

BEHIND

THE ROAST

—— With Willem Boot

OPTIMIZING ROASTING PROFILES WITH THE GIESEN ROAST PROFILER SUMMARY

What is a profile?

A profile describes how a coffee was roasted with what type of parameters. With a roasting profile you can compare the plan vs. the outcome.

Requirements to use a digital roasting tool

- Know the terminology. Know what each term means and how they relate to each other
- Describe the variables that must be considered when roasting
- Identify the essential elements of time, heat application, sensory milestones, and temperatures to create a roast profile
- Review the Giesen Profiler software using an actual roasting example

What are the benefits of a roasting profile?

A roasting profile helps with...

- Improving your consistency
- Quality control; link the information from your cupping with the roast profile
- Learning the techniques of roasting
- Sharing information with others
- Efficiency
- Profitability because of consistency
- Improving your coffee quality

Before you start roasting

Write down what your key parameters and setpoint are.

Considerations before roasting

- Room Temperature
 - Ambient temperature affects inlet air
 - Ambient temperature affects bean temperature

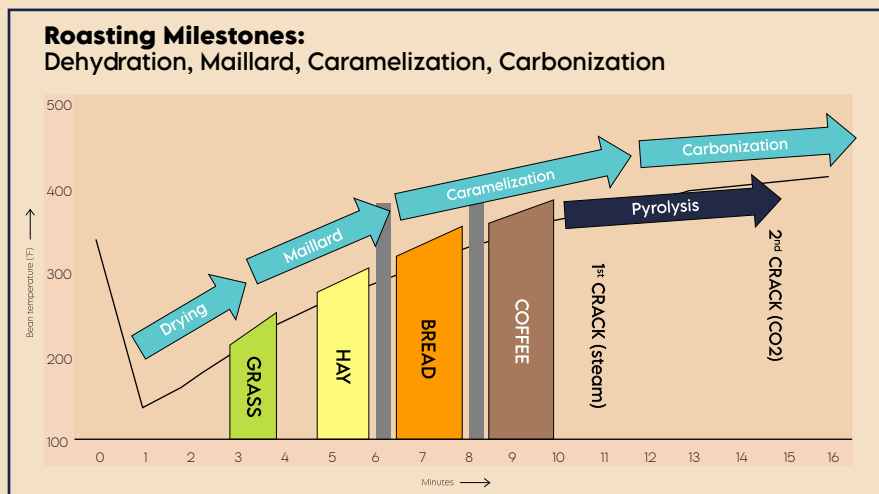
- Humidity
 - Affects bean moisture content
 - Affects heat transfer in the roaster
- Sequence of roasting
- What kind of cupping form are you going to use?

Green coffee measurements tools

- Green bean sizing screens
- Defect indication
- What is the moisture of the coffee and the density
- Water activity of the coffee

During the roast

Understand through which cycles the coffee roasting flows. Below you can see the different stages.



Observations during the roast

What is the...

- Charge Temperature
- Bean Temperature curve
- Rate of Temperature Change
- Exhaust Temperature
- Heat Application
- Turnaround Point
- Color Change
- Start of First Crack
- Start of Second Crack
- Gas & Airflow Control Changes

All of these observations can be done visually, but using a digital tool really helps you to compare roast against one another.