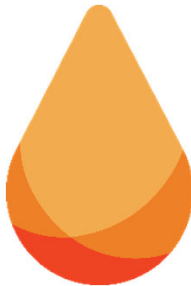


The division dedicated to plant protection, stimulation
and nutrition

**BUILT^{on}
TRUST**

- ✓ Yeast **fermentation** metabolites : next generation technology
 - ✓ **Industrial** scale & quality
 - ✓ Answer a clear need : mitigate **abiotic stress**
 - ✓ Clear crop positioning : secure **flowering**
 - ✓ Back up with **research** : mode of action well documented
 - ✓ Proven technology : clear product **benefits**
 - ✓ **Sustainable** and suitable for **organic** production (OMRI listed)
- 

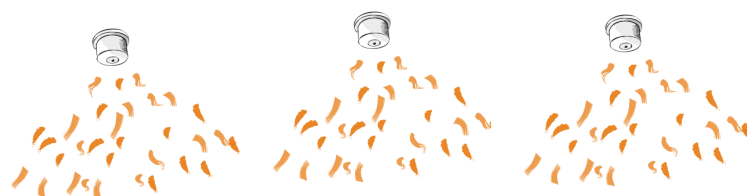
- ✓ Product efficiency is maximized around flowering in order to secure this critical period

