

Milestone 10 – 30/3/2005

Harvestability and grain yield data from trials sown to compare the effects of wider row spacings on Moonlight and 96-262*1 supplied to Pulse Australia and GRDC in a collated and tabulated form by Dr Armstrong.

The new varieties will be compared with Kaspia and Parafield for at least 3 row spacings at 1 site each in Yenda and Wagga, New South Wales.

YENDA AND WAGGA, NSW

Field Pea Row Spacing Trials, Yenda & Wagga 2006

Aim: To look at the yield responses of different field pea plant types to varying row spacing.

Trial 1. Yenda (FRA06YEND)

Co-operator: Kym & Judy Eckerman and Nick & Trish Eckerman
“Hillview” Yenda

Sowing date: 28th June 2006

Fertiliser: 115 kg/ha Grain Legume Super

Herbicides: July Sencor @ 280g/ha
September Correct @ 200 ml/ha
October Sumi Alpha @ 200 ml/ha

Method: Four spacings: 19cm, 30cm, 50cm & twin 50cm (two rows 35/15cm apart). Two adjacent runs of the cone seeder were used per plot to give sufficient width. Target density 45 plants/m².

Results and Discussion

Row spacing had no effect on yield of any variety. Yields were too low to help with row spacing recommendations for field pea. The interaction of variety by row spacing was significant ($p < 0.01$).

Field Pea Row Spacing Trial Yenda 2006 (FRA06YEND)
LSD 0.019 t/ha

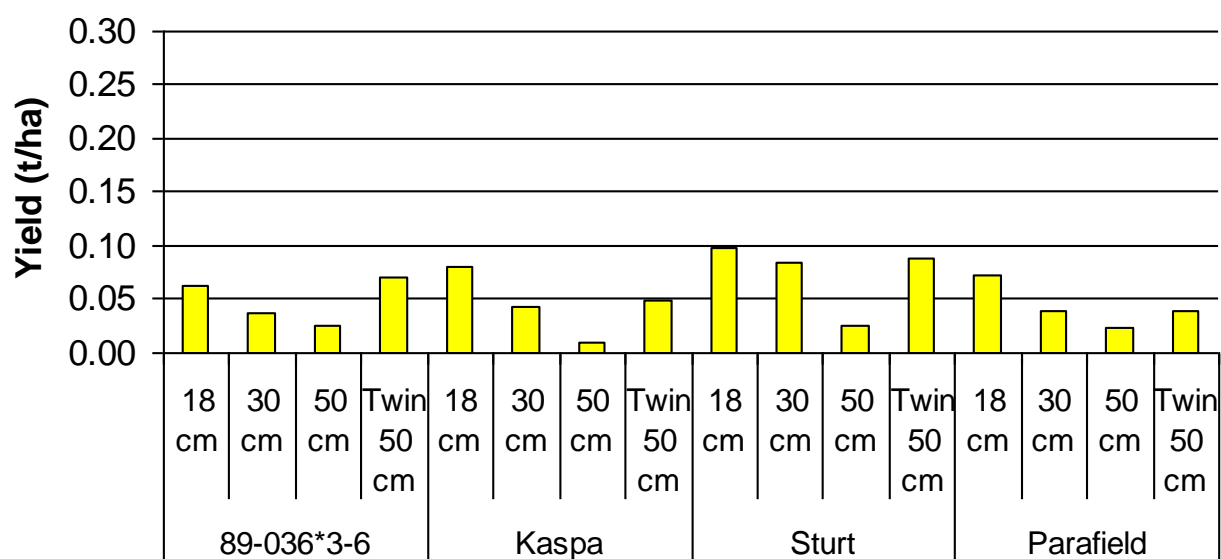


Table 6. Row spacing, plant densities and yields for Yenda 2006

YENDA variety	Row space	Density Pl/sm	Yield T/Ha
89-036*3-6	18cm	34	0.06
89-036*3-6	30cm	48	0.04
89-036*3-6	50cm	60	0.03
89-036*3-6	15/35cm	46	0.07
Kaspa	18cm	35	0.08
Kaspa	30cm	47	0.04
Kaspa	50cm	56	0.01
Kaspa	15/35cm	43	0.05
Sturt	18cm	37	0.10
Sturt	30cm	42	0.09
Sturt	50cm	49	0.03
Sturt	15/35cm	40	0.09
Parafield	18cm	39	0.07
Parafield	30cm	51	0.04
Parafield	50cm	79	0.02
Parafield	15/35cm	45	0.04
LSD			0.019

Trial 2. Wagga (FRA06WARI)

Co-operator: Agricultural Institute, Wagga Wagga

Sowing date: 22nd June

Fertiliser: 115 kg/ha Grain Legume Super

Herbicides: 14/6 2L Stomp + 2L Sprayseed pre-sowing
 PSPE Spinnaker @ 70g/ha
 14/8 & 12/9 Verdict @ 100 ml/ha

Insecticide Fastac Duo (200ml/ha) on 12/9 & 23/10
 Supracide (200ml/ha) on 27/7 & 14/8

Fungicides: Bravo (2L/ha) + Spinflow (200ml/ha) on 14/8, 29/8, 11/9 & 9/10 to control fungal diseases

Method: Four spacings: 19cm, 30cm, 50cm & twin 50cm (two rows 35/15cm apart). Two adjacent runs of the cone seeder were used per plot to give sufficient width. Target density 45 plants/m².

