

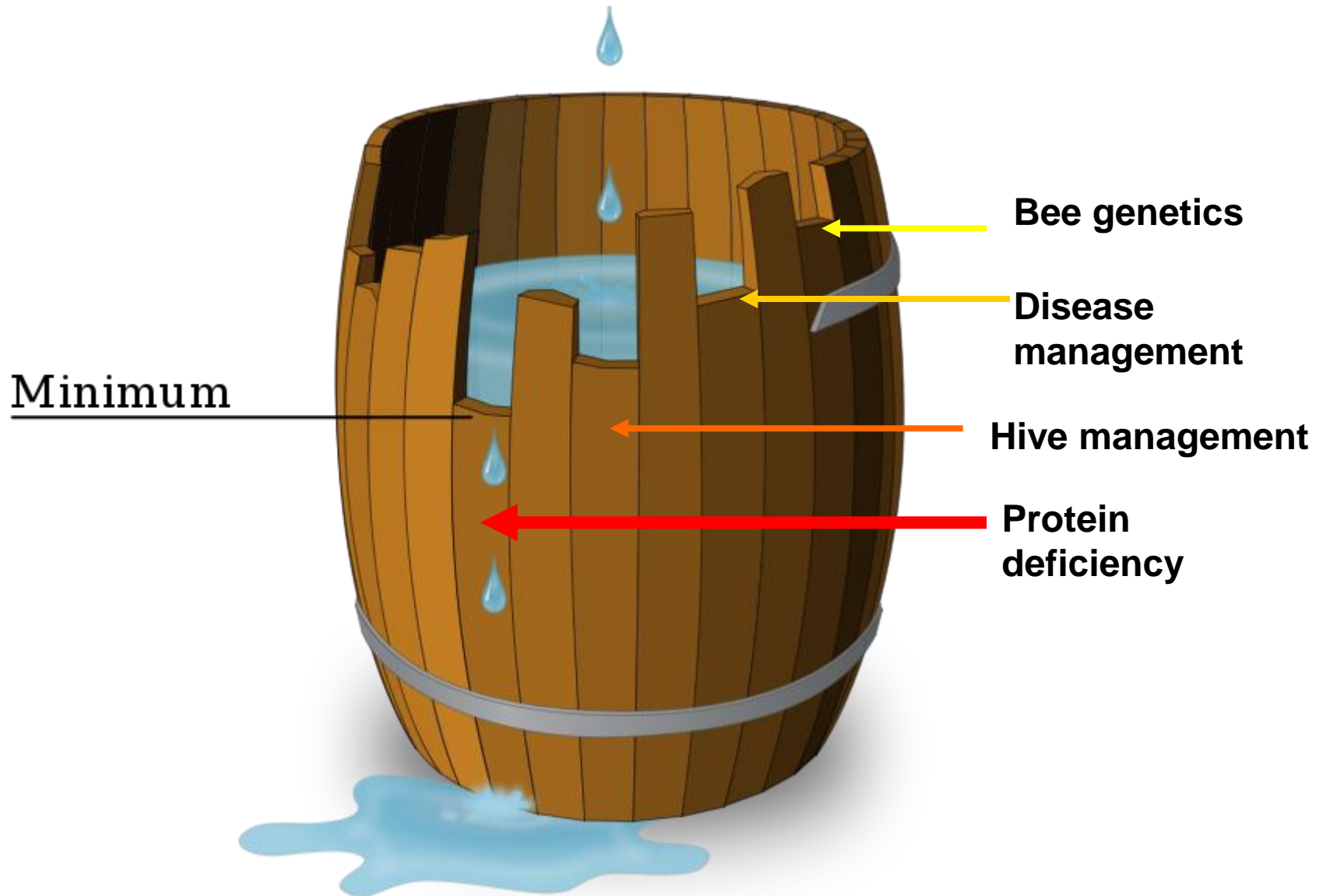


# Trees for Bees SFF Project: Demonstration Farms

