2017 Ripening dynamics in Napa

Berry active sugar loading
Berry volume evolution
Harvest position

Nicolas BERNARD





Berry active sugar loading

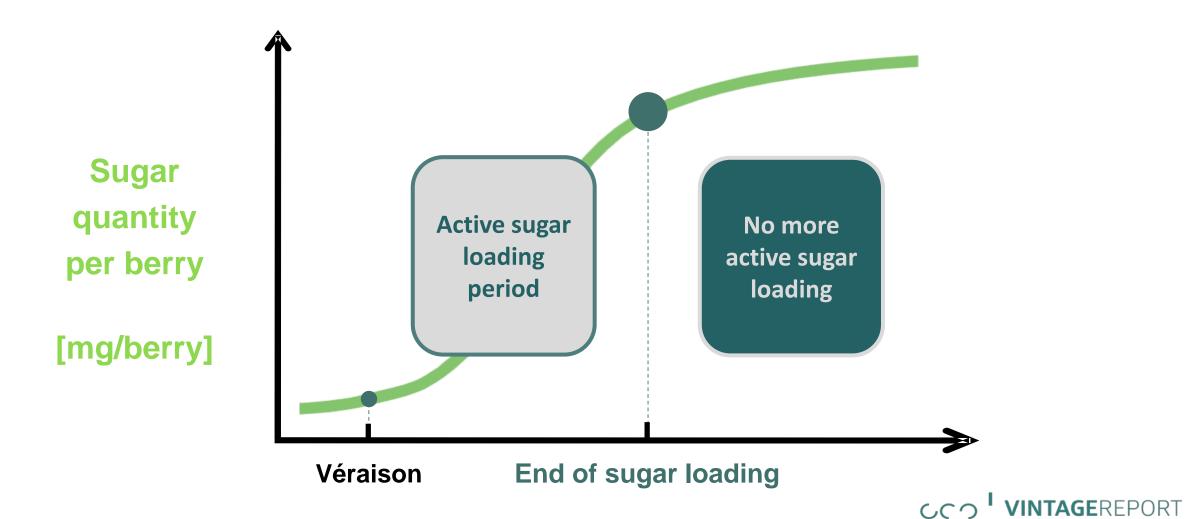


The berry sugar loading

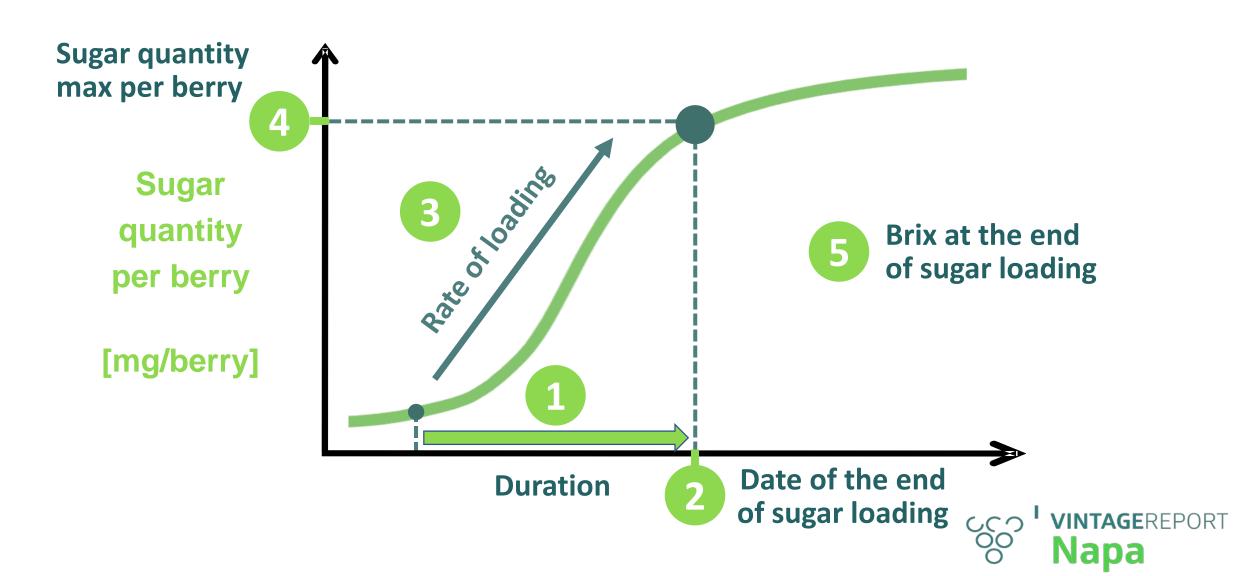
= sugar quantity per berry evolution



The berry sugar loading curve



The 5 data of berry sugar loading

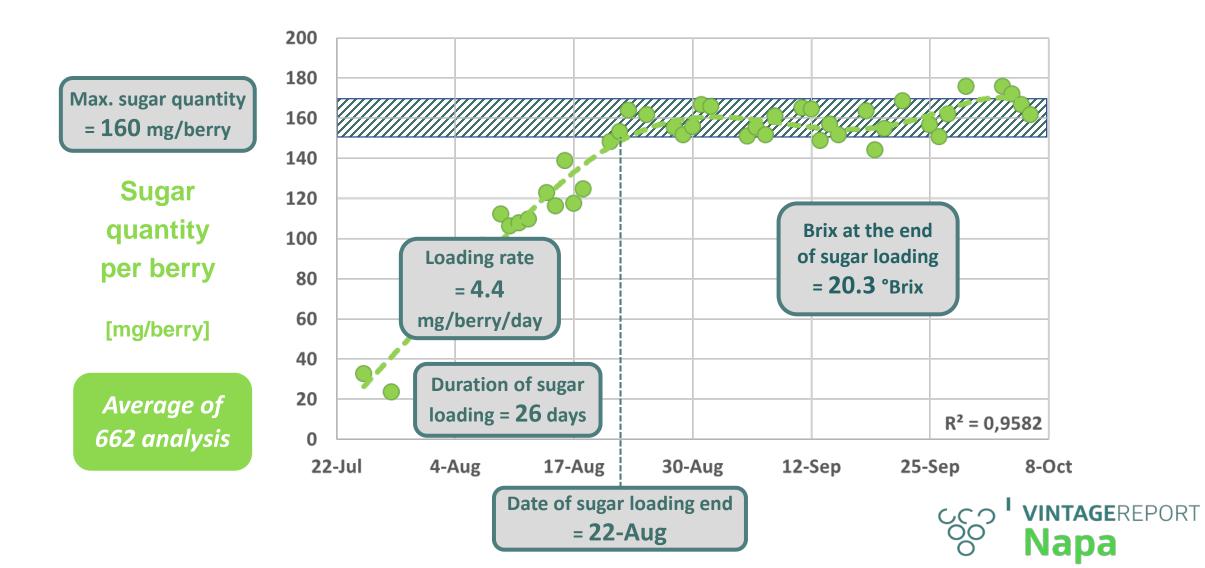


Average values of the last 5 years in California

	CABERNET SAUVIGNON	MERLOT	SAUVIGNON BLANC
Maximum sugar quantity per berry (mg/berry)	190	238	314
Rate of loading during the first phase (mg/berry/day)	4.2	5.4	7.6
Duration of sugar loading (days)	36	35	35
Average date of sugar loading end	Aug-25	Aug-29	Aug-21
Brix at the end of sugar loading (° Brix)	21.1	21.8	22.4



2017 Cabernet Sauvignon sugar loading in Napa



2017 Cabernet Sauvignon vs 2016 & 2015

	CS Napa 2017	CS Napa 2016	CS Napa 2015
Maximum sugar quantity per berry (mg/berry)	160	175	172
Rate of loading during the first phase (mg/berry/day)	4.4	3.5	4.1
Duration of sugar loading (days)	26	35	29
Average date of sugar loading end	22-Aug	18-Aug	12-Aug
Brix at the end of sugar loading (° Brix)	20.3	21.1	20.9

