

The algorithm considers minimum and maximum values for each of the parameters that influence the risk classification. These values are already pre-established, but it is possible to consult them or change them if necessary. Access is available within the Settings registration menu, under “Fire Risk Configuration”.



Image 04 – Shortcut to access the Fire Risk Configuration registry



Parameter	Risk Level	Value
Wind Speed (Km/h)	Low (0.1)	Less than 6
	Medium (0.5)	from 6 to 12
	High (0.75)	from 12 to 20
	Extreme (0.99)	Greater than 21
Temperature (°C)	Low (0.1)	Less than 20
	Medium (0.5)	from 20 to 28
	High (0.75)	from 28 to 35
	Extreme (0.99)	Greater than 36
Humidity (%)	Low (0.1)	Greater than 40
	Medium (0.5)	from 40 to 30
	High (0.75)	from 30 to 20
	Extreme (0.99)	Less than 19

Image 05 – Fire Risk Configuration Screen

**!** The coloring of the levels on the map refers only to the conditions of the current time (Now), that is, if a specific time is selected on the timeline, they will not be reflected on the map.

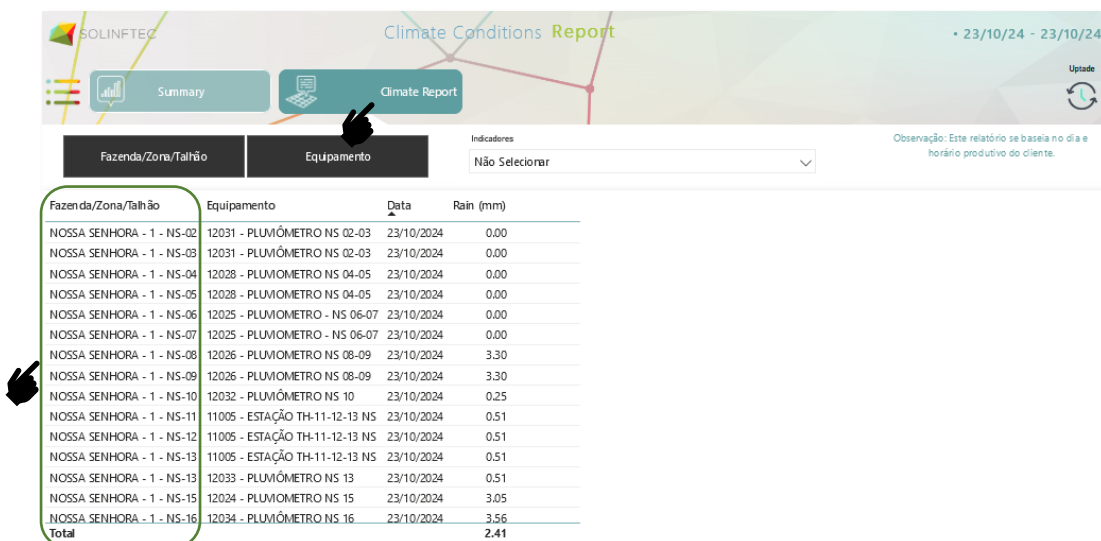
**...** Access in Top Menu > Maps / Monitoring > Top Menu on the map > Meteorology > Fire Risk and in Main Menu > Records > Settings > Fire Risk Configuration

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

## 1.1.2 PBI Reports – Climate Conditions

Improvements have been made to the PBI “Climate Conditions” Report for the Sugarcane, Grains and Perennials Verticals. Starting with this version, the “Weather Report” tab will include a new table with detailed information on the Farm, Zone, Field, Equipment, Date, and the number of occurrences of the wind direction in their respective directions.

Additionally, the nomenclature for Farm, Zone and Field has been changed. Now, the corresponding description of the farm and field will be displayed. If the customer has not registered the descriptions correctly, the codes will continue to be displayed.



