

Building Resilient Farming Systems in South Australia through improved knowledge and innovative management of soil constraints.

Project Management

3 Project Steering Committee meetings were held during the year

Project Work Plan

Six demonstration sites have been set up and sown in response to a workshop of representatives of 6 Agricultural Bureau Groups and the Upper South East MacKillop Farm Management Group.

These were at:

1. **Sherwood**

at Steven Jaeschke's on a previously delved sand over clay soil approximately 20 cm deep with a bleached sandy layer above the clay. Wheat 2009.

Treatments replicated 3 times, 10m X 50m:

- Nil
- Spaded at 2 depths - 15 cm and 20 cm
- Spader and organic matter (lupin offal @ 110g/L, 15 FEL buckets R1, 10 FEL buckets R 2&3)
- Spader and fertilizer (200 kg/ha Super + Cu 1% + Zn 1% + Mn 5%)
- Fertilizer injected to 15-20 cm
- Fertilizer spread on surface.



2. Lowan Vale

at Roger Grocock's on the Landcare site where there is already a great deal of information generated. Previously delved. Cereal sown 2009.

Treatments replicated 3 times, 10m X 50m:

- Nil
- Spaded 2009
- Spaded 2009 and 2010
- Spaded 2010
- Spader and organic matter (silage @ approx 6 tonnes/ha)
- Spader and fertilizer (200 kg/ha Super + Cu1% + Zn1% + Mn 5%)
- Fertilizer spread on surface

3. Willalooka

at Gary Lock's on a sand over clay soil approximately 80cm deep with a bleached sandy layer between 20 and 60 cm overlying a yellow sand above the clay. Clayspread with Claymate 2009 @ approx 250 tonnes/ha. Barley @ 30kg/ha undersown with lucerne 2009.

Treatments replicated 3 times, 10m X 50m:

- Nil
- Spader
- Spader and organic matter (silage @ approx 5 tonnes/ha)
- Spader and fertilizer (200 kg/ha Super + Cu 1% + Zn 1% + Mn 5%)
- Fertilizer injected to 30 cm
- Fertilizer spread on surface
- Ripped to 35 cm



4. **Western Flat**

at Mal Ramsey's on a sand over clay soil approximately 40 cm deep with a bleached layer above the clay that has been clayed 3 years ago with a claymate @ approx 250 tonne/ha and has been ripped to 40 cm in 2009. Barley 2009.

Treatments replicated 3 times, 10m X 50m:

- Nil
- Spader
- Spader and organic matter (Hay @ approx 6 tonnes/ha)
- Spader and fertilizer (200 kg/ha Super + Cu 1% + Zn 1% + Mn 5%)
- Fertilizer injected to 30 cm
- Fertilizer spread on surface
- Nitrogen @ 50 kg/ha as urea



5. **Paddock 2 on Verco's farm**

dark red soil sown to oats following spading

6. **Paddock 8 on Verco's farm**

red sodic soil sown to wheat following spading.

Treatments replicated 3 times treatment plots 5m X 50 metres due to spatial constraints:

- Spader
- Spader and organic matter (silage @ approx 5 tonnes/ha)
- Spader and fertilizer (200 kg/ha Super + Cu 1% + Zn 1% + Mn 5%)
- Spader and gypsum @ 5 Tonnes/ha
- Fertilizer injected to 30cm
- Gypsum spread on surface
- Fertilizer spread on surface

For further information contact

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