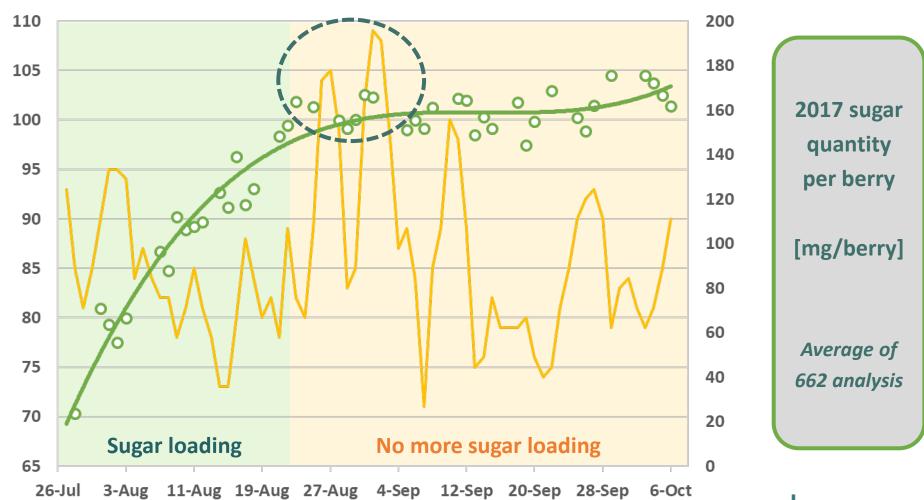


2017: a shorter period of sugar loading

Maximum
Temperature
[°F]
in Oakville

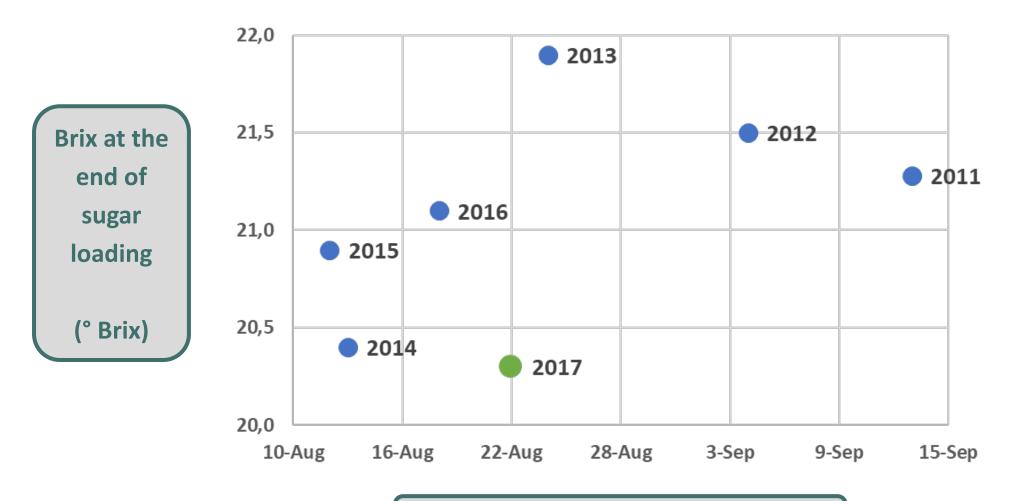
Source: University of California

http://cenapa. ucanr.edu





2017: lower Brix at the end of sugar loading



Date of the end of sugar loading



2017 Sugar loading conclusions (CS, Napa)

Strong impact of the heat wave last week of August

- → A shorter period of sugar loading (one missing week)
 - 10 % less sugar per berry
 - 0.7° Brix lower at the end of sugar loading (vs 2015 & 2016)