→ BBCH 55 – 57

→ BBCH 65

→ BBCH 71

 Smartfoil®  Smartfoil®  Smartfoil®



1.5 qt/a



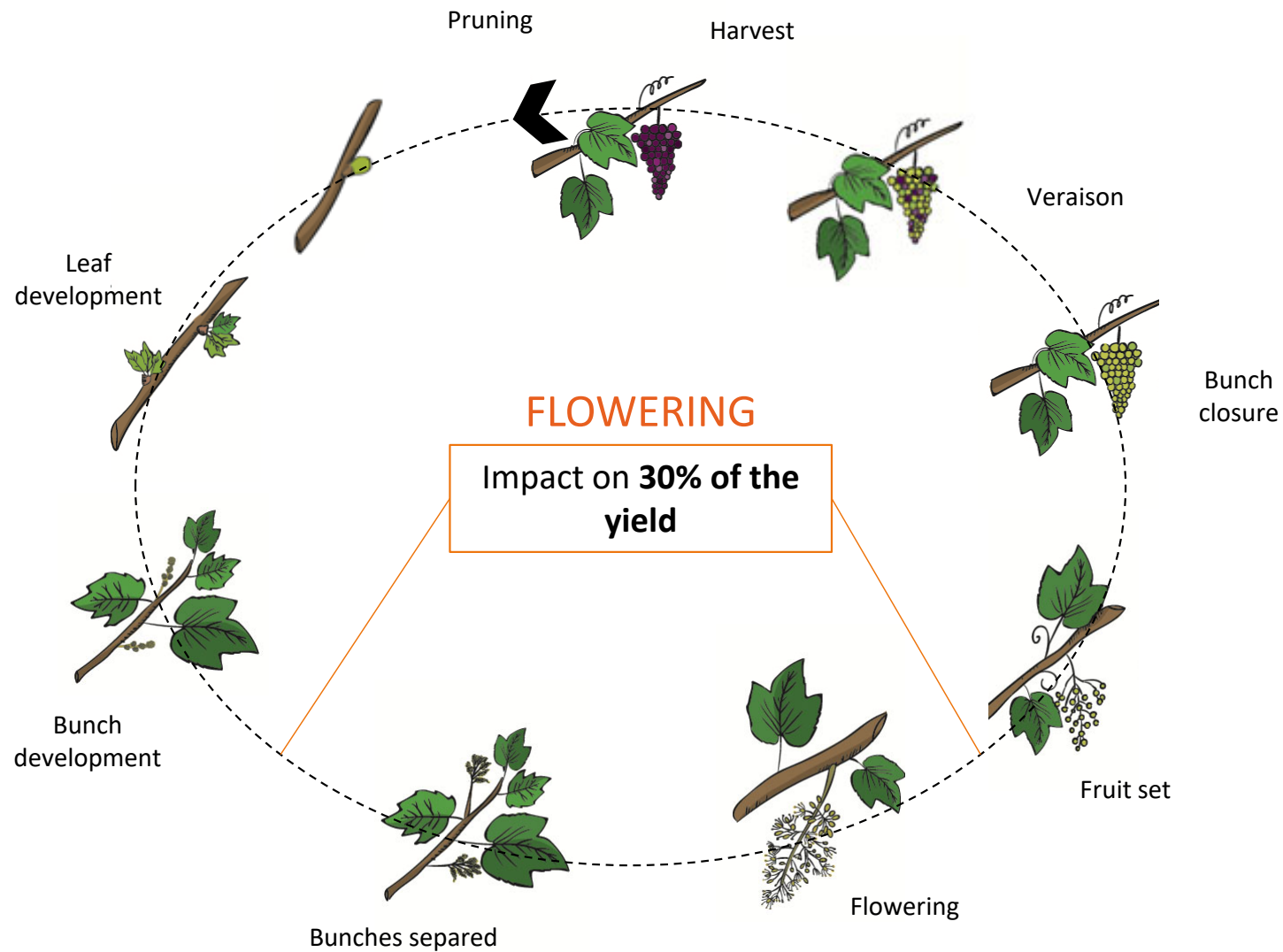
BBCH 50

BBCH 60

BBCH 65

BBCH 71

BBCH 80

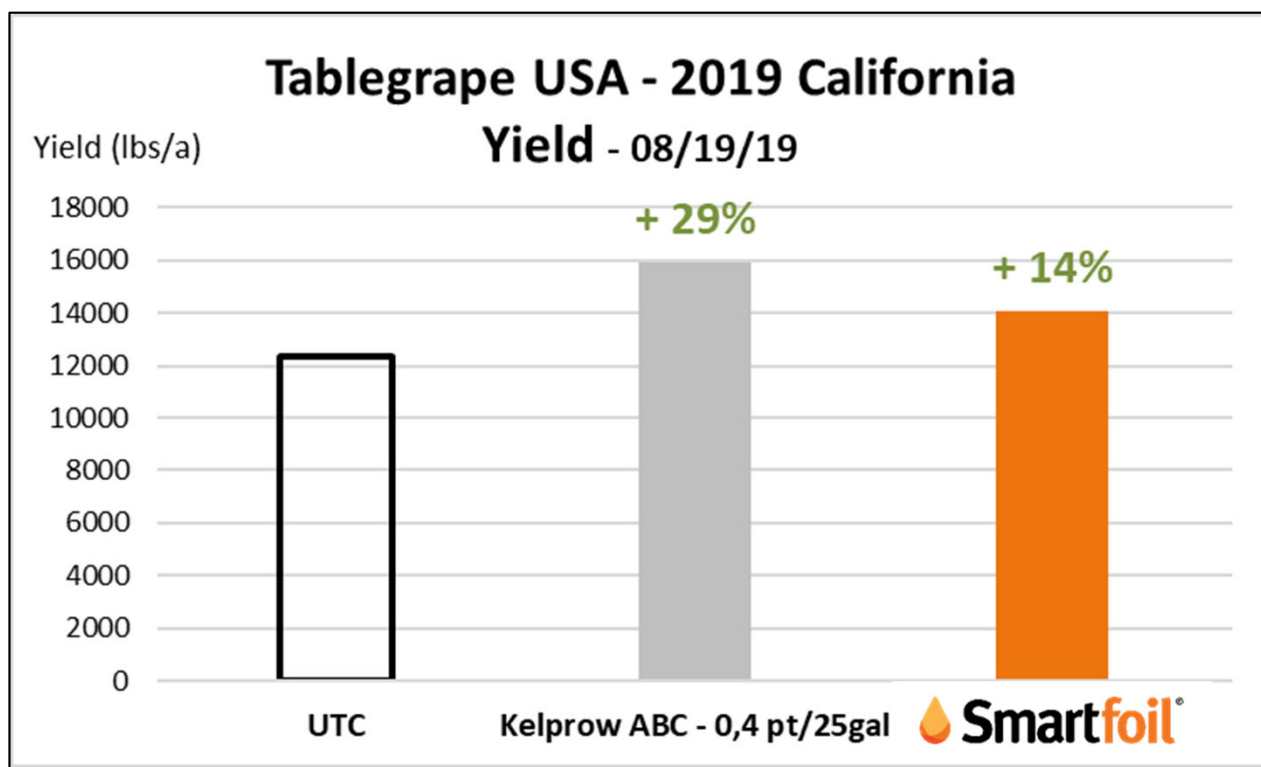


Linked to the number of berries / bunch
→ Negative impact on flowers and fruits abortion

US DATA



- ✓ Location : USA, California, Dinuba
- ✓ Variety: Ruby Seedless
- ✓ Application A : early bloom stage (BBCH 57), water 50 gal/a, 04/21/2019
- ✓ Application B : mid bloom stage (BBCH 66) water 75 gal/a, 05/07/2019
- ✓ Application C : fruit setting (BBCH 73) water 100 gal/a, 05/24/2019
- ✓ 5 replicates



Good efficacy of products on yield:

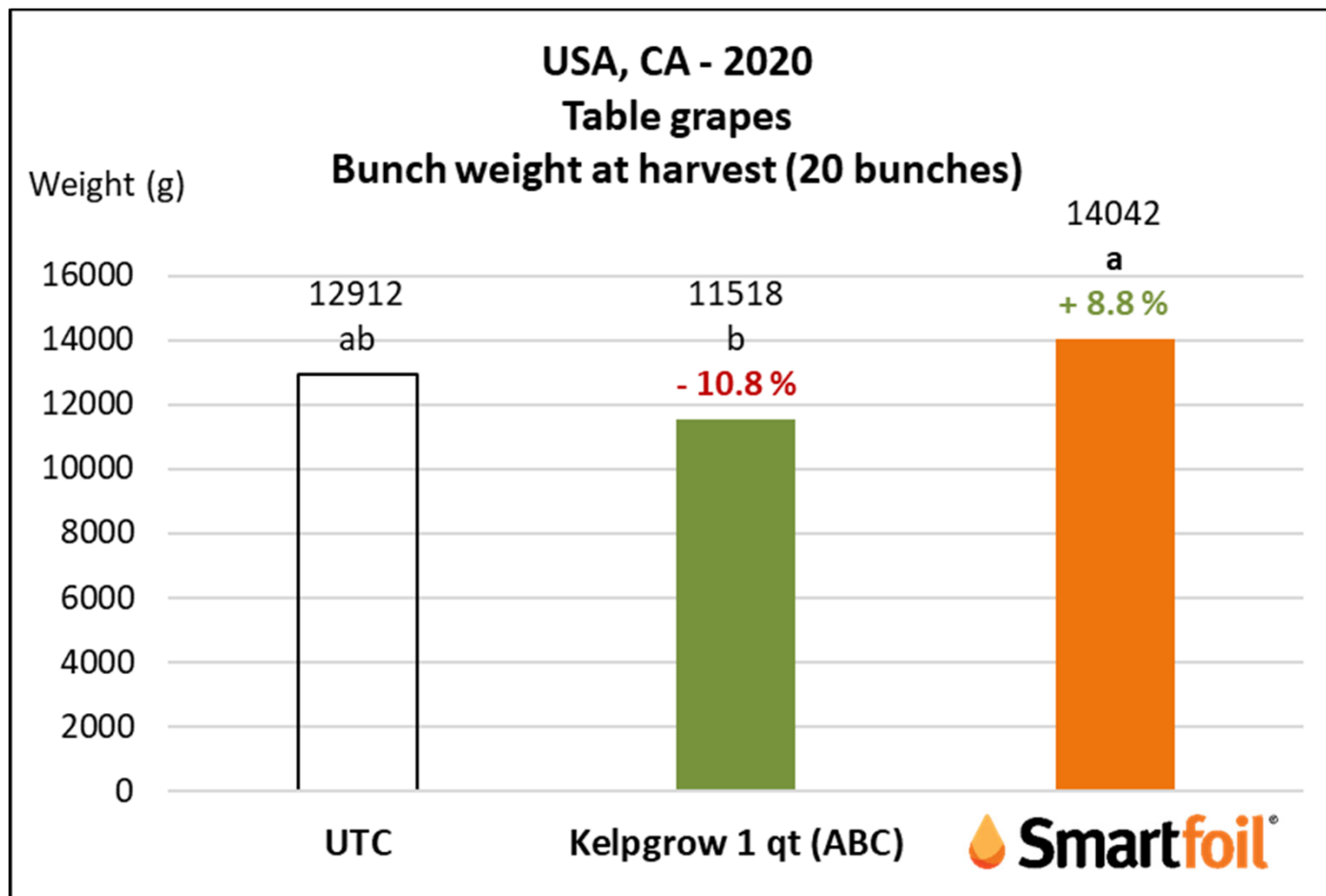
➔ + 1734 lbs/a with MF55 ; + 3577 lbs/a with Kelpgrow

Object	Dose rate
UTC	-
Kelpgrow 1 qt (ABC)	1qt / 100 gal
MF55 1.5 qt (ABC)	1.5 qt/a

