

# VARIETY "R" FACTSHEET

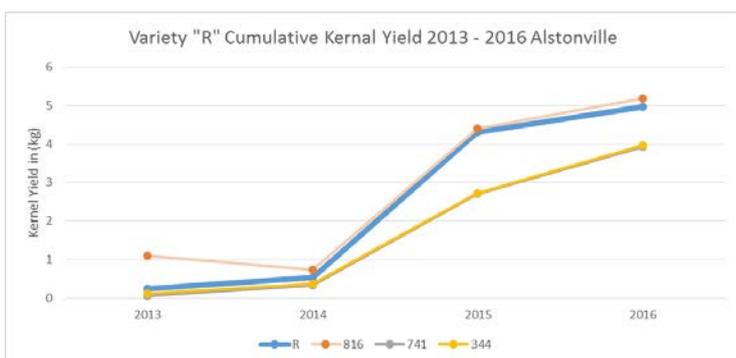
## BACKGROUND

Variety "R" is a new Macadamia variety released to the industry as a result of the National Macadamia Industry Variety Improvement program. Data has been collected on the new macadamia varieties in Regional Variety Trials (RVT's) across production regions in Queensland and New South Wales. These trials have been measuring kernel, tree, disease and processing qualities for the past 2 years and nut-in-shell yield for 4 years. The data presented below comes from these trial sites.

## DESCRIPTION

Variety "R" is a medium to large size, spreading tree. Tree volume at year 8 in Alstonville in northern NSW is 59m<sup>3</sup>, similar to 816 but smaller than 741 at 61m<sup>3</sup>, 344 at year 8 had a tree volume of 55m<sup>3</sup>.

Variety "R" has a cumulative kernel yield per tree for years 2013 to 2016 of 10.063kg while 816 had a cumulative kernel yield of 11.416kg, 741 had 7.040kg and 344 7.182kg.



Variety "R" has a kernel recovery of 37% in Alstonville compared with 816 (45.7%), 741 (38%) and 344 at 34%. "R" flowers mid-late season in August/September at Bundaberg sites. Peak harvest season at the Alstonville RVT site is in August while 816, 741 and 344 peak in May/June.



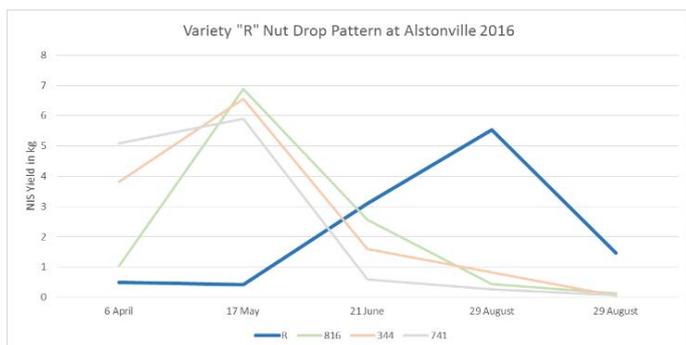
8 year old variety "R" at Booyan



Variety "R" kernel



Variety "R" nut and shell

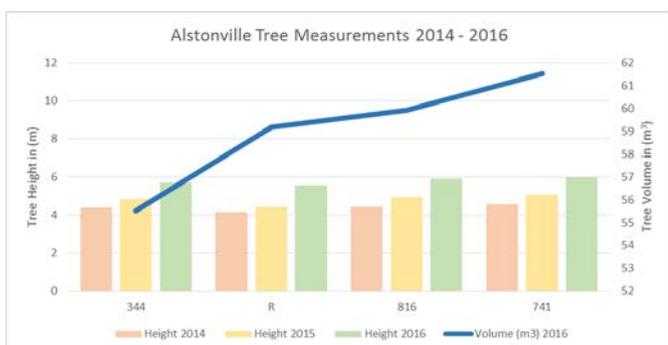


“R” is a similar size tree to 816 but smaller than 741. The spreading nature of R increases tree volume. 344 has a smaller tree volume of 55.5m<sup>3</sup>

Trees of “R” have a low rating (0.25 out of 5) for husk spot at Wirrawilla however it does have a low to moderate level of sticktights (2 out of 5). It shows no signs of Abnormal Vertical Growth (AVG) in Bundaberg trials.

Independent kernel assessment for Variety “R” from the Alstonville RVT site in 2016 had 67.9% whole kernel while 816 had 63.2%, 741 had 36.2 and 344 had 39.8% whole kernel from the same site.

Growers at a recent field walk in Alstonville rated Variety “R” 6.37 out of 9 while 816 was rated 6.38 and 741 rated at 6.85.



than “R” at 59.2 m<sup>3</sup>, 816 of 59.9m<sup>3</sup> and 741at 61.5m<sup>3</sup>.

Variety "R" Yield and Tree Comparison				
Alstonville				
Variety	R	816	741	344
Kernel Recovery (%)	36.9	45.7	37.9	33.6
Cumulative Kernel Yield (kg) 1	10.065	11.416	7.04	7.182
Canopy Kernel Efficiency (g/m3) 2	72	91	67	65
Tree Volume (m3)	59.2	59.9	61.5	55.5
Kernel KG per Ha (estimated) 3	1,349	1,516	1,278	1,236
1 - Cumulative Kernel Yield 2013 - 2016				
2 - 2016 (year 8) Kernel Canopy Efficiency				
3 - Estimated kernel yield (kg/ha) for 312.5 trees per ha or 8m x 4m				

### DISCLAIMER

The above information is sourced from the eight Regional Variety Trial (RVT) sites in Queensland and New South Wales. This is the best available information on variety performance with a maximum age of eight years old. Each RVT site is randomised and replicated with yield data collected from 2013 to 2016. The information provided here may not be suitable for all sites or regions as varieties perform differently in different locations. The Queensland Department of Agriculture and Fisheries, and Horticulture Innovation Australia provides the above information as a guide only and take no responsibility for the performance of the varieties on individual farms.