

Q-cotrans

Startkwaliteit

Eelke Westra

Postharvest Quality and Technology



FOOD & BIOBASED RESEARCH
WAGENINGEN UR

Uw sector investeert in dit project via het Productschap



$$\frac{a}{3} (y+A)^3 + \frac{2}{3} (y+A)^2 (x+A)$$

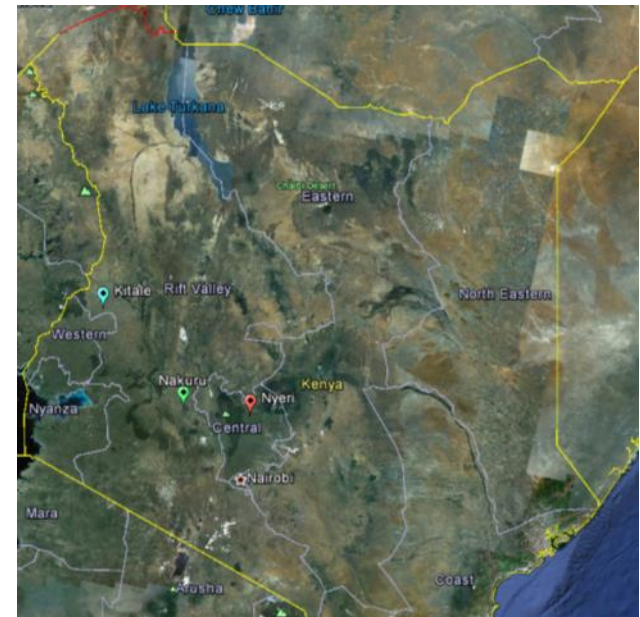
+

+

Data

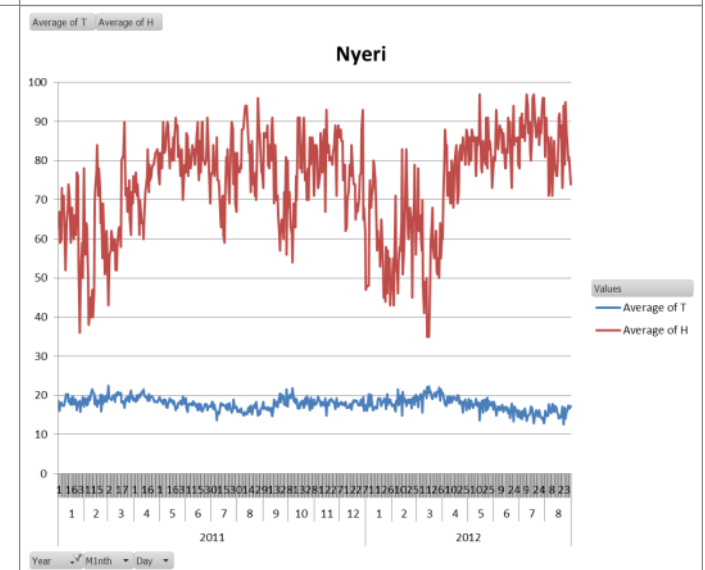
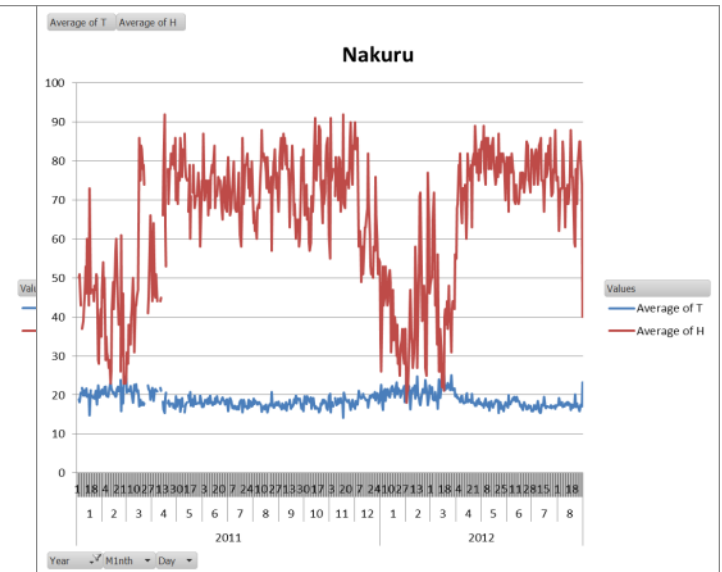
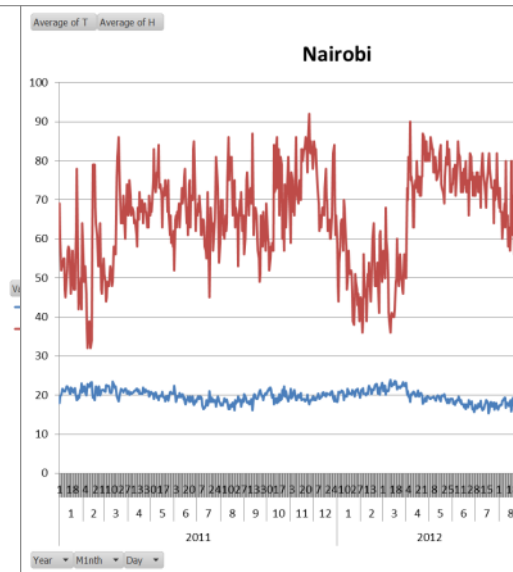
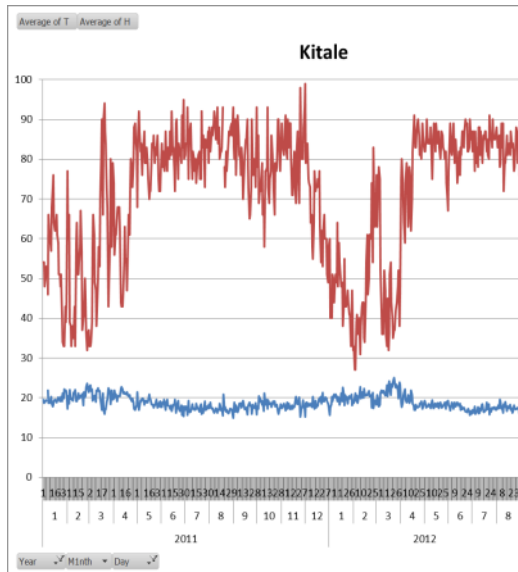
- Dataset FloraHolland beschikbaar (roos)
 - 6000+ bossen
 - 5 telers + 36 cv's
- Data is geanonimiseerd ivm bedrijfsgevoeligheid
 - Systeemontwikkeling
- Weergegevens via locatie en weerstation (www.tutiempo.net)