Trial information - Application					
Step	Conditions				Date
	Material	Vol. water gal/ac - L/ha	T° (F/C)	Stage	
Application A	STIHL SR450 - Mi:	100 / 935	67	BBCH 55	21/04/2020
Application B	STIHL SR450 - Mi:	100 / 935	57	BBCH 69	19/05/2020
Application C	STIHL SR450 - Mi:	100 / 935	83	BBCH 72	28/05/2020

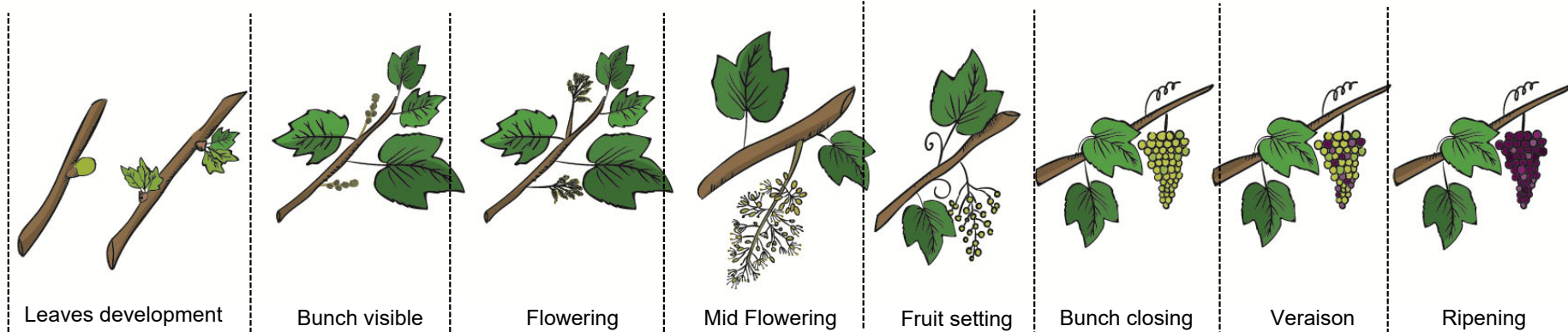
6 replicates

Tablegrapes - Summer Royal



"MF55 at 1.5 qt/A (T3) resulted in significantly higher bunch weight compared with Kelpgrow (T2). Additionally, the plots treated with T3 revealed statistically and numerically higher vigor in comparison to UTC and T2, respectively, at first evaluation."

→ **Consistency** over 2 years of testing



BBCH

01 - 19

51 - 59

61 - 64

65 - 69

71 - 75

77 - 79

80 - 85

85 - 89

1 qt/a

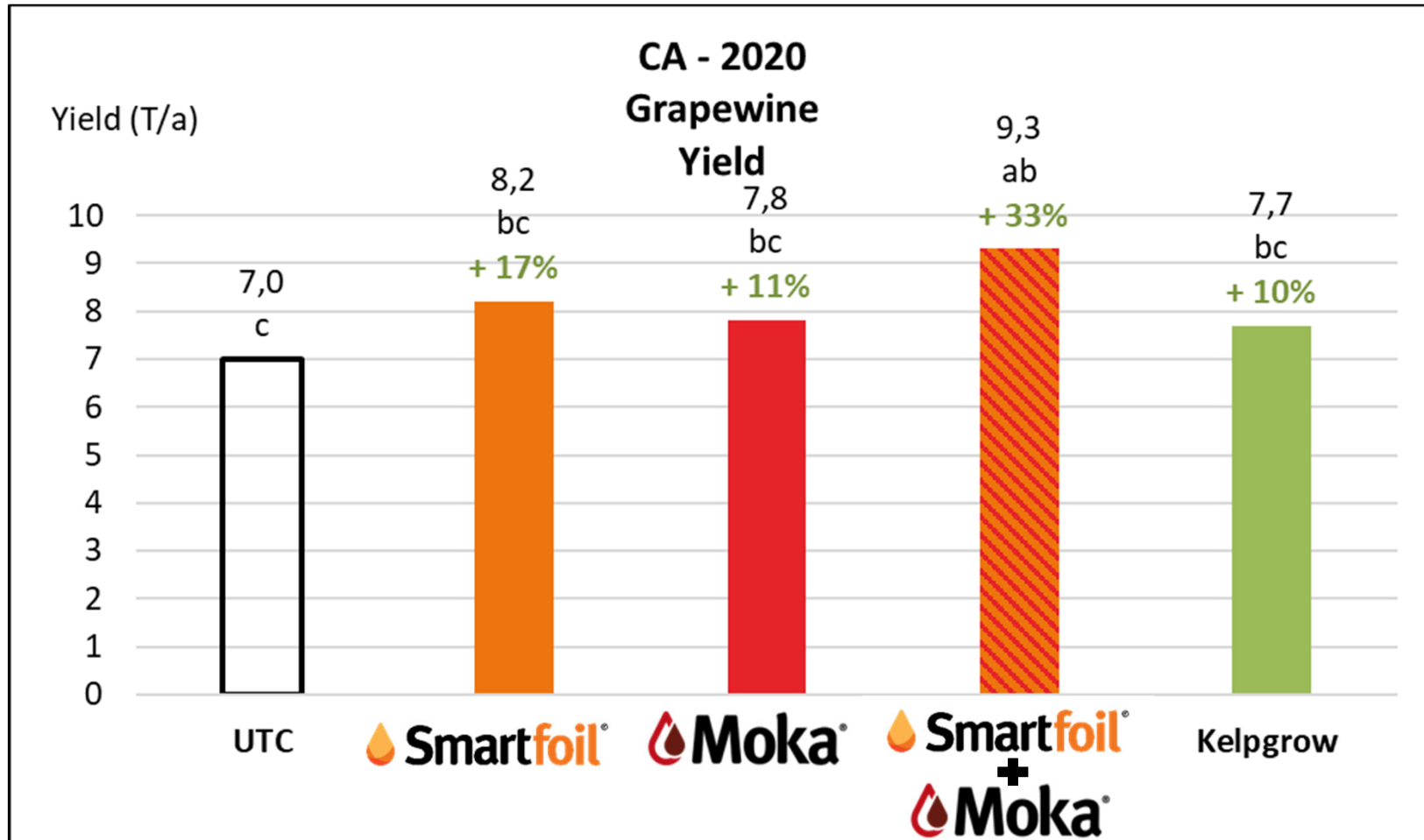
2 foliar applications
BBCH 72 and 79 preferred

15 - 20 days between the 2 applications

Treatments	Dose rate	Application
UTC	-	-
SMARTFOIL	1.5 qt/a	ABC
MOKA	1 qt/a	DE
SMARTFOIL + MOKA	1.5 qt/a & 1qt/a	ABC+DE
Kelpgrow	1qt/a	ABC

