

# Een perfecte roos is duurzaam geteeld.

BCO – digitaal – open kas on-line

3-12-2020, Arie de Gelder



# Doelstelling

- Jaarrond een zware tak met voldoende lengte (0,85 resp 0.75 g/cm) en knophoogte (>5 cm) en houdbaarheid (10 en 12 dagen).
- Max 5000 uur belichting = 575 kWh/m<sup>2</sup>.
- Koeling voldoende voor warmte voorziening.
- Totaal 40 kg CO<sub>2</sub>/m<sup>2</sup>.jaar.
- Groene gewasbescherming

# Opbouw presentatie

- Gewasbescherming
- Groei en productie
- Klimaat en Energie

# Strategie bestrijding Meeldauw

- Melasse om de 5 dagen
- UV dagelijks
  - Overige middelen wisselende keuze  
Sonata, Collis, Salifort, VeniBioSulfur, ...
- Voeding – sturing pH ca 5.6/ 5.7
- Klimaat – luchtvochtigheid

Sinds 1/7



WAGENINGEN  
UNIVERSITY & RESEARCH

5 \* Meltatox in Red Naomi



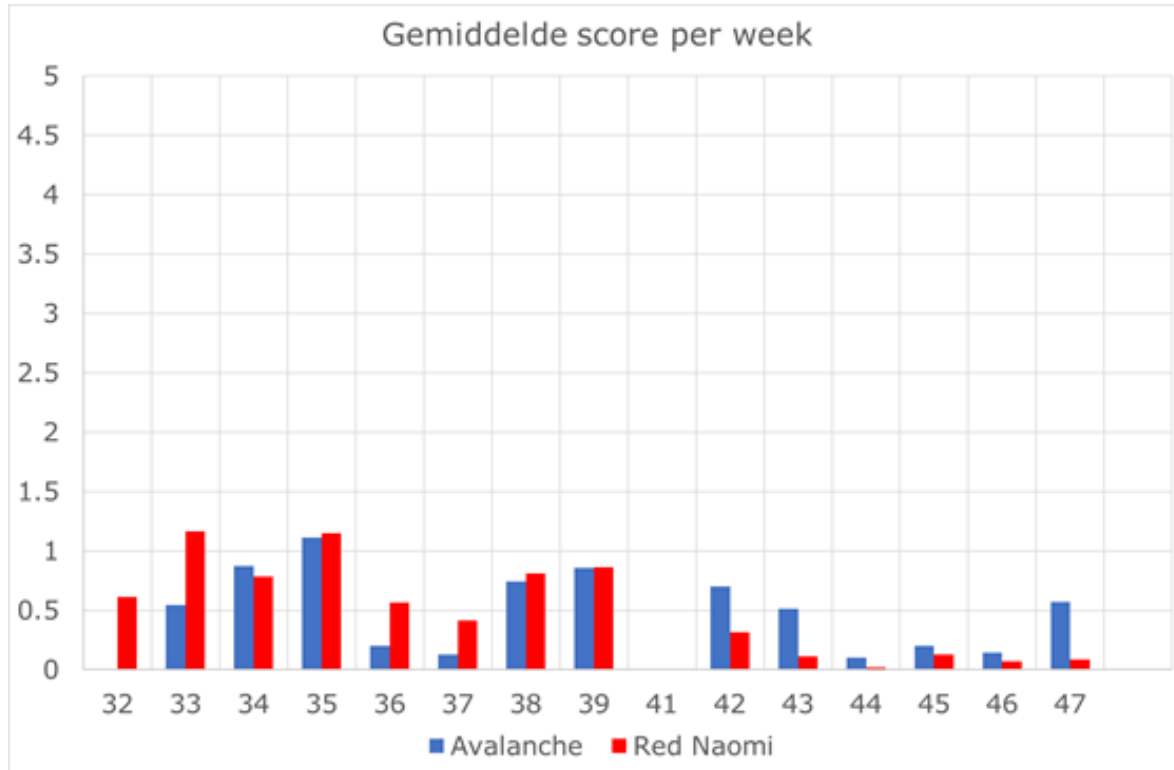
# Meeldauw

Gemiddelde score week 32 -47

op schaal 0,1,2,5

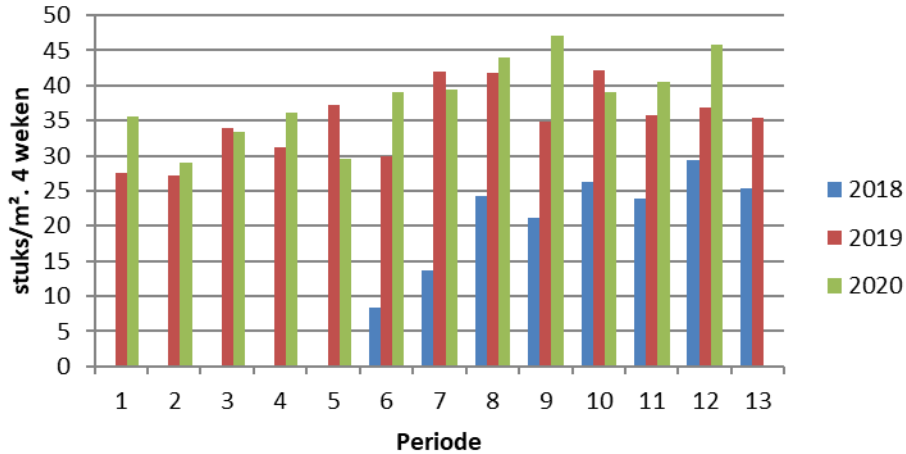
Periode	Vak								
	pad	zijde	1	2	3	4	5	6	7
1	R		0.20	0.27	0.53	0.53	0.13	0.27	0.27
2	L		0.33	0.33	0.00	0.20	0.27	0.07	0.00
2	R		0.27	0.27	0.40	0.00	0.27	0.40	0.07
3	L		0.40	0.60	0.67	0.73	0.60	0.60	0.53
3	R		0.60	0.93	0.67	1.53	1.60	0.47	0.13
4	L		0.27	1.07	0.47	1.07	1.47	1.40	0.47
4	R		0.00	0.53	0.40	0.40	0.87	0.60	0.33
5	L		0.13	1.13	0.07	0.27	0.47	0.13	0.47
5	R		0.13	0.33	0.07	0.20	0.20	0.53	0.13
6	L		0.07	0.40	0.27	0.27	0.67	0.47	0.27
6	R		0.00	0.27	1.33	0.33	0.00	0.53	0.47
7	L		0.13	0.40	0.67	0.33	0.20	1.20	0.87
7	R		0.00	0.00	0.40	0.73	0.73	1.13	0.67
8	L		0.13	0.20	0.40	0.53	0.47	0.87	0.60
8	R		0.33	0.40	0.40	0.80	0.87	0.60	1.00
9	L		0.00	0.33	0.40	0.80	0.73	0.80	1.73
9	R		0.27	0.87	0.33	0.40	0.67	0.53	0.40
10	L		0.13	1.00	0.33	0.53	0.93	0.27	0.27
10	R		0.00	0.07	0.20	0.00	0.13	0.00	0.07
11	L		0.20	0.73	0.27	0.00	0.00	0.00	0.27
11	R		0.47	1.27	0.93	0.20	0.13	0.07	0.20
12	L		0.33	1.67	0.87	0.20	0.13	0.13	0.20
12	R		0.73	1.80	1.93	0.67	0.07	0.40	0.13
13	L		0.47	2.27	2.07	0.40	0.13	0.00	0.00
13	R		0.13	0.53	0.07	0.20	0.13	0.13	0.13
14	L		0.27	0.87	0.40	0.20	0.13	0.00	0.13
14	R		0.33	0.87	1.00	0.40	0.07	0.00	0.27
15	L		1.47	1.47	1.87	1.73	0.73	0.47	0.27

