Sheep and Beef data

Project Team

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Outline

The research process

Illustrative results

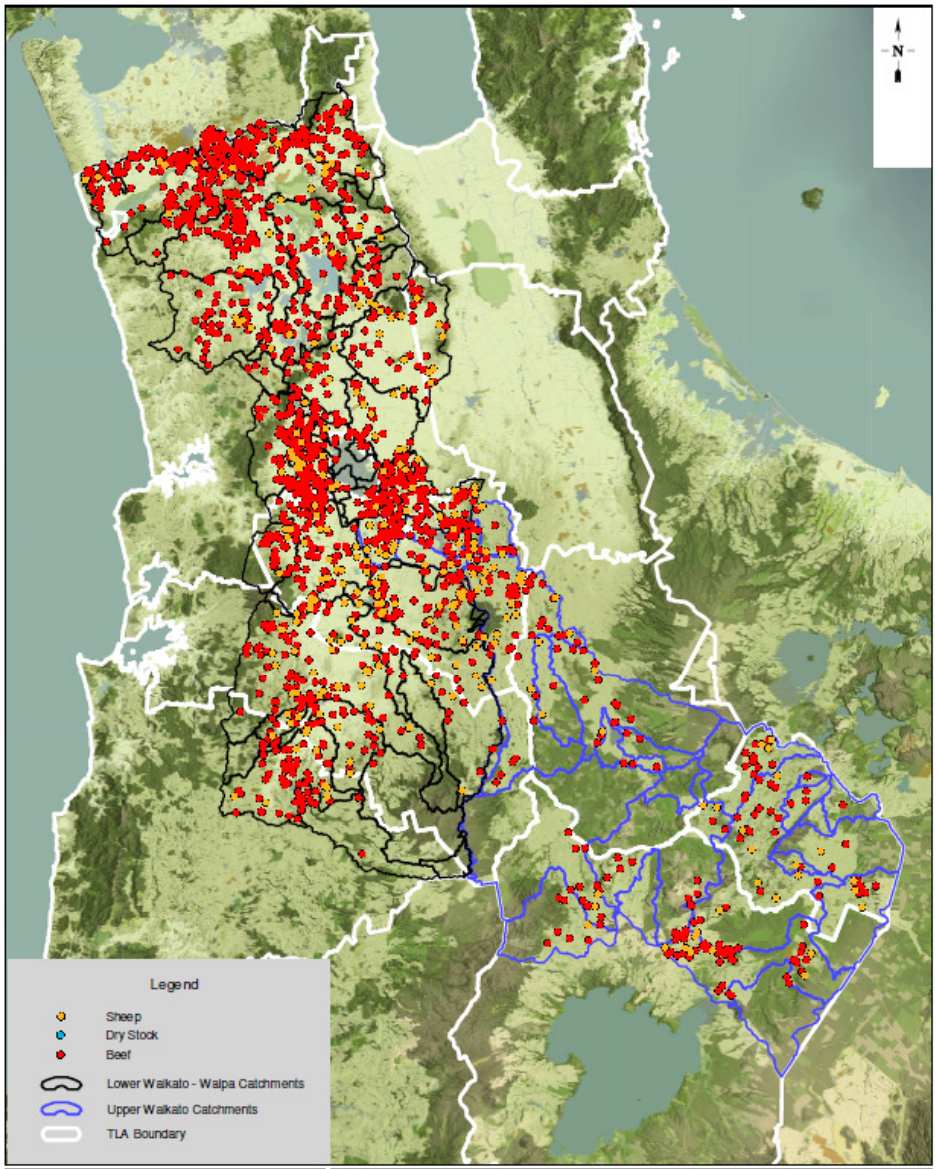
Some policy implications

Concluding remarks

Data collection

Case studies

- 450 Farms – surveyed to study pugging/flooding mgt
  - 170 Farms – allowed follow up questions
    - 20 farms – spatially selected
      - 13 farms – interviewed
        - ✓12 farms – full data
          - ✓Focus Group discuss/Workshop



Sheep and Beef Farms

Within the Waikato & Waipa River Catchments

Created by: HCE
Projection: NZTM
Date: 27th Nov 2014

Status: Final
Request No.: 28955
File name:

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Kilometres
Scale - 1:650,000