Fazenda/Zona/Talhão	Equipamento	Data	Rain (mm)
NOSSA SENHORA - 1 - NS-02	12031 - PLUVIÔMETRO NS 02-03	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-03	12031 - PLUVIÔMETRO NS 02-03	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-04	12028 - PLUVIÔMETRO NS 04-05	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-05	12028 - PLUVIÔMETRO NS 04-05	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-06	12025 - PLUVIÔMETRO - NS 06-07	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-07	12025 - PLUVIÔMETRO - NS 06-07	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-08	12026 - PLUVIÔMETRO NS 08-09	23/10/2024	3.30
NOSSA SENHORA - 1 - NS-09	12026 - PLUVIÔMETRO NS 08-09	23/10/2024	3.30
NOSSA SENHORA - 1 - NS-10	12032 - PLUVIÔMETRO NS 10	23/10/2024	0.25
NOSSA SENHORA - 1 - NS-11	11005 - ESTAÇÃO TH-11-12-13 NS	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-12	11005 - ESTAÇÃO TH-11-12-13 NS	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-13	11005 - ESTAÇÃO TH-11-12-13 NS	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-13	12033 - PLUVIÔMETRO NS 13	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-15	12024 - PLUVIÔMETRO NS 15	23/10/2024	3.05
NOSSA SENHORA - 1 - NS-16	12034 - PLUVIÔMETRO NS 16	23/10/2024	3.56
<b>Total</b>			<b>2.41</b>

Image 06 – “Climate Report” tab displaying the corresponding farm and field description

Climate Conditions Report 23/10/24 - 23/10/24

Summary Climate Report

Fazenda/Zona/Talhão Equipamento Indicações Não Selecionar

Observação: Este relatório se baseia no dia e horário produtivo do cliente.

Fazenda/Zona/Talhão	Equipamento	Data	Rain (mm)
NOSSA SENHORA - 1 - NS-02	12031 - PLUVIÔMETRO NS 02-03	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-03	12031 - PLUVIÔMETRO NS 02-03	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-04	12028 - PLUVIÔMETRO NS 04-05	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-05	12028 - PLUVIÔMETRO NS 04-05	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-06	12025 - PLUVIÔMETRO - NS 06-07	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-07	12025 - PLUVIÔMETRO - NS 06-07	23/10/2024	0.00
NOSSA SENHORA - 1 - NS-08	12026 - PLUVIÔMETRO NS 08-09	23/10/2024	3.30
NOSSA SENHORA - 1 - NS-09	12026 - PLUVIÔMETRO NS 08-09	23/10/2024	3.30
NOSSA SENHORA - 1 - NS-10	12032 - PLUVIÔMETRO NS 10	23/10/2024	0.25
NOSSA SENHORA - 1 - NS-11	11005 - ESTAÇÃO TH-11-12-13 NS	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-12	11005 - ESTAÇÃO TH-11-12-13 NS	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-13	11005 - ESTAÇÃO TH-11-12-13 NS	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-13	12033 - PLUVIÔMETRO NS 13	23/10/2024	0.51
NOSSA SENHORA - 1 - NS-15	12024 - PLUVIÔMETRO NS 15	23/10/2024	3.05
NOSSA SENHORA - 1 - NS-16	12034 - PLUVIÔMETRO NS 16	23/10/2024	3.56
Total			2.41

Fazenda/Zona/Talhão	Norte	Nordeste	Leste	Sudeste	Sul	Sudoeste	Oeste	Noroeste	Total
NOSSA SENHORA - 1 - NS-02	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-03	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-06	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-07	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-08	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-10	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-11	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-12	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-13	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-14	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-15	3	2	5	4	1				15
NOSSA SENHORA - 1 - NS-16	3	2	5	4	1				15
Total	799	487	534	506	90	203	480	319	3418

Image 07 – “Climate Report” tab displaying the new table with the number of occurrences of wind direction in their respective directions



Go to Main Menu > Reports > PBI > Climate > Climate Conditions > Climate Report

Tab



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

### 1.1.3 PBI Reports – Sugarcane, Grains and Perennials

Improvement made to PBI Reports to include the time when the environment's productive day is broken. The time is displayed next to the date, in the upper right corner of PBI Reports. Below are the reports that received the update:



### Sugarcane Vertical

General Daily  
Operational Adequation  
Operational Realization  
Tramplng  
Working Area

### Grains Vertical

Operational Diary  
Operational Ranking  
Operational Realization  
Operating Variables  
Solix  
Working Area

### Perennials Vertical

Operational  
Efficiency  
General Daily  
Operator Ranking  
Dynamic Report  
Working Area