# Meeldauw per week

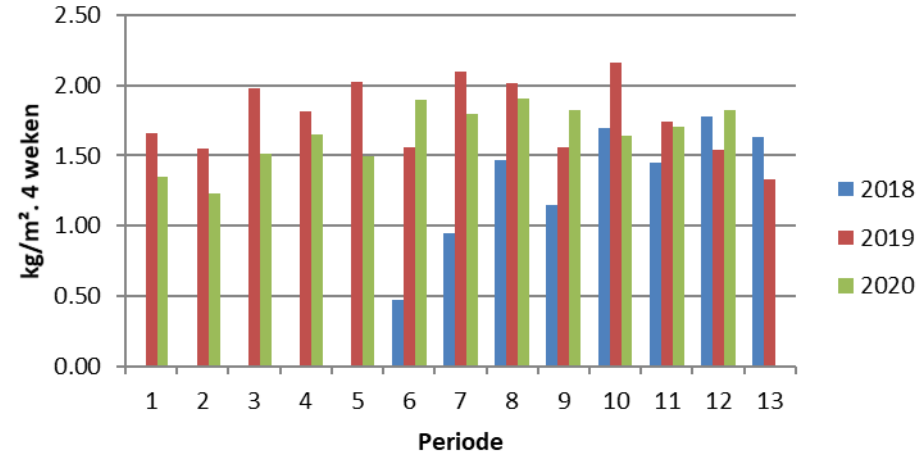


# Avalanche

## Avalanche Stuks



## Avalanche kg/m2



Periode 9-12

2019

2020

#

150

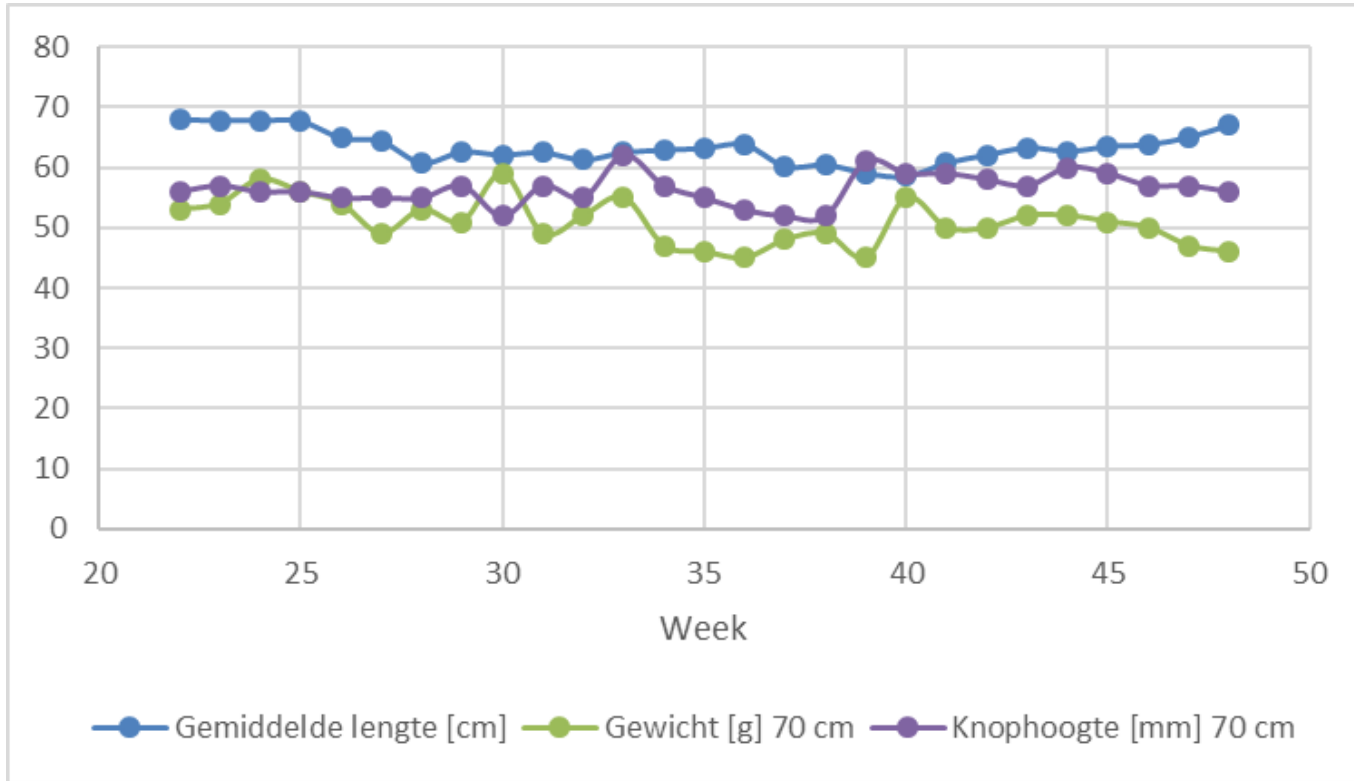
172

kg/m2

