



# Tarwyn Park Training- Landscape Rehydration

- Slow The Flow
- Let All Plants Grow
- Be Careful Where The Animals Go
- Filter the flow is a must know





**WELCOME**



# General Knowledge Quiz

1. What are the TWO free energies that run my farm?



Sunlight



Gravity

2. How do I assess my basic farm productivity?



The total **GREEN SURFACE AREA** of my farming system i.e.,

Which translates as the conversion of Sunlight energy into Organic matter

Via the process of photosynthesis.



3. What is the purist and most readily available **WATER** for plants, on your farm?



Dew includes mists, fog, all commonly referred to as the **DAILY WATER CYCLE**.

4. Where does the energy that powers cyclones, typhoons and tornados, as well as, high and low pressure systems come from?



The energy released from the **Latent Heat** of Condensation,  
when WATER changes of state from a gas to a liquid

5. How do landscape ecosystems  
maintain their fertility (carbon) balance?

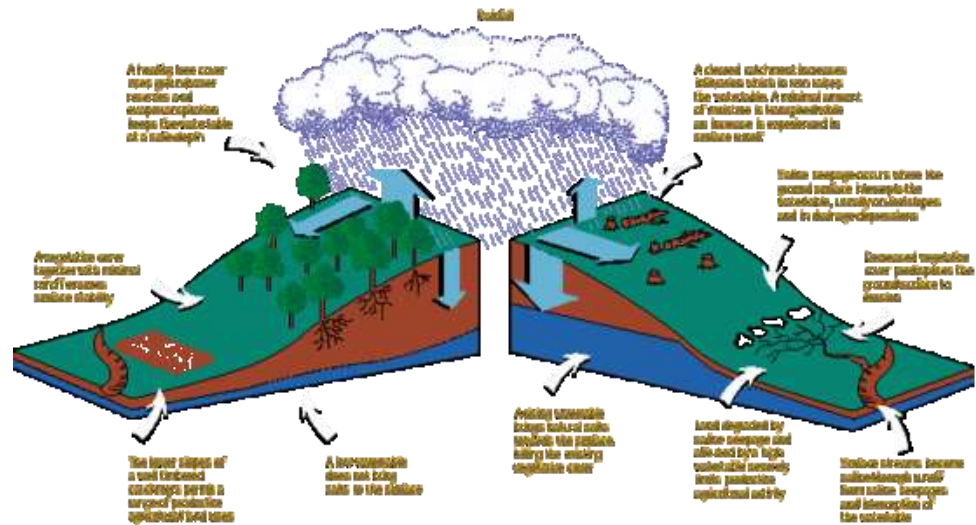


One way that nature does this is by growing edible and inedible plants together

6. Dryland Salinity. Does salt rise (against gravity)?

Or do you think it is moved laterally and  
expressed at the surface?

## The Water Cycle and Dryland Salinity



No. It can only move laterally to appear on the surface.





7. In Australia, are high water tables in farming systems beneficial to productive outcomes or detrimental?

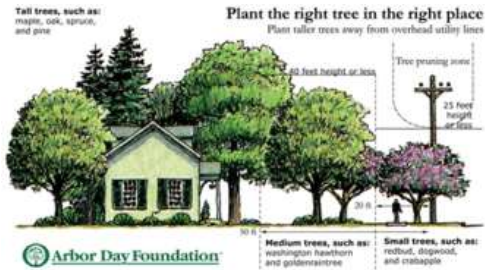
**Never**, when managed correctly.



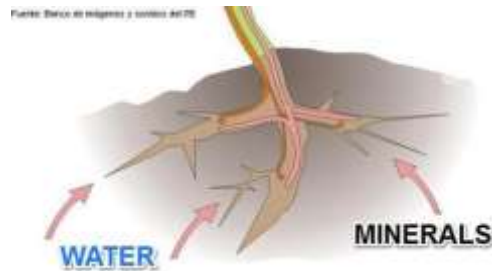
8. Can you name the 4 basic functions of plants?

1. solar powered **air conditioners**,
2. solar powered **pumps**, (reversing losses to gravity)
3. solar powered **processing factories**, and...
4. building soil carbon

1



2



3



4



9. Can you identify the natural, landscape progression  
in ALL terrestrial ecosystems?

Put very simply, it is a progression from a **high** point to a **low** point. ie.,  
from the Mountain to the sea and from Forestry to aquaculture (high to low)



10. Finally, what is the numerical value of the Carbon/Nitrogen ratio? And as a farmer, what is the significance of this ratio to farm productivity?