Date start	!Month	!Variety	!Grower	Vaseli	!R.e.l.	opening	No vas	No sten	!
1-04-11	4	200	426	9	flower edge	4	1	10 w	
1-04-11	4	200	426	9	flower edge	4	1	10 w	
1-04-11	4	200	426	9	flower edge	4	1	10 w	
1-04-11	4	200	426	9	flower edge	4	1	10 w	
1-04-11	4	200	426	12	flower edge	4	1	10 w	
1-04-11	4	200	426	12	flower edge	4	1	10 w	
1-04-11	4	240	426	14	none	5	1	10 C	
1-04-11	4	240	426	14	none	5	1	10 C	
1-04-11	4	240	426	14	none	4	1	10 C	
1-04-11	4	240	426	14	none	3	1	10 C	
1-04-11	4	240	426	14	none	4	1	10 C	
1-04-11	4	240	426	14	none	4	1	10 C	
1-04-11	4	240	426	14	none	4	1	10 C	
1-04-11	4	240	426	14	none	4	1	10 C	
1-04-11	4	240	426	12	end of flower	3	1	10 w	
1-04-11	4	240	426	12	end of flower	5	1	10 w	
1-04-11	4	240	426	14	end of flower	5	1	10 w	
1-04-11	4	240	426	14	end of flower	4	1	10 w	
1-04-11	4	240	426	14	end of flower	4	1	10 w	
1-04-11	4	240	426	14	end of flower	4	1	10 w	
1-04-11	4	240	426	14	end of flower	4	1	10 w	
1-04-11	4	240	426	14	end of flower	4	1	10 w	
1-04-11	4	240	426	14	end of flower	4	1	10 w	