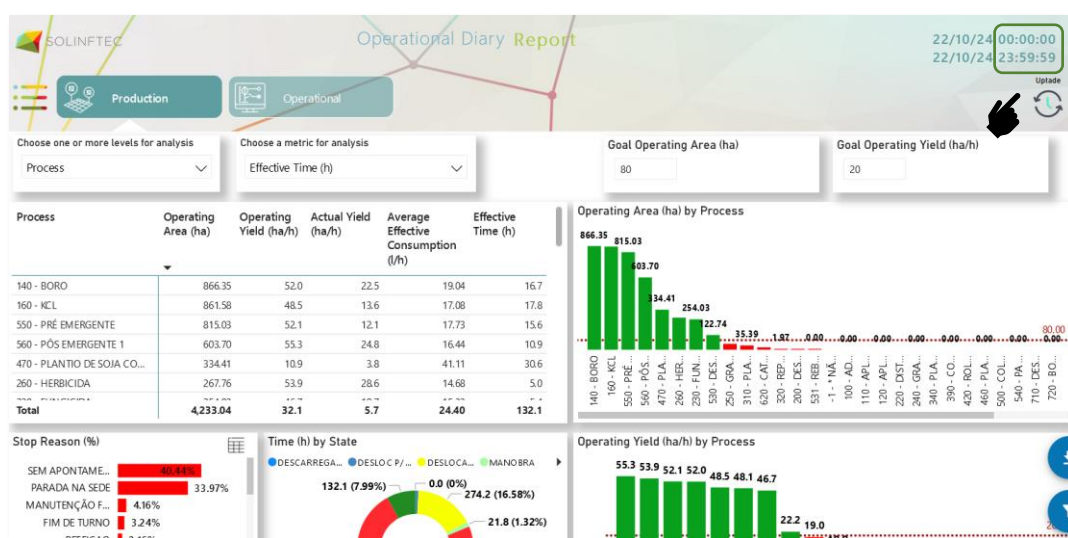


Image 08 – “Operational Diary” report showing the break time of the environment’s productive day

Go to Main menu > Reports > PBI

Available for the Sugarcane, Grains and Perennials Vertical Environments.

## 1.1.4 PBI Reports – Supply Report

Improvements have been made to the PBI “Supply” Report for the Grains Vertical. As of this version, the “Supply Type” column is displayed in the table on the “Report” tab.

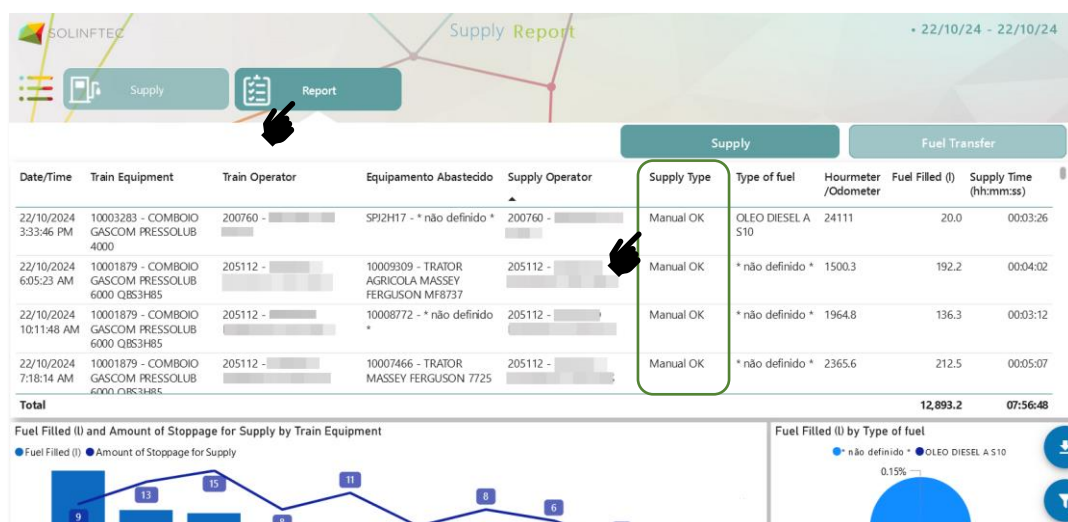


Image 09 – New “Supply Type” column in the Grains Vertical Supply report



Go to Main Menu > Reports > PBI > Supply > Report Tab > Supply Type Column



Available for Grains Vertical Environments that have the “GDC – Fuel Management” solution active.