30:1



# Why NSF (Natural Sequence Farming) & TPT (Tarwyn Park Training)

- All about water
- Plants not soil
- European Landscape Function
  - a) Freeze
  - b) Thaw
- Australian Landscape Function
  - a) Perched wetlands
  - b) Feedback loops

# Failing Landscapes



Chicken Foot Erosion



# Contouring-WHY?

Nature's way of contouring known as chain mailing







# Contouring-WHY?

Chain Mailing in steeper country





# Contouring-WHY?

The end result of a bank less contour



# Contouring-WHY?

Bank less contour before and after rain.



# Contouring-WHY?

Restoration of an eroded gully by using contouring

Before



After





# Contouring-WHY?

Contour two weeks old then received 850mm in two & a half days

Before



After



# Contouring-WHY?

## Tarwyn Park Contour

Newly built



One year later



# Contouring-WHY?

Aerial photo of contour on Tarwyn Park





# Contouring – Why?



# Gully Restoration – Rylstone, NSW





# Gully Restoration – Rylstone, NSW



# Landscape Restoration – Rylstone, NSW





# Gully Restoration – Rylstone, NSW





# Slow The Flow



# Slow the Flow - Mulloon Creek, NSW

Before



After





# Slow the Flow - Mulloon Creek, NSW

Before



After



# Slow the Flow - Mulloon Creek, NSW

Before



After





# Let all plants grow

Before



After



# Let all plants grow

Before



After





# Let all plants grow

Feeding out or spreading hay increases fertility



# Let all plants grow

## Biodiversity of trees along the creek





# Let all plants grow

Before



After



# Animal Biodiversity





# Be careful where the animals go

Before



After





# Be careful where the animals go

Before



After



# Filter The Flow Is a Must Know





# Filter The Flow Is a Must Know



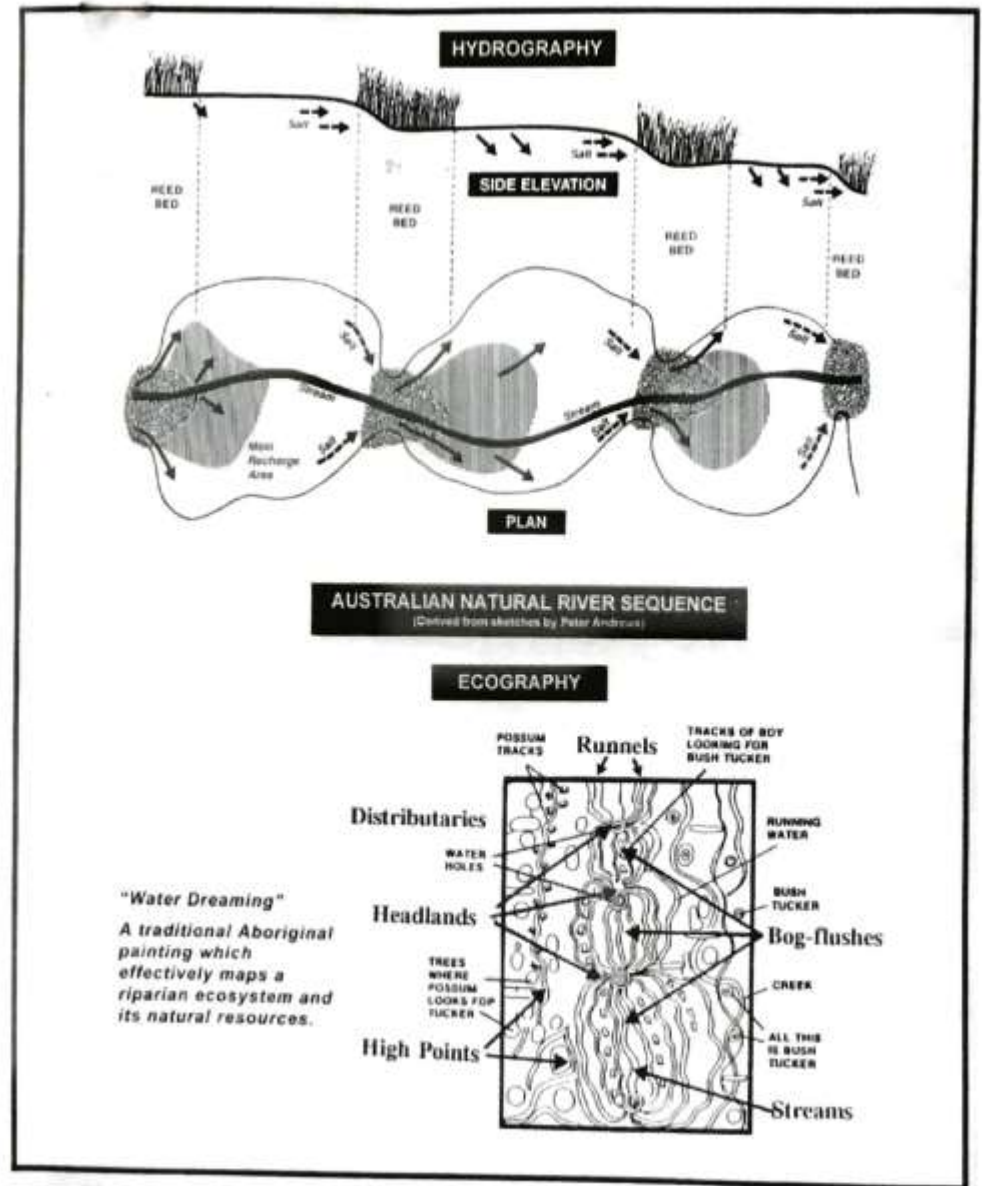
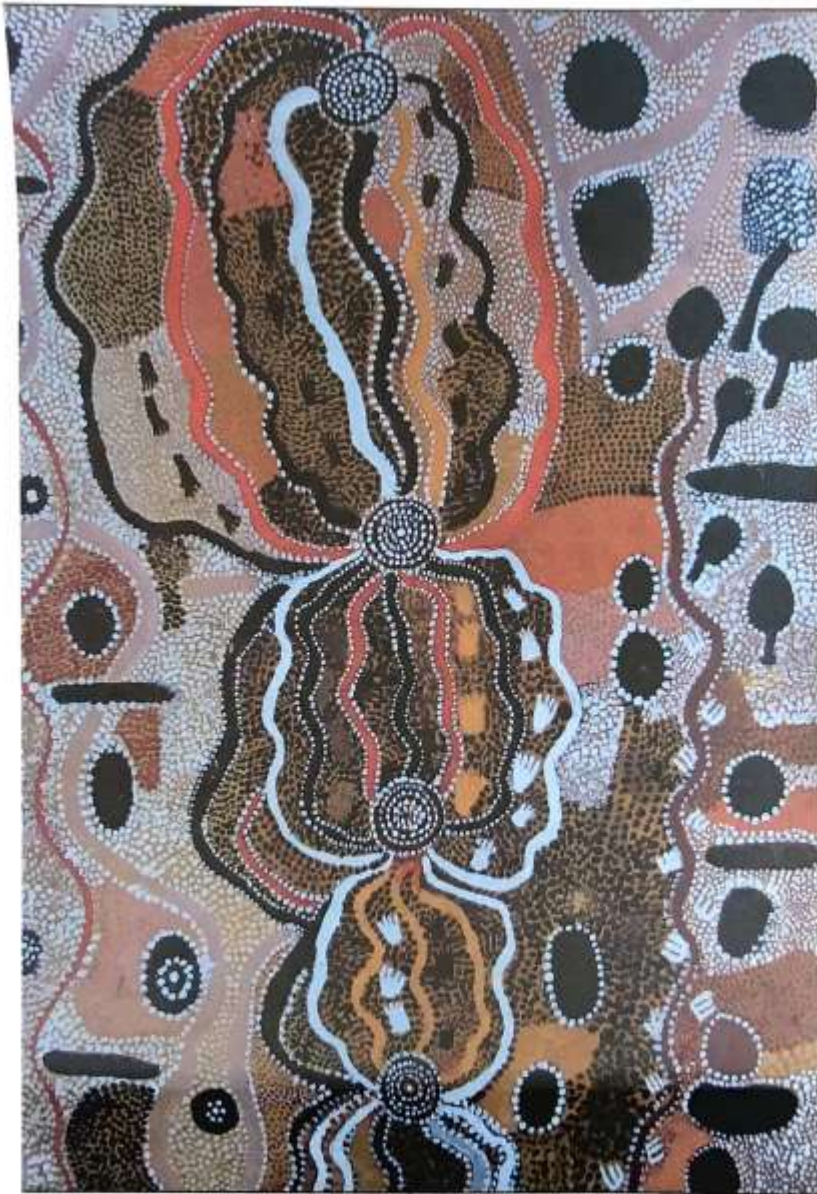
# Farm Planning

When planning your farm you can split it into three main zones:

1. The Accumulation Zone- where nutrients are transported and trees are planted.
2. The Cropping Zone- consists of grazing, cropping or hay making
3. The Filtration Zone- consists of wetlands or wet areas







Old Mick Tjakamarra's Floodplain Dreaming for Children with Possum Story provides the traditional cultural intelligence and conceptual understanding employed by Peter Andrews in Australia for his natