

### **Centre for Land and Water**



# Winter Lectures 2011

Eight informative lunchtime lectures in the Green Shed: Fridays at 12 noon

Lecture 3

Bees - what's happening in the hive?

**Peter Berry** 

Berry Bee Keeping

### Winter Lectures 2011

#### **REGISTRATIONS REQUIRED**

Phone: 06 650-4532 or Email greenshed@claw.net.nz

Small charge to cover expenses: \$25 inc GST per lecture

(\$150 inc GST for a Series Registration\*)

You will receive a light lunch (if you register on time), a lecture and an invitation to stay and discuss the topic in more depth should you wish.

#### **ACKNOWLEDGEMENTS:**

The Centre for Land and Water thanks the Winter Lecturers who have generously given their time:













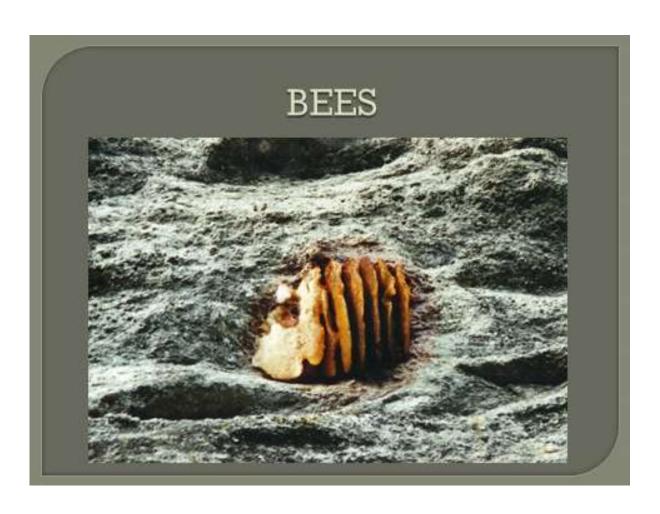


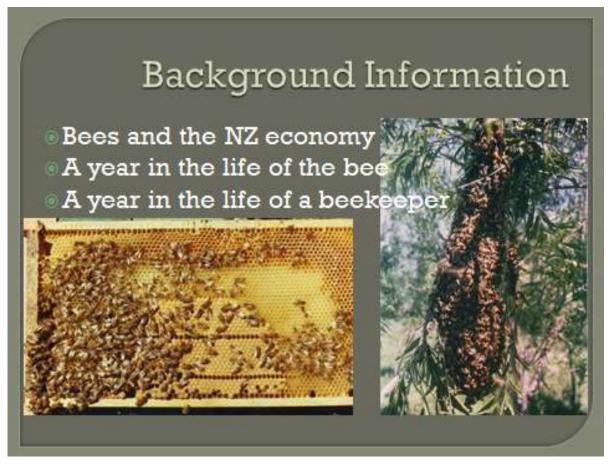




#### **NOTES:**

- \* We may cancel or vary presentations if speakers become unavailable or if registrations fail to meet minimum numbers.
- \* If a speaker becomes unavailable, we may arrange a suitable replacement to cover the same or a similar topic.
- \* Holders of a Series registration will be refunded for any cancelled lectures at \$20 inc GST per cancellation, up to \$150 inc GST total.