### 1.1.5 PBI Reports – Harvest Planning (Grains)

Improvement made to the PBI Report “Harvest Planning”, from Grains Vertical. As of this version, it was implemented to consider 100% of the target achieved when the result of the total planned with the Worked Area is between the range of 97% and 100%.

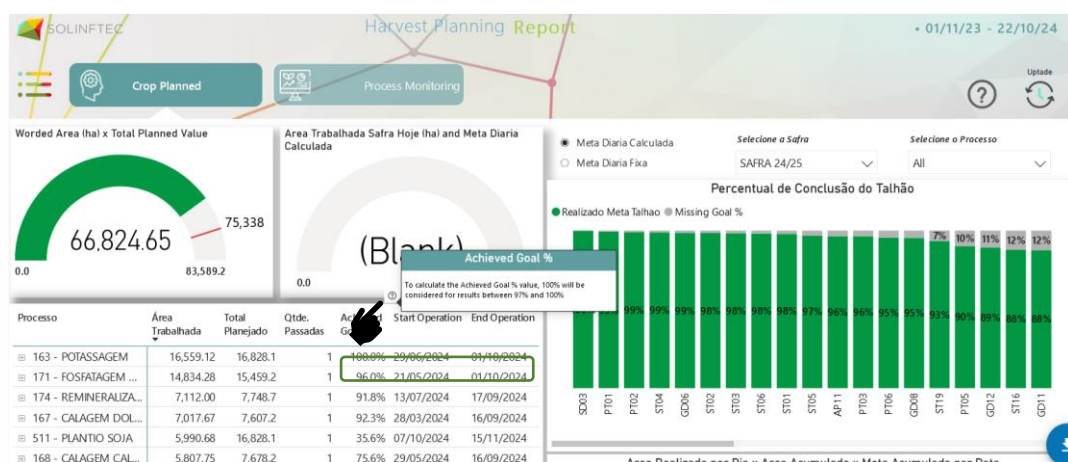


Image 10 – “Harvest Planning” report displaying the message “Achieved Target %” in the “Harvest Planning” tab

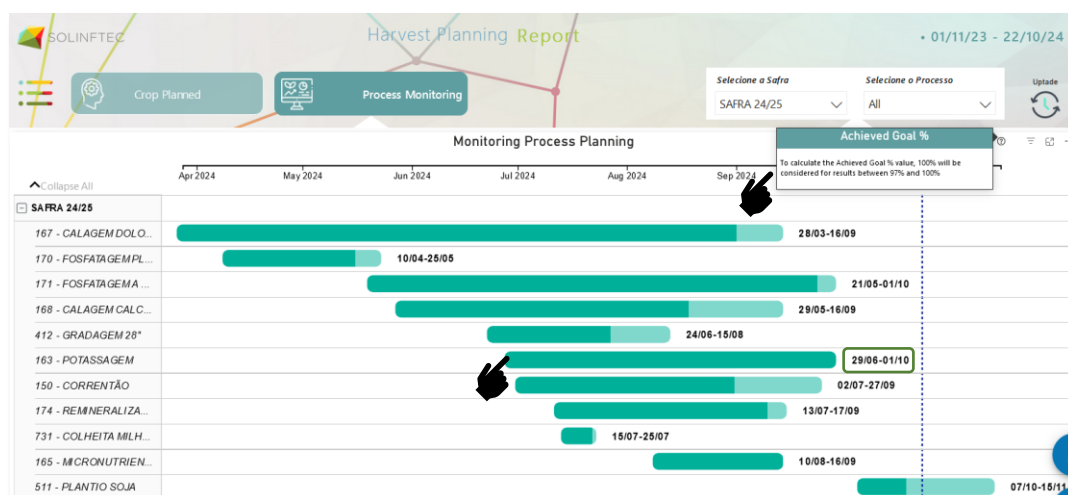


Image 11 – “Harvest Planning” report displaying the message “Achieved Target %” in the “Process Monitoring” tab



Go to Main menu > Reports > PBI > Harvest Planning



Available for the Grains Vertical Environments that have the extra report “Harvest Planning”.

### 1.1.6 PBI Reports – Benchmark LTT

Improvement made to in the PBI Report “Benchmark LTT”, from Perennials Vertical, to change the cut-off rule for indicators. As of this version, for the indicators “Coefficient of Variation of Effective Average Speed (km/h)” and “Coefficient of Variation of RPM”, only values above 90% will be considered outliers, eliminating the analysis of minimum outliers.

