

Adapting to change - climate implications EP

13 - 13 Dec 2021

Poll results

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What have been the main changes to the farming system over the last 10 years?

0 1 5

(1/2)

- Better summer weed control
- Better water conservation in soils
- Zero tolerance summer weed control Earlier seeding Increased profitability of break crops (particularly lentils) and use and corresponding advantages to farming systems Better machines with improved technology PA
- Containment feeding
- More cropping and more intensive rotations More break crops - canola and pulses Grazing cereals Feedlots
- for livestock over summer Earlier sowing on less rainfall Controlling summer weeds to conserve moisture
- Increased livestock in the system
- Contined increased intensity of cropping, higher land prices, driving higher inputs, using the benefits of notill, to push the boundaries of what is possible agronomically
- More dry seeding, greater flexibility in crop inputs on EEp. More adoption of soil amelioration

What have been the main changes to the farming system over the last 10 years? (2/2)

- Improved stubble management
- Earlier harvests
- Importance of maintaining soil cover
- Single pass seeding Sowing to a date Greater focus on summer weed control Increased N applications
- summer weed control
- More pulses in rotations
- Better stubble retention , heavier reliance on chemicals
- seeding earlier
- Sowing earlier Conserving summer moisture
- Earlier sowing. Increase pulses.
- More extreme weather event's

Changes in climate (1/12)

0 1 3

What weather/climate changes have you seen on upper EP in the last 20 years compared to pre-2000? **BREAK OF SEASON**

Much earlier

0 %

Earlier

15 %

No change

54 %

Later

31 %

Much later

0 %

Changes in climate (2/12)

0 1 4

What changes in weather/climate do you anticipate in the next 10 years from now on upper EP? BREAK OF SEASON

Much earlier

0 %

Earlier

0 %

No change

29 %

Later

64 %

Much later

7 %

Changes in climate (3/12)

0 1 3

What weather/climate changes have you seen on upper EP in the last 20 years compared to pre-2000? SUMMER RAINFALL

Much less

0 %

Less

8 %

No change

38 %

More

46 %

Much more

8 %

Changes in climate (4/12)

0 1 4

What changes in weather/climate do you anticipate in the next 10 years from now on upper EP? SUMMER RAINFALL

Much less

0 %

Less

7 %

No change

21 %

More

64 %

Much more

7 %

Changes in climate (5/12)

0 1 3

What weather/climate changes have you seen on upper EP in the last 20 years compared to pre-2000? GROWING SEASON RAINFALL

Much less



Less



No change



More



Much more



Changes in climate (6/12)

0 1 4

What changes in weather/climate do you anticipate in the next 10 years from now on upper EP? GROWING SEASON RAINFALL

Much less



Less



No change



More



Much more



Changes in climate (7/12)

0 1 3

What weather/climate changes have you seen on upper EP in the last 20 years compared to pre-2000? MEAN TEMPERATURE

Much cooler

0 %

Cooler

0 %

No change

15 %

Warmer

85 %

Much warmer

0 %

Changes in climate (8/12)

0 1 4

What changes in weather/climate do you anticipate in the next 10 years from now on upper EP? MEAN TEMPERATURE

Much less

0 %

Less

0 %

No change

0 %

More

79 %

Much more

21 %

Changes in climate (9/12)

0 1 3

What weather/climate changes have you seen on upper EP in the last 20 years compared to pre-2000? EXTREME HEAT IN SPRING

Much earlier

0 %

Earlier

38 %

No change

62 %

Later

0 %

Much later

0 %

Changes in climate (10/12)

0 1 4

What changes in weather/climate do you anticipate in the next 10 years from now on upper EP? EXTREME HEAT IN SPRING

Much earlier



Earlier



No change



Later



Much later



Changes in climate (11/12)

0 1 3

What weather/climate changes have you seen on upper EP in the last 20 years compared to pre-2000? FROST SEVERITY & TIMING

Much worse

0 %

Worse

62 %

No change

38 %

Better

0 %

Much better

0 %

Changes in climate (12/12)

0 1 4

What changes in weather/climate do you anticipate in the next 10 years from now on upper EP? FROST SEVERITY & TIMING

Much worse

0 %

Worse

64 %

No change

36 %

Better

0 %

Much better

0 %

Evaluation (1/3)

0 1 6

Has this event improved your knowledge and understanding of climate projections for EP?

No

0 %

A bit

50 %

A lot

50 %

What is the key thing you will take away from this workshop?

(1/2)

- Peters Maps of isolated comparisons across Australia was brilliant.
- Adaptation strategies looking into the future
- The climatic prediction for EP is not as bad as other parts of southern Australia. And the changes to date have been less. Maps of isolines. There is increased chance of years below decile 5 moving forward.
- Opportunity to improve against climate change exist and need to be explored further
- More work required
- Maps of isolines showing EP is more stable to climate change than other regions like lower WA
- We need to pay attention to WA as what happens to grain producers there will likely be a forecast of what is to come for SA.
- Climate change forecast and mainly the evidence reasoning

What is the key thing you will take away from this workshop? (2/2)

- behind why we have come to these assumptions
- A lot of research and technology that is not yet adopted on farm
- Was good to brainstorm changes needed to address climate change.
- General consensus on issues and opportunities
- It will be dryer and warmer with more intense rainfall events. Need to manage risk increasingly important
- Optimism
- more heat is a given. frost uncertain, rainfall probably down a bit.
- Climate change is something we can have influence over. Still some hope to manage risk under 2°C change scenario
- That our seasonal variability is very high on the eyre peninsula

Evaluation (3/3)

0 1 0

What further information about climate and farming resilience would you be interested in?

- How local weather patterns interact with rainfall in different locations.
- Reliable climate forecasts
- How best to use the information to inform management practices.
- Subsoil information and options to improve PAW
- Potential for infrastructure to influence decisions. Eg: transport, processing, value adding.
- Greater opportunities for MAC to be involved in research projects going toward
- More localised information on climate impacts
- Improved rainfall prediction from climate impacts
- Research opportunities
- quantifying soil health and function