Trial information - Application					
Step	Conditions				Date
	Material	Vol. water	T°	Stage	
<i>Planting</i>	<i>02/24/2011</i>				<i>9 years</i>
Application A	Sprayer	100 GAL/AC	61.3F	BBCH 57 (flowering start)	04/17/2020
Application B			70.4F	BBCH 65 (mid flowering)	05/14/2020
Application C			77.5F	BBCH 71 (end flowering)	05/29/2020
Application D			73.5F	BBCH 81 (veraison start)	07/17/2020
Application E			77F	15 days after D	07/24/2020
<i>Harvest</i>					<i>08/17/2020</i>

Chardonnay
5 replicates
Sanger, CA, 2020



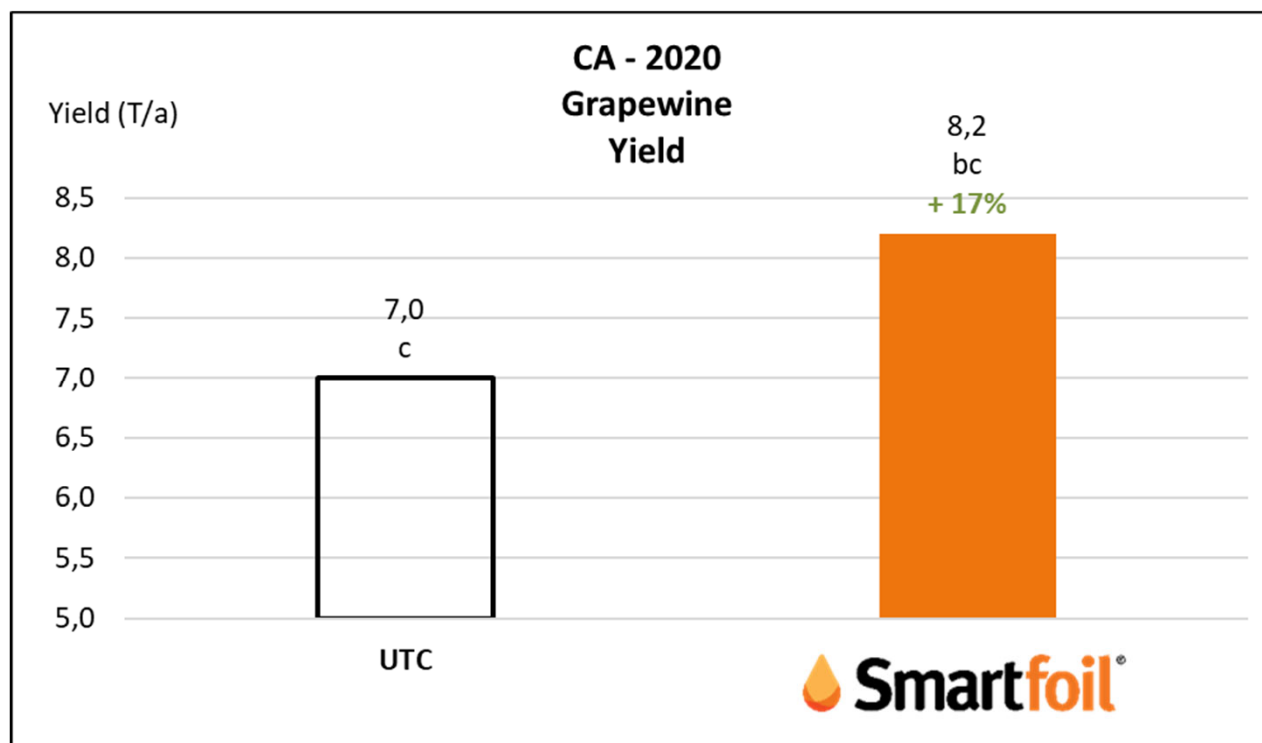
Good efficacy of both products solo:

+ 17% yield increase with SMARTFOIL

+ 11% yield increase with MOKA

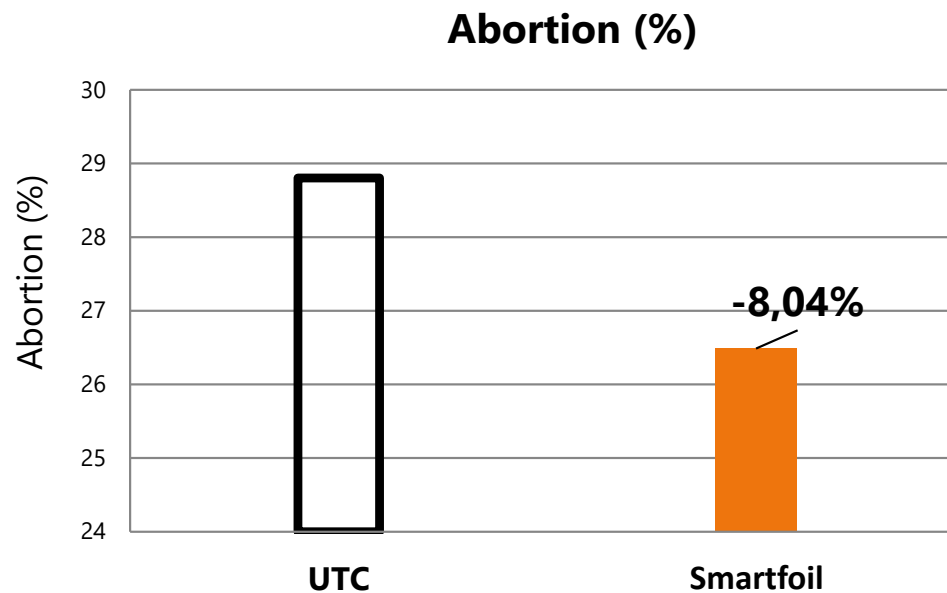
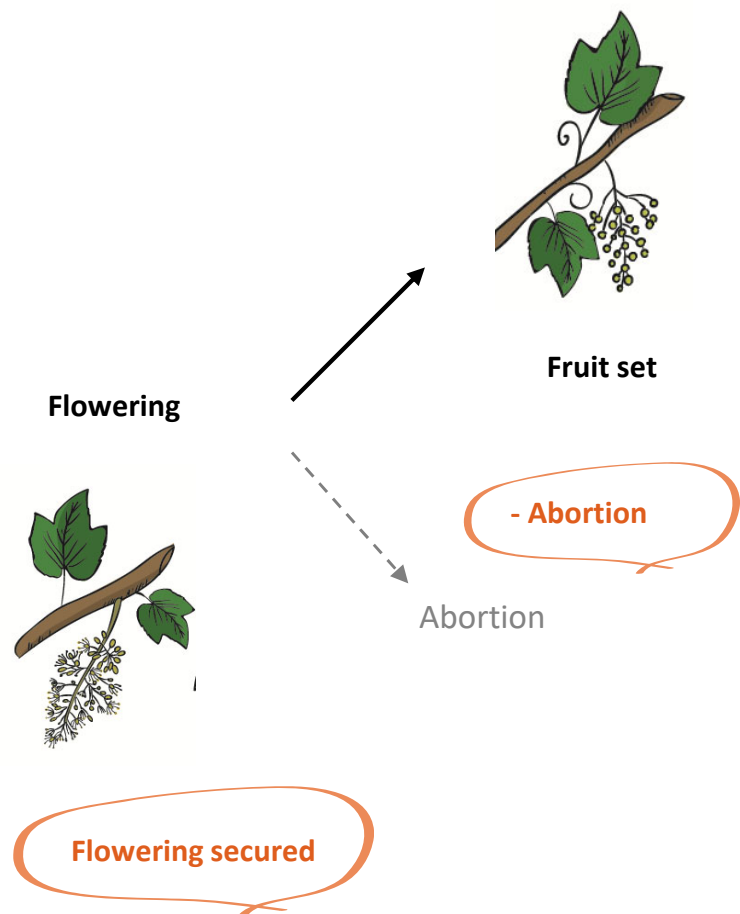
➔ Best response when used in **program** : + 33%