6.99

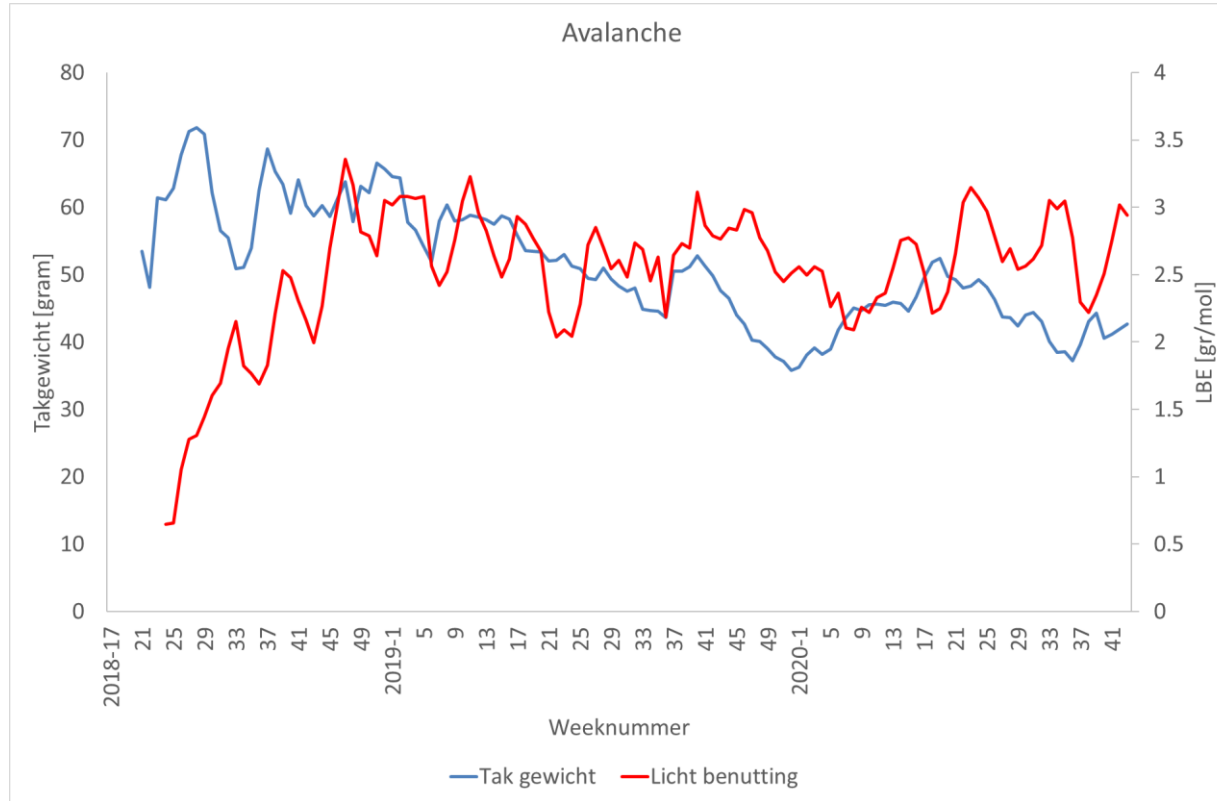
6.99

# Metingen van sortering Avalanche

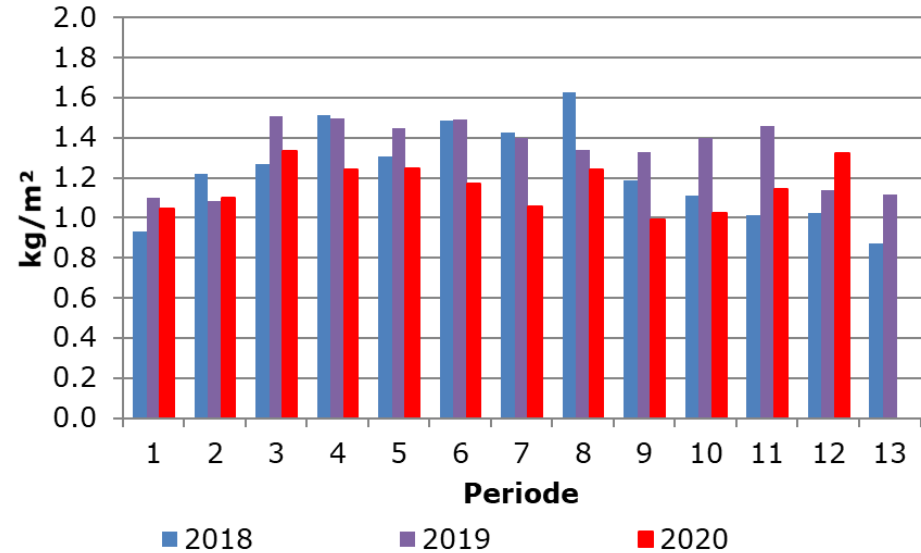
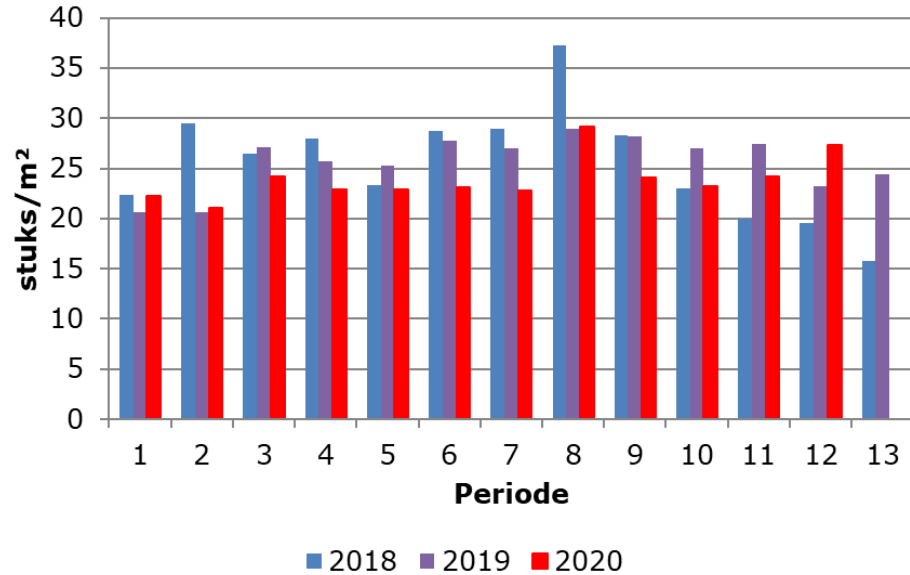




