Degradation of Pastureland: Livestock taxation

Economic Research Institute &

Institute of Sustainable Development

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Introduction

- Livestock sector

- Employment

- GDP

Degradation of Pastureland+eco and econ

- What is the degradation?

- Some reports about the degradation?
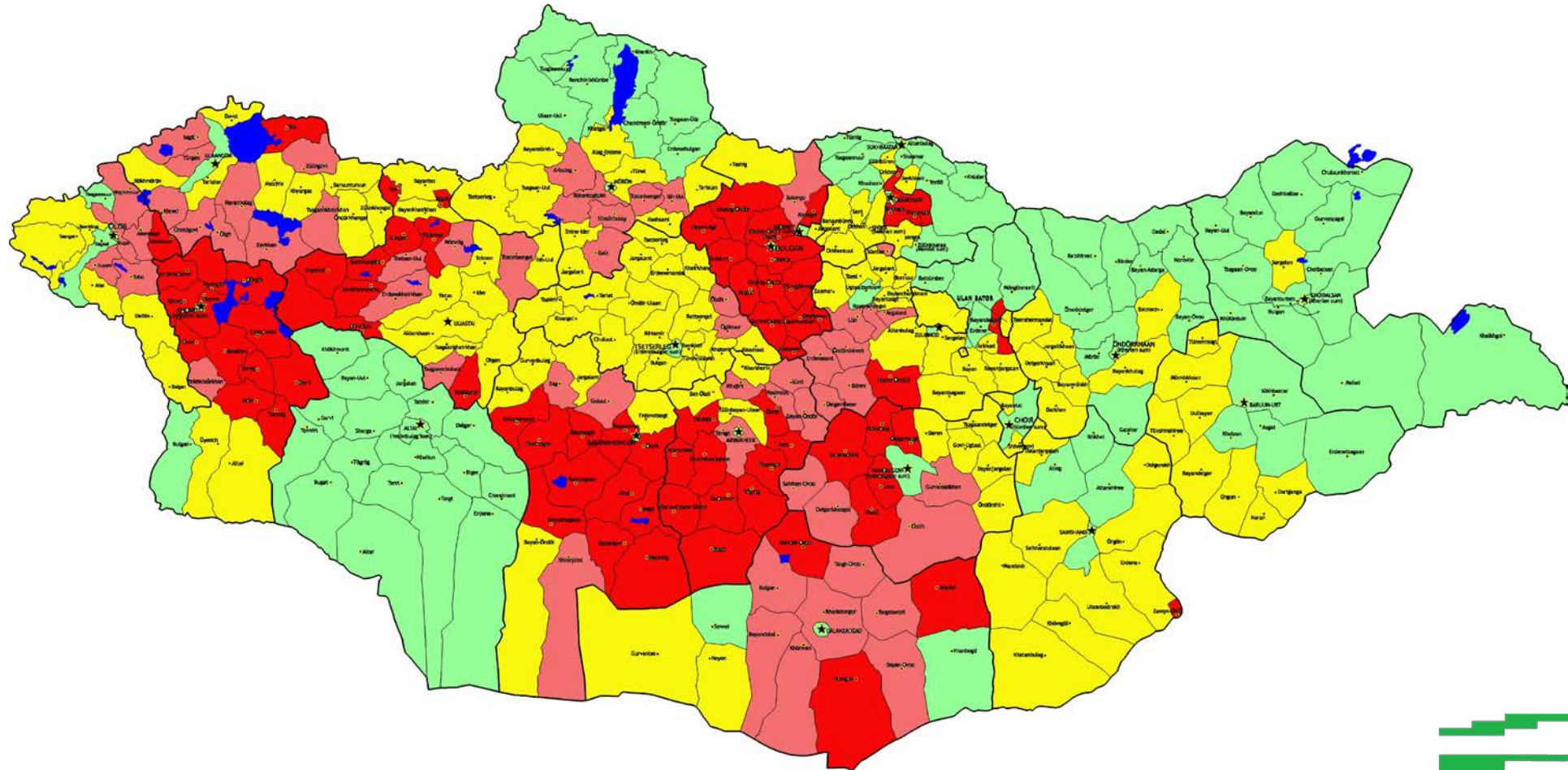
- Current and perspective states