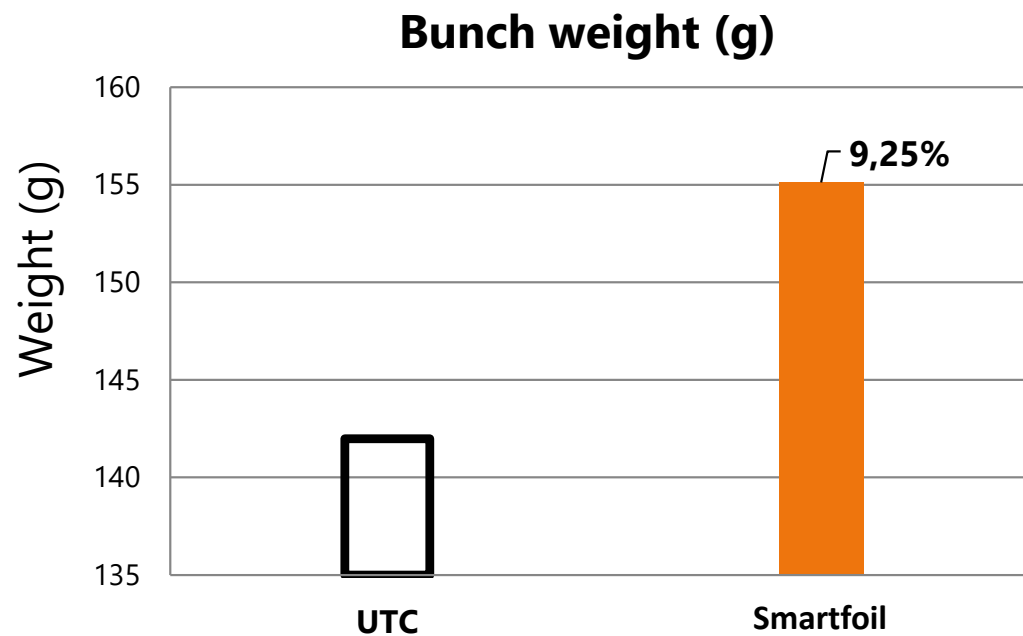
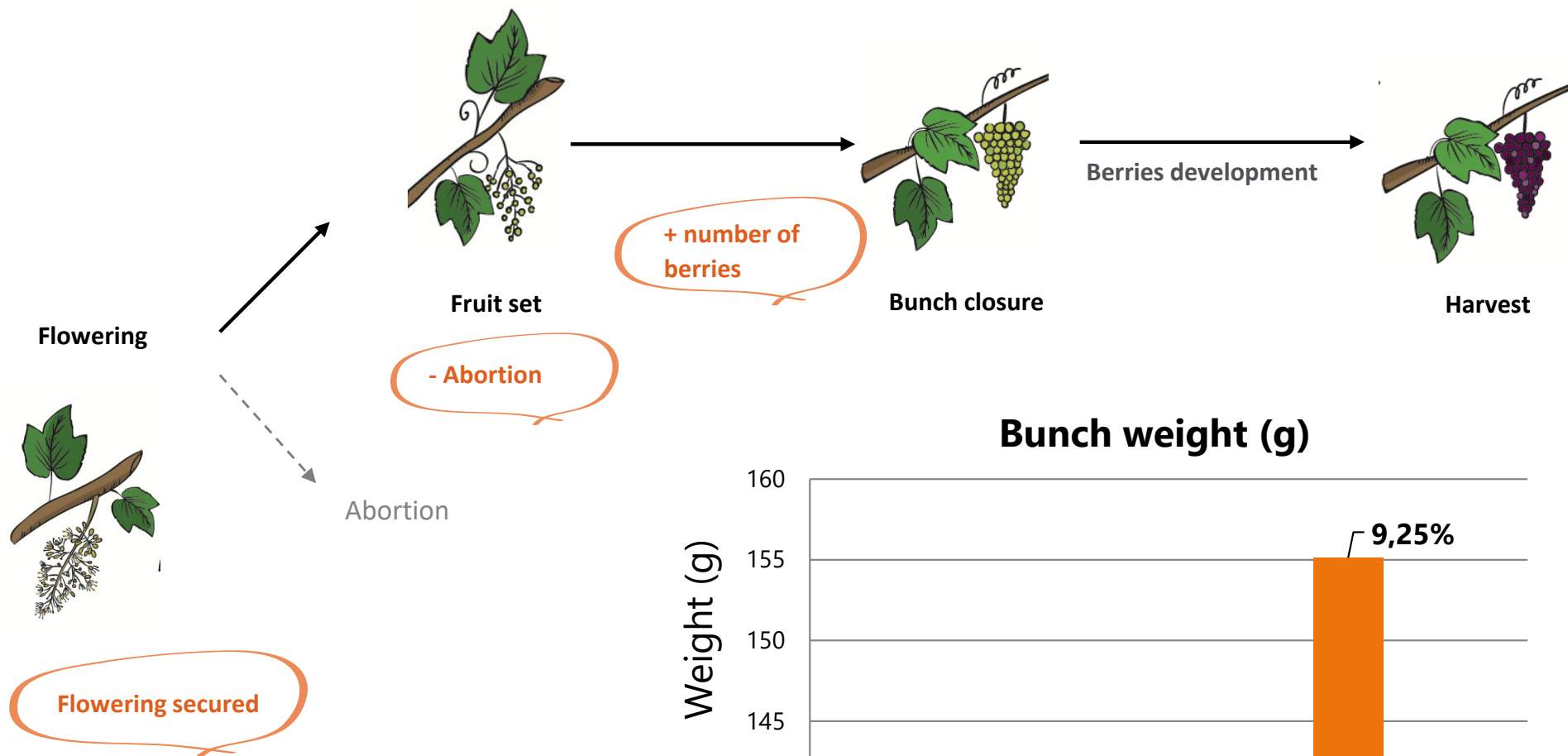
- ✓ Location : USA, California, Sanger
- ✓ Variety: Chardonnay
- ✓ Application A : early bloom stage (BBCH 57), water 100 gal/a, 04/17/2020
- ✓ Application B : mid bloom stage (BBCH 65) water 100 gal/a, 05/14/2020
- ✓ Application C : fruit setting (BBCH 71) water 100 gal/a, 05/29/2020
- ✓ 5 replicates