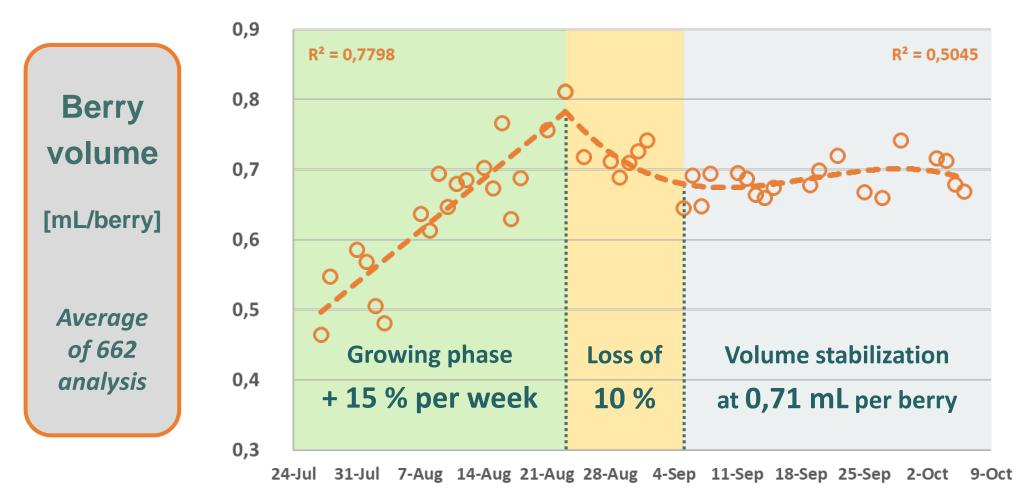
→ Despite a higher rate of loading during the sugar loading period