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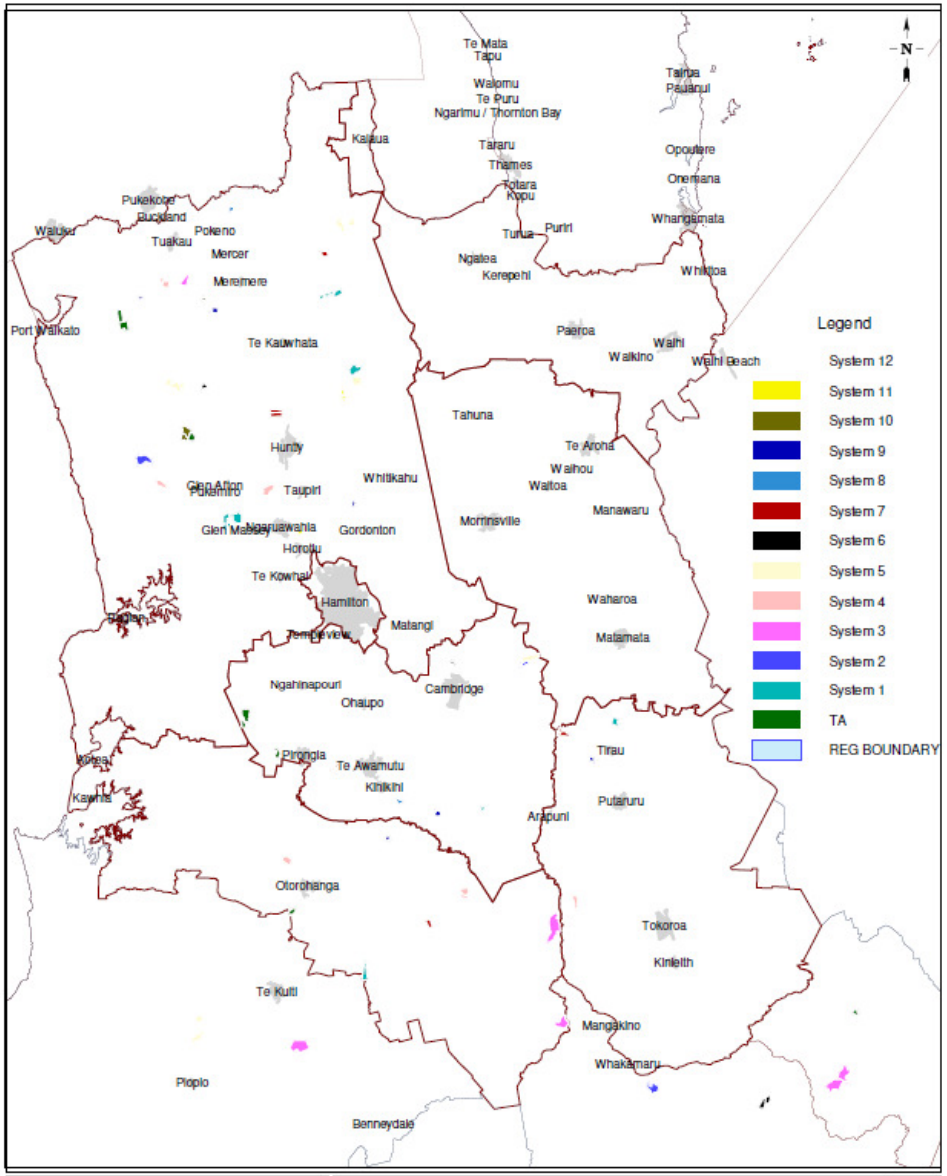

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Scale: 1:600,00

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ACKNOWLEDGEMENTS AND DISCLAIMERS

