International Macadamia Symposium 2023

IMS'23

MOVING FORWARD TOGETHER

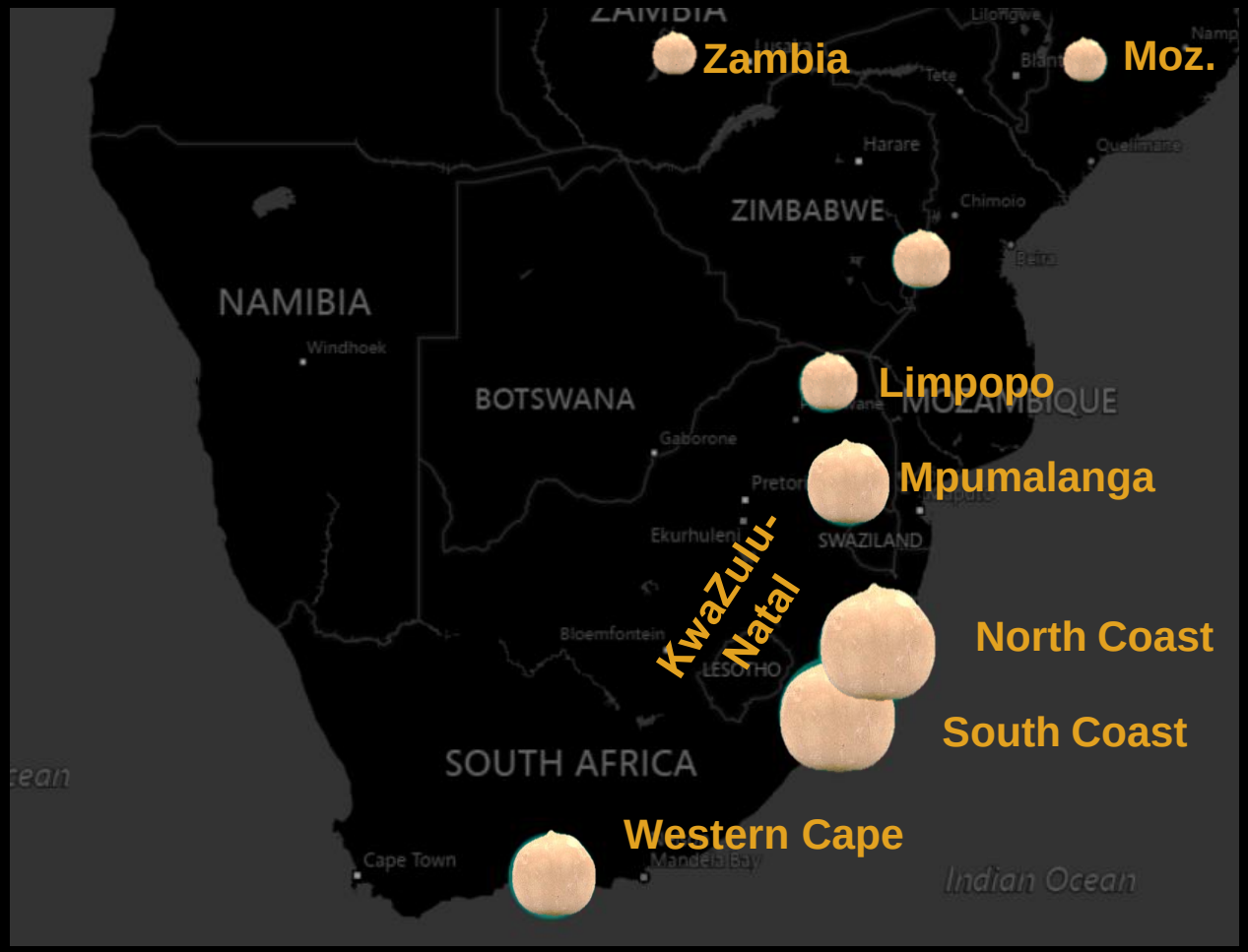
Macadamias South Africa (NPC)
(SAMAC)

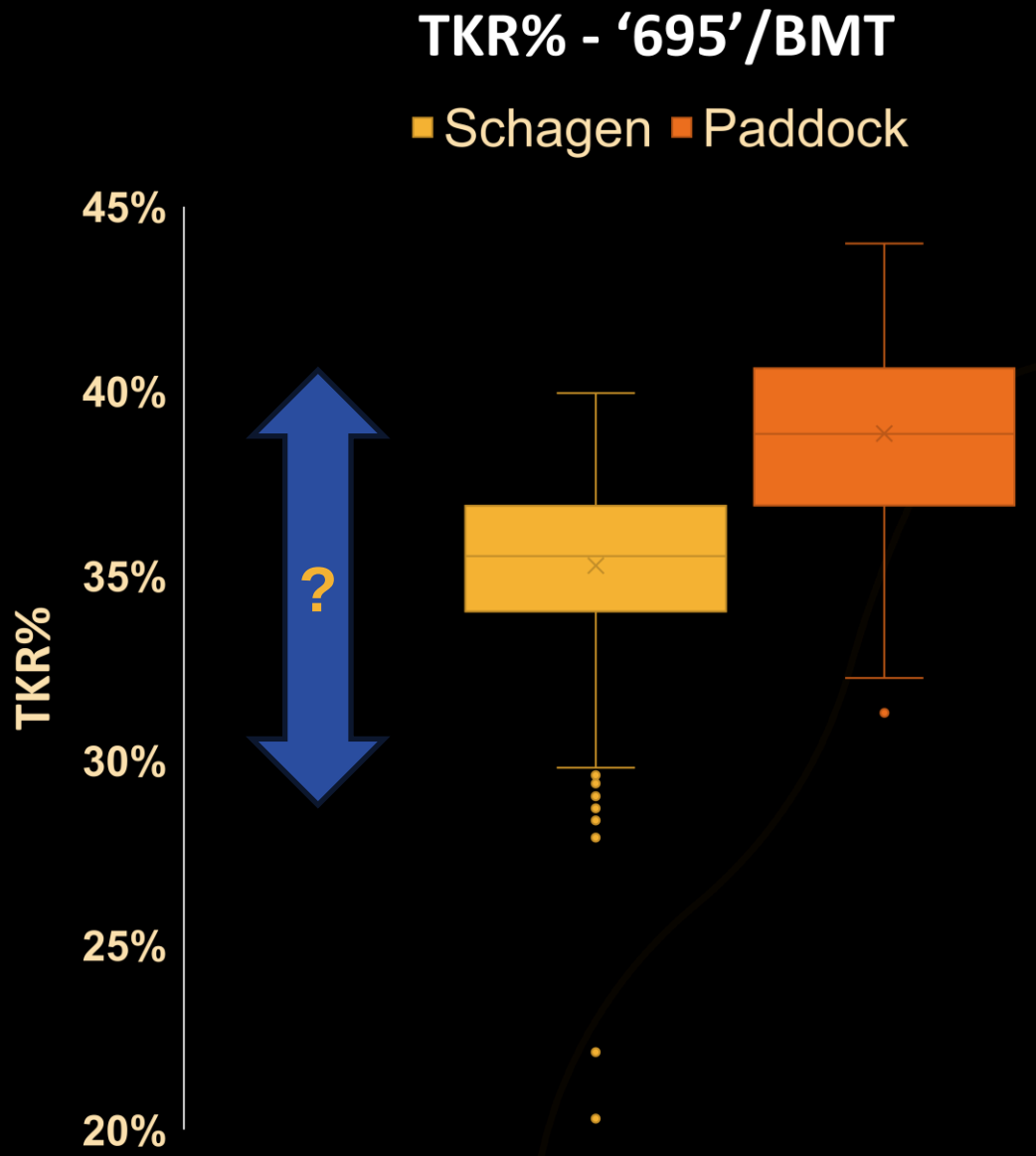
Optimising Kernel Recovery

Rohan Orford* & Andrew Sheard**

*Australian Premium Macadamias

**Mayo Macs SA





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