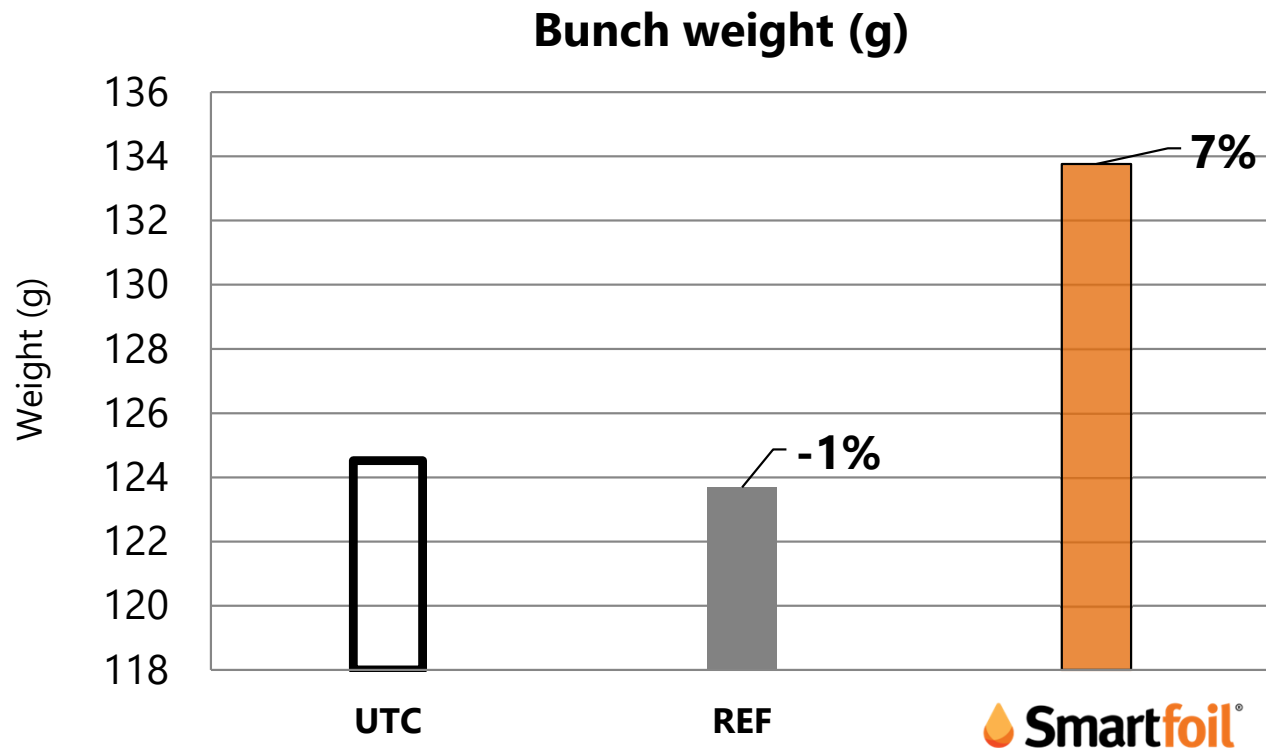
Good efficacy of product solo:
+ 17% yield increase with SMARTFOIL

Other Geographies DATA





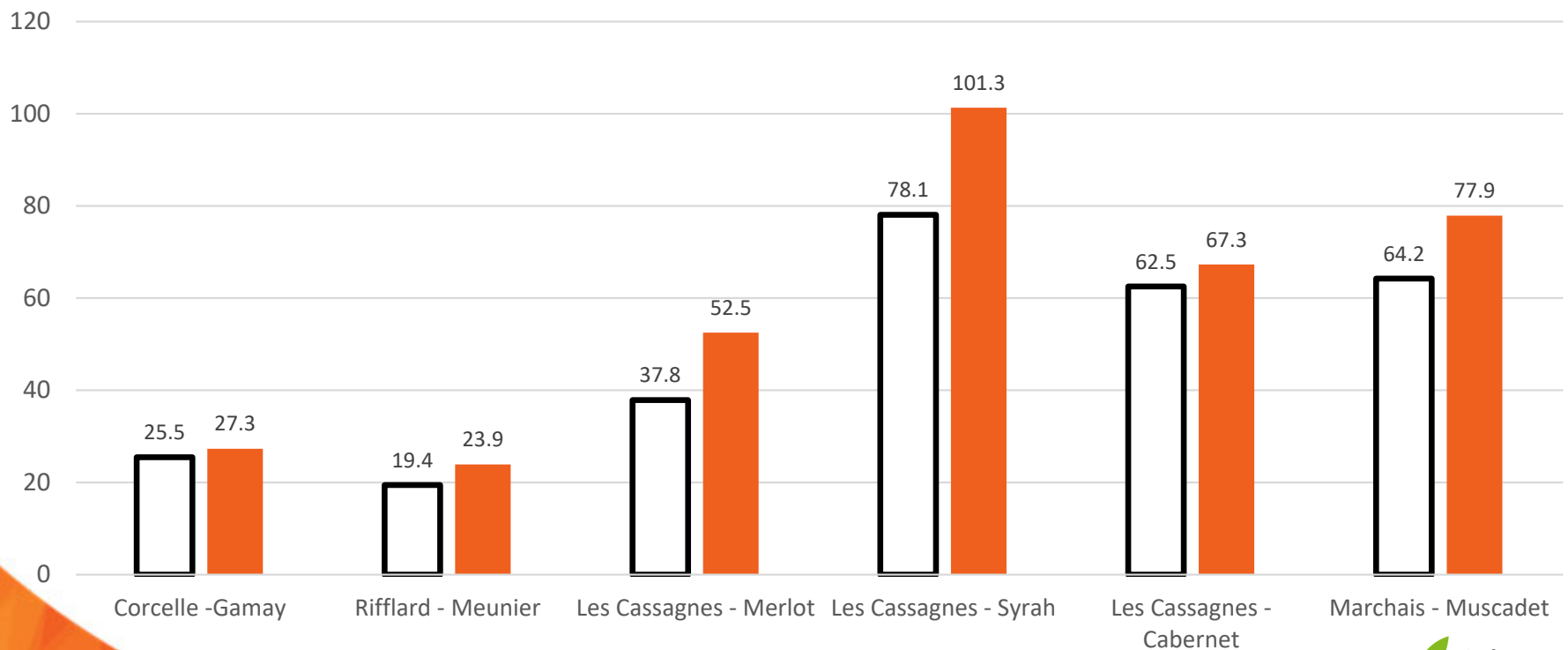
- ✓ 10 trials between 2015 and 2018 in Mendoza region
- ✓ Variety : Malbec (x8), Cabernet sauvignon (x1), Cabernet Franc (x1)
- ✓ 2 applications at 1.5 qt/a at BBCH 55 and BBCH 69 - Commercial reference = UPL (BM 86)
- ✓ Assessments: Weight of bunches