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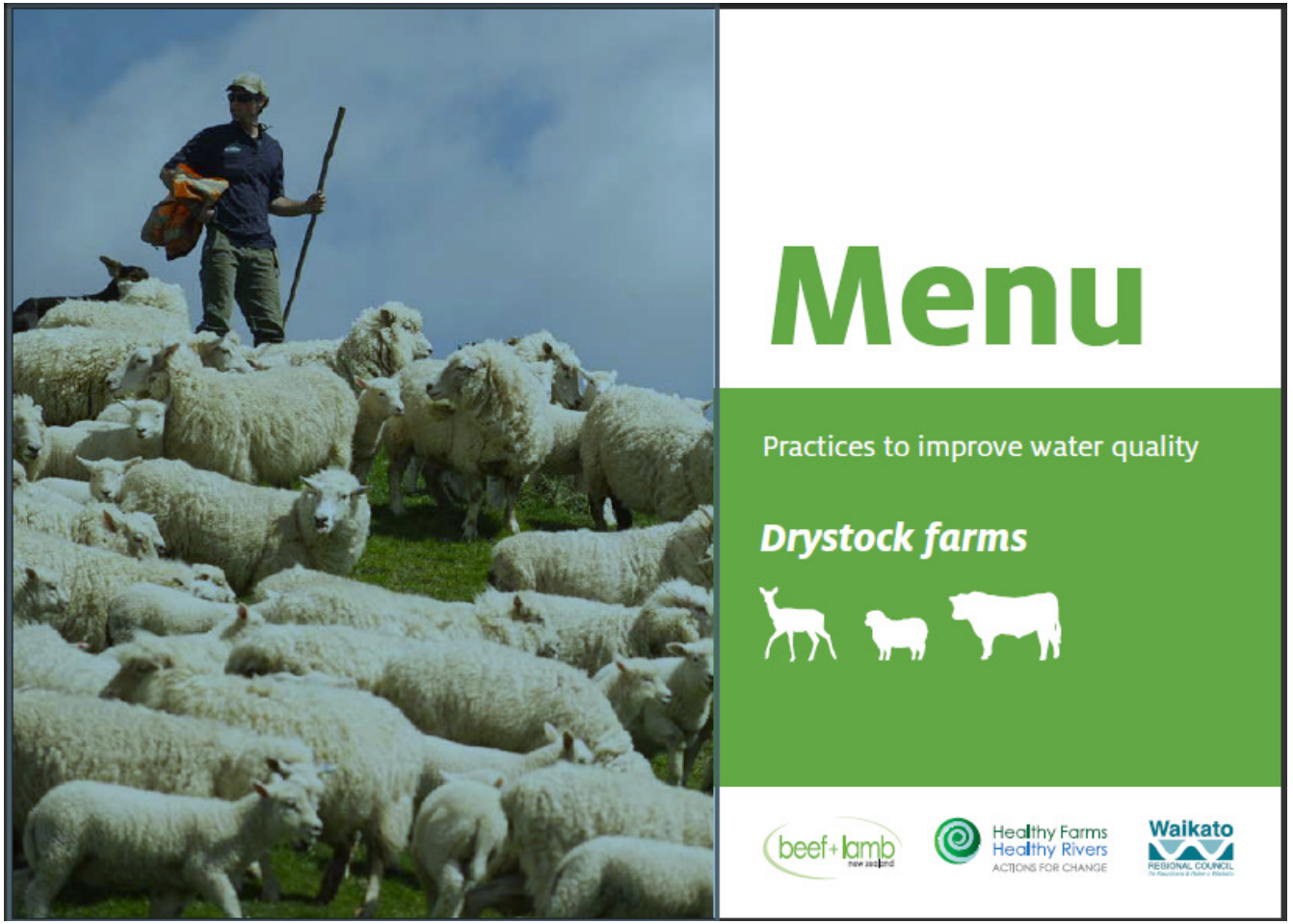
5 farm types/systems...

1. Small lamb finishing farm
2. Traditional Hill country farm
3. Hill country/dairy support (maize silage cropping)
4. Hill country/dairy support (pasture silage)
5. Bull & prime beef finishing farm