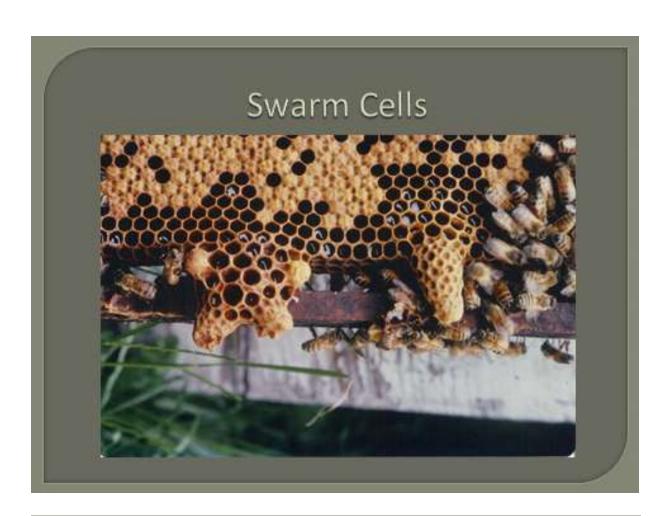


## Bees and the NZ Economy

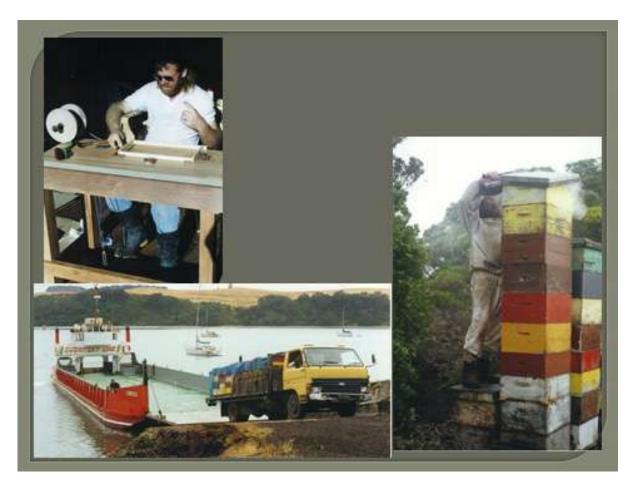
- 3251 beekeepers, 388369 hives
- But 287 beekeepers manage 96% of hives
- 9,000 to 12,000 tonnes honey annually
- \$5.1 billion of NZ economy estimated due to pollination by the honey bee

### A Year in the Life of a Beehive

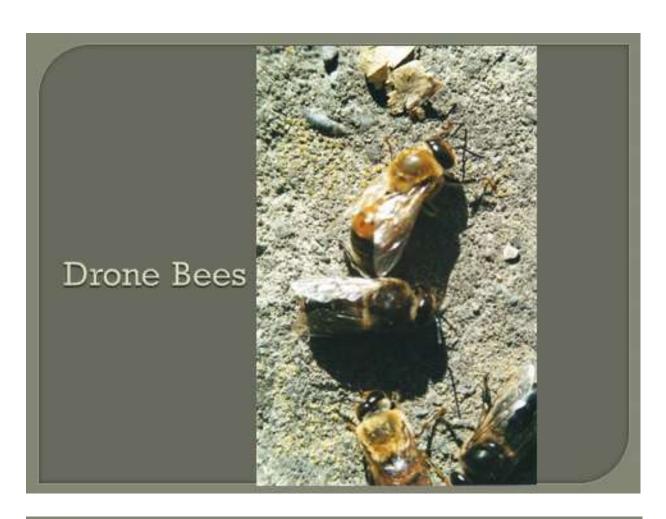
Winter	Spring	Summer	Autumn
*Lower hive temp. *No Brood *Bees cluster *Cleansing flights on warmer days *Population low and gradually decreasing	*Start breeding *Hive temp. warmer *Population at lowest but increasing (early Spring) *Need pollen and nectar *Population increasing rapidly – swarming (late Spring)	•Highest Population •Main Honey flow	*Lower breeding *Population decrease *Kick out drones *Cease breeding



Winter	Spring	Summer	Autumn
Shifting Maintenance Fishing Framping & Folk Festivals	•Tidy up hives •Feed bees •Check for AFB •Treat varroa •Shift for pollination •Shift out of Pollination •Remove varroa treatments •Feed bees again •Add honey boxes	•Take off honey boxes •Extract honey •Check for AFB	•Take off honey boxes •Re-queen •Check for AFB •Treat varroa •Feed bees •Remove varroa treatments •Shut down for Winter

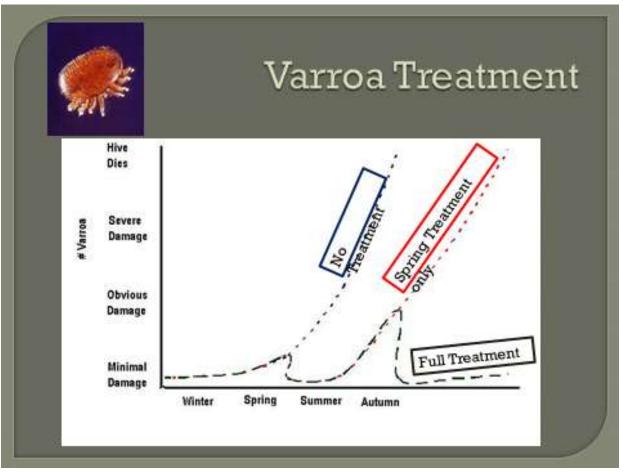












### Current Threats

- Government
- MAFiA
- © Globalisation



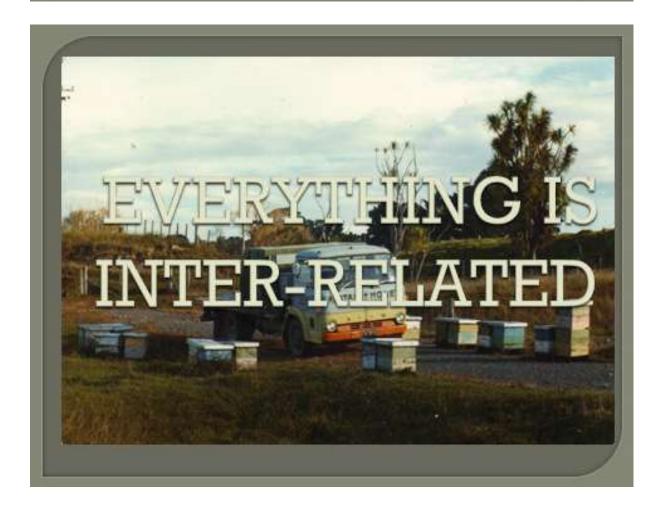
## Threats in waiting - Overseas

- Colony Collapse Disorder
- European Foulbrood
- Small Hive Beetle
- Tropilaelaps Mite
- Acarine Mite
- Viruses
- © Cape Bee
- Africanized bee?
- ???Robber flies
- Endemic diseases exotic strains



