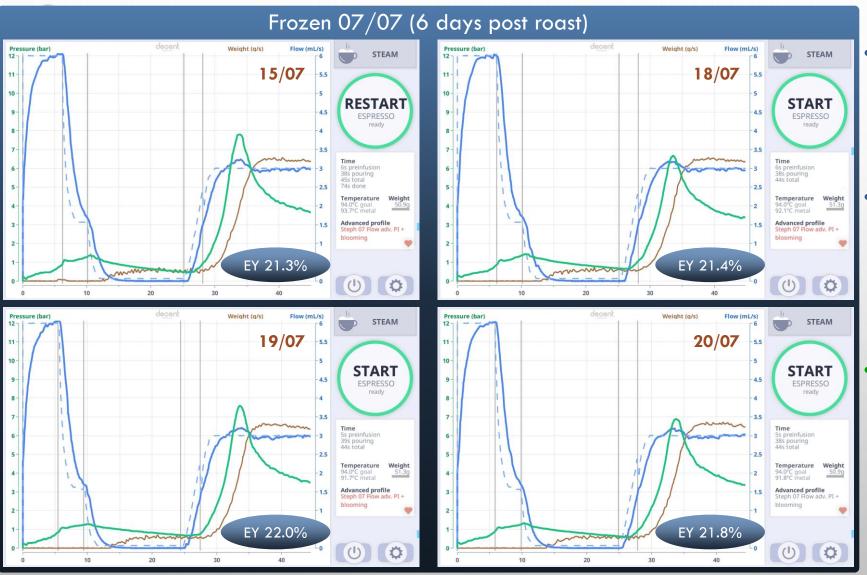


GRINDING FROZEN BEANS FOR ESPRESSO

MORE CONSISTENT EXTRACTIONS – MORE RESISTANCE TO WATER FLOW FREEZING X WEEKS POST ROAST GIVES THE BEST TASTE RESULTS!

STÉPHANE RIBES – JULY 2019

GRINDING FROZEN BEANS FOR ESPRESSO MORE CONSISTENT EXTRACTIONS



- Same grind setting, extraction parameters and workflow every day (1 single shot/day with these parameters)
- Friedhats Coffee Roasters Kochere Boji (natural Yirgacheffe) – Roasting 01/07 (filter roast) – Frozen 07/07 – 18.5g dose in a 22g VST basket
- Limited variations in extraction pressure and extraction yield

 \rightarrow lower need for dialing in once a tasty recipe has been established!

GRINDING FROZEN BEANS FOR ESPRESSO MORE RESISTANCE TO WATER FLOW



- 2 shots performed in a row (27/07)
 with unchanged settings
- Terres de Café Chania Estate French Mission (natural Kenyan) – Roasting 16/07 (filter roast) – 14g dose in a 15g VST basket
- With frozen beans a coarser grind is sufficient to reach a given extraction pressure

 \rightarrow limitations of some grinders will arise later (e.g. poor grind quality when very fine grind is used)

3

GRINDING FROZEN BEANS FOR ESPRESSO SIMPACT OF THE RESTING TIME BEFORE FREEZING (1/2)