Berry volume evolution

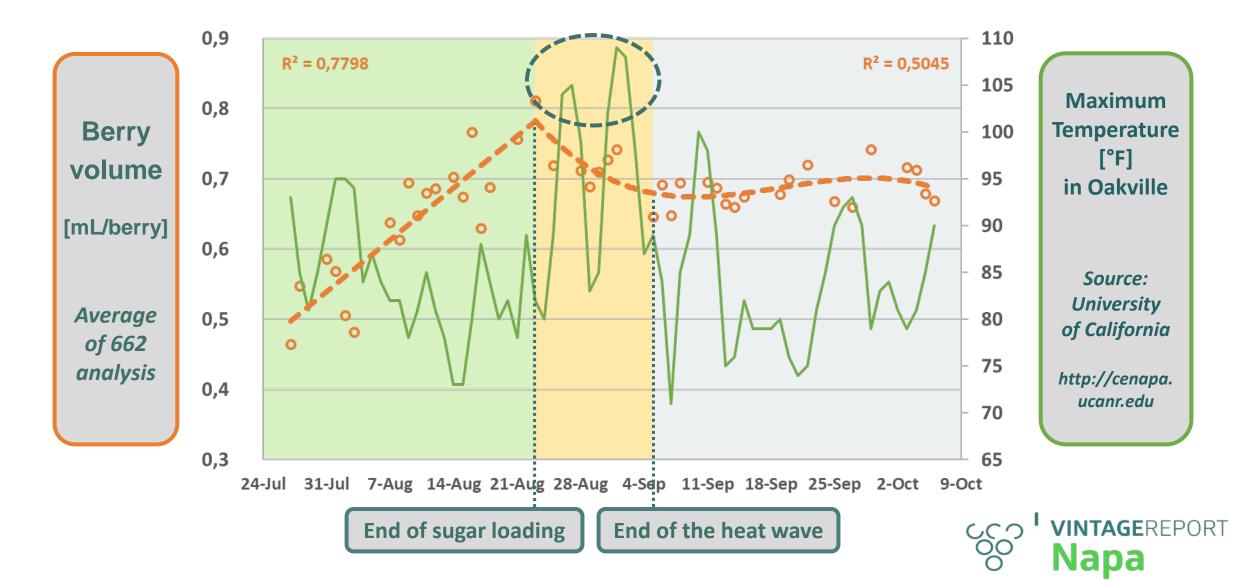


2017 Cabernet Sauvignon berry volume in Napa

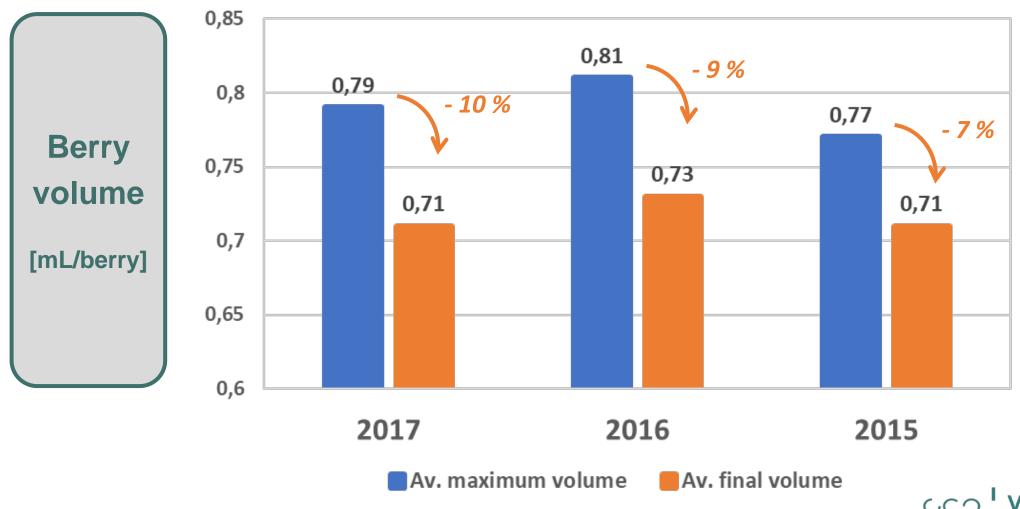




2017 Cabernet Sauvignon berry volume in Napa



2017 Cabernet Sauvignon vs 2016 & 2015





2017 Berry volume conclusions (CS, Napa)

Strong impact of the heat wave last week of August

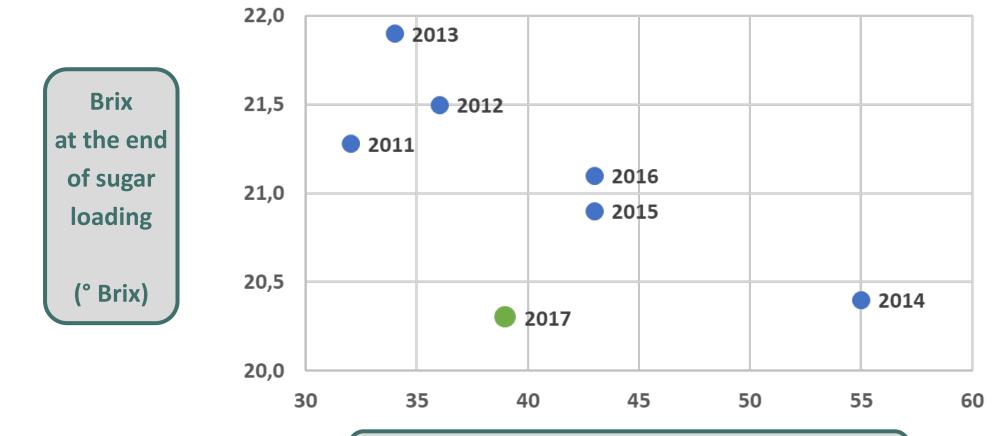
- → loss of 10 % of berry volume
- → but final berry volume similar to 2016 & 2015 (0,7 mL / berry)
- → thanks to a strong increase during the first phase (+ 15 % per week, vs 10-12 % per week in general)



Harvest position



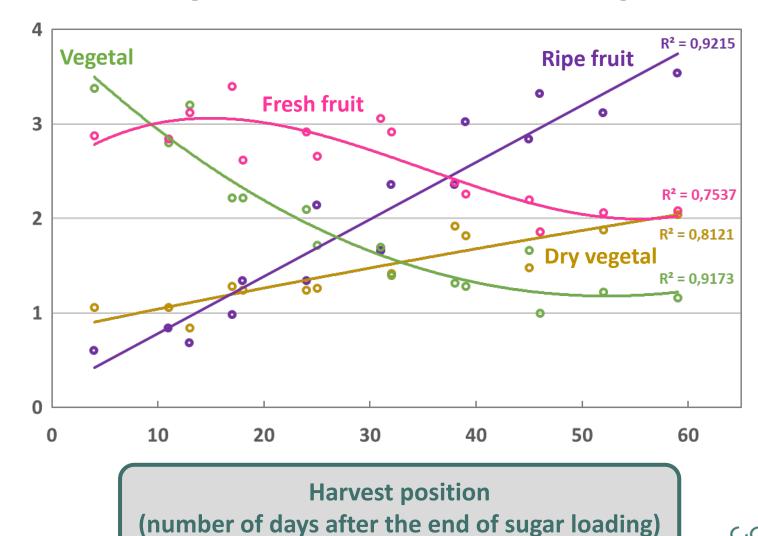
2017 Cabernet Sauvignon Harvest position





