

Support slides to Robin Boom's hearing 090719
re: WRC Healthy Rivers - PC1

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Current Situation – Global and National Policy Level

Aug 2018

NZ Productivity
Commission

Agriculture
causes 49.2%
NZ Heat Trap
Emissions

Oct 2018

UN IPCC Report

Warns the
World
2030 deadline
to reduce
Heat Trap
Emissions

Dec 2018

Parliamentary
Commissioner to
the Environment

Independent
Review
Overseer®
inadequate

Restorative Agriculture is the Enviro-Economic Win-Win NZ seeks

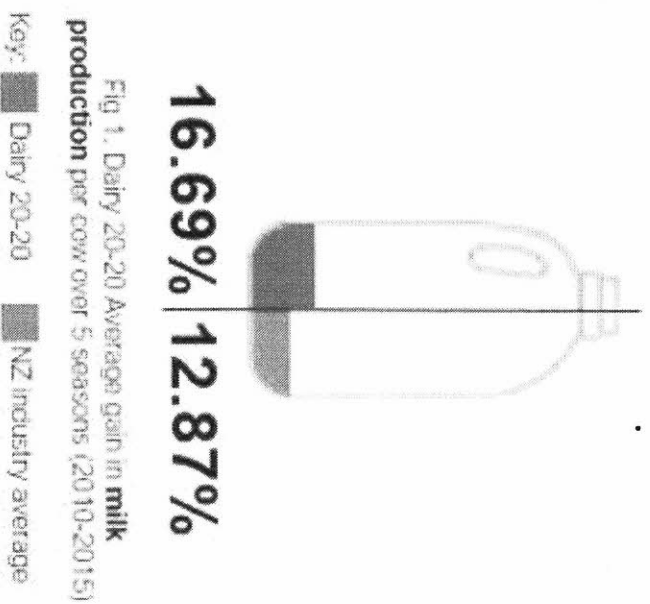


Fig 1. Dairy 20-20 Average gain in milk production per cow over 5 seasons (2010-2015)

'Dairy 20-20' farms milk production percentage increase average (season 1 vs season 5), was 16.69% vs the industry average of 12.87%. (Fig 1)

Restorative Agriculture is the Enviro-Economic Win-Win NZ seeks



Fig 2. Dairy 20-20 Average **fertiliser cost** per kg of milk solids over 5 seasons (2010-2015)

■ Dairy 20-20 ■ NZ industry average

- 80% of the 'Dairy 20-20' farms' fertiliser costs were below the industry average of \$0.57c/KgMs - 'Dairy 20-20' farmers: \$0.38c/KgMs (Fig 2)

Restorative Agriculture is the Enviro-Economic Win-Win NZ seeks

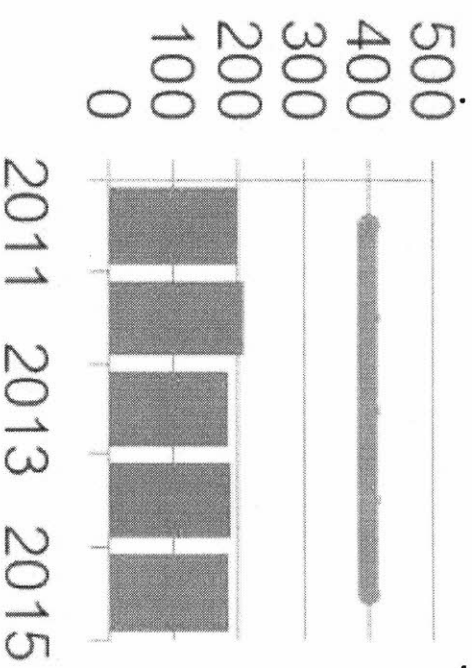


Fig 3. Dairy 20-20 Average **somatic cell count** (000s) per farm, against NZ Dairy maximum over 5 seasons: (2010-2015)

■ Dairy 20-20 ■ NZ industry maximum

- Somatic cell count across 'Dairy 20-20' herds also decreased (Fig 3)

"The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. Specifically, it is a measure of how much energy the emissions of 1 ton of gas will absorb over a given period of time, relative to the emissions of 1 ton of carbon dioxide (CO₂)."

Source:
<https://www.epa.gov/ghgemissions/understanding-global-warming-potentials>

