## Leaferways

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Both, Neither or Somewhere in the Middle? – *The Conundrum* 

Environmental

Impact

Sam Morris, Hamish Lowe

## Waterway Health vs Climate Change





Can we have **healthy rivers** and **reduce our impact on climate change** at the **same time**?

## Waterway Health -





## Waterway Health -

What does the policy say?



Importance of water and protection protects the environment

2

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Protecting the mauri of water

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What does the policy say?



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#### 2

#### Protecting the mauri of water

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Restoring and preserving the balance between water, the environment and the community

## **Climate Change** –

What does the policy say?

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## **Climate Change** –



PA - limit temperature increase to 1.5°C above pre-industrial levels.

CCRA - reduce net emissions of all GHG's other than biogenic methane to zero by 2050.

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## **Climate Change** –



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CCRA - reduce biogenic methane by 24-47% below 2017 levels by 2050, and 10% below 2017 levels by 2030.

## **Climate Change** –



#### **Balancing of Two Environmental Issues**





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No increases in N losses between farm types





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2

Proposal to house all livestock indoors from May-Sept to improve waterway health





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Proposal to house all livestock indoors from May-Sept to improve waterway health

40 kg N/ha/yr -> 33 kg N/ha/yr - 18 % reduction.

– 105 % increase.

GHG emissions 7.8 t/ha -> 16 t/ha



Nitrogen or GHG Emissions











# L W E Environmental I m p a c t

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