Choice of mitigation options



Scenario analysis…

FARMAX modelling

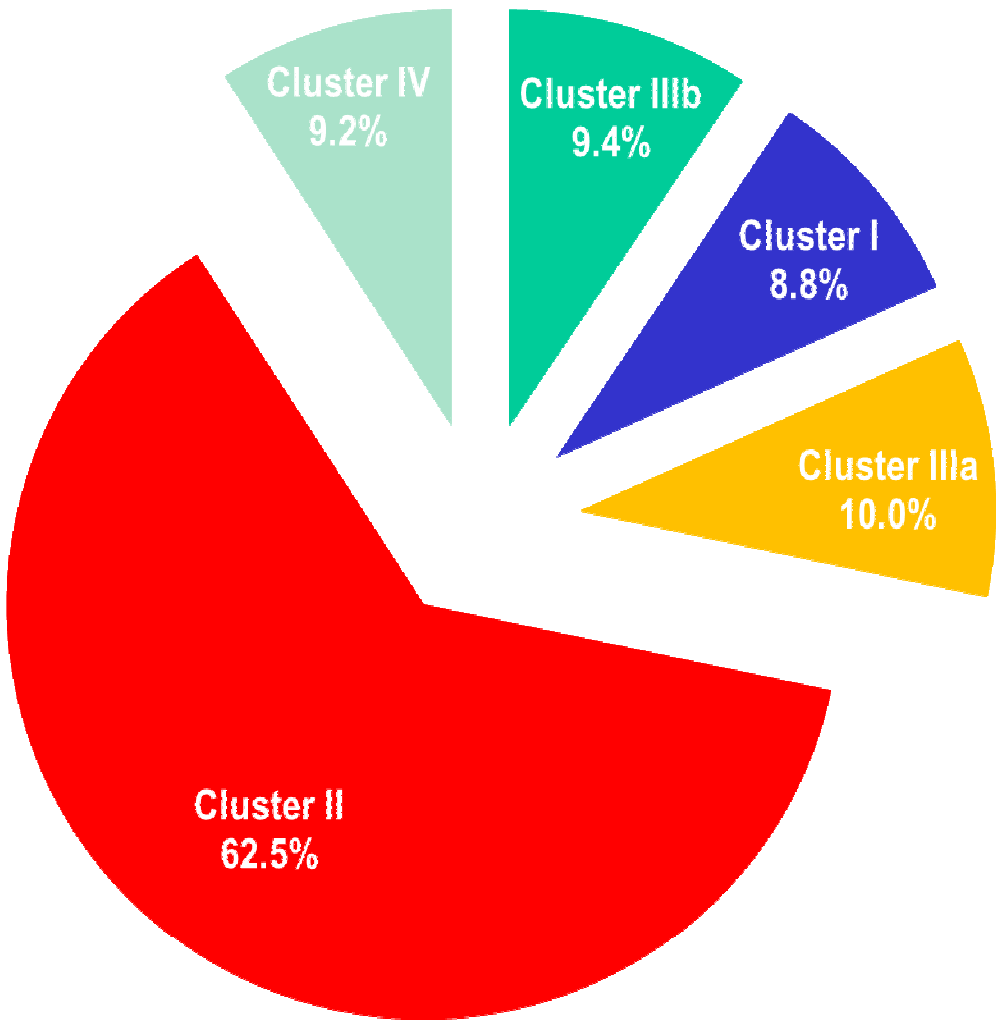
Biological feasibility

OVERSEER modelling

Nutrient budgets

Illustrative case study farms

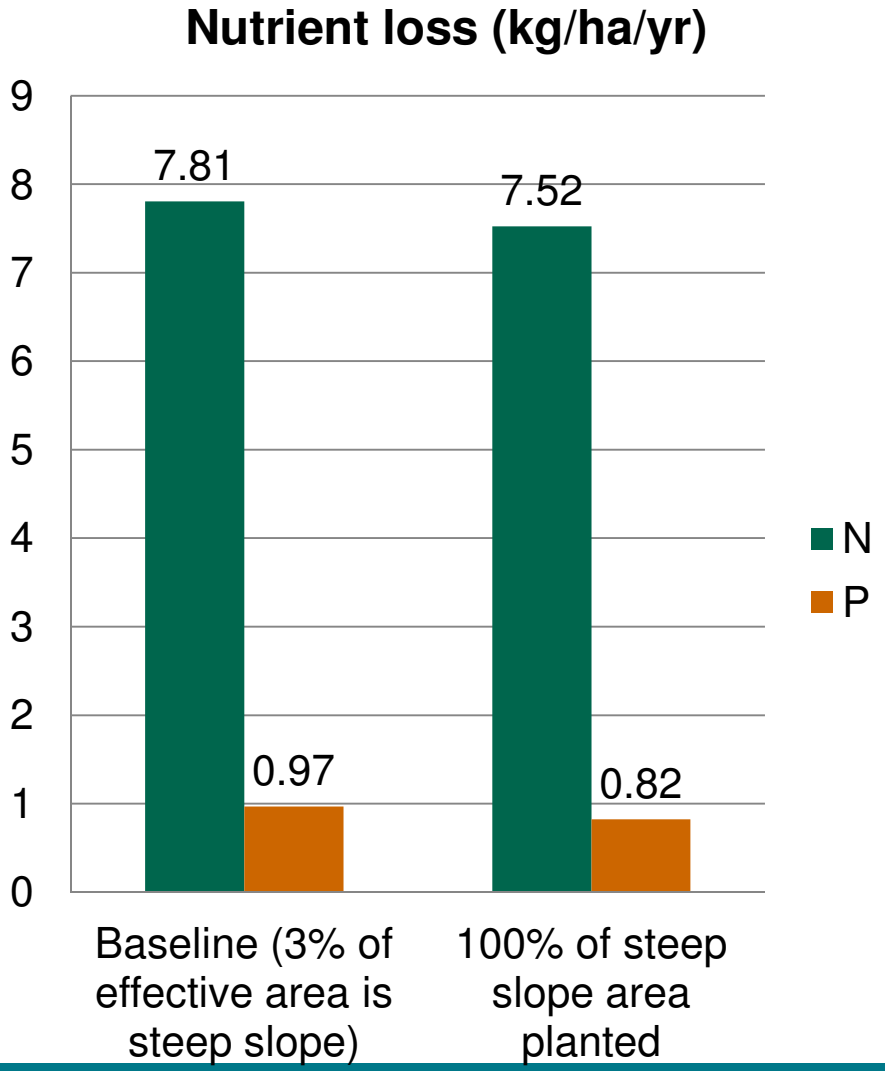
Effective area proportion by cluster

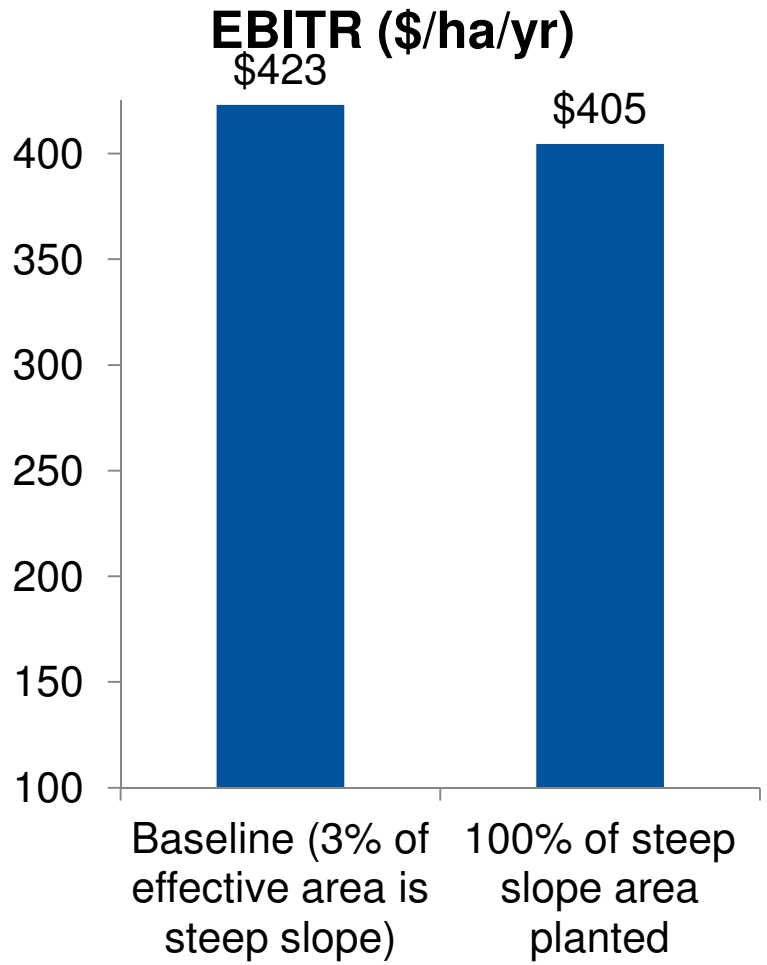


Case study II

Description	Ave. N used (kg/ha/yr)	Mitigation option	Scenarios
Traditional hill country • **Steep slope - 10% of area** • Large farm size: Ave. 475ha • High sheep ratio: 70% • Low stocking rate: 8.5SU/ha	0.5	Plant steep slope in trees	Baseline: **3%** Scenarios ▪ 20% ▪ 40% ▪ 60% ▪ 80% ▪ 100%

Case study II





Case study IIIa

Description	Ave. N used (kg/ha/yr)	Mitigation option	Scenarios
Hill country, dairy support on maize silage cropping • **Cropping: 70% of eff. Area** • High cattle ratio: 100% • High female cattle ratio: 80% • Low stocking rate: 8.6SU/ha • Beef breeding	125	Reduce are of maize silage cropping	Baseline: 70% of Area Scenarios: ▪ 20% ▪ 40% ▪ 60% ▪ 80% ▪ 100%

Case study IIIa