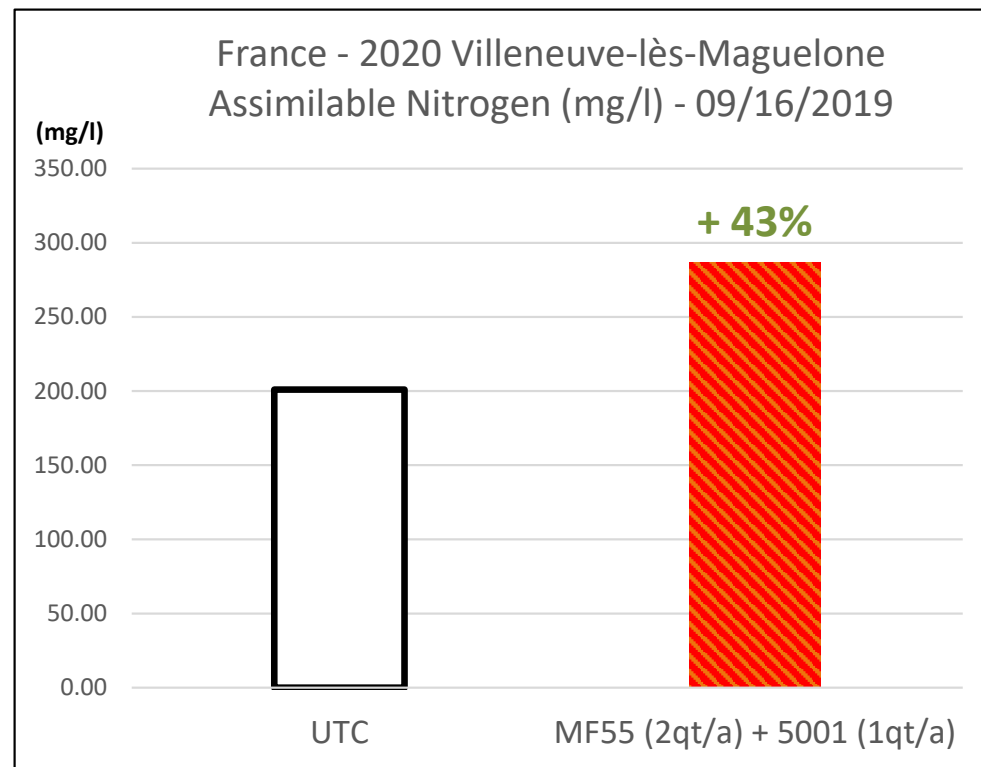
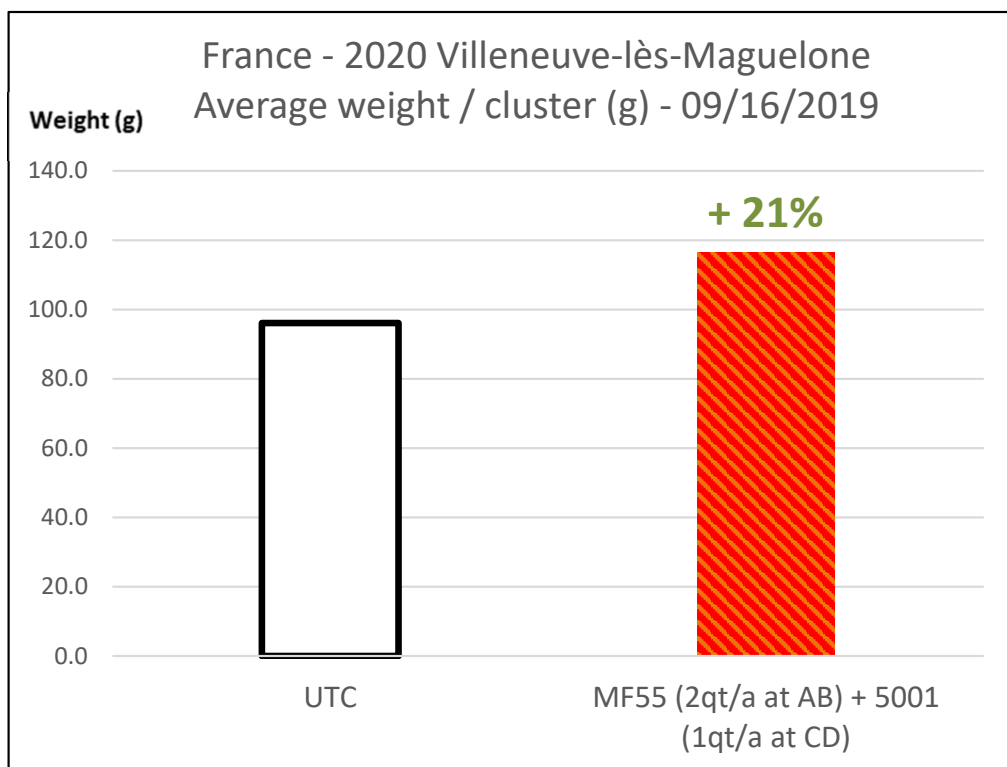
SMARTFOIL secures flowering which results in a higher weight of bunch linked with better number of berries

- ✓ 6 demo trials in 2019
- ✓ 6 different varieties : Gamay, Meunier, Merlot, Syrah, Cabernet, Muscadet
- ✓ Methodology :
 - Assessment on 2 rows evaluating the 1st bunch of the 2nd branch of the vine's arm
 - 25 plants / treatment with assessment of 1 bunch / plant → Average weight of 25 bunches
 - Assessment done at Bunch closure (BBCH 79)