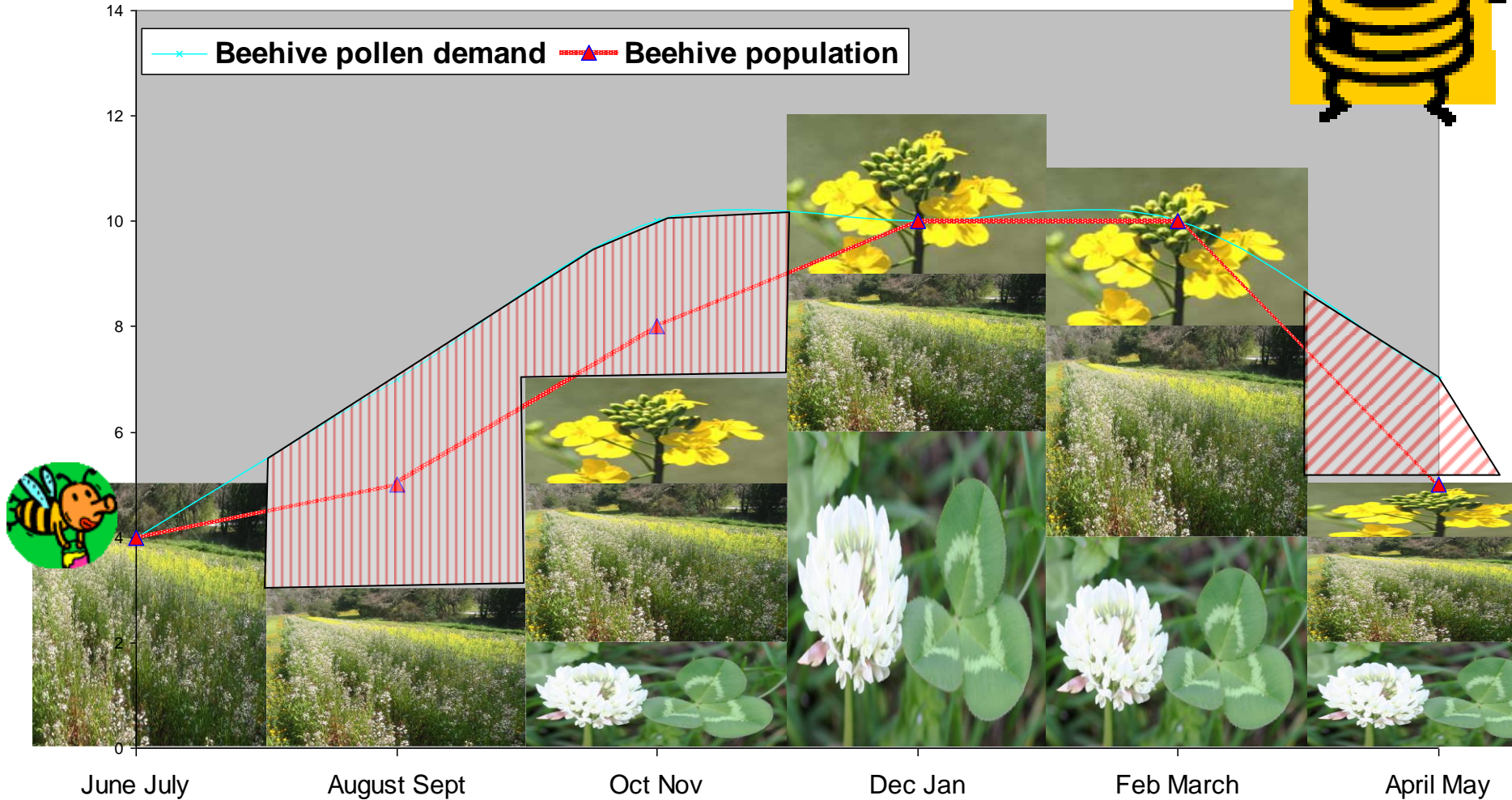
Marco Gonzalez, Apiculture Officer, AsureQuality