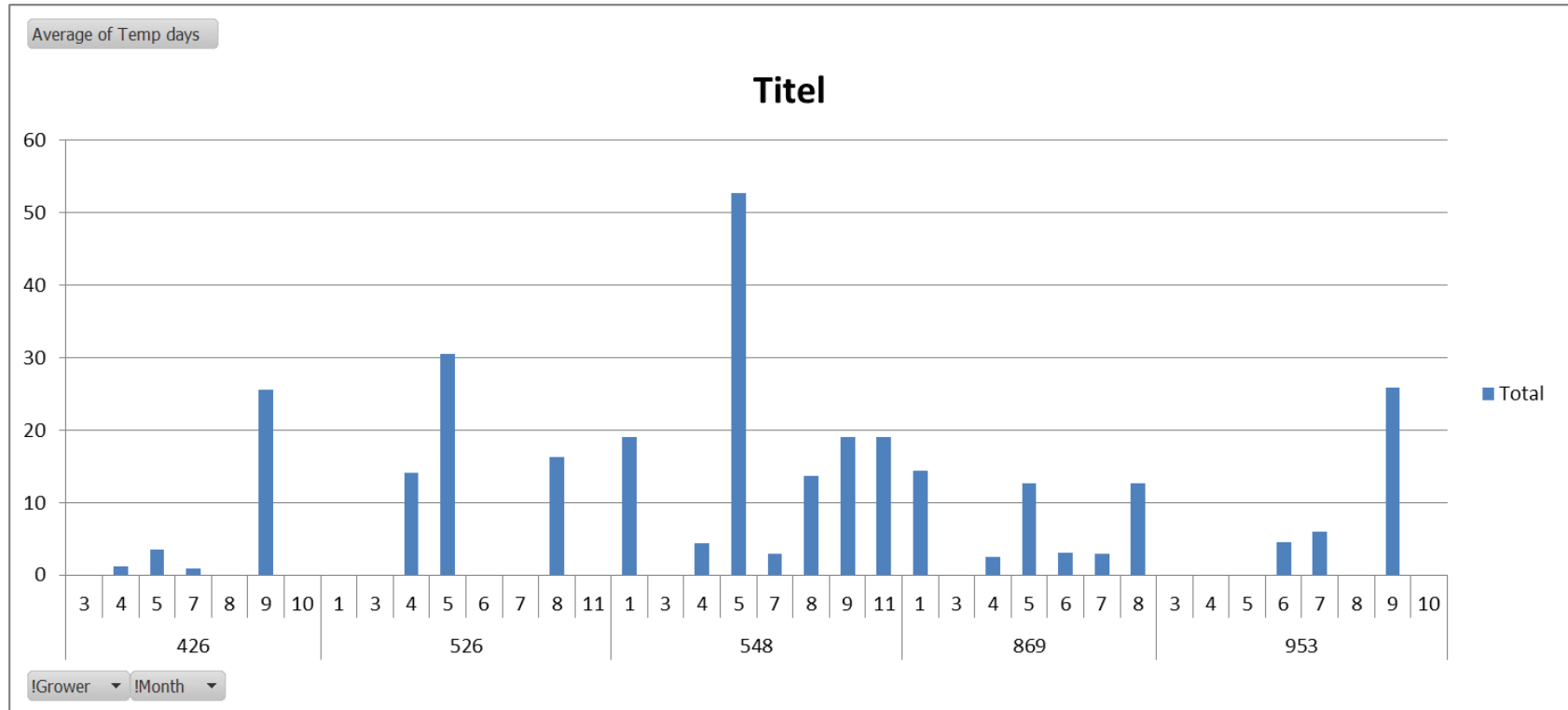


Bron: Google Earth

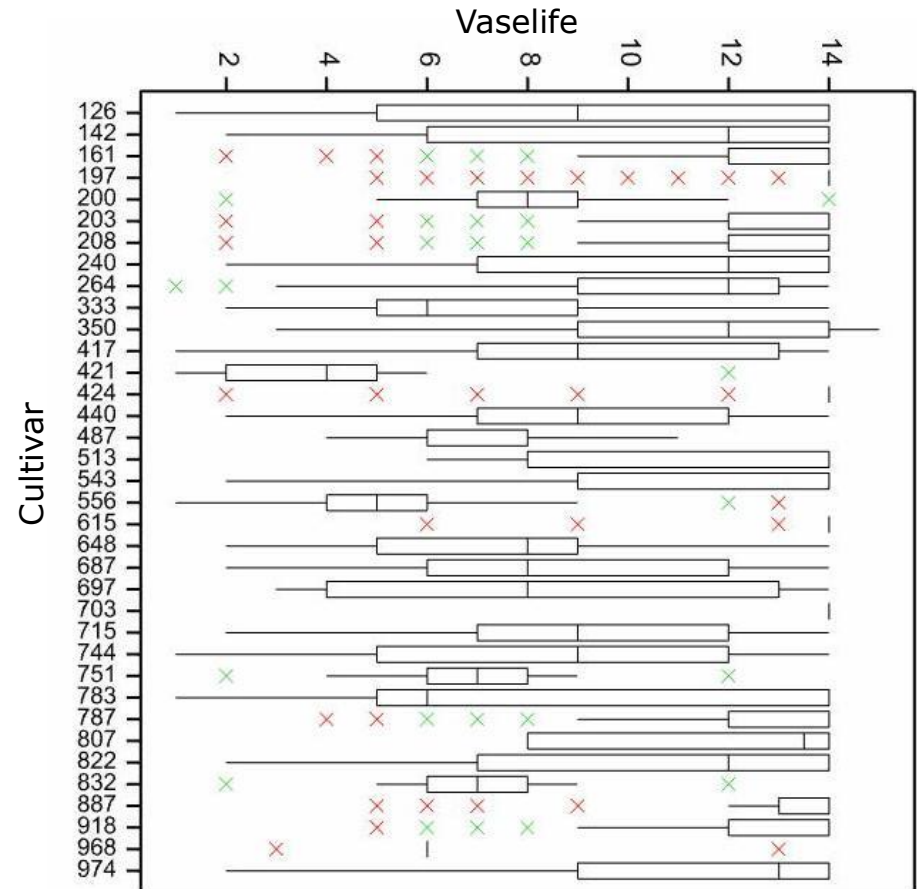
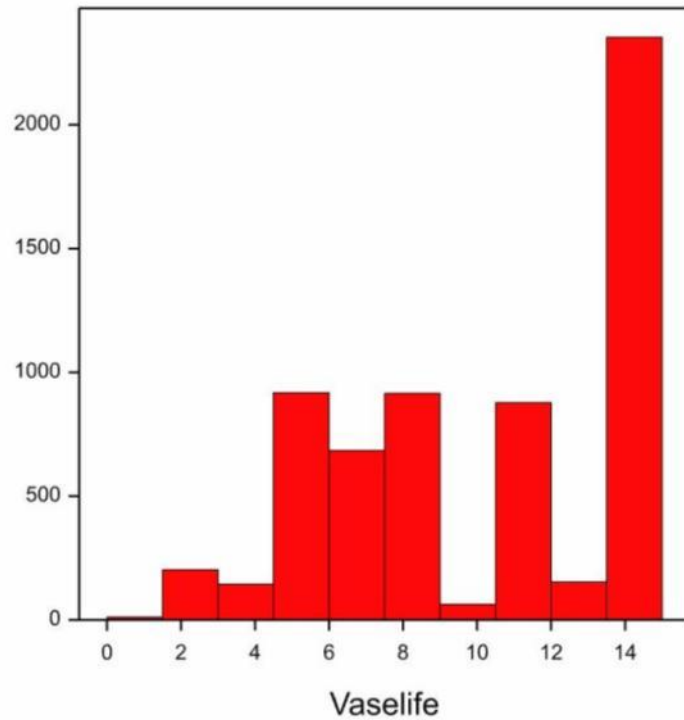
Data - teeltklimaat



