

# KAIRI



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

- Kairi was developed in a joint venture between the Peanut Company of Australia Ltd, Qld Department of Agriculture and Fisheries and the Grains Research and Development Corporation (GRDC). It is full season variety (140-150 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

- Kairi's growth habit is considered to be semi-erect.

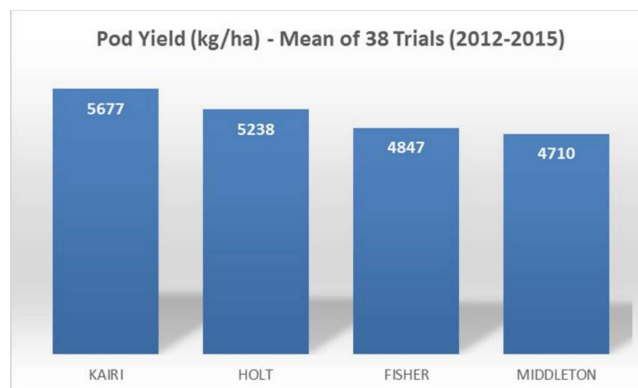
## 3. Seed/Pod Characteristics

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

## 4. General Agronomy

### a) Yield

- Under full irrigation, Kairi can produce yields in excess of 7.5 tonnes/ha.
- Under dryland conditions, Kairi has consistently produced more than 2.5 tonnes/ha.
- Over 38 variety evaluation trials from 2012-15, Kairi returned pod yields 8% to 22% higher than Holt and Middleton, respectively



**b) Planting Rate**

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

	Dryland	Irrigated
Seeds/ha	80,000	140,000 – 160,000
Seeds/metre		
» 92 cm rows (36")	7.3	13-16
» 101 cm rows (40")	8.1	15-18
Seed spacing		
» 92 cm rows (36")	13.7 cm (5.4")	8.3 – 7.1 cm (3.3" – 2.8")
» 101 cm rows (40")	12.3 cm (4.8")	7.7 – 6.7 cm (3.0" – 2.6")

**c) Nutrition**

- Calcium and boron requirement is regarded as high owing to Kairi'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**

- Kairi has excellent tolerance to both leaf rust and net blotch.
- Tolerance to leaf spot 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 Kairi's foliar disease tolerance.

**e) Maturity and Harvesting**

- Time to maturity is approximately 140 to 150 days depending on seasonal conditions and planting time.
- Assessing maturity should be undertaken using both the hull scrape and shell out method.

**f) Marketing**

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

**g) Grades \***

Grade (%)	Kairi	Holt
J	44	45
1	7	10
2	3	6
Splits (5)	11	10
MFG (7)	2	1
Oil	11	7
Shell	22	21

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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