NBA Conference,  
Napier 27<sup>th</sup> June 2012

# Liebig's law of minimum.



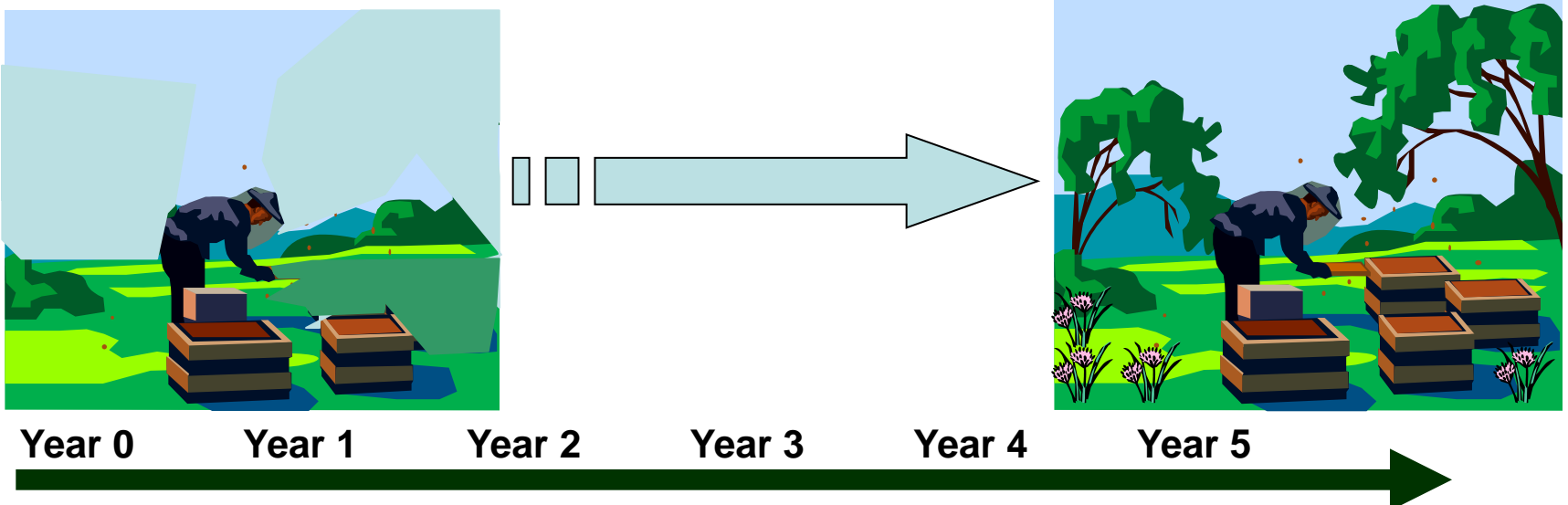
# Matching bee pollen feed supply with bee pollen feed demand



# Demonstration Farms

## Purpose:

- to show an example  
of the results in bee productivity
- from improved bee friendly farming systems
  - by planting flowers rich in protein
  - and multipurpose for the farmer





# Demonstration farm #1



400m x 5m

Strip planting  
around  
irrigation pond

100m x 5m

Image © 2012 DigitalGlobe  
Image © 2012 GeoEye  
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43°54'12.82" S 172°06'35.66" E elev 22 m