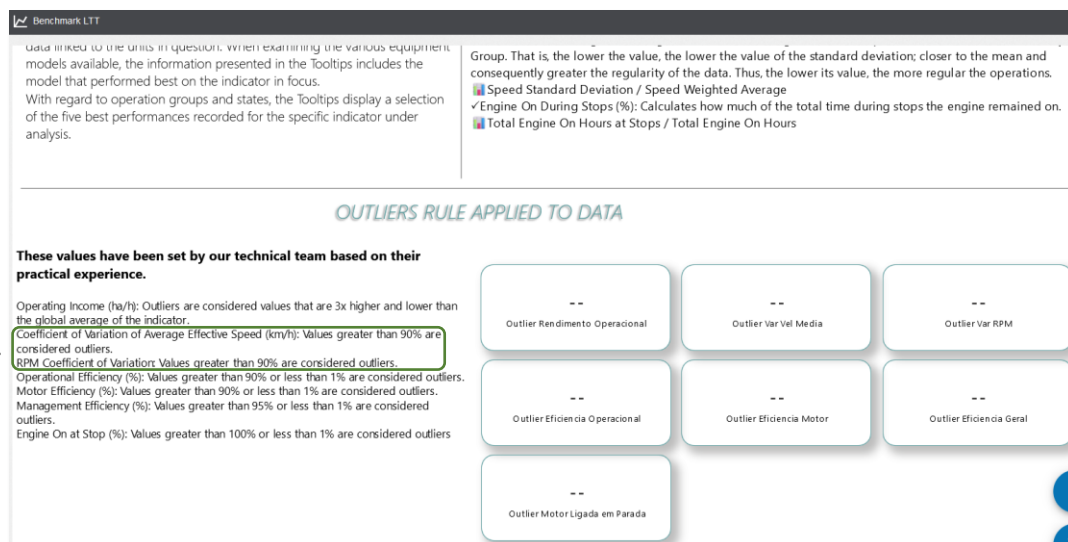


Image 12 – “Benchmark LTT” report showing new cut-off rule for the indicators “Coefficient of Variation of Average Effective Speed (km/h)” and “Coefficient of Variation of RPM”



Go to Main Menu > Reports > PBI > Benchmark Menu > Benchmark LTT



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

### 1.1.7 PBI Reports – Efficiency Report (Perennials)

Improvement made to the PBI “Efficiency” Report, from the Perennial Vertical. Changes were made to the display of values on cards, removing the thousands formatting, so as not to affect the display in cases of smaller numbers.

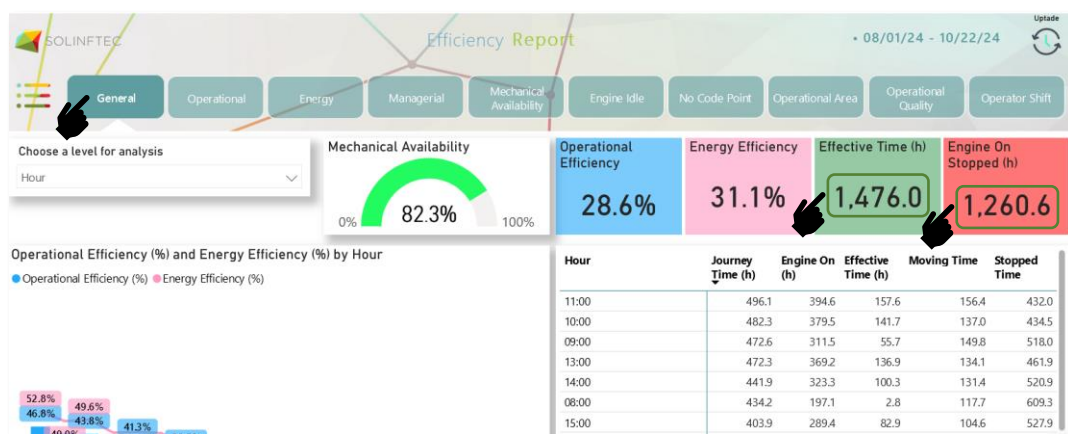


Image 13 – “Efficiency” report does not display values in thousands format



Go to Main menu > Reports > PBI > Operational Reports > Efficiency



Available for Perennial Vertical Environments

*In case of doubt or further clarification, please contact us via email  
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