## <u>F4 Sowing Time x Impact Dressed Fertiliser, H-MRZ (Wagga Wagga), NSW</u> Aim

To compare early and late sown commercial and advanced varieties of field pea in an eastern cropping environment of southern NSW and to evaluate Impact®In-Furrow fertiliser to assist in disease control.

## Treatments

Varieties:	Kaspa, PBA Gunyah, PBA Twilight, Yarrum, PBA Oura (OZP703), PBA	
	Percy (OZP901), OZP805, OZP819 (PBA Pearl),	
Sowing dates:	30 May & 1 July 2011 – representing the earlier and later phases of the field	
	pea sowing window	
Stubble:	2t/ha Barley stubble (30cm high)	
Fungicide Treatments: With and without Impact®In-Furrow.		
Fertiliser:	Grain legume super (0:15:7) @ 115 kg/ha placed separately under the seed.	

## **Results and Interpretation**

Variety, TOS and Variety x TOS were the only significant yield differences in this trial, but these differences in reality were only small (P<0.01). Impact fungicide applied on fertiliser at sowing had no benefit yield this season.

Table F4.1. Yield terms and their statistical significance

Fixed term	F prob	
TOS	0.021	*
FUNG	0.222	ns
VARIETY	0.003	**
TOS.FUNG	0.574	ns
TOS.VARIETY	0.002	**
FUNG.VARIETY	0.357	ns
TOS.FUNG.VARIETY	0.026	*
TOS.VARIETY FUNG.VARIETY TOS.FUNG.VARIETY	0.002 0.357 0.026	** ns *

Field pea yields were above average during the 2011 season at Wagga. Yield did decline by around 11% when delaying sowing from 30 May to 1 July, most evident in OZP819, Percy and Yarrum (15-18%) and least in Twilight, Gunyah and OZP805.

The highest yielding treatments in this trial were the early sown PBA Percy and OZP819.

Seed sizes were highly significant across treatments (P<0.001). Later sowing increased seed size; PBA Oura and PBA Percy had the largest seeds.

## **Key Findings and Comments**

- The 2011 season was well suited field pea at Wagga, resulting in high yields and little disease at either sowing.
- Field pea is less sensitive to delays in sowing compared to chickpea, faba bean & lupin.
- Yield declined by only around 11% when sowing was delayed from late May to early July.
- PBA Oura, PBA Percy and OZP819 were consistently in the top ranking group for both yield and seed size.



Figure F4.2. The effects of sowing time on grain yield (t/ha) of eight varieties of field pea at Wagga in 2011.



**Figure F4.3.** The effects of sowing time on seed size (100 Sd Wt) of eight varieties of field pea at Wagga in 2011.