

## Farmer perspectives on sustainable farming

J.H. COTMAN

Waikato Federated Farmers, PO Box 447, Hamilton

### Abstract

Waikato Federated Farmers has recently taken a proactive role in land management issues which has involved developing for farmers an operational definition of sustainable farming and ways of promoting and demonstrating sustainable practices on farm. In partnership with AgResearch and Environment Waikato, the operational definition, management practices and user friendly indicators to aid monitoring were obtained. Sustainable farming **recognises** socio-economic goals of farmers (viable business, enjoyable lifestyle, good living standards, good short term profitability, satisfied farmers) and resource goals (efficient, contented animals, productive pasture, clean water, control of feral pests, unrestricted market access, adequate rural services, family health). Grazing guidelines have been produced using the above information and on-farm study groups set up to demonstrate these practices in a whole-farm system. User-friendly indicators have also been developed and are in use.

**Keywords:** farming goals, guidelines, participatory process, sustainable farming

### Introduction

“Sustainable Farming” is one of the buzzwords of the nineties!

Is sustainable farming a threat or indeed an opportunity for New Zealand?

Federated Farmers picked up the challenge and set out to document current information so as to assemble some facts to stimulate debate.

As a first step, to reach some conclusion, our focus needed to be upon ourselves, as farmers who indeed have the responsibility of long-term stewardship of our land.

The impetus to start was increased when Environment Waikato attempted to present a land use module for its Transitional Regional Plan. This **challenged** land owners over fundamental environmental management but focused too narrowly on a land classification system. This system allowed arbitrary judgement to be passed

without considering a range of variable factors that might otherwise influence land use.

It was determined that we needed to take a proactive role in land management issues and look for ways of promoting sustainable farming practices. Thus we aimed at publishing a guide of management practices that could promote good environmental outcomes, while ensuring farming remained relatively profitable and enjoyable.

We based the project on the following key criteria:

- That land owners are responsible for minimising effects on the environment.
- That market access, international and local, will be tied to the market's perception of our sustainable farming practices.
- That the operational definition of sustainable practices should come from farmers.
- That partnerships would be sought with research groups to develop economically viable practices.

### Stage 1

Federated Farmers set about defining sustainable farming by undertaking the following steps:

A partnership approach with **AgResearch**, Whatawhata, was developed to implement our goals, and Environment Waikato was also invited to participate. The process used was a problem-solving concept (Parminter *et al.* 1993).

A series of workshops were held with farming groups – up to 100 participants with a single goal – to develop for farmers an operational definition of “sustainability”.

### Workshop results:

- Sustainable farming would **recognise** the socio-economic goals of farmers such as:
  - viable farming business
  - enjoyable lifestyle
  - good living standards
  - good short-term profitability
  - satisfied (financially secure) farmers
- Farmers would achieve these goals through seeing to the following:

- efficient, contented, animals
- productive pasture
- clean water
  - unrestricted market access
  - farmer and farm family health
  - adequate rural and agricultural services
  - control of feral pests

A clear message came through that farmers' economic viability was paramount, but they did have a long-term view viz: to manage the resource (the farm) wisely for the benefit of future generations. Similar results were obtained from farmer workshops held in Hawke's Bay by Hawke's Bay Regional Council (Grey 1995).

We now had a set of farmer-recognised goals that could be judged through a few key areas that led to sustainable farming.

From the overall concept of sustainability as above, farmers further defined through a series of objectives, how these would be achieved and monitored. For example, farmers **recognised** that to achieve sustainable enterprises, they required both:

- (a) Efficient, contented animals. This would be achieved through managing such factors as:
- \* animal health
  - \* stocking rates
  - \* animal shelter
  - \* stock performance
  - \* stock enterprise
- (b) Productive pasture. This would be achieved through managing such factors as:
- \* high producing pasture
  - \* vigorous pasture
  - \* quality pasture
  - \* fertile soils
  - \* well-structured soils

Farmers were then encouraged to build upon these concepts and to define, in their own terms, objectives that would achieve these goals. An exhaustive list was compiled, which underlines the complex nature of farm management.

A small selection is as follows:

- selecting suitable livestock enterprises
- managing stocking rates
- monitoring stock performance
- setting optimum mob densities
- establishing and using animal shelter
- management of pasture for quality
- plant genetic improvement

- planned farm subdivision
- controlled water management
- maintaining a balance of soil nutrients
- best use of fertilisers
- nutrient management
- maintaining soil structure
- avoiding chemical contamination
- control of feral animals
- control of weeds

A list of indicators to describe the impact of particular managements was compiled, and this suggested that farmers would primarily use visual assessment in determining outcomes of specific management practices.

Farmers would not set objective measures on their indicator descriptions, choosing instead to leave it to individual land owners to evaluate their own operations.

The following are examples of indicators used by farmers:

Not surprisingly, livestock farmers viewed the sustainability of their enterprise through their livestock indicators,

- e.g. health  
condition  
coat  
contentment  
grazing preferences  
moving ability

Pasture observation also figures highly as an indicator of farm health,

- e.g. good clover content  
dense sward  
persistent pasture  
few weeds  
low dead matter  
rich green colour

A number of base monitoring tools are already available and in use, such as the following:

- herd recording
- herd production testing
  - animal health (e.g., somatic cell counts in milk and drenching schedules)
- pasture growth
- grazing records
- fertiliser records
  - soil and **herbage** analysis
  - rainfall
- ground temperatures
- financial recording systems



can be expected from following a series of management practices. We can harness New Zealand's unique position as clean, green – “sustainable” – enhancing our market access. The publication sets out to be an information resource and is to act as a guide, a reminder and a stimulator.

Partnerships have been formed along the way with AgResearch, Environment Waikato, and MAF who have all participated in this stage of the project providing backup support when required.

Farmers now have the tools from which to build some robust monitoring techniques which can lead to large-scale farmer acceptance, and thus benefit farmers' economically and address the long-term environmental demands that we will increasingly face.

We have an opportunity to seize the initiative and promote information on sustainable farming in a meaningful and practical way.

#### **ACKNOWLEDGEMENTS**

Federated Farmers wishes to acknowledge the assistance of AgResearch, Environment Waikato, MAFPOL and the Foundation of Science Research and Technology.

#### **REFERENCES**

- Grey, H. 1995. Pastoral guidelines Hawke's Bay Regional Council.
- Parminter, T.G.; Wedderburn, M.E.; Carter, J.C. 1993. Waikato Regional Workshops on Sustainable Agriculture: A Partnership Approach by Federated Farmers, AgResearch and Environment Waikato. AgResearch Public Document. ■