# Takgewicht en LBE Avalanche



# Red Naomi



Periode 9-12

2019

2020

#

106

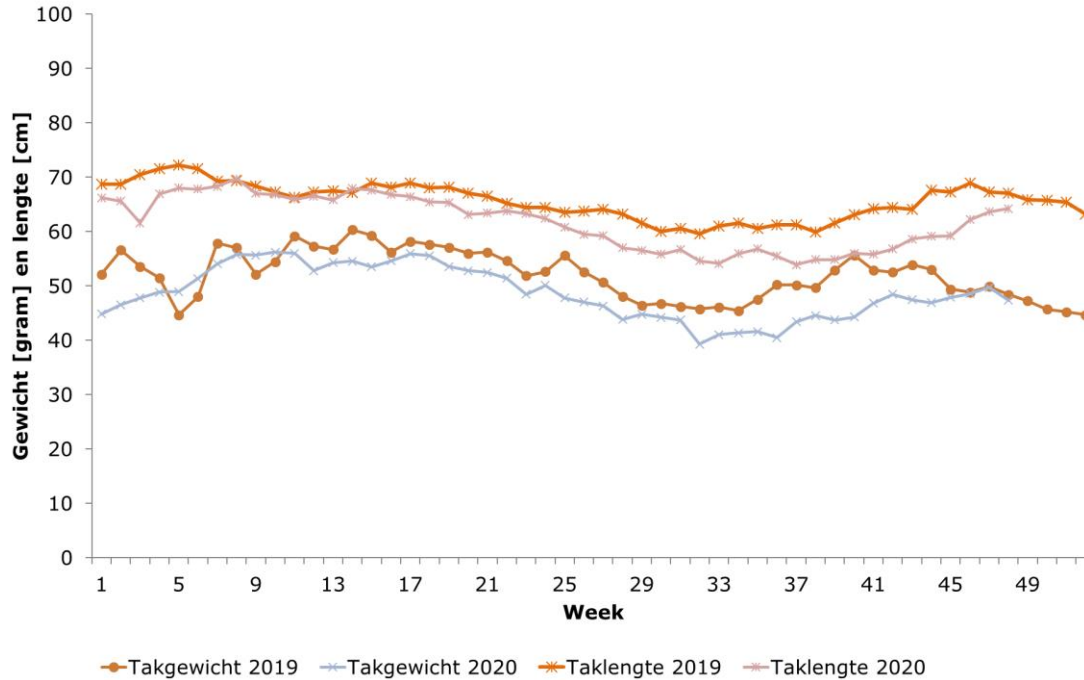
99

kg/m<sup>2</sup>

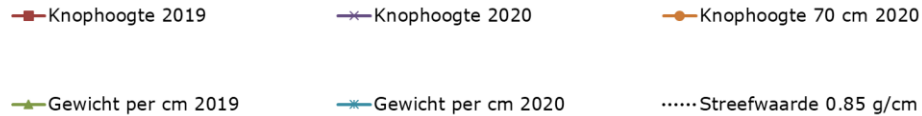
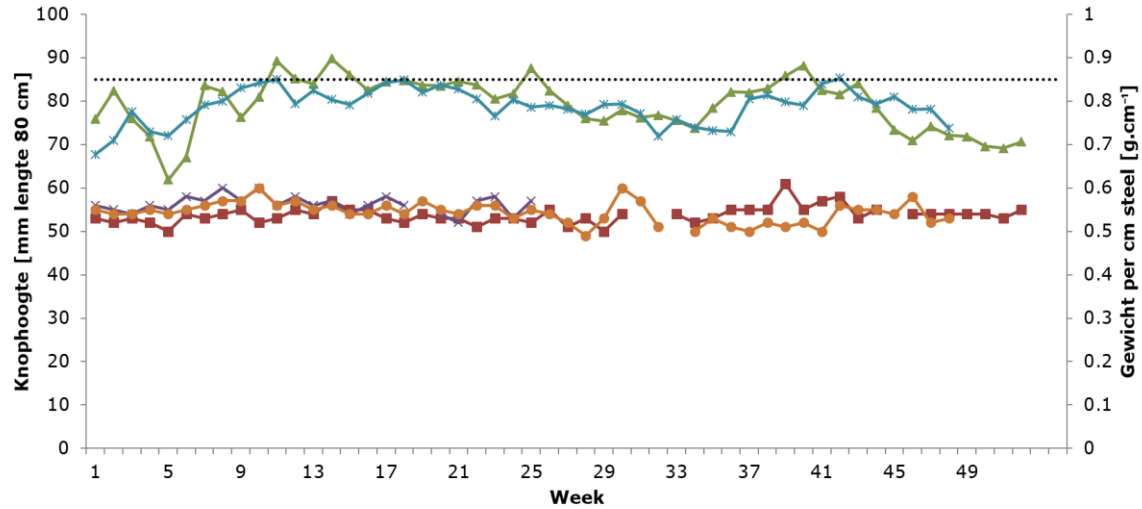
5.32