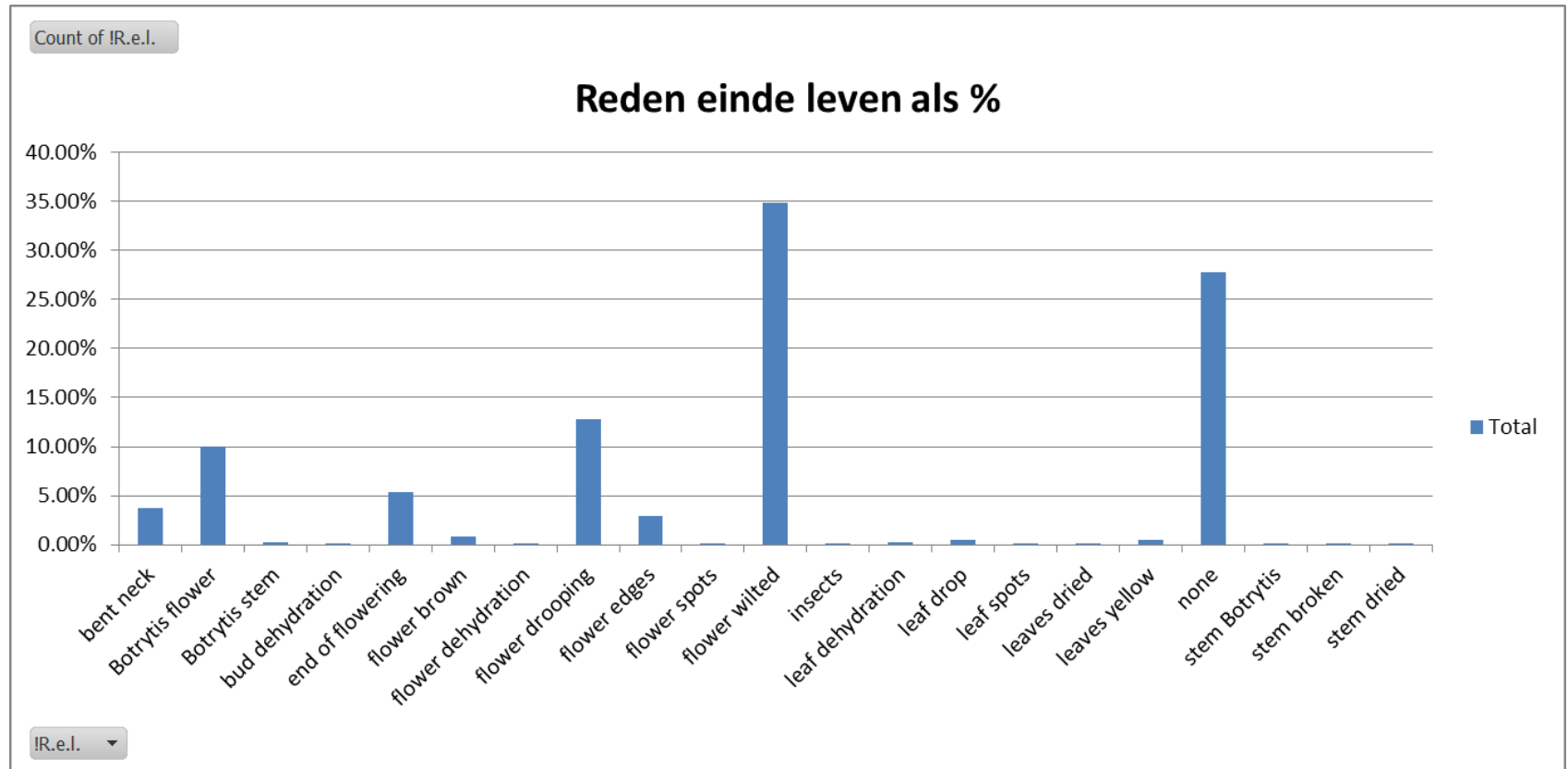
Data - ketencondities



Data - Vaasleven



Reden einde Vaasleven



Kolommen rode tabel

Symptoom	Factoren die kwaliteit beïnvloeden									
	Bloemontwikkeling					Bladkwaliteit				
	Bent Neck	Bloemontwikkeling	Botrytis schimmel	Fysiologische verstoring	Meeldauw	Vatverstoppling	Uitdroging	Fysiologische verstoring	Beschadiging	Senesence
Mogelijke oorzaken	Vatverstoppling	Uitgroei	Kiemen							
Temperatuur 0.5>T>4 [°C]										
Tijdsduur <21 (dgn)										
Luchtvochtigheid 85>R.V.>95 (%)										
Cultivar										
Rijpheid bij oogst (VBN stadium)										
Na-oogst behandelingen										



Verklaren vaasleven door transportcondities

Uncertainty analysis

Response variate: Vaselife
Number of units: 1643
Mean: 8.925
Variance: 10.89
R2-adjusted: 4.7

Lage
verklarende
waarde

Bottom and top uncertainty contributions based on linear fit

input	estimate	bottom%	top%	Sumdf
Ave_Temp	-5.031E-01	1.0	4.6	1
Duration_hrs	-1.447E-02	0.0	0.2	1
Temp_hrs	3.328E-03	0.2	2.4	1
Temp_days	-2.083E-02	0.2	0.2	1



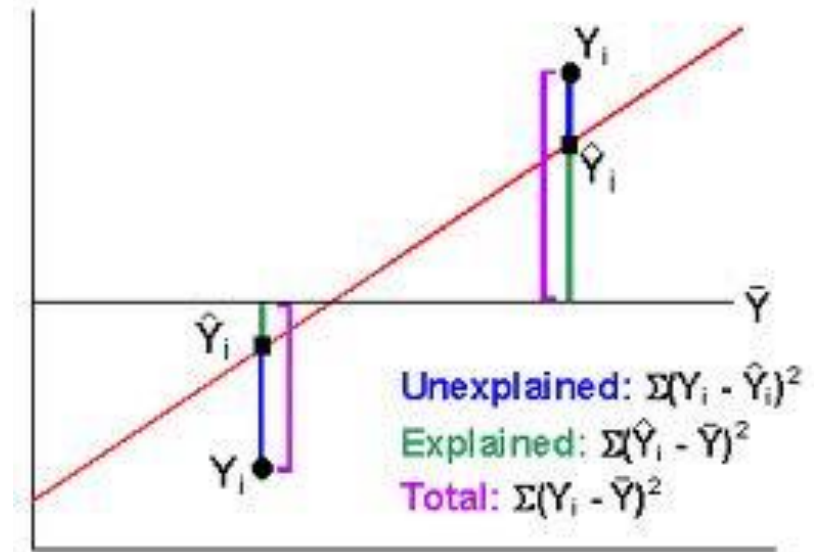
Verklarende waarde

Vaasleven verklaard door:

- Transportcondities 4.7%
- Klimaatgegevens 6.7%

Erg laag!

- Focus op Reason End Life (REL)



REL en Vaasleven

31% wordt verklaard door:

- Cultivar

17% wordt verklaard door:

- REL:
 - Bent Neck
 - Botrytis
 - End of flowering
 - Drooping
 - Edges
 - Wilting

DROOPING		
Cultivar	Vase life	Sign.
556	4.346	a
421	4.767	a
687	7.2	b
751	7.4	b
333	7.646	b
648	7.792	b
200	8.143	b
126	8.4	b
787	8.625	bc
822	8.833	bc
715	8.914	bc
417	9.129	bc
974	9.158	bc
440	9.5	bc
543	10.356	bc
887	10.75	bcd
240	10.75	bcd
350	11.021	bcd
424	11.5	bcd
161	11.571	bcd
918	11.862	bcd
203	12	bcd
208	12.042	cd
197	12.062	cd
264	12.978	d

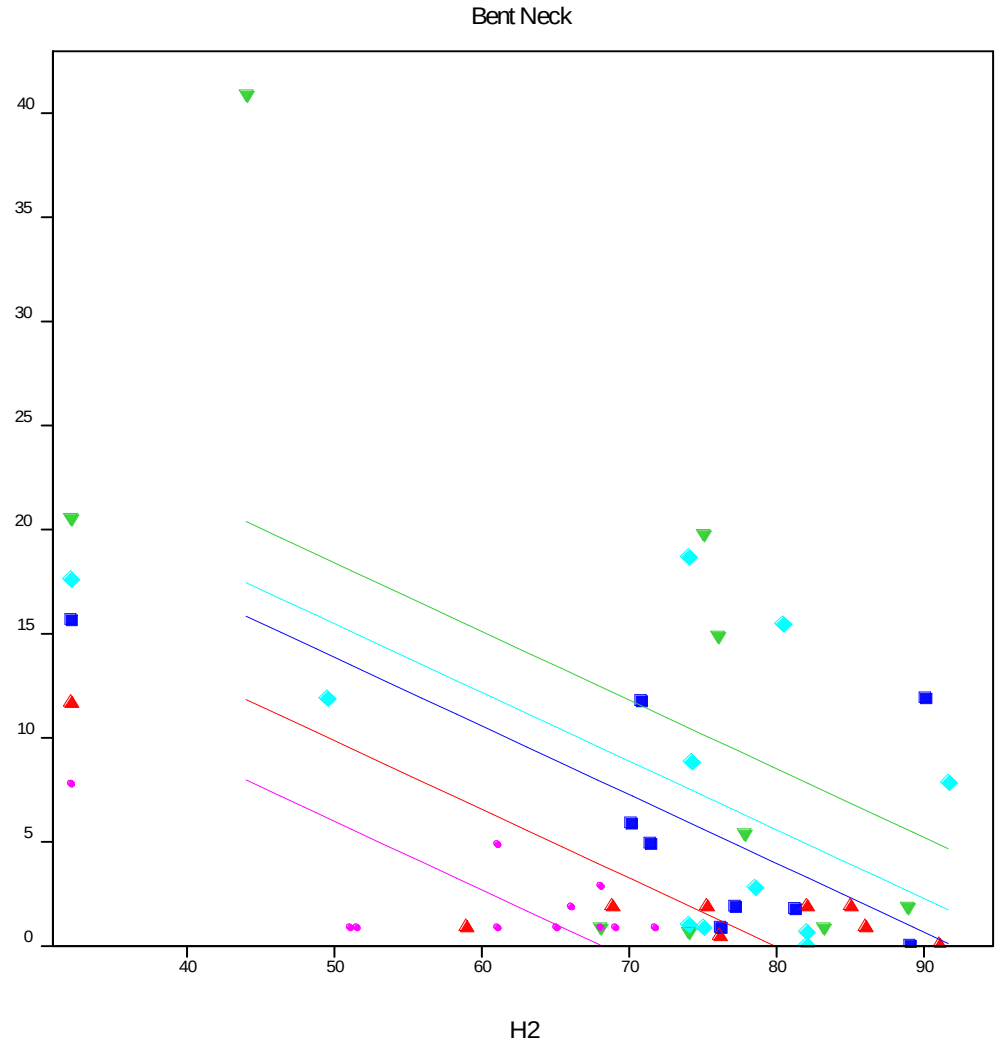
WILTING		
Cultivar	Vase life	Sign.
421	3.756	a
556	4.6	a
751	6.767	b
333	7.085	b
126	8.265	bc
424	8.786	bcd
440	8.951	cd
715	9.207	cd
417	9.344	cd
822	9.533	cd
203	10.623	de
208	10.958	def
350	10.985	def
161	11.044	def
142	11.057	def
543	11.2	ef
887	11.511	ef
918	12.1	f



Bent Neck

32 % verklaard door:

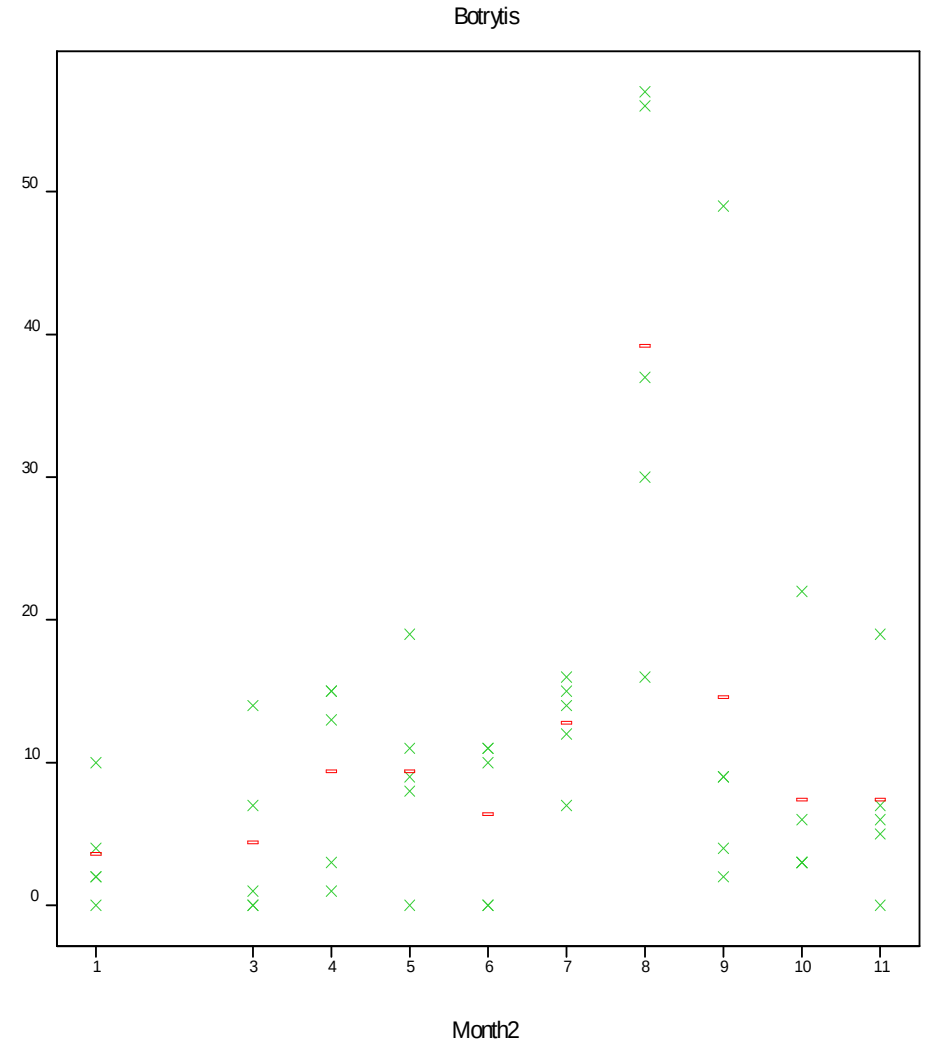
- Luchtvochtigheid 14%
- Teler 23%
- Neerslag 4%



Botrytis

44% verklaard door:

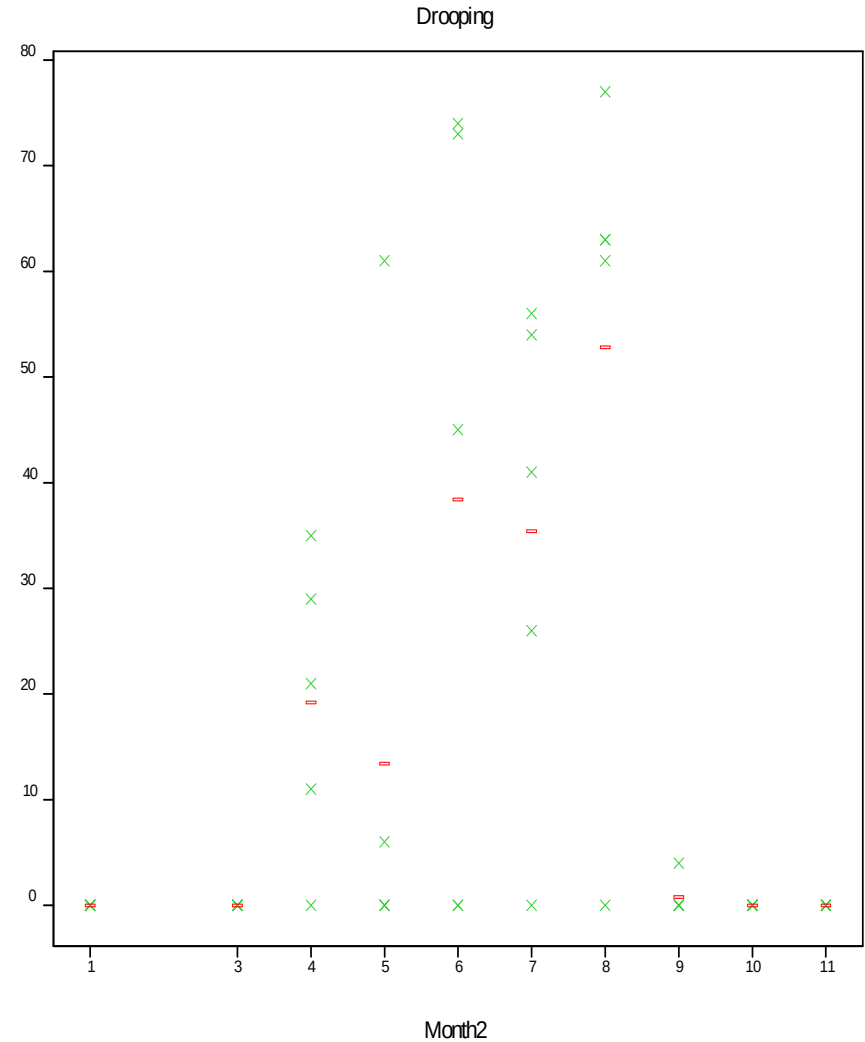
■ Maand



Drooping

61% verklaard door:

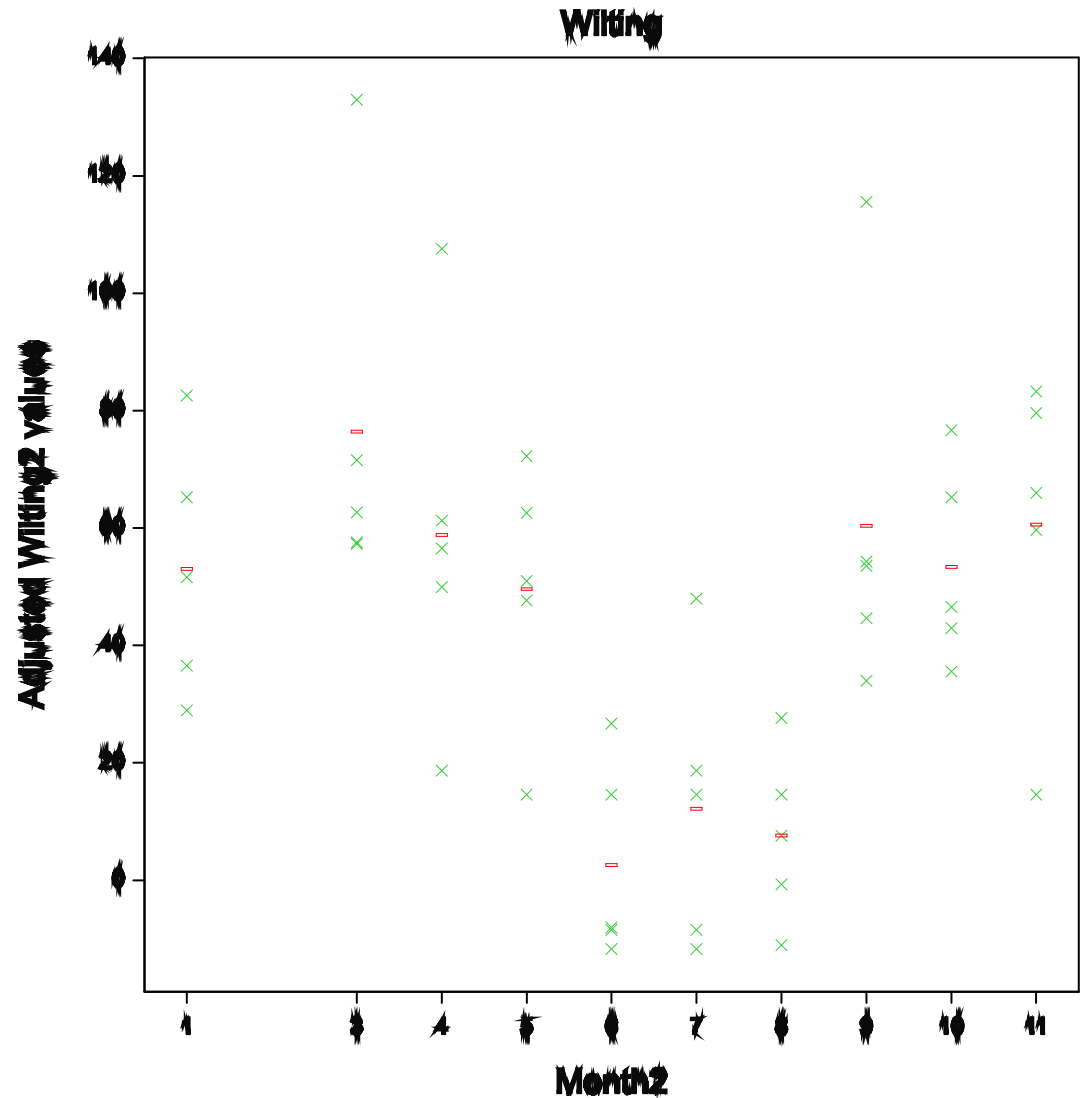
■ Maand



Wilting

52% verklaard door:

- Maand (47%)
- Teler (14%)

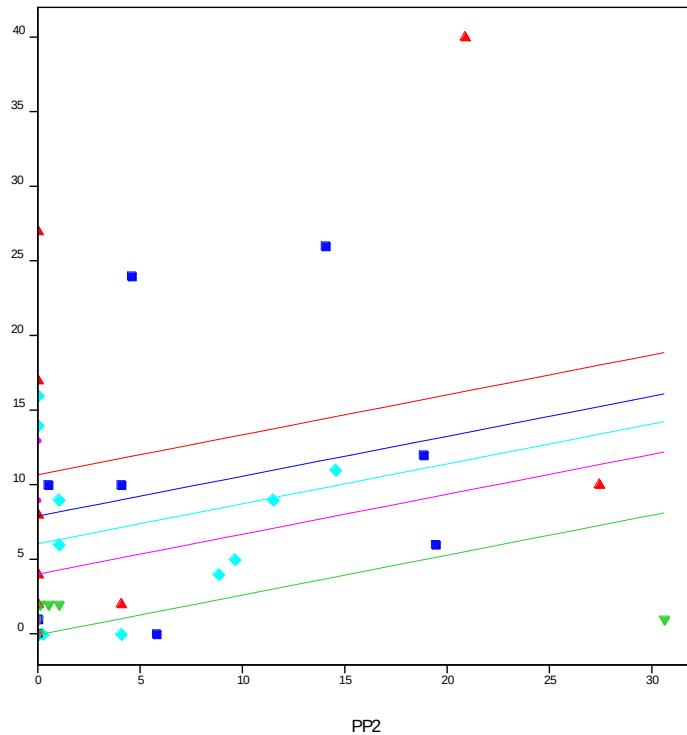


Overige REL's

EOF 16% door:

- Teler
- Neerslaag

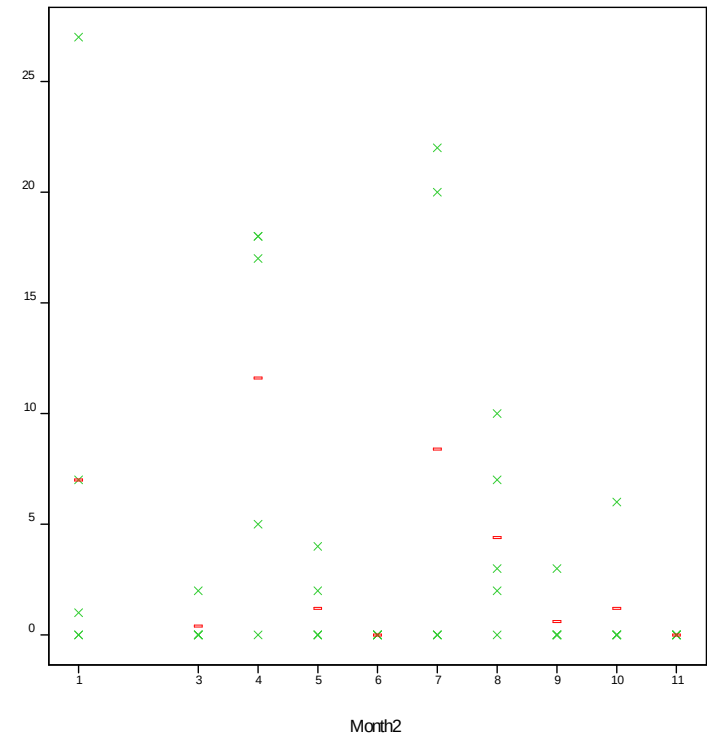
EOF



Edges 16 % door:

- Maand

Edges



Samenvattend

- Vaasleven **alleen** verklaren door klimaat- en transportcondities niet mogelijk
 - Cultivar moet bekend zijn
- Vaasleven verklaren via vaasleven beperkende symptomen (Wilting, Bent Neck, Botrytis, etc.) goed mogelijk met:
 - Cultivar
 - Maand
 - Teler
 - Luchtvochtigheid/Neerslag



Contact

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