



Bounty vs Bruno — what is my risk?

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Psa R&D Update
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Introduction

- Gold3 growers have experienced problems with bud rot since 2016
- About **29% incidence** in 2018 (in an experimental site) with a final production of **13,000 trays/ha**
- These affected Gold3 vines were **grafted** on **‘Bounty71’** rootstock
- **‘Bounty71’** rootstock has some **advantages over ‘Bruno’**:
 - **Increased bud break**
 - **Increased flowering** — More floral shoots, king flowers/bud, lateral flowers/winter bud
 - **Higher productivity** — Higher dry matter, fruit weight and crop load
 - **Advanced maturity** — higher OGR, Kiwistart
 - **Lower susceptibility to anaerobic conditions** (heavy soils, water logging)
- However, **is bud rot a risk** on this rootstock?
- The extent of the problem and its epidemiology has not been studied



‘Bounty71’ **‘Bruno’**
(about 8 years old)

Aims

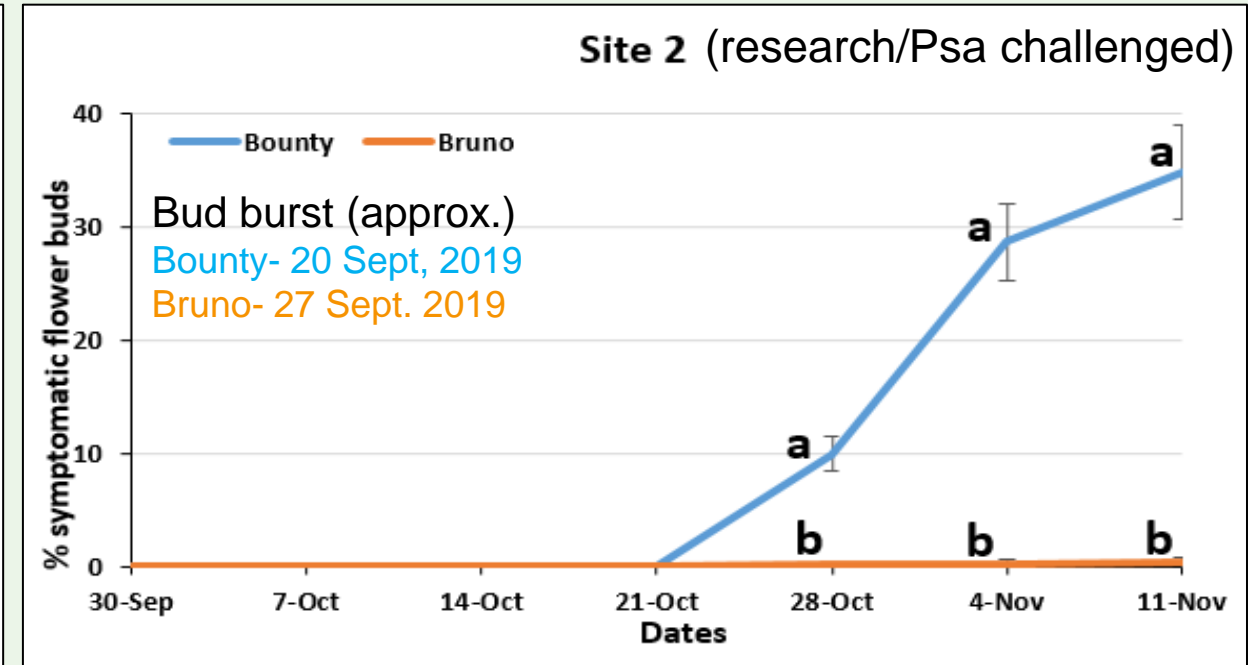
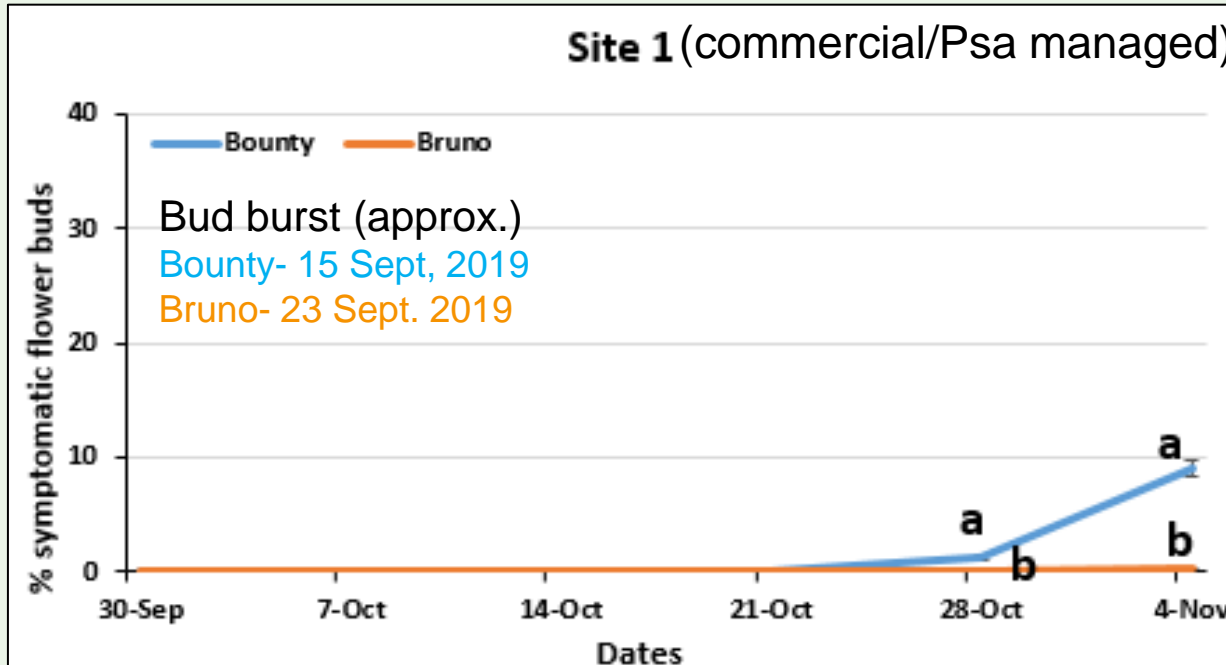
Survey Gold3 bud rot on Gold3–'Bounty71' compared with Gold3–'Bruno' to gather a better **understanding** of the **potential risk factors** of **bud rot**

Materials and methods

- Experiment conducted in commercial and research sites in the Bay of Plenty (BOP)
- History of this bud rot incidence
- Monitored buds of 15 vines for bud rot incidence (100 buds/vine)
- About 8 year old rootstock and grafts

Results

Bud rot comparison between Gold3–'Bounty71' and Gold3–'Bruno'



- Significantly more bud rot on Gold3–'Bounty71' than Gold3–'Bruno'
- Growers may need to pay more attention to Psa management when Gold3 is on 'Bounty71' rootstock

Bud rot comparison between Gold3–'Bounty71' and Gold3–'Bruno' (cont.)



Gold3–'Bruno'

Gold3–'Bounty71'



Gold3–
'Bounty71'



Gold3–
'Bruno'

Gold3–'Bounty71'
and Gold3–'Bruno'
in one bay

What could be the risk factors

- Weather events (e.g. rainfall)
- Orchard management practices
- Inoculum load

Year	Psa management				Weather at bud thinning	Remarks on flower loss
	July	Aug.	Sept.	Oct.		
2018	1	-	2	3	Significant rainfall	About 30%
2019	1	1	3	1	Dry spell	Less than 10%

Suggestions

- Managing inoculum load
- Bud thinning in dry conditions

Summary

Gold3–'Bounty71' vines had significantly **higher bud rot** incidence than Gold3–'Bruno' suggesting Gold3–'Bounty71' growers may need to **pay more attention to Psa management**

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Thank you

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