



Outline

- Sustainable Nutrient Management Shortcourses Fertilizer and Lime Research Centre (FLRC), Massey University.
- Nutrient Management Advisers Certification Programme.
- Nutrient budgeting workshops for growers.

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Overview of courses

- Massey University (FLRC) offers two courses on Sustainable Nutrient Management:
 - Intermediate
 - Advanced
- The courses were developed in conjunction with the NZ Fertiliser Association.
- Both courses involve the use Overseer Nutrient Budgets model.

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Intermediate course

- Covers topics relating to the management of nutrients on farms, including:
 - Nutrients and nutrient cycling
 - Soil and plant testing
 - Water movement through agricultural soils and landscapes
 - Issues with fertiliser contaminants
 - Fertiliser recommendations
 - Background to Overseer Nutrient Budgets
 - Using Overseer to assess nutrient management of a case study
- Two versions of the course; Pastoral Agriculture or Orchard and Arable production. This year; 6 Pastoral courses and 1 Orchard and Arable course (5-7 November).

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Intermediate course

- Prerequisites include a tertiary level course in Soil Science or Land Resource Management, or have significant practical or professional experience in production agriculture/horticulture or environmental science.
- A study guide is sent out five weeks prior to the contact course (expectation of about 40 hours pre-course study).
- Completion of the pre-course assignment, attendance at all sessions of the 3-day contact course and passing the two-hour examination is required to gain the 'Certificate of Completion in Sustainable Nutrient Management in New Zealand Agriculture'.

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Advanced course

- Enrolment in the Advanced course requires successful completion of the Intermediate course (an exemption may be granted based on applicant's experience).
- The intake for these courses is usually in February with contact courses scheduled for mid-year (3 courses this year).
- A study guide is provided and a commitment of about 150 hours of 'homework' study and preparing assignments is expected over a five month period.
- The assignments are case study farms using Overseer, which include both pastoral and arable examples.

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Advanced course

- Completion of the four assignments, attendance of a three-day contact course and passing the two-hour examination is required to gain the 'Certificate of Completion in Advanced Sustainable Nutrient Management in New Zealand Agriculture'.
- Both the Intermediate and Advanced courses are part of the recently introduced Nutrient Management Adviser Certification Programme (NMACP).

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- In 2012, DairyNZ commissioned the Fertiliser Association to establish the programme as part of the Ministry of Primary Industries' Primary Growth Partnership (PGP).
- The aim of the programme is to establish a set of industry standards for nutrient management advisers to meet and provide certification.
- To become certified, applicants need to demonstrate they have appropriate qualifications, or equivalent field experience, with a suitable training record.

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- Advisers are required to have successfully completed the Intermediate and Advanced courses in Sustainable Nutrient Management (exemptions may apply to applications before 31 October 2013 under certain circumstances).
- Also required to demonstrate that their skills and knowledge meet required standards through a competency assessment.
- To maintain certification a nutrient management adviser needs to complete a minimum of 15 hours of continuing professional development each year.
- More information is at www.nmacertification.org.nz

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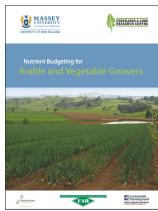
Nutrient budgeting workshops

 Project involving FAR, HortNZ and Massey University, funded by the Sustainable Farming Fund (MPI).

• Produced two booklets on nutrient budgeting:

-Nutrient budgeting for Arable and Vegetable growers

- -Nutrient budgeting for Orchardists
- Provide workshops for growers on nutrient budgeting with Overseer.



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Nutrient budgeting workshops

- Original intention was a training day using Overseer.
- Developed into an information workshop on Overseer with regional council policy context.
- First pilot workshop was with FAR in Christchurch (5th July)
 - 18 participants (about half growers).
 - Two main sessions:

<u>Session 1</u>: Background to nutrient management and Overseer; (including update of Ecan plans, FAR review of Overseer)

<u>Session 2</u>: Using Overseer (case study, input information, interface and reports. Key factor's influencing N leaching in the model.)

Feedback.

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Nutrient budgeting workshops

- Feedback:
 - -Most attendees thought the pilot workshop was a good length and covered useful material.
 - Some growers wanted a hands-on session with their own farms.
 - Others would rely on a consultant to run Overseer, but would like a method to assist with recording data (e.g. data recording template).
- A second pilot workshop scheduled with HortNZ in Wellington on 19th August.

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