White Saline Pasture Demo

1/05/2017

Soil temperature 15 degrees 35kg of Map urea blend 70/30 was applied at the time of seeding.

<table>
<thead>
<tr>
<th>Soil Test</th>
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<tbody>
<tr>
<td>North</td>
<td>Lucerne</td>
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The table shows the application rates of different species at various locations:

- **GT60**: 5kg/ha (2ha)
- **SARDI Grazer**: 5kg/ha (2ha)
- **SARDI 7S2**: 5kg/ha (2ha)
- **SARDI 10 S2**: 5kg/ha (1.5ha)
- **Aurora/H’Field**: 5kg/ha (0.5ha)
- **Messina**: 8kg/ha
- **Messina**: 4kg/ha
- **Puccinellia 10kg/ha**: Messina 5kg/ha
- **Puccinellia**: 10kg/ha
- **Tall Wheat Grass**: 20kg/ha
- **Howlong Cocksfoot**: 5kg/ha
- **Kasbah Cocksfoot**: 5kg/ha
- **Vortex Annual Ryegrass**: 25kg/ha
- **Finesse-Q Tall Fescue**: 15kg/ha
- **Prosper Tall Fescue**: 15kg/ha
- **Holdfast GT Phalaris**: 8kg/ha
- **Scimitar Spineless Burr Medic**: 5kg/ha
- **Frontier Balansa Clover**: 5kg/ha
- **Nitro Plus Persian clover**: 5kg/ha

.3Ha each run
History - over the last 20 years more and more low-lying areas on the property are getting wetter, holding water and going saline, as the soil test shows. These areas are usually surrounded by a lighter hills. In this particular paddock the picture shows the hill on the west end of the paddock.

The aim of the trial is to see what we can establish on the lower areas which are very saline and includes area around these that are also showing signs of going saline.

The area was sown to the following blend to see if we could get a summer crop established and utilise some of the water. It has been a very wet summer with rainfall to end of April was 140.5mm. October to December rainfall in 2016 123.3mm

1 x 25kg Leafmore Forage Brassica 5kg/ha 1 x 25kg Commander Chicory 12kg/ha 1 x 25kg Shirohie Millet 5kg/ha
The millet established quite well on the outlying areas with lower salinity, nothing like the high saline areas. There were low numbers of Chicory and leaf more amongst the millet. The area had no fertiliser applied at seeding or after seeding the millet was grazed once and sprayed for radish and melons with 500 Amine 700 80ml Triclopyr 600 and 1.4L Spray seed.

The Millet continued to grow and the sheep grazed it one more time.

Sunday prior to seeding the area was sprayed with 2L glyphosate 450+ spreadwet @ .2%

On the day of seeding 01/05/2017 we noticed there were reasonable plant numbers of chicory.

The demo was seeded with 35kg of fertiliser MAP70% Urea30% blend. Messina will be sown on the northern areas to fill in the site at a later date. The rest of the paddock will be seeded to scope barley.

The demonstration is to assess what we could possible use to maintain cover on saline affected area and gain feed value at the same time. By sowing Lucerne on the hill at the western end of the paddock we hope to utilise local water and reduce the amount of water lying on the lower parts of the paddocks.

The intention is to take pasture cuts and have feed values assed and measure which plants give the most value for LW gains.