Results and Discussion

Sturt yielded well above all other varieties under these very tough drought conditions. Row spacing had no effect on yield of any variety. Yields were too low to assist much with row spacing recommendations for field pea. The interaction of variety by row spacing was significant ($p < 0.01$).

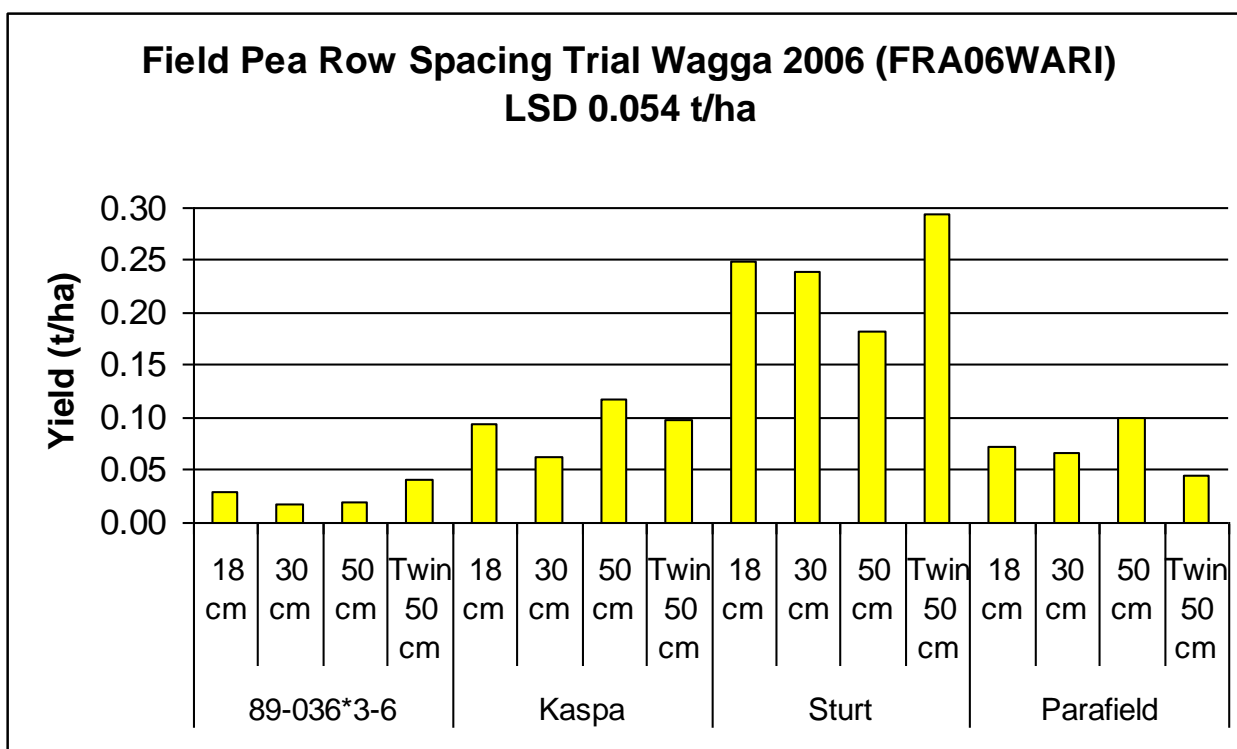


Table 7. Row spacing, plant densities and yields for Wagga 2006

variety	Row space	Density Pl/sm	Yield T/Ha
89-036*3-6	18cm	54	0.03
89-036*3-6	30cm	52	0.02
89-036*3-6	50cm	40	0.02
89-036*3-6	15/35cm	28	0.04
Kaspa	18cm	54	0.09
Kaspa	30cm	48	0.06
Kaspa	50cm	40	0.12
Kaspa	15/35cm	26	0.10
Sturt	18cm	57	0.25
Sturt	30cm	51	0.24
Sturt	50cm	42	0.18
Sturt	15/35cm	31	0.29
Parafield	18cm	56	0.07
Parafield	30cm	45	0.07
Parafield	50cm	36	0.10
Parafield	15/35cm	27	0.04
LSD			0.0544