4.48

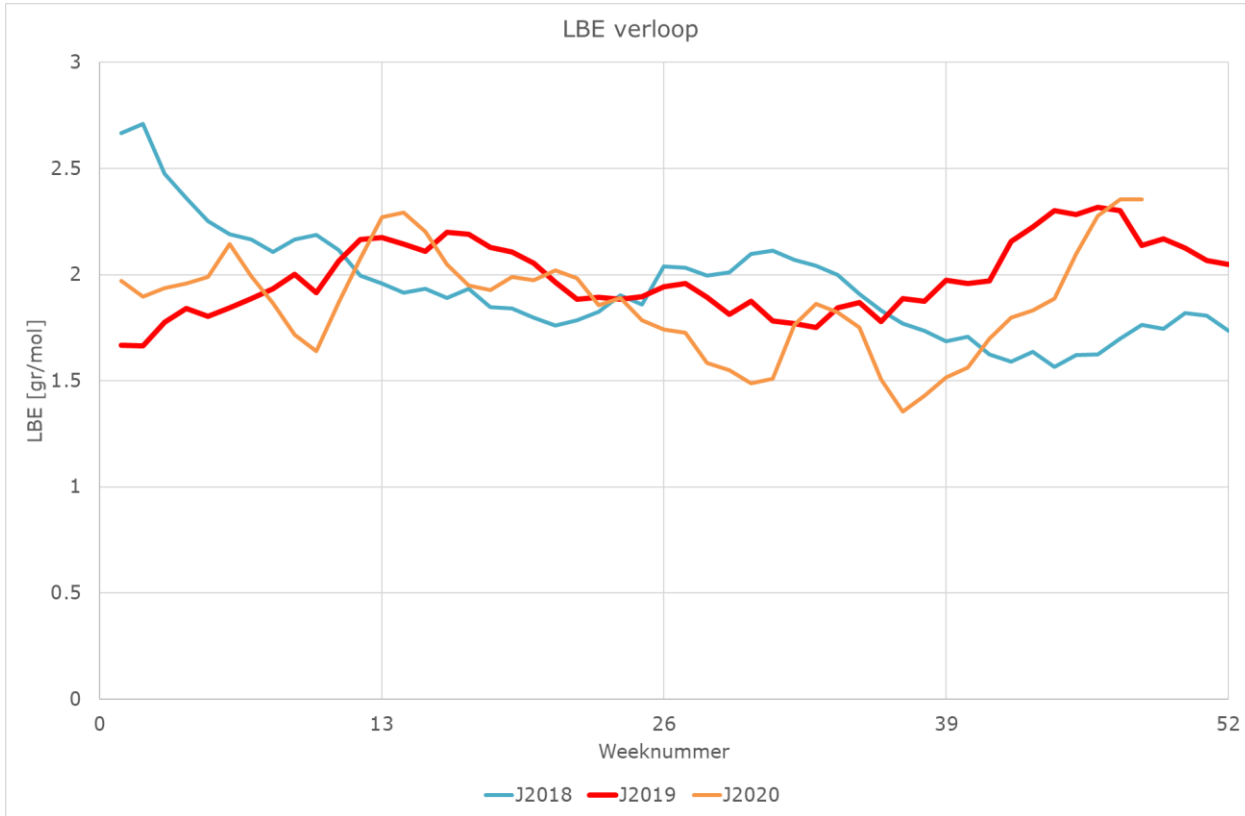
# Red Naomi lengte en gewicht



# Red Naomi

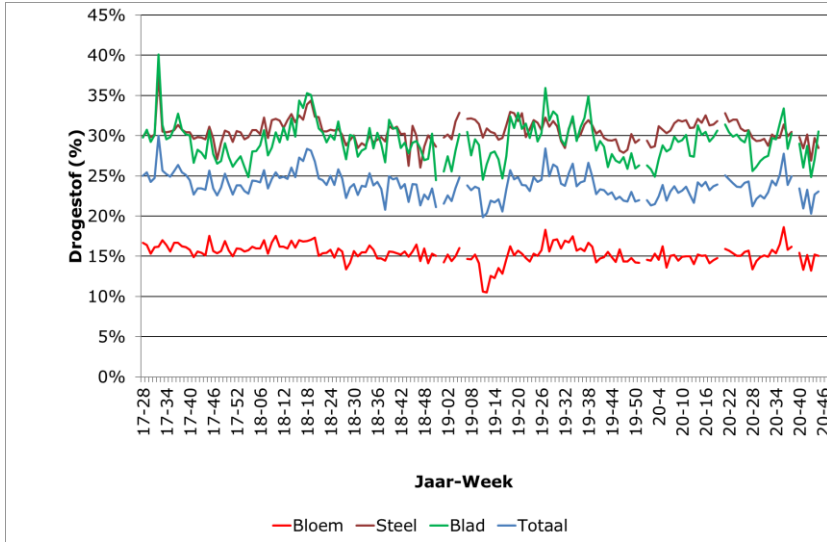


# Licht benutting Red Naomi

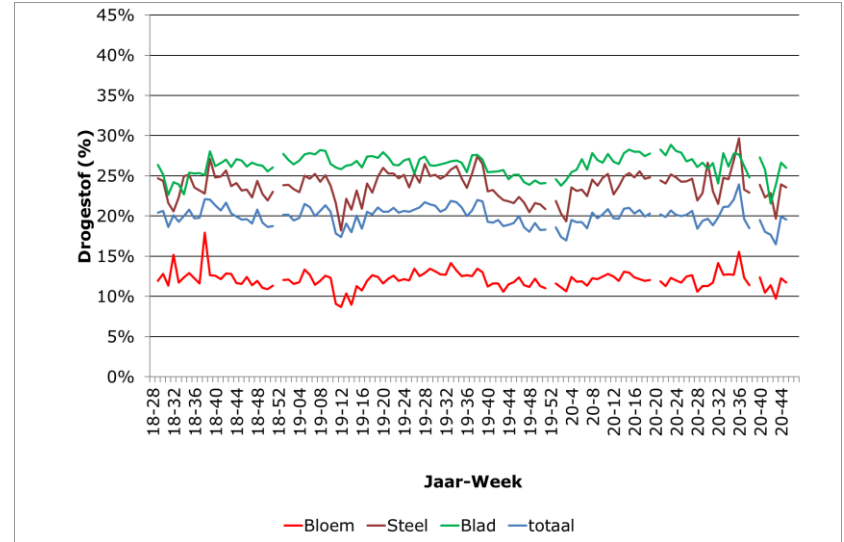


# Percentage drooggewicht

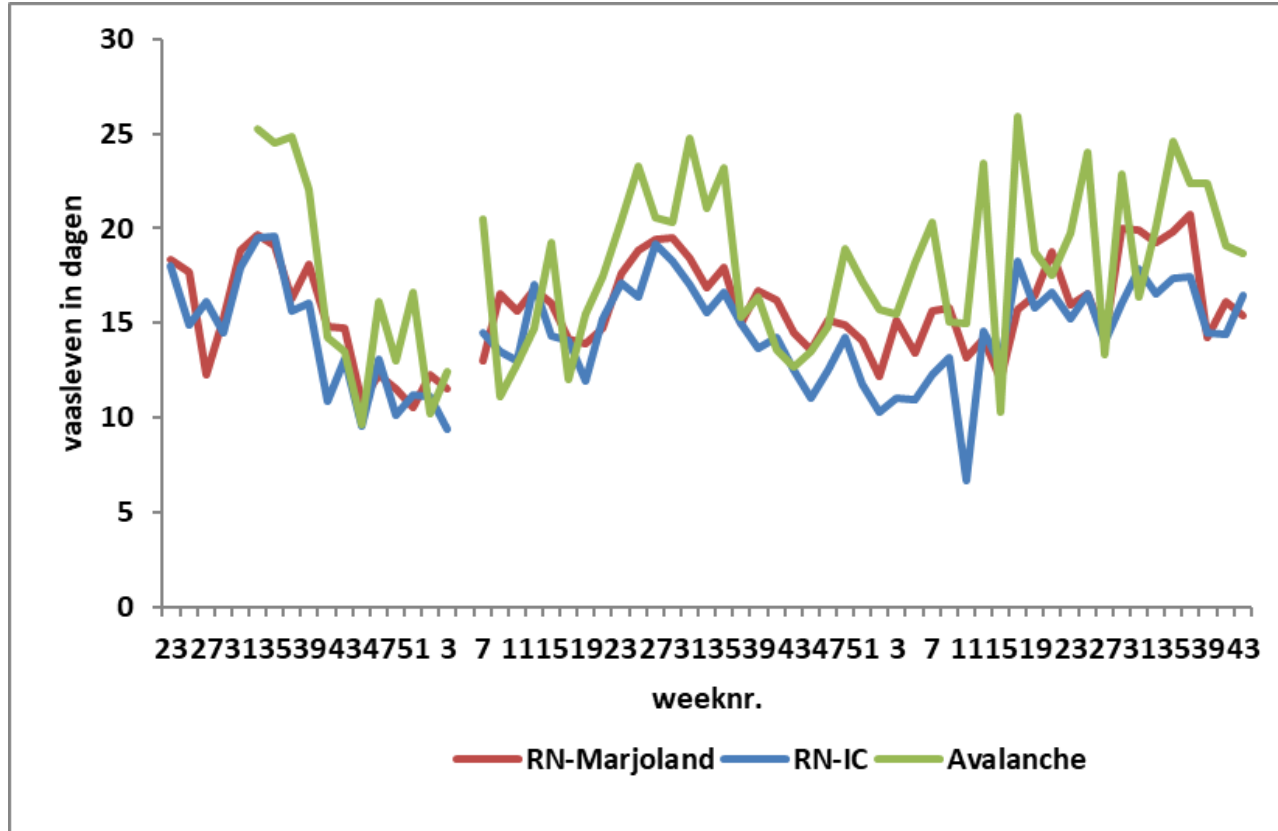
## Red Naomi



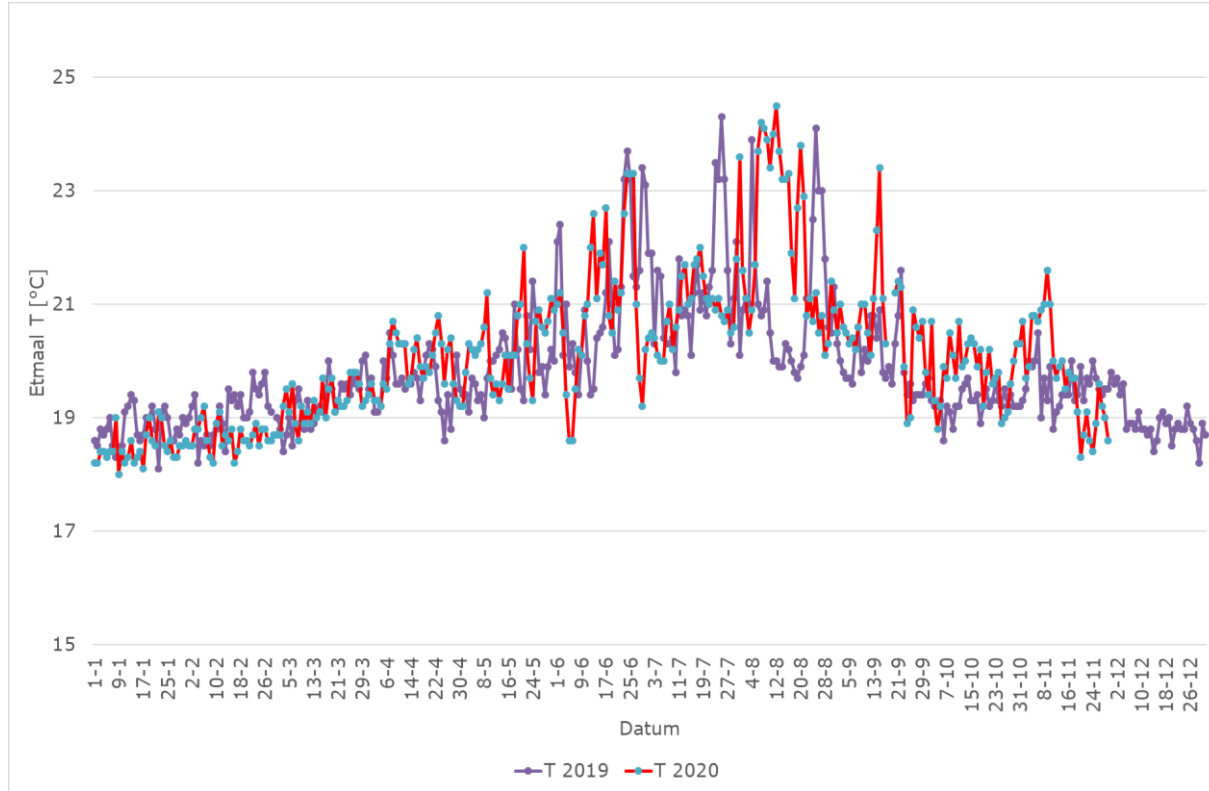
## Avalanche



# Houdbaarheid



# Etmaal temperatuur





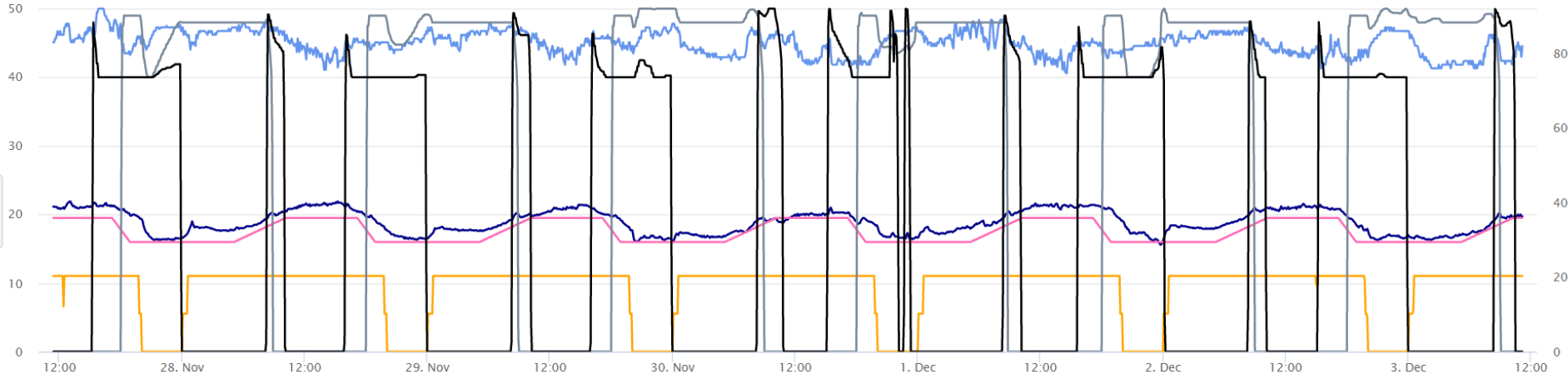
# Klimaat



VI. 27 Nov. 2020 (48)

temperatuur

5m 27 nov. 2020 - 3 dec. 2020



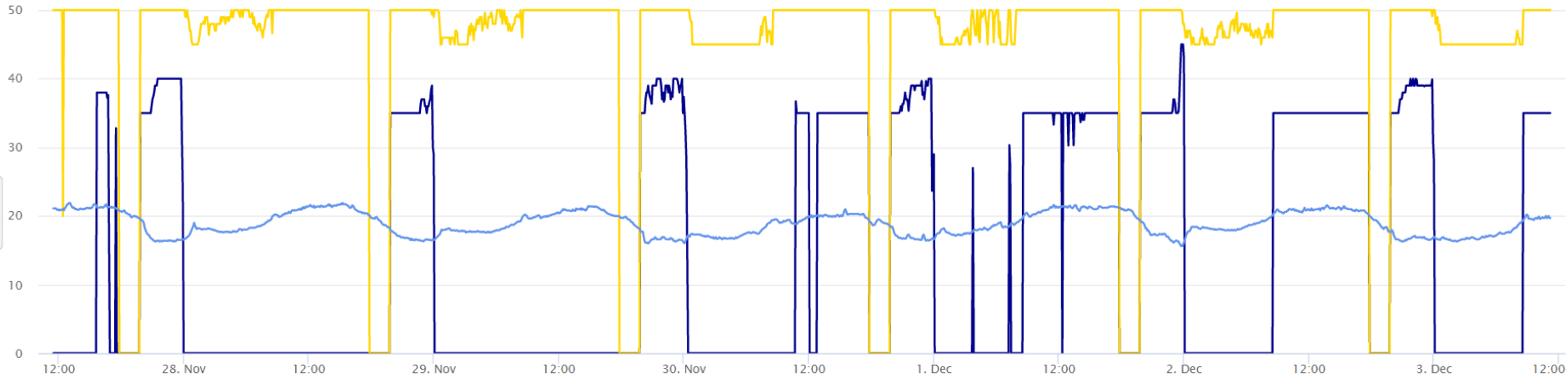