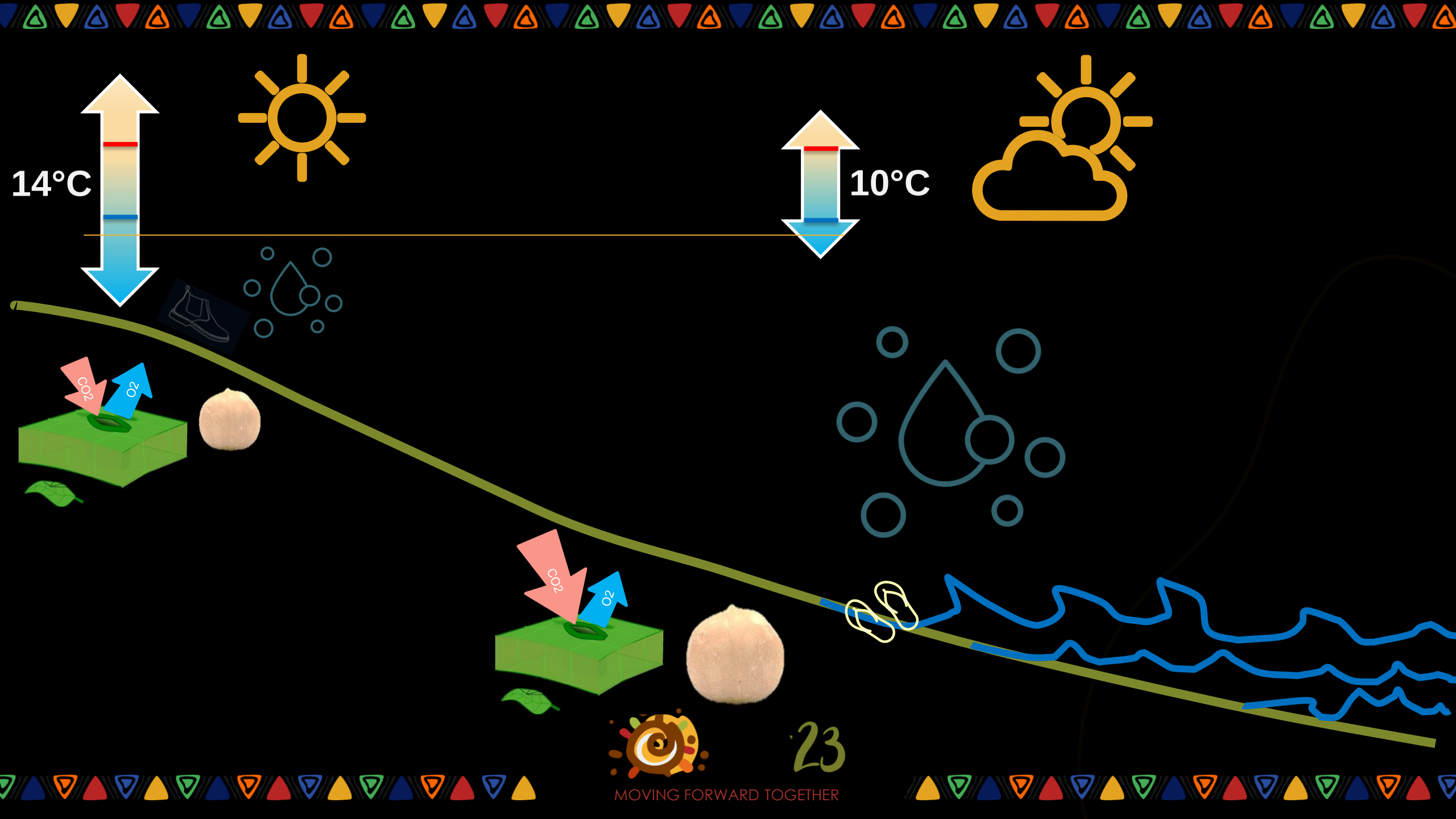
14°C
10°C
CO2
O2
CO2
O2
'23
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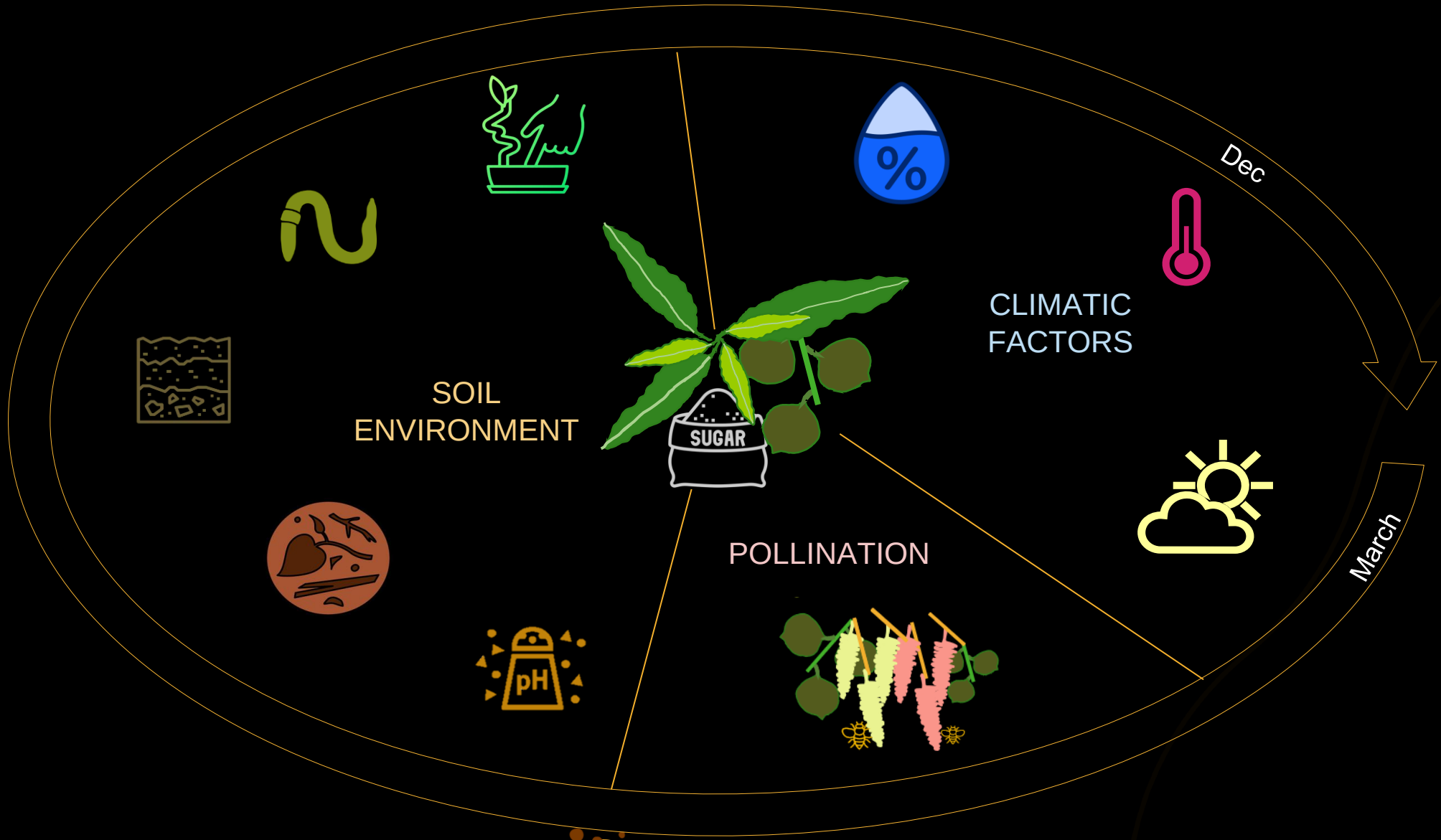

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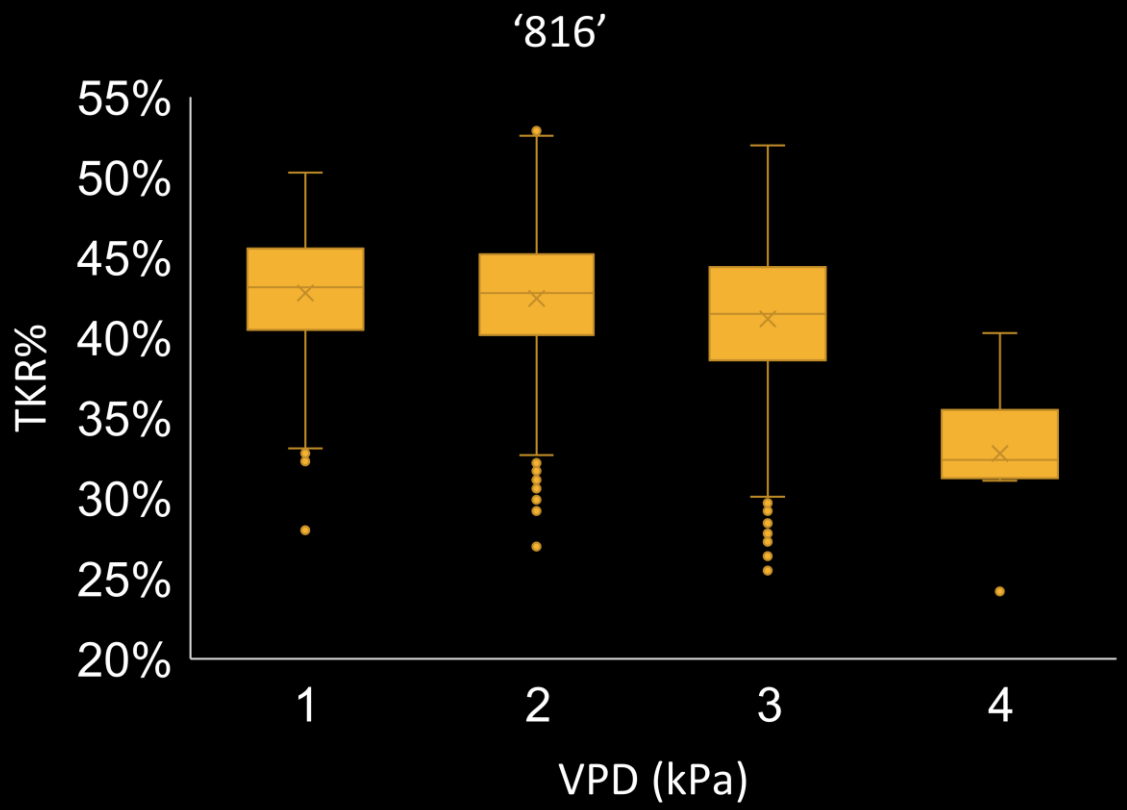
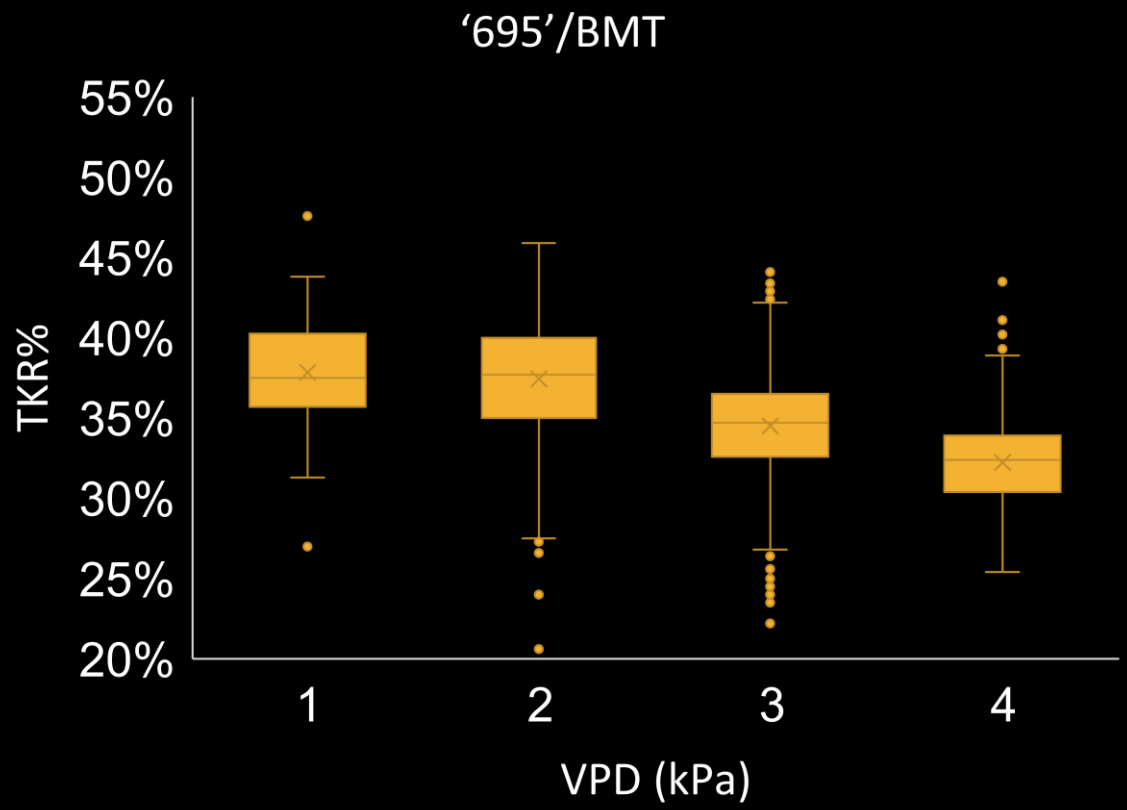
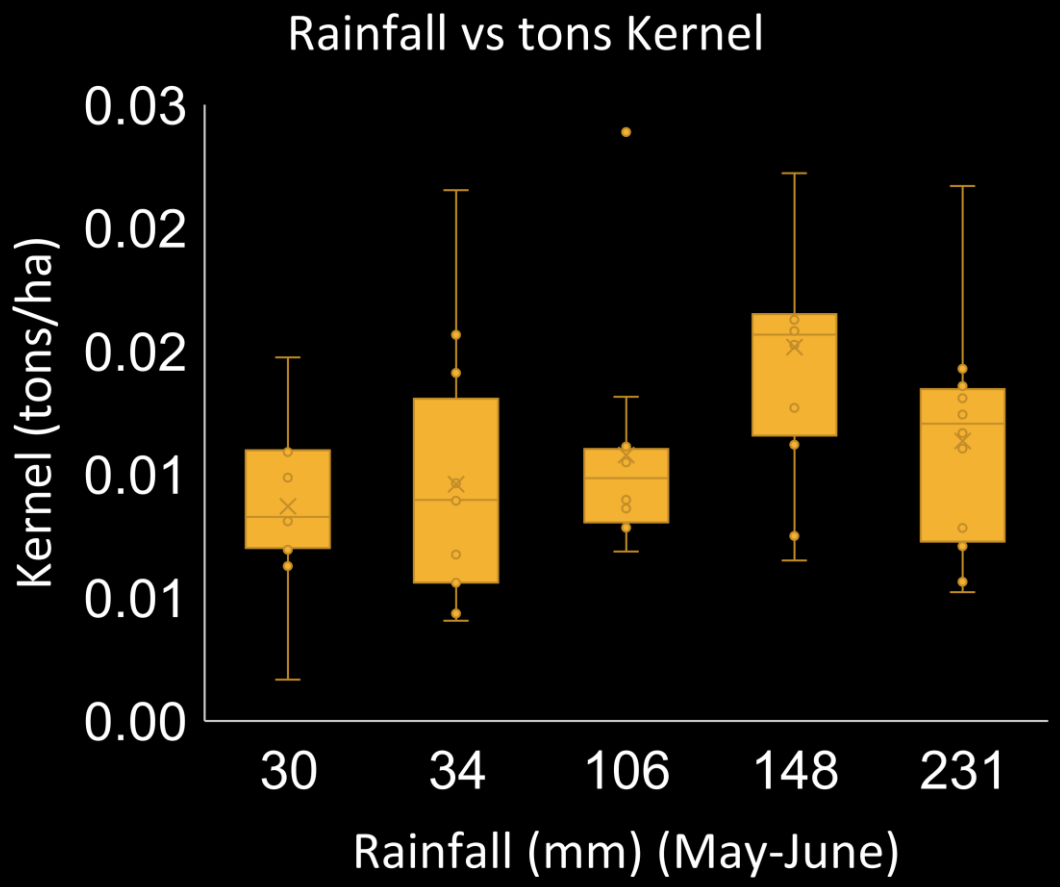
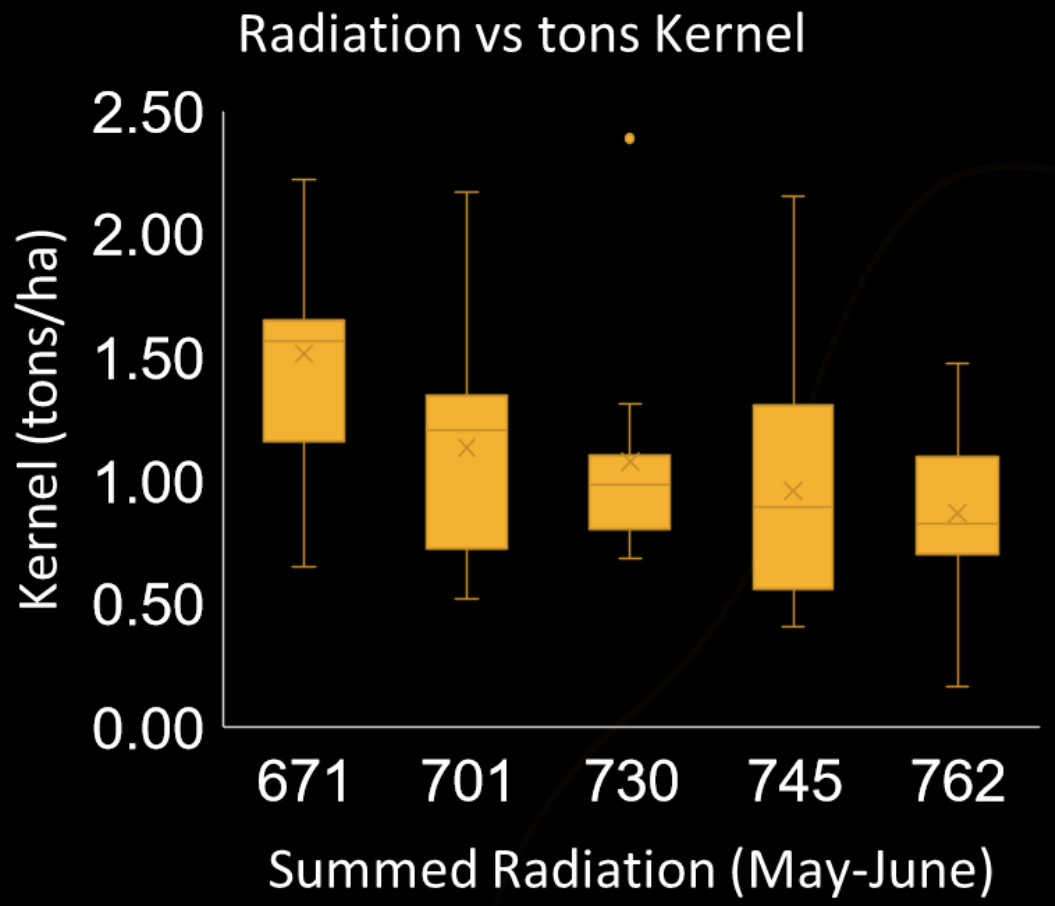
Regional TKR% Differences



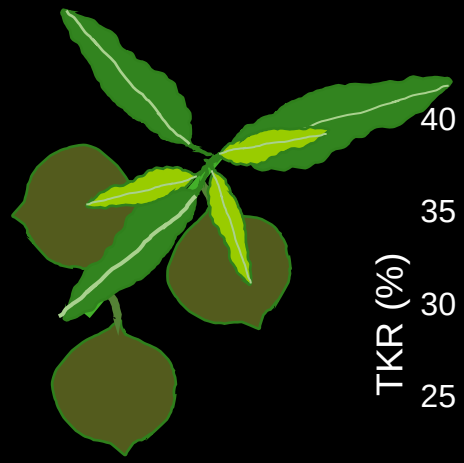


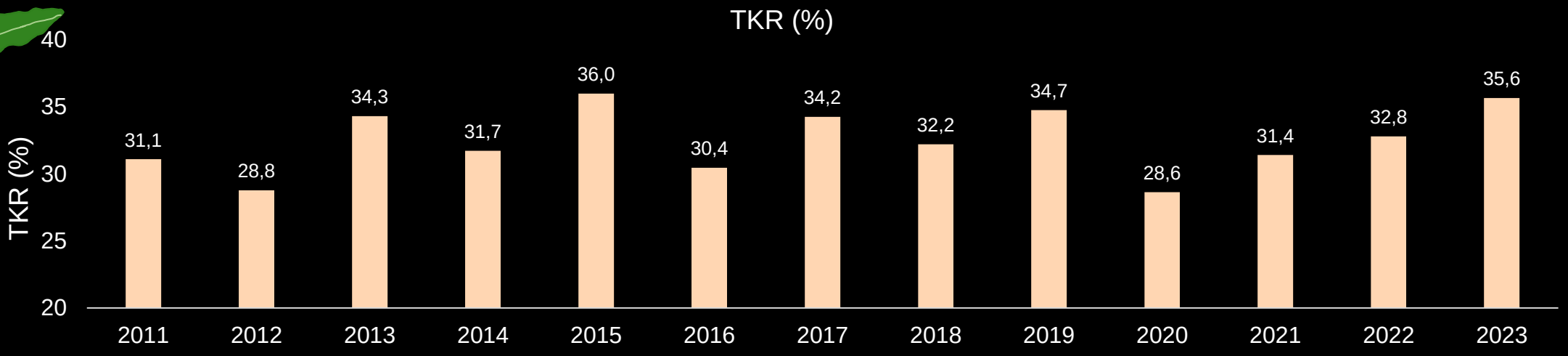
Rainfall (May/June) vs kernel (tons/ha)

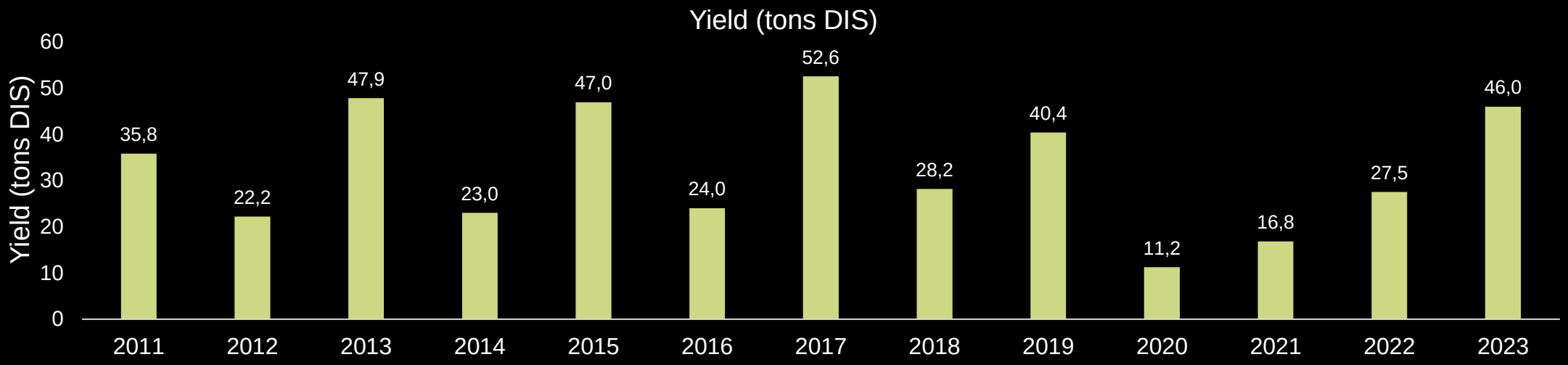




Yield vs TKR% ('695'/BMT)







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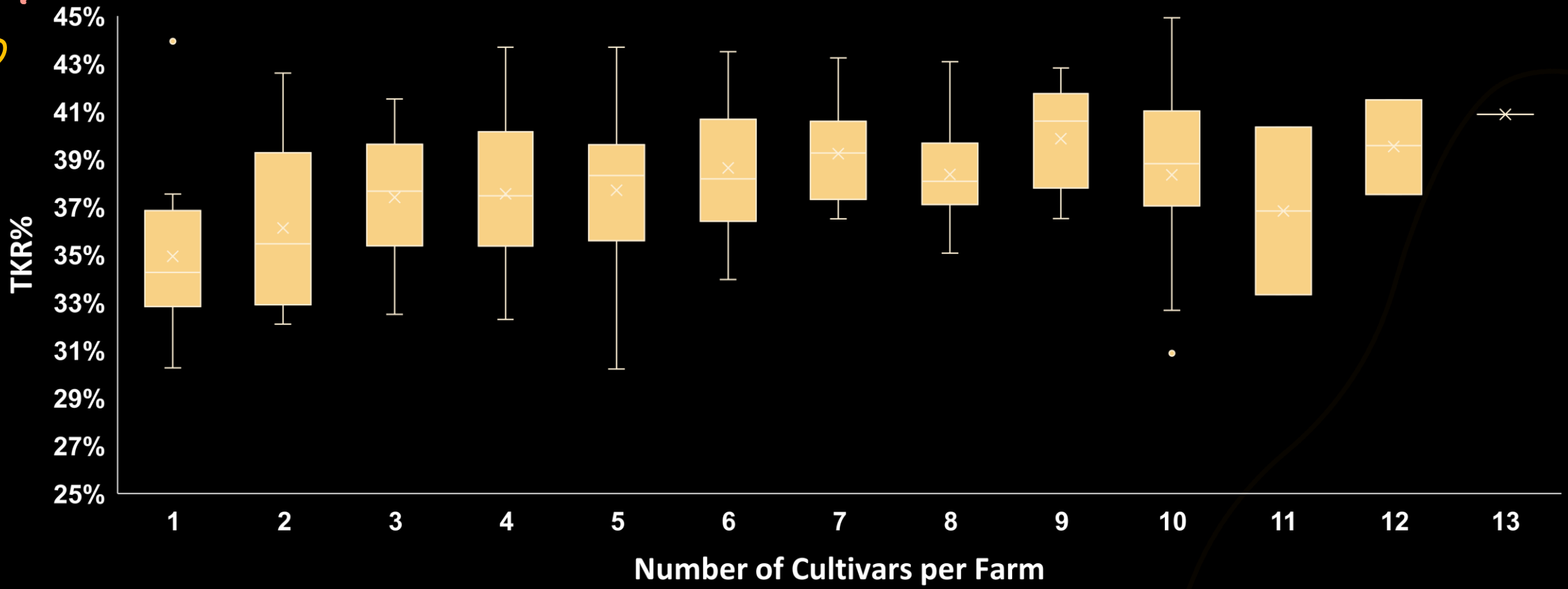
Number of Cultivars per farm & TKR% (SA)