STEAM

START

ESPRESSO

30s pouring 35s total

Temperature

Advanced profile

(U) 🔅

STEAM

START

ESPRESSO

31s pouring 36s total

Temperature

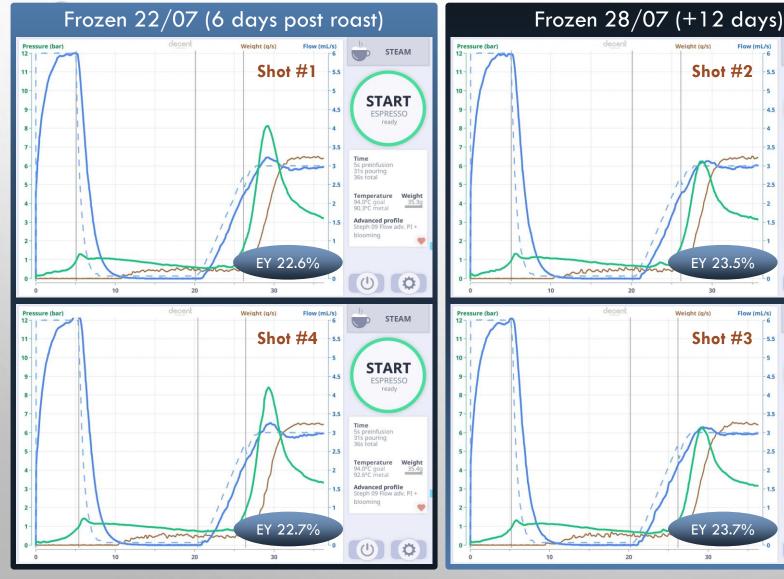
Advanced profile

(U) 🗘

Weigh

- 5.5

Weigh



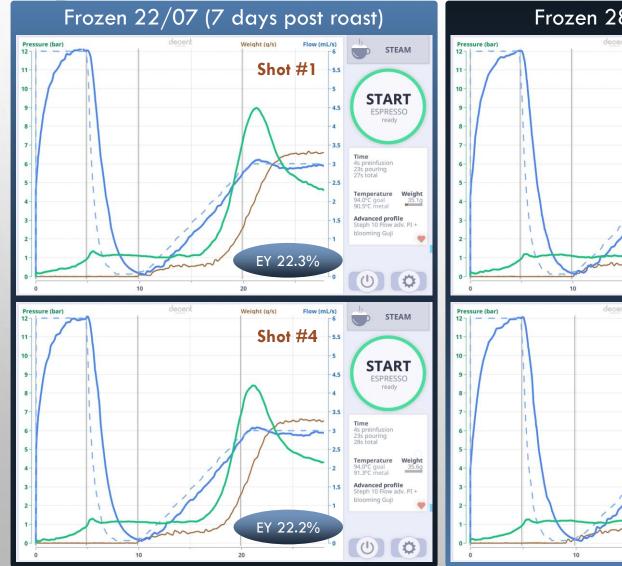
Terres de Café – Chania Estate French Mission (natural Kenyan) -Roasting 16/07 (filter roast) – 14g dose in a 15g VST basket Lower extraction pressure peak with

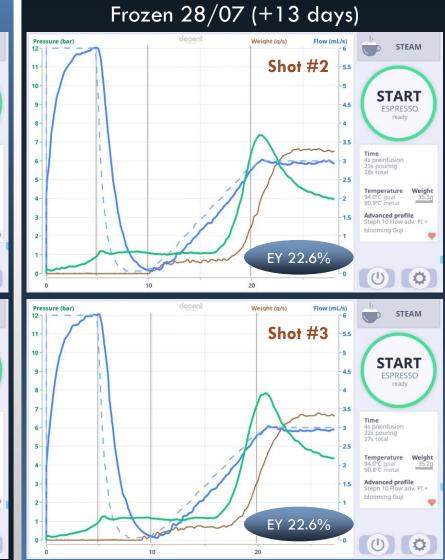
with unchanged settings

4 shots performed in a row (29/07)

- 6 additional resting days after roasting
- Higher extraction yield
- More (pleasant) acidity

GRINDING FROZEN BEANS FOR ESPRESSO IMPACT OF THE RESTING TIME BEFORE FREEZING (2/2)





- 4 shots performed in a row (30/07) with unchanged settings
- Terres de Café Guji Highland Bio (natural Ethiopian) – Roasting 15/07 (filter roast) – 14.5g dose in a 15g VST basket
- Slightly lower extraction pressure peak with 6 additional resting days after roasting
- Slightly higher extraction yield
- More tasty, sweeter shots

GRINDING FROZEN BEANS FOR ESPRESSO DETAILED TEST PROCEDURE

- Decent Espresso Machine DE1PRO v1.1 with IMS SI 200 IM shower screen
- Mahlkönig EK43 S grinder
- Montille water (Le Mont Dore, France) adjusted to SCAA with sodium carbonate and Epsom salts
- Beans were ground in a double wall stainless steel cup
- WDT in the cup with a mini whisk
- 55 mm diameter Camlab paper filter below the coffee grinds no preliminary wetting of the filter
- WDT in the basket with a mini whisk gentle raking of the puck surface with the hog no taps
- Hog tool 0.8 mm diameter spikes ("thin" Hog) in and out of the puck (with hog stand to ensure a straight vertical movement)
- Manual tamp with a 58.6 mm diameter tamper
- TDS measurements: Atago PAL zeroed with SCAA water no additional filtering of the coffee samples all samples measured at room temperature after thorough agitation 1 data point = average of 3 or 4 measurements of each coffee sample

