**Resilient and Profitable Farming Systems on Eyre Peninsula**

**2020 Field Program**

Target:

* Eight sites
* Two sites of the eight more intensively examined – PAWC measured in multiple locations.
* All being cropped to cereal (preferably wheat) as more is understood about wheat water use.
* Yield prophet/ APSIM to be run on all eight sites.
* All to be characterised for PAWC characteristics.
* Should be reasonably representative of major environments/ soil types on Eyre Peninsula (also be reflective of EPARF and LEADA’s respective interests)

**Options for sites**

Below is a list of the current soil moisture probe sites likely to be planted to wheat in 2020. 16 paddocks in all. I have also listed which of the paddocks where we are collecting EM data, the farmers who yield maps and my assessment of how well the probe is working.

There may be other sites not currently in the network they may be valuable to bring in due to locality, soil type and other planned activities at the site eg Mark Swaffer, Tumby Bay (sth)

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| --- | --- | --- | --- | --- | --- |
| **Farmers Surname** | **Locality** | **2019 Crop** | **March 2020 EM38** | **Yield Map** | **Probe output** |
| Baldock | Kimba | failed vetch crop | Y |  | Good |
| Fromm | Carina (Minnipa) | Pasture |  |  | OK |
| Glover | Palkagee (Lock) | Vetch |  |  | Limestone |
| Heddle 1 | Minnipa Sth | Pasture |  | Y | Good |
| Heddle 2 | Minnipa McEvoy | Lentils | Y | Y | Good |
| Hunt | Wharminda | Pasture |  |  | ?? indicates gets wetter in Summer |
| James | Mangalo | Pasture |  | Y | Rocks |
| Kaden | Cowell | Pasture |  |  | Ok |
| Matthews | Cootra | Pasture | Y | Y | Good |
| Mayfield | Solomon (Kimba) | Oats |  |  | Good |
| Modra | North Shields | Lupins |  | Y | OK |
| Morgan | Mt Dutton | Canola |  |  | Good |
| Polkinhorne | Lock | Lentils | Y | Y | Limestone |
| Schaefer | Pinkawillie | Pasture |  | Y | Good |
| Treloar | Yeltuka/ Cummins | Lupins | Y |  | Good - only measures to 70cm |
| Wake | Darke Peak | Pasture | Y |  | Good |

Yield Map Blank = no response from farmer yet.

In my mind we need to:

1. Agree on which eight sites we will work on in 2020, including the two intensive sites – by 13 March
2. Agree on a pre-sowing soil sampling protocol by 20 March
3. Plan field trials (white peg or large scale) – depending on what issue is trying to be addressed at each site by 28 March.