Cross pollination impact on TKR%

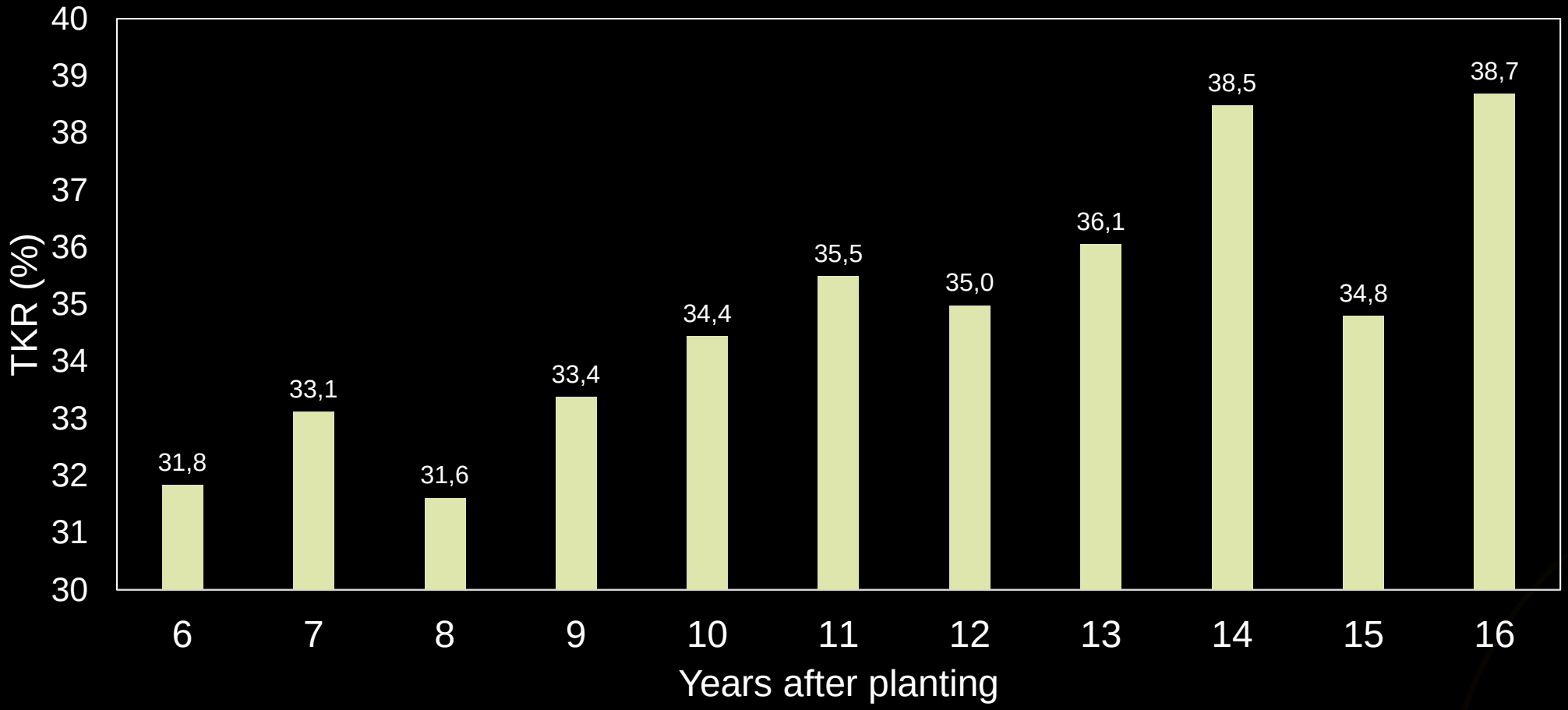
	Maternal parent x pollen parent				
	816 x 816 (self)	816 x 741 (cross)	816 x 842 (cross)	816 x A203 (cross)	816 x A4 (cross)
Row 3					
Nut-in-shell mass	5.58 ± 0.23 a	5.93 ± 0.08 a	6.50 ± 0.09 b	7.02 ± 0.10 c	7.15 ± 0.13 c
Kernel mass	2.21 ± 0.15 a	2.41 ± 0.05 a	2.77 ± 0.05 b	3.18 ± 0.06 c	3.14 ± 0.07 c
Kernel recovery	39.3 ± 1.6 a	40.4 ± 0.7 a	42.6 ± 0.4 ab	45.2 ± 0.5 c	44.0 ± 0.6 bc

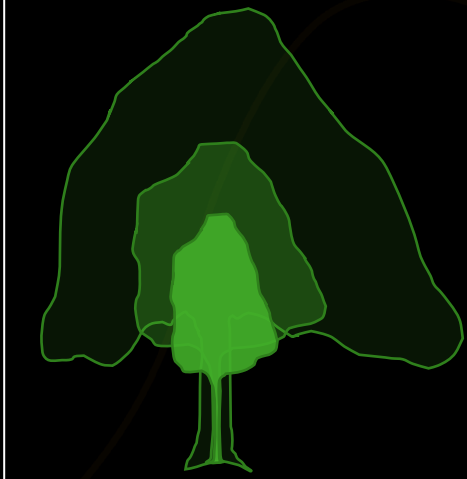
Means (± SE) with different letters within a row are significantly different (GLM, $P<0.05$, n=14 nuts for self-pollination, n=73–124 nuts for other pollen parents)

Table 2. Nut-in-shell mass (g), kernel mass (g), and kernel recovery (%) of cultivar 816 nuts with different pollen parents at Alloway

Trueman *et al*., 2021 (AMS News Bulletin, Spring 2021)

Tree Age vs TKR %: '695'/BMT (N. Coast, KZN)





QUESTIONS ?