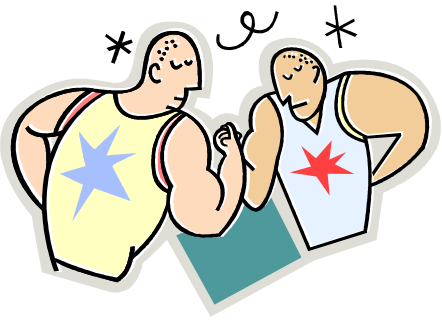






# Demonstration farm #1

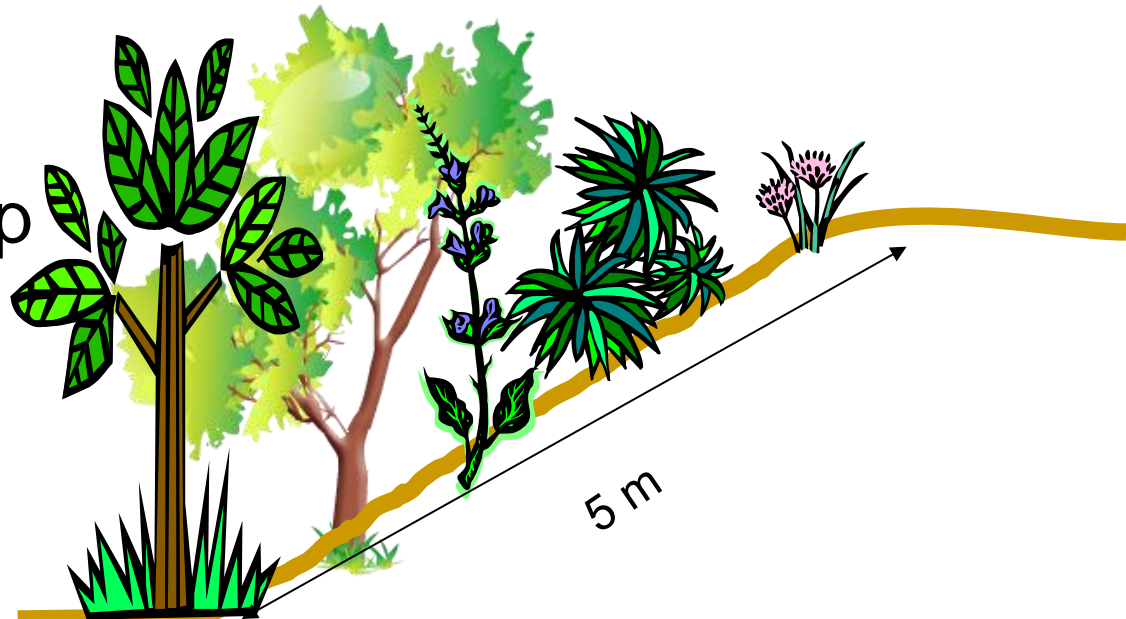




# Challenges

- 1) No flowering from late Nov to late Feb
- 2) Nothing that spreads out of control

- Slope
- Dry land
- No top soil
- Prefers natives
- No tall trees on top
- No aggressive roots (e.g. willows)





# Area to cover 2,500m<sup>2</sup> → @ 1,666 plants

## Spring Small Trees

Five Finger  
Tree Lucerne  
Eucalyptus



## Autumn Small trees

Hoheria  
Tree Lucerne  
Bottle Brush  
Kowhai  
Eucalyptus

## Spring Shrubs

Bottle Brush  
California Lilac  
English Lavender  
Hebes  
Mexican Orange Blossom  
Rosemary  
Grevillea  
Viburnum tinus

## Autumn Shrubs

Hebes  
English Lavender  
Grevilleas  
Viburnum tinus



# Demonstration farm #2

Mixed Shelterbelt

300mX5m



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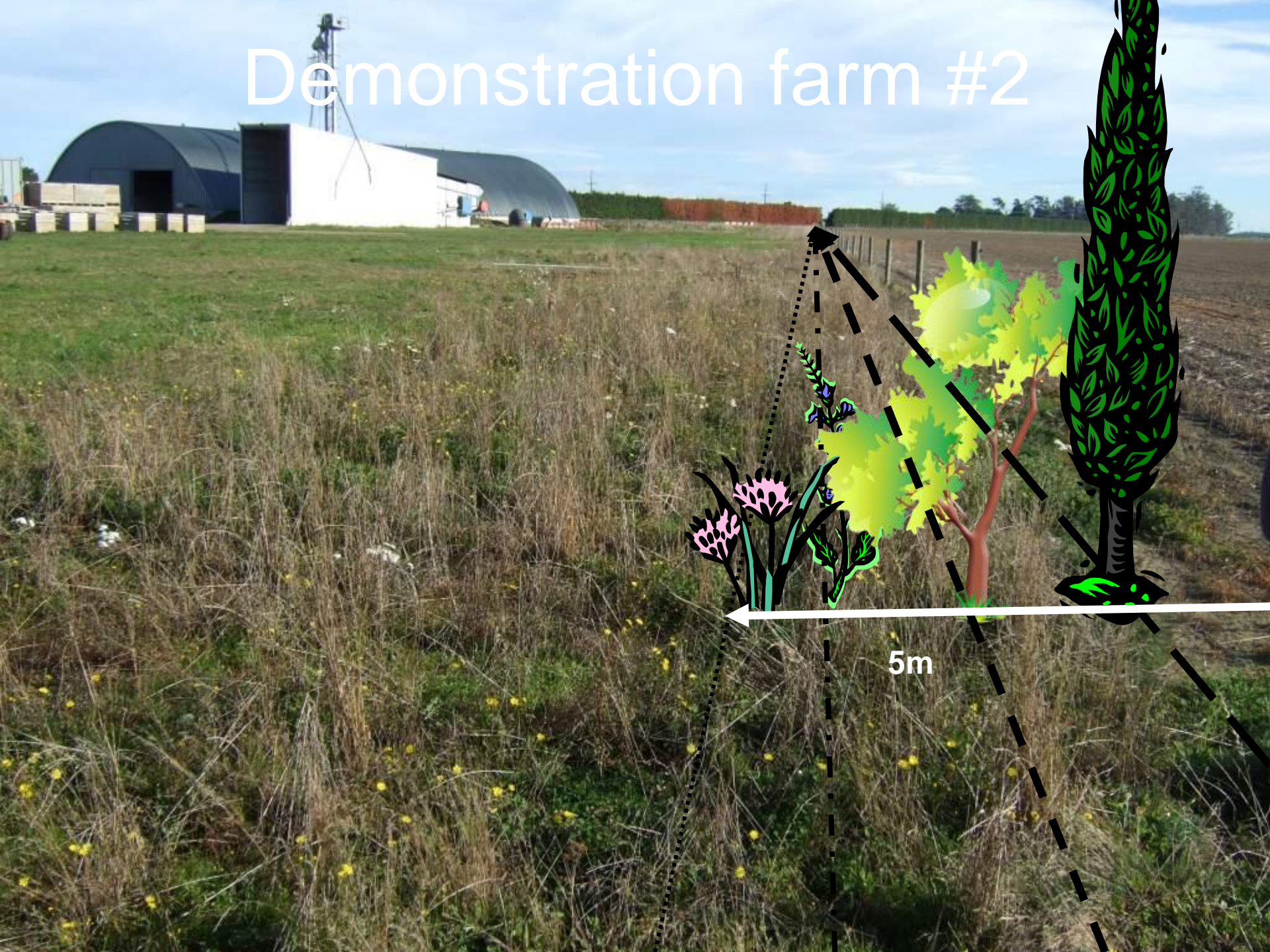
# Demonstration farm #2