Pasture Use Index

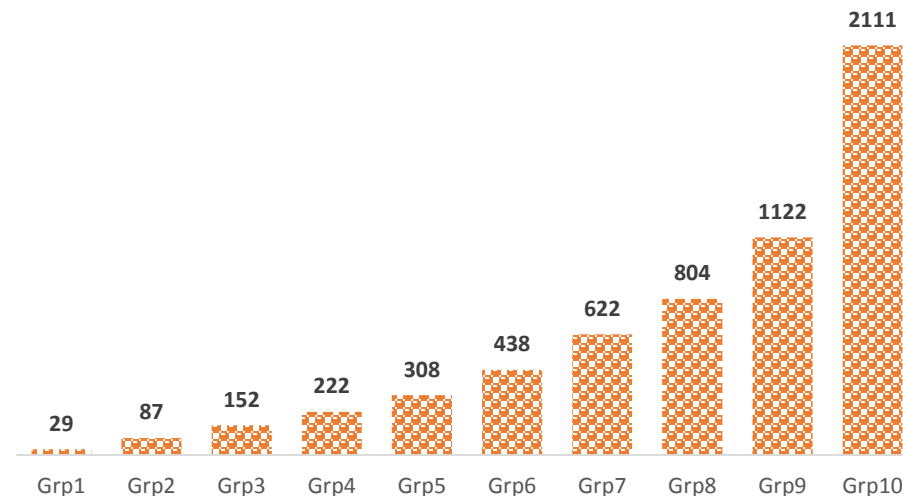- Formula

$$PU = BC/BS_\phi$$

- Data – Japan research
  - 512 kg per sheep
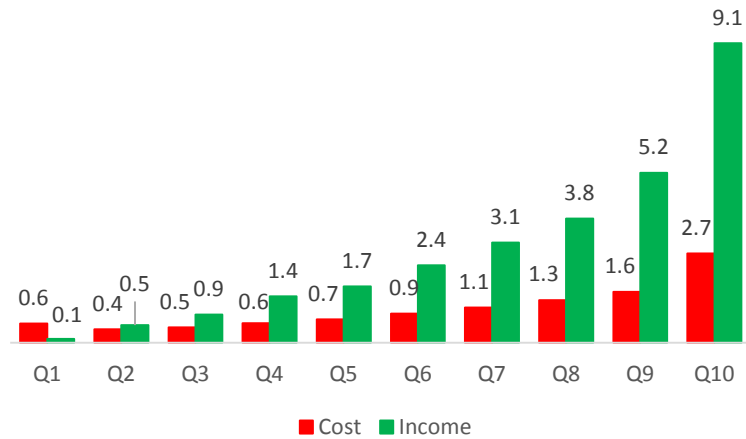
Pasture Use Index (PIU > 1.01)

Data description

- Converted to sheep head using eating coefficients (+)
  - goat – 2 sheep, cattle – 4 sheep, horse – 8 sheep, camel – 3 sheep

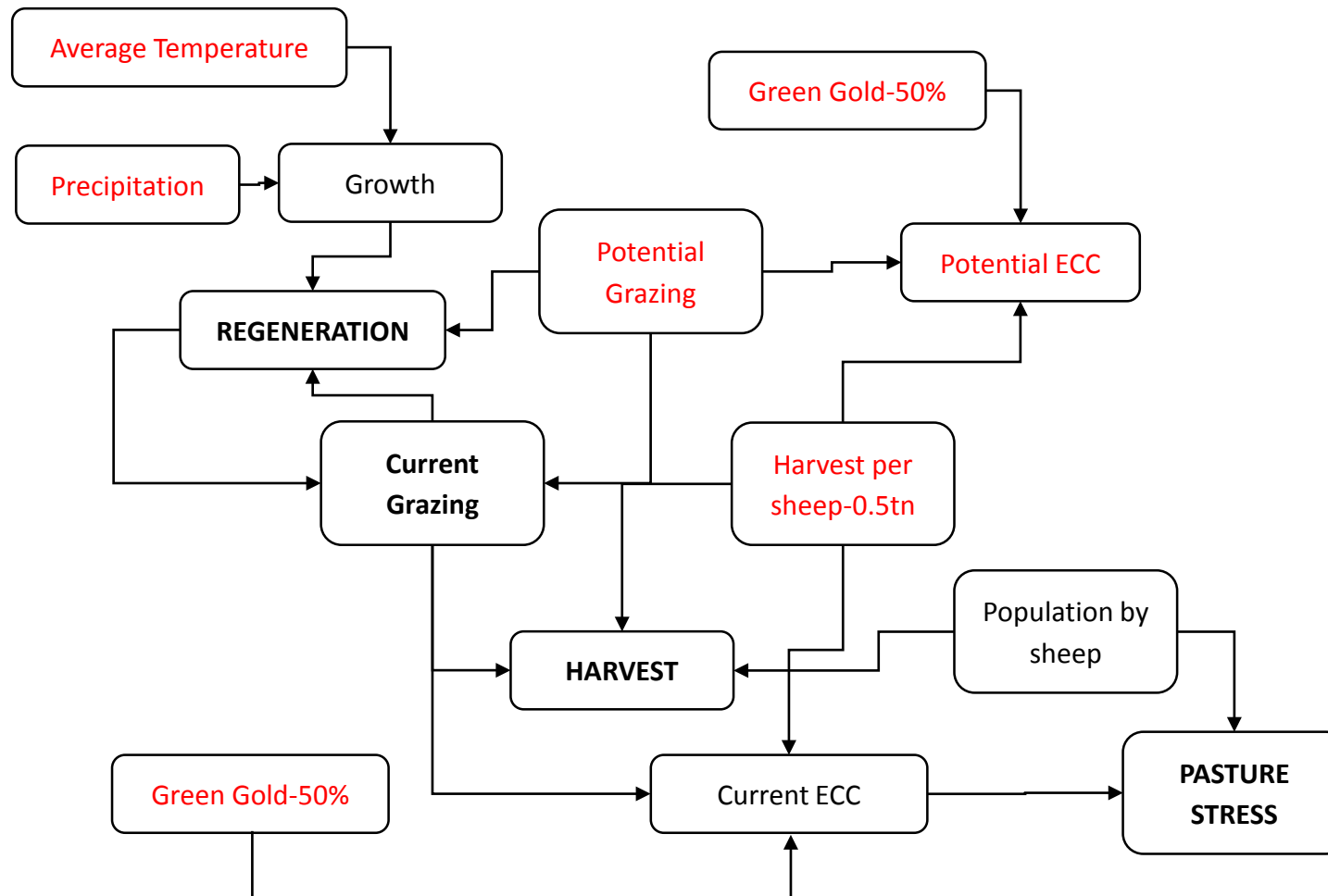- Created 10 groups based on the number of livestock

