

ALLOWAY



Unauthorised commercial propagation or any sale, conditioning, export, import or stocking of propagating material of this variety is an infringement under the *Plant Breeder's Rights Act 1994*

1. Type

- Alloway was developed in a joint venture between the Peanut Company of Australia Ltd, Grains Research and Development Corporation (GRDC) and the Qld Department of Agriculture and Fisheries. It is full season variety (145-158 days) with the important marketing trait of high oleic oil chemistry, which provides longer shelf life and quality in comparison to normal oleic varieties.

2. Growth Habit

- Alloway growth habit is semi-erect.

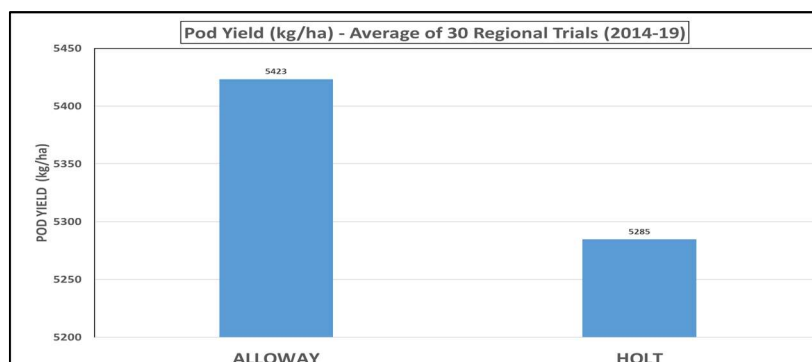
3. Seed/Pod Characteristics

- Alloway produces a larger kernel profile compared to the current commercial check variety, Holt.

4. General Agronomy

a) Yield

- Under full irrigation, Alloway can produce yields in excess of 7.5 tonnes/ha.
- Under dryland demonstration trial conditions, Alloway has consistently produced well in excess 2.5 tonnes/ha.
- When averaged over 30 variety evaluation trials from 2014-19, Alloway returned pod yields 5% higher than Holt.



b) Planting Rate

These rates are based on using Enhanced Germination Seed with a Precision Planter

	Dryland	Irrigated
Seeds/ha	80,000	140,000 – 180,000
Seeds/metre		
» 92 cm rows (36")	7.3	13-16
» 76.2 cm rows (30")	6.1	11-14
Seed spacing		
» 92 cm rows (36")	13.7 cm (5.4")	7.7 – 6.3 cm (3.3" – 2.8")
» 76.2 cm rows (30")	16.4 cm (6.4")	9.1 – 7.1 cm (3.0" – 2.6")
Seed kg/ha		
Count 1400 seeds/kg	58 kg/ha	100 – 126 kg/ha
Count 1060 seeds/kg	76 kg/ha	132 – 170 kg/ha

c) Nutrition

- Calcium and boron requirement are regarded as medium to high owing to Alloway's larger kernel size. Marginal levels of available calcium and boron in the podding zone can lead to an increase in the number of pops, splits and hollow heart in kernels.
- PCA recommends soil testing and consultation with peanut agronomists to determine both the timing and application rates of calcium and boron.**

d) Disease susceptibility

- Alloway has excellent tolerance to both leaf spot and net blotch.
- Tolerance to leaf rust is regarded as moderate.
- Early fungicide sprays, from 4 to 5 weeks after planting is considered the best strategy for gaining the maximum benefit out of Alloway's foliar disease tolerance.

e) Maturity and Harvesting

- Time to maturity is approximately 145 to 158 days depending on seasonal conditions and planting time.
- Assessing maturity should be undertaken using both the hull scrape and shell out method.

f) Marketing

- Alloway is well suited to the snack food markets.
- Taste profile of Alloway is similar to other commercial varieties.

g) Grades *

Grade (%)	Alloway	Holt
J	52	45
1	5	8
2	3	6
Splits (5)	10	10
MFG (7)	1	2
Oil	7	7
Shell	22	22

The table above illustrates comparative grades (%) against Holt. Results can vary considerably with management and seasonal conditions.

* These data averages are based on commercial production.

For more information, please contact PCA on 07 4162 6311.

PEANUT COMPANY OF AUSTRALIA

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