**Apiary**

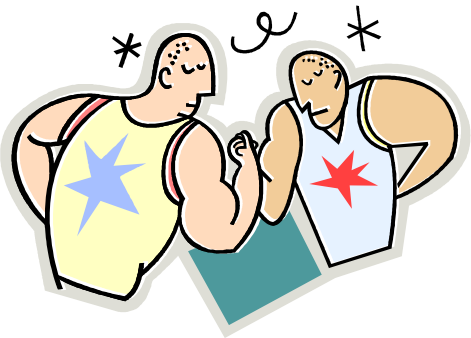




# Demonstration farm #2







# Challenges

- 1) No flowering from late Nov to late Feb
- 2) Nothing that spreads out of control

- Must include Poplars
- Good on the eyes
- Dry land
- No berries
- Not toxic to stock
- No twigs dropping
- Not damaged by snow



Area to cover 1,500m<sup>2</sup> → @ 1,000 plants

### **Spring Small trees**

Five Finger  
Eucalyptus  
Horse Chestnut  
Kowhai



### **Autumn Small trees**

Hoheria  
Kowhai  
Eucalyptus

### **Spring Shrubs**

California Lilac  
Hebes  
Rosemary  
Viburnum tinus  
Mexican Orange Blossom

### **Autumn Shrubs**

Hebes  
Grevillea  
English Lavander  
Viburnum tinus





A photograph of a lush field filled with yellow and white wildflowers. In the background, there is a dense line of green trees. The scene is bright and sunny.

 Please critique our planting plan

Thank you! 



# Area to cover 2,500m<sup>2</sup> → @ 1,666 plants

## Spring Small Trees

Five Finger  
Tree Lucerne  
Eucalyptus



## Autumn Small trees

Hoheria ?  
Tree Lucerne  
Bottle Brush  
Kowhai  
Eucalyptus

## Spring Shrubs

Bottle Brush  
California Lilac  
English Lavender  
Hebes  
Mexican Orange Blossom  
Rosemary  
Grevillea  
Viburnum tinus

## Autumn Shrubs

Hebes  
English Lavender  
Grevilleas  
Viburnum tinus



Area to cover 1,500m<sup>2</sup> → @ 1,000 plants

### **Spring Small trees**

Five Finger  
Kowhai  
Horse Chestnut



### **Autumn Small trees**

Hoheria ?  
Kowhai

### **Spring Shrubs**

California Lilac  
Hebes  
Rosemary  
Viburnum tinus  
Mexican Orange Blossom

### **Autumn Shrubs**

Hebes  
Grevillea  
English Lavender  
Viburnum tinus





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Coromandel

Honey  
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309 Honey

