## **Bundaberg Field Trial Bus Tour, 16 March 2020**

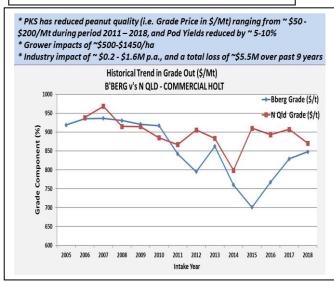
Graeme Wright (PCA), Dayle Fresser, Lawrie Owens (DAFQ), Dan O'Connor (PCA)

#### **PCA BREEDING OBJECTIVES**

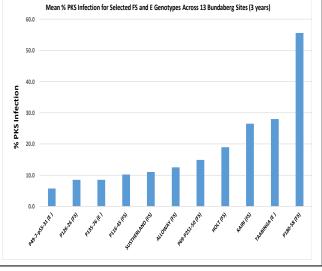
Australian Peanut Breeding Program Objectives (2007 – 2020)				
High Kernel Yield	Reduce Cost of FS Production	Sustainability	Processing Efficiency	Market Acceptance
Exceeding current check varieties	Foliar disease resistance (late leaf spot, leaf rust, net blotch) Soil borne disease resistance (CBR, Neocosmospora, Fusarium)	Dryland and Irrigated environments  Maturity  Full Season - 150+ days  Early - ~ 130 days	Low Shelling (aim <20%) High Blanchability (aim >90%)	o Hi Oleic Chemistry o Acceptable flavour o Runner and Virginia type kernel with emphasis on larger Runner/Virginia grade in E and FS types. o High Antioxidant content for niche market opportunity

# <u>PEANUT KERNEL SHRIVEL</u> Caused by insect vectored Phytoplasma + genetic tolerance available









#### **NEW POTENTIAL VARIETY RELEASES**

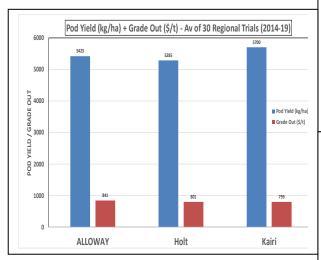
#### <u>ALLOWAY (D304-17-p148-12)</u> (Full Season Maturity)

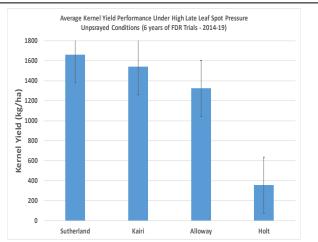
- Alloway is a double cross back to HOLT
- D304 pod/kernel yields and gross returns are ~5% better than Holt
- Foliar disease tolerance is significantly better than HOLT, although it is susceptible to leaf rust.

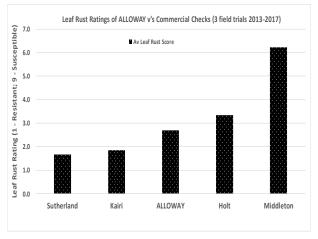
• D304 has very good tolerance to Peanut Kernel Shrivel (PKS) and has performed

well in Bundaberg over a number of years

• Due for commercial release in 2020/21







### P69-p251-20 (Full Season Maturity)

- Consistent performer in regional variety trials with regards to yield and gross returns (up to 10% higher than Holt)
- Good foliar disease tolerance, especially to late leaf spot
- Good CBR tolerance
- Commencing Pre-level 1 seed production

#### P135-76 (Early Maturity)

- A 3 way cross between Redvale, Sutherland and Southern Runner with significantly improved yield, grade out and foliar disease tolerance
- Up to 7.5% yield improvement on current early maturity check variety Taabinga
- Very good tolerance to late leaf spot and leaf rust
- P135-76 has very good tolerance to PKS and has performed well in Bundaberg relative to Taabinga check
- Commencing Pre-level 1 seed production