# Threats in Waiting – At home

- Urbanisation
- Mono-cultures
- Sprays e.g. neonicotinoids
- Overstocking
- Poor flowers breeding





#### **WELCOME**

Welcome to the Centre for Land and Water, a venue supporting sustainable agriculture through training, research and consultancy.

The Centre provides professional offices, meeting and seminar facilities and land for research and training.

We currently have rental offices available. Terms by agreement - phone, fax, copy and print facilities available on-site.

The Green Shed seminar venue is available for training, meetings or for general event hire. Contact us: Phone: 06 650-4532 or Email greenshed@claw.net.nz

The Centre is located on a 4 ha site with easy access and plentiful parking. Entry is from Ruahapia Road, accessed from Karamu Road (SH2) at Waipatu or Pakowhai Road at Chesterhope. It is 4 km (8 minutes) from the Hastings CBD, 17 km (20 minutes) from Napier CBD and 18 km (20 minutes) from Hawke's Bay Airport.

#### **COMING SOON**

#### **CLAW Short Seminars:**

Communications: Preparing a media release

Communications: Writing popular articles

Communications: Writing technical reports and manuals

Communications: Preparing and delivering public presentations

Irrigation: System calibration theory and practice

Irrigation: How much water do I really need?

#### **CLAW Short Courses**

NZQA Certified Irrigation Evaluator



#### Centre for Land and Water

#### 1. Rural New Zealand Biofuels - the future could arrive any time:

July 8th

Speaker: Rocky Renquist, Plant and Food Research

Rocky is a crop research scientist. Bio-energy can replace ¼ of all energy use by 2050 and reduce the footprint of ag products. Having identified better conversion technologies, Rocky has worked on crops and crop residues to supply fuel plants. His focus is on bio-energy for rural New Zealand.

#### 2. Ground Water Resources - beginners guide to hydrology:

July 15th

Speaker: Tony Davoren, HydroServices

Tony is a hydrologist with extensive experience in irrigation, soil water, surface and groundwater water resources. He will explain key hydrology concepts so you can make sense of well tests and groundwater science. What does an aquifer report tell me? How do we know if current take levels are sustainable?

#### 3. Bees - what's happening in the hive:

July 22nd

Speaker: Peter Berry, Berry Beekeeping

Fresh from the National Beekeepers Association Conference, Peter will update us on the latest developments. He is a conservationist, tramper, hunter, fisherman, farm forester, muso and playwright. He is also passionate about bees, with lifelong beekeeping experience.

#### 4. Managing and making sense of data:

July 29th

Speaker: Mark Rodgers, "Datatamer"/ Hilltop Software

Mark is a data management specialist and developer of Datatamer software which is used by regional councils and irrigation schemes. He will explain how data from water meters, river monitoring, soil moisture and other sensors can be captured, cleaned, stored and made available. What is this data for and how can it help me?

#### 5. Employment Matters - getting it right:

**August 5th** 

Speaker: Gill Riley, Grow Human Resources

Gill is an HR specialist with experience in management and operational HR across many sectors. She presents a common sense approach to people issues, good employment structures, and ways to de-escalate issues. Her focus is excellence and optimal results through integration of all business operations.

#### 6. Lean Production - taking the waste out of what we do:

**August 12th** 

Speaker: Glenn Manahi, SBF

Glenn is the director of SBF, a company facilitating businesses into "lean" ways of thinking and doing. Lean is about doing more with less: less time, inventory, space and money; getting the process right the first time. Glenn promises a fun interactive session looking at systems - what works and what doesn't.

#### 7. Social Media - business in the online era for Rural Communities:

**August 19th** 

Speaker: Matthew Miller, Mogul

Matt has a wealth of experience in digital marketing and web development. He will enlighten us on social media including Facebook and Twitter — what role do they have in keeping rural communities connected with each other, their markets and the rest of the world.

#### 8. Interpreting leaf and petiole test results:

**August 26th** 

Speakers: Mike White, Analytical Research Laboratories and Andre Lubbe, Ravensdown Mike and Andre will co-present this session on testing plant material and turning results into fertiliser recommendations. They will use grapes as a case study to explain what your tests tell you about your crop. Mike and Andre are happy to answer questions about other crops that have particular interest to attendees.