<input checked="" type="checkbox"/>	Naam	Apparaat	Fact	As	Min	Max	Gem	Leeslijn
<input checked="" type="checkbox"/>	kasttemperatuur - °C - 5 min: Perfect Roses Delphy IC afd4	Priva - Improvement Centre	1	<-	15.6	21.9	18.9	21.4
<input checked="" type="checkbox"/>	RV kas - % - 5 min: Perfect Roses Delphy IC afd4	Priva - Improvement Centre	1	->	75	92	83	89
<input checked="" type="checkbox"/>	verwarmingstemp: ber - °C - 5 min: Afd 4	Priva - Improvement Centre	1	<-	16.0	19.5	17.5	19.5
<input checked="" type="checkbox"/>	belichting: ingeschakeld - 5 min: Belichting vermogen Afd 4	Priva - Improvement Centre	0.1	->	0.0	203.0	165.9	203.0
<input checked="" type="checkbox"/>	scherm 4 - % - 5 min: Afd 4 doek 2	Priva - Improvement Centre	0.5	<	0	100	59	0
<input checked="" type="checkbox"/>	scherm 3 - % - 5 min: Afd 4 doek 5	Priva - Improvement Centre	0.5	<-	0	100	35	80

# verwarming



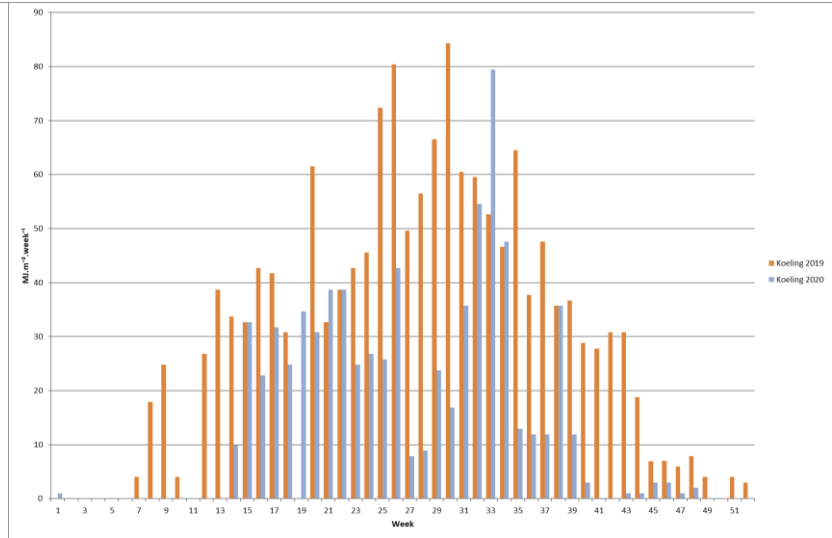
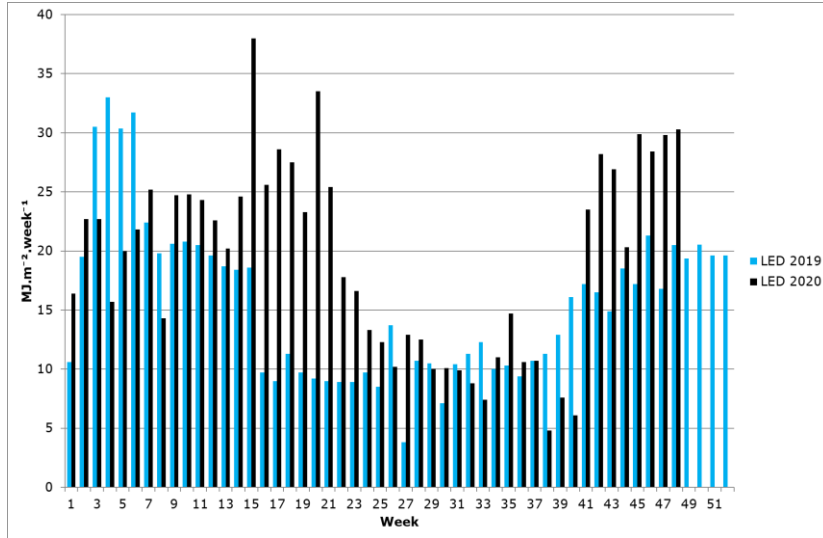
verwarming

27 nov. 2020 (18)  
27 nov. 2020 - 3 dec. 2020



<input type="checkbox"/>	Naam	Apparaat	Fact	As	Min	Max	Gem	Leeslijn
<input checked="" type="checkbox"/>	buistemp 1: ber - °C - 5 min: Afd 4	Priva - Improvement Centre	1	<-	0.0	45.0	13.7	0.0
<input checked="" type="checkbox"/>	buistemp 2: ber - °C - 5 min: Afd 4	Priva - Improvement Centre	1	<-	0.0	50.0	44.7	50.0
<input checked="" type="checkbox"/>	kasttemperatuur - °C - 5 min: Perfect Roses Delphy IC afd4	Priva - Improvement Centre	1	<-	15.6	21.9	18.9	21.1

# Energie verwarming - koeling



Jaar	Warmte [MJ/m <sup>2</sup> ]	Koude [MJ/m <sup>2</sup> ]
2019	812	1546
2020 (t/m w48)	927	759

Vragen?