Wine aromatic profile & Harvest position

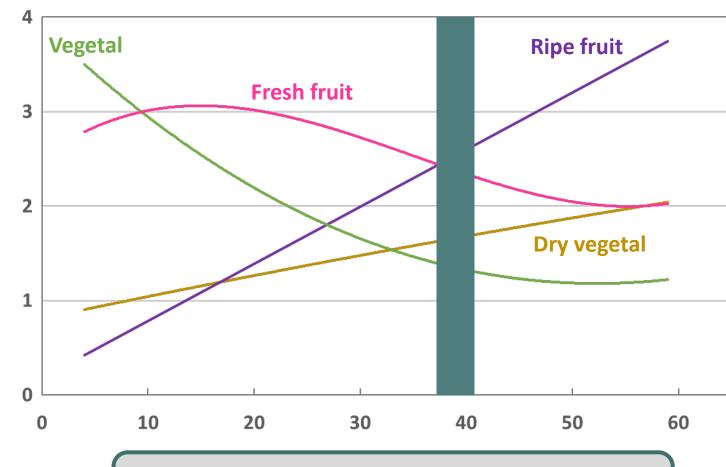
Tasting grade





2017 Cabernet Sauvignon Harvest position

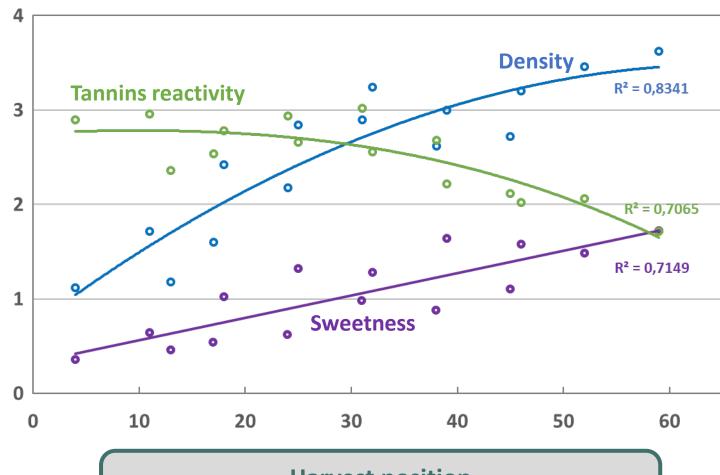






Wine mouthfeel profile & Harvest position

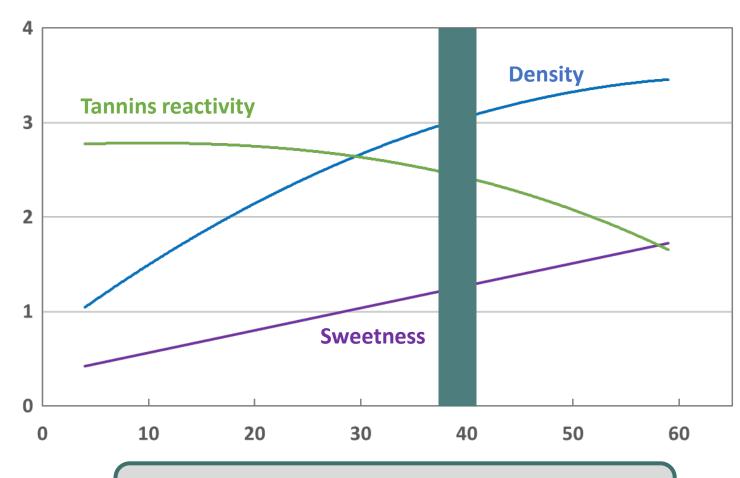
Tasting grade





2017 Cabernet Sauvignon Harvest position







2017 Harvest position conclusions (CS, Napa)

→ A lower grape potential due to a shortened sugar loading

→ A position of harvest closer to the end sugar loading, comparing with 2016 & 2015



Thank you for your attention