

FRESH NOTES

A TECHNICAL UPDATE PUBLISHED BY HORTGRO SCIENCE

Please find a poster depicting the visual symptoms of plum marbling on plums with mechanisms of control and recommendations to prevent further spreading of the plum viroid I (PVd-I) available to download in **ENGLISH** or **AFRIKAANS** below:

ENGLISH VERSION

AFRIKAANSE WEERGAWE

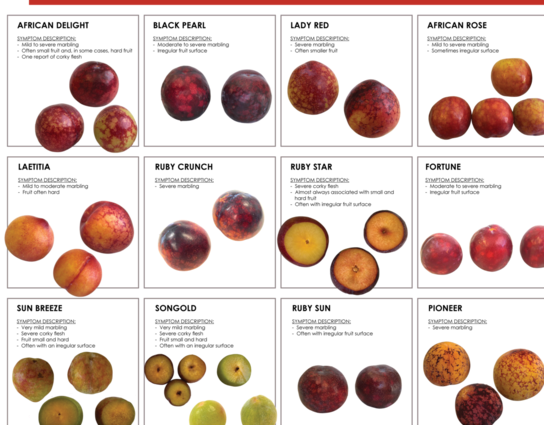
plum MARBLING

HORTGRO
Growing Fruit IQ

Symptoms of plum marbling only occur on fruit.
All parts of infected trees contain the viroid, but no other abnormalities have been observed.

LIST OF SYMPTOMS:

- Irregular skin colouration or marbling seen on infected plums, the plums can differ in their symptom expression ranging from light marbling to very severe where the fruit are completely unmarketable.
- Plums can be small and hard with an irregular shape and uneven surface.
- Plums may have so-called corky flesh (in both yellow-skinned and red-skinned fruit).



Plum marbling is an infectious disease of Japanese plums caused by plum viroid I (PVd-I). A viroid is a small circular RNA molecule that replicates and circulates through the host plant.

Pictures by H. Maree. Information compiled by H. Maree and R. Bester, with input by C. Stander.

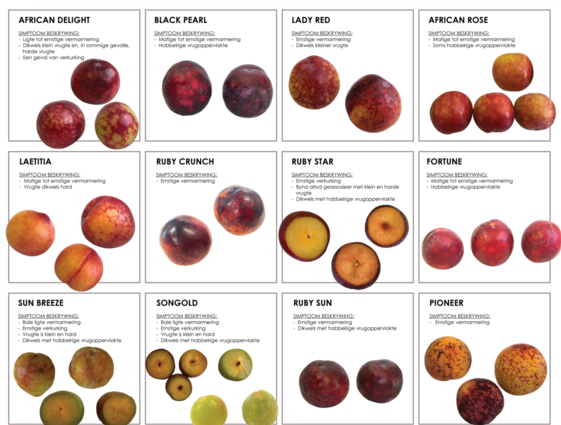
pruim VERMARMERING

HORTGRO
Growing Fruit IQ

Simptome van pruimvermarmering kom slegs voor op vrugte.
Alle gedeeltes van geïnfecteerde bome bevat die viroïed, maar geen ander abnormaalte is al waargeneem nie.

LYS VAN SIMPTOME:

- Onegalyke verkleuring of vermarmering van geïnfecteerde pruime se skil.
- Die pruime kan verskil in die straltheid van hul simptome - van ligte vermarmering tot swaar vermarmering wat vrugte onbemarkbaar maak.
- Pruime kan klein en hard wees met 'n abnormale vorm en 'n ongelyke oppervlakte.
- Pruime kan sogenaamde verkurking toon (in beide geel- en rooiskil vrugte).



Vermarmering is 'n oordraagbare siekte van Japanse pruime wat veroorsaak word deur pruim viroïed I (PVd-I). 'n Viroïed is 'n klein sirkulêre RNA molekule wat repliseer en sirkuleer deur die gasheerplant.

Foto's deur H. Maree. Informasie saamgestel deur H. Maree en R. Bester, met insette van C. Stander.

FRUIT SYMPTOMS					
Cultivar	Marbling	Corky Flesh	Hard	Small	Irregular
African Delight	***	*	*	**	-
Black Pearl	***	-	-	-	***
Lady Red	***	-	-	**	-
Laetitia	**	-	**	-	-
Pioneer	***	-	-	-	-
Ruby Crunch	***	-	-	-	-
Ruby Star	-	***	***	***	**
Ruby Sun	***	-	-	-	**
Songold	***	***	***	***	**
Sun Breeze	***	***	***	***	**

* Indicates the approximate frequency of the symptom. (* <25%, ** 25-75%, *** >75%)
Colour indicated the severity of the symptom (Mild, Moderate, Severe)



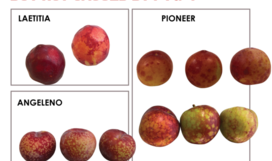
TESTS - CONTACT POINTS

The presence of PVd-I can be confirmed by laboratory testing at SAPO Trust or the Plant Disease Clinic at Stellenbosch University.

SAPO Trust
021 887 6823
Contact persons:
Lize Burger - lize@sapo.co.za
Roleen Carstens - roleen@sapo.co.za

Plant Disease Clinic
Department of Plant Pathology Stellenbosch University
Contact persons:
Sonja Coertze - 021 808 4798 / sc2@sun.ac.za
Tammy Jensen - 021 808 4223 / tammy@sun.ac.za

SIMILAR SYMPTOMS BUT NOT CAUSED BY PVd-I



VRUG SIMPTOME					
Kultivar	Vermarmering	Verkurking	Harde Vrugte	Klein Vrugte	Hobbelige Oppervlakte
African Delight	***	*	*	**	-
Black Pearl	***	-	-	-	***
Lady Red	***	-	-	**	-
Laetitia	**	-	**	-	-
Pioneer	***	-	-	-	-
Ruby Crunch	***	-	-	-	-
Ruby Star	-	***	***	***	**
Ruby Sun	***	-	-	-	**
Songold	***	***	***	***	**
Sun Breeze	***	***	***	***	**

* Dui aan wat die frekwensie van die simptome ongeveer is. (* <25%, ** 25-75%, *** >75%).
Die kleur dui die straltheid van die simptome aan. (Lig, Matig, Ernstig)



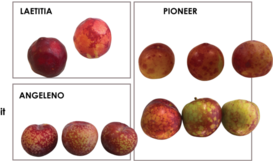
TOETSE - KONTAKPUNTE

Die teenwoordigheid van PVd-I kan bevestig word deur laboratoriumtoetse by SAPO Trust of by die Plant siekte kliniek by Stellenbosch Universiteit.

SAPO Trust
021 887 6823
Kontakpersone:
Lize Burger - lize@sapo.co.za
Roleen Carstens - roleen@sapo.co.za

Plant siekte Kliniek
Departement van Plant Patologie, Stellenbosch Universiteit
Kontakpersone:
Sonja Coertze - 021 808 4798 / sc2@sun.ac.za
Tammy Jensen - 021 808 4223 / tammy@sun.ac.za

SOORTGELYKE SIMPTOME, MAAR NIE VERDOERSAAK DEUR PVd-I NIE



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