Data description

Slaughtering after 1-year
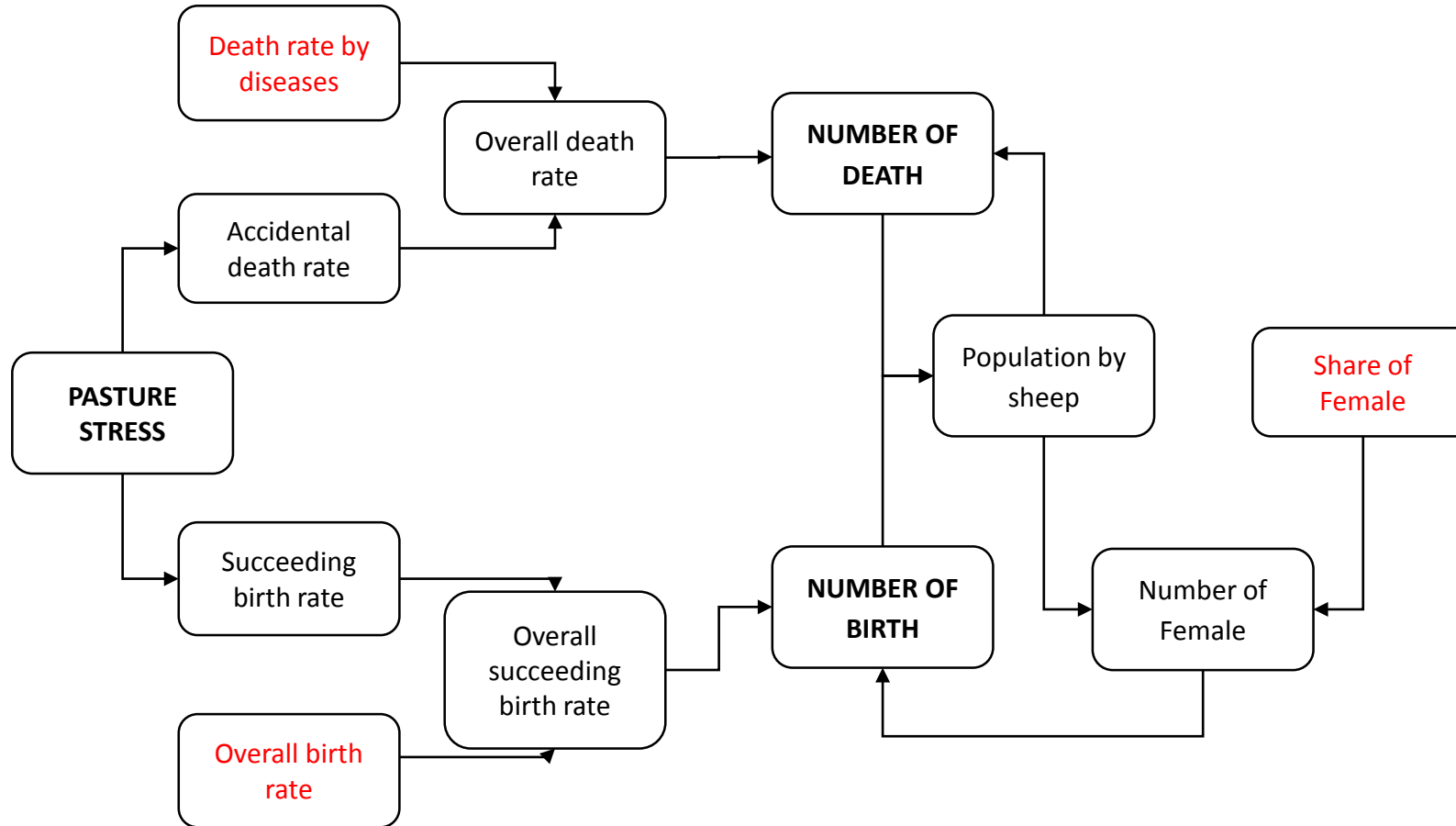

Slaughtering this year

Modeling

Modeling

Modeling (Herder's behavior)

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Simulation results

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