Synthesis of 6 trials with assessment at bunch closure (Weight of bunch -g)



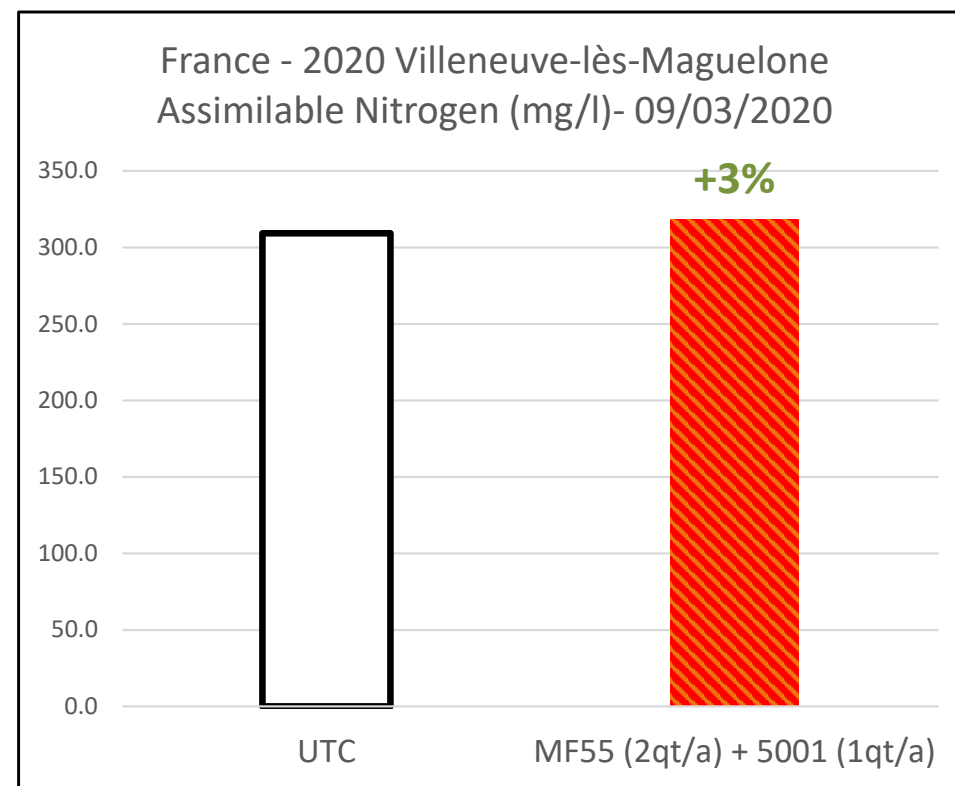
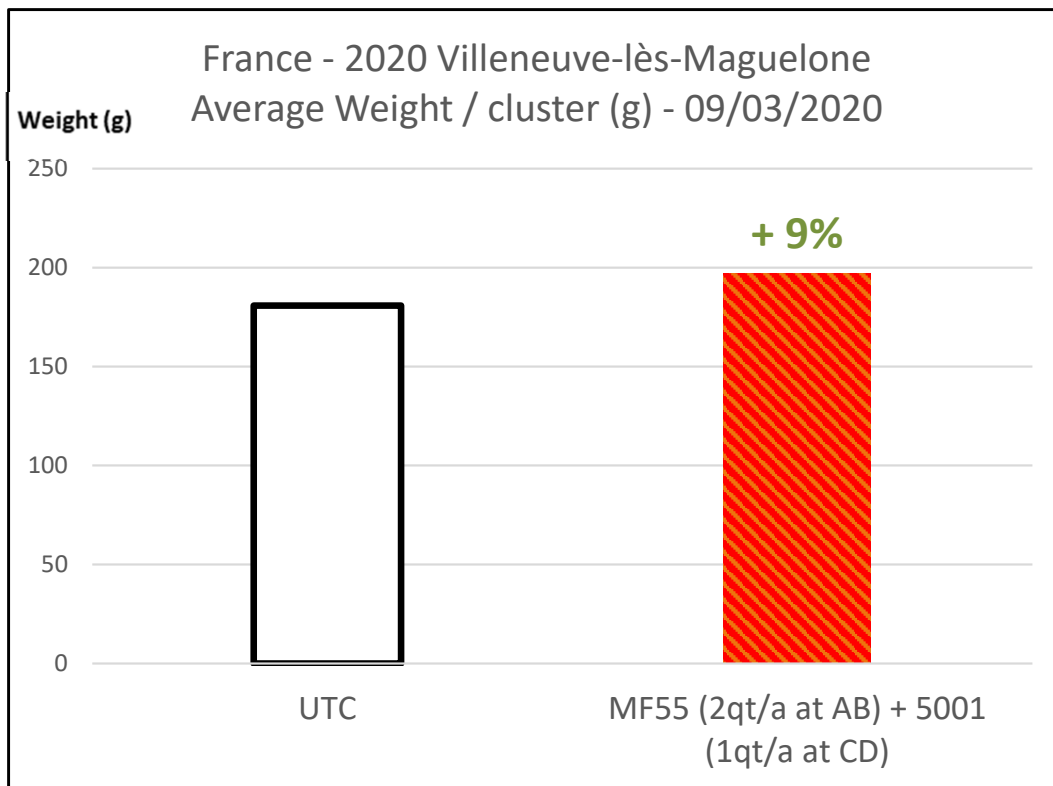
- ✓ Location : France
- ✓ Variety: Grenache
- ✓ Application A : 3 weeks before flowering (BBCH 55), water 20 gal/a, 05/07/2019
- ✓ Application B : Flower separation (BBCH57), water 20 gal/a, 06/05/2019
- ✓ Application C : Early flowering (BBCH60-62), water 20 gal/a, 06/14/2019
- ✓ Application D : Fruit set (BBCH72), water 20 gal/a, 07/10/2019



Good efficacy of biostimulant on yield:

➔ + 20,3 g per cluster with 5001 + MF55

- ✓ Location : France
- ✓ Variety: Grenache
- ✓ Application A : 3 weeks before flowering (BBCH 55), water 20 gal/a, 04/30/2020
- ✓ Application B : Flower separation (BBCH57), water 20 gal/a, 05/12/2020
- ✓ Application C : Early flowering (BBCH60-62), water 20 gal/a, 05/21/2020
- ✓ Application D : Fruit set (BBCH72), water 20 gal/a, 06/03/2020



Good efficacy of biostimulant on yield:
➔ + 16 g per cluster with 5001 + MF55

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and nutrition

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