

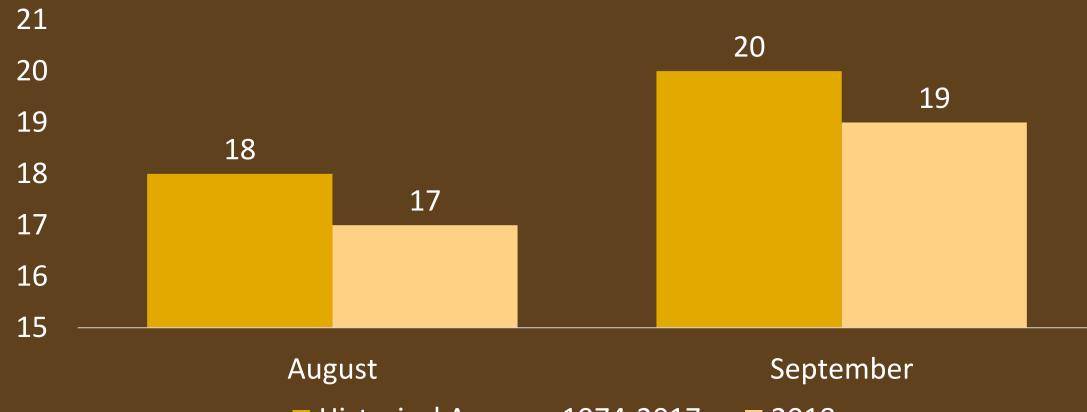
# Introduction

 Cocatrel with a good capillarity, 8 warehouses we are in more than 90 cities in all over South of Mina's coffee belt, so with the collaboration of our Agronomic departments (32 agronomists) we supply monthly crop reports in order to help our main partners.



## Temperature

### Average in South of Minas in Degrees Celcius



Historical Average 1974-2017 2018



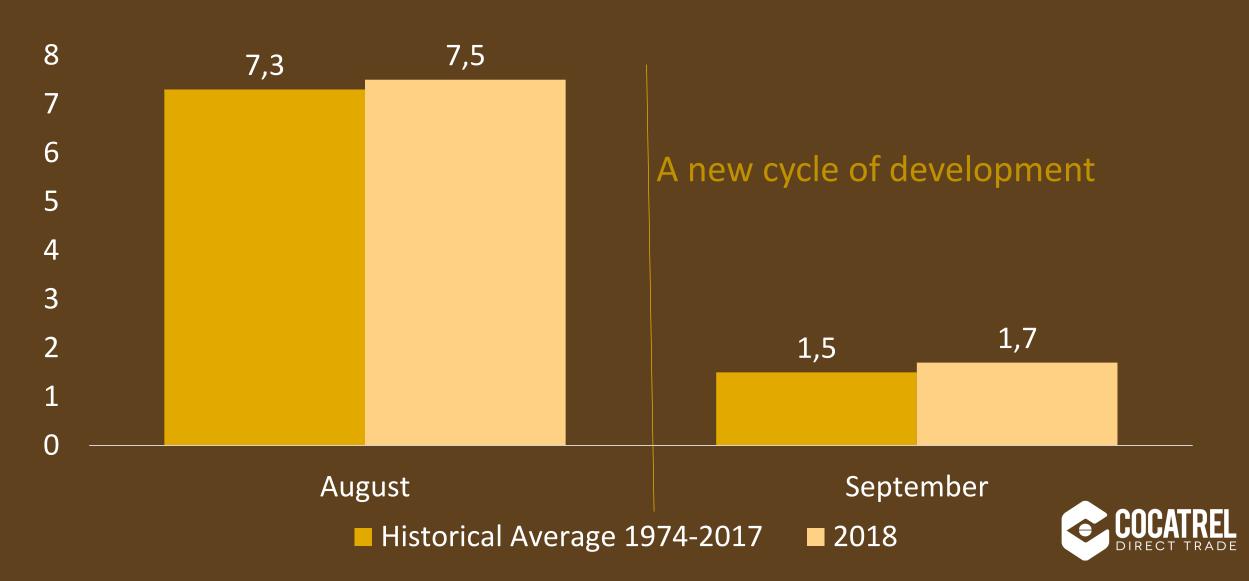
## Temperature

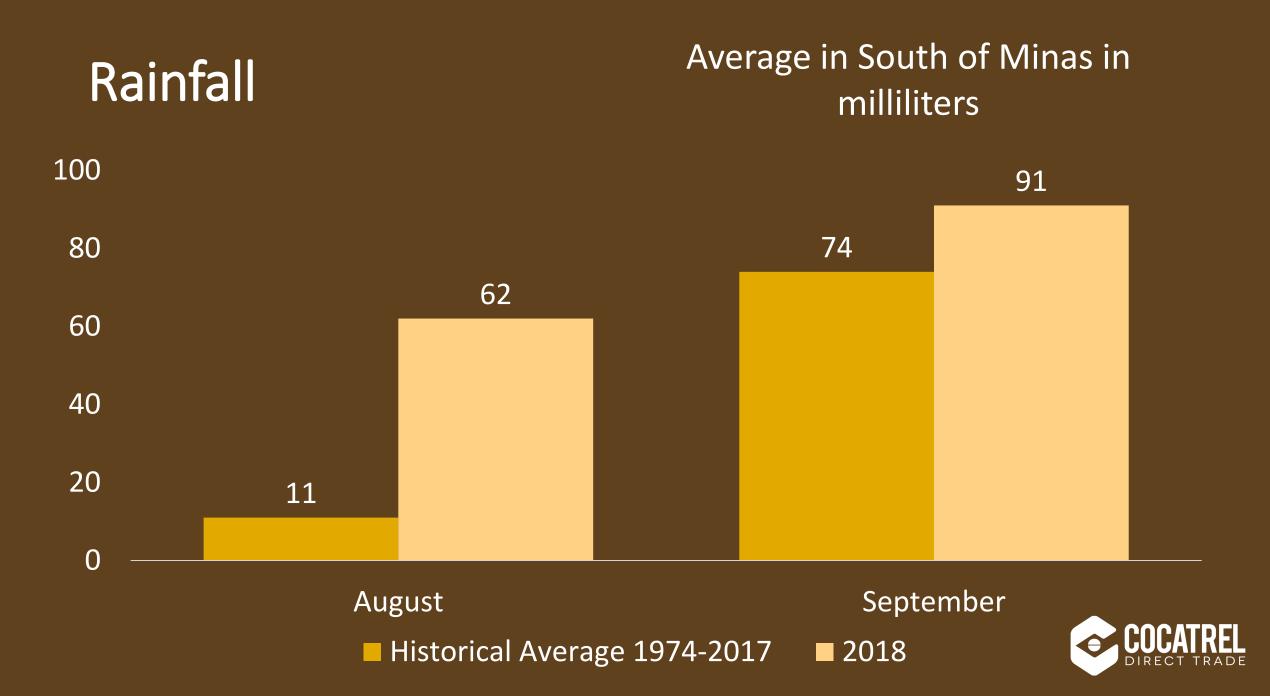
• The average temperature in the South of Minas in 2018 is 1 degree Celsius less than the Historical average from 1974 - 2017.



# **Development of branches**

Average in South of Minas in number of Internodes





# Rainfall

- The volume of rain during the month of August was 7 times the historical average up to September. This saw an increment of 30%.
- To much rain in August at the end of the harvest resulted in coffee being left on the ground which could lead to an increase in Coffee Berry Borer in 2019
- The Blooming season is not as uniform as last year so the maturation in 2019 will not be as synchronized.



The Blooming season is not as uniform as last year so the maturation in 2019 will not be as synchronized

### 2017-2018



One large bloom in September - October Good Development with Small % of abortion in the first phase

Maturation pretty uniform



The Blooming season is not as uniform as last year so the maturation in 2019 will not be as synchronized

### 2018-2019



First Blooming in	Second Blooming in	Last Blooming in	Jan
August	Sep-Oct	November	Non uniform maturation



# Rancho Grande Estate 06/11/2018

• The blooming season is not as uniform resulting in a less synchronized maturation





### **SIDE EFECTS**

Coffee Berry Borer
BIG % of abortion at the First phase of the bean development



# **Coffee Berry Borer**

- To much rain in August (end of Harvest) resulted in coffee being left on the ground. This could leave to an increase in coffee berry borer in 2019
- The period of control starts 90 days after the first flowering. With three different flowering dates there will need to be three control periods to manage this.
- This will make controlling the problem very difficult with the pesticides available in the market to counter this.



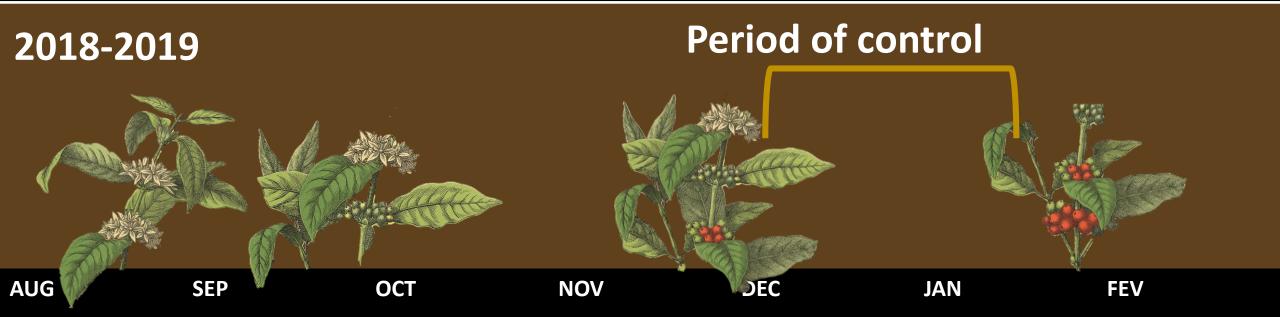


### 2017-2018

#### Period of control

COCATREL





## BIG % of abortion at the First phase of the bean development

- A large % of nutrients will be absorbed in the first phase of bean development from the primary flowering.
- Evaluations from coffee producers and our agronomist engineers across the South of Minas, report this will leave the latter maturation of cherry (2nd & 3rd flowering) exposed to bacterial & fungal attack.





# Overview

 The crop is already estimated to be 20% lower that the 18/19 harvest cycle due to the natural biannual up & down cycles. with the irregular development and a high incidence of pest and diseases during development may further negatively affect the availability of ready to export coffees.







## Gabriel Miari Brito Agronomist