



Davidson
Viticulture

**MAHAWINE EXPOSITION
JANUARY 2008
ROOTSTOCKS FOR WINEGRAPES**

**Presented by Ms Dianne Davidson
Of
DAVIDSON VITICULTURE
AUSTRALIA'S VINE EXPERTS**

Richter 110



Davidson
Viticulture

- Moderate vigour
- Long vegetative cycle
- Moderate - high drought tolerance
- Moderate salt tolerance
- Moderate tolerance to water-logging
- Moderate nematode resistance
- Short shoot growth from Merlot and Chardonnay where soils are restrictive

Kober 5BB



Davidson
Viticulture

- Moderate – high growth and yield
- Shallow rooted
- High lime tolerance
- Moderate sensitivity to saline soils
- Poor tolerance to water-logging and drought
- Susceptible to dagger and root-lesion nematode
- Grafts poorly with high virus load scions

SO4



Davidson
Viticulture

- Moderate vigour, can encourage high yield
- Shallow rooted
- High lime tolerance
- Low acid tolerance
- Best in light, well-drained soils of low fertility
- Poor drought tolerance and moderate sensitivity to salt
- Poor assimilator of magnesium
- Moderate nematode resistance
- Vigour decreases after 15-20 years

3309C



Davidson
Viticulture

- Low – moderate vigour
- May advance fruit maturity and assist varieties with poor set
- Good for deep, well-drained cool soils; unsuited to dry, shallow conditions and heavy soils
- Deep rooted
- Moderate to low lime and acid tolerance
- Poor salt tolerance
- Susceptible to root-knot nematodes

1103 Paulsen



Davidson
Viticulture

- Moderate - vigorous growth
- Deep rooted
- Lime and acid tolerant
- Good resistance to root-knot nematode
- Can tolerate degree of water-logging
- Drought tolerance due to good water use efficiency
- Good tolerance to saline soil

140 Ruggeri



Davidson
Viticulture

- Vigorous, high yielding
- Drought tolerant
- Salt tolerant
- Lime tolerant
- Moderate nematode resistance
- Moderately susceptible to spring water-logging in early years

101-14



Davidson
Viticulture

- Moderate-low vigour
- Lower yielding in cooler climates
- Short vegetative cycle
- Moderate lime tolerance
- Unsited to acid soils
- Possibly susceptible to water-logging
- Good salt tolerance
- Moderate nematode resistance

Riparia Gloire



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Viticulture

- Low drought tolerance
- Low salt tolerance
- Low lime tolerance
- Short vegetative cycle
- Low rootknot nematode resistance

420A



Davidson
Viticulture

- Low – moderate vigour
- Long vegetative cycle
- Shallow rooted
- Low drought tolerance
- Low salt tolerance
- Moderate-high lime tolerance
- Susceptible to Dagger and Root lesion nematodes

Fercal



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Viticulture

- Very high lime tolerance
- Moderate vigour
- Low drought tolerance
- Shallow rooted
- Advanced maturity

Gravesac



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Viticulture

- Moderate vigour
- Low rootknot nematode resistance
- Moderate drought tolerance
- Moderate tolerance to water-logging
- High lime tolerance
- High salt tolerance

41B



Davidson
Viticulture

- Moderate vigour
- Short vegetative cycle
- Low rootknot nematode resistance
- Moderate drought tolerance
- Low water-logging tolerance
- High lime tolerance



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P O Box 845
Langhorne Creek
South Australia 5255

Telephone + 61 8 85370 511
Fax + 61 8 85370 518

Web www.dvcs.com.au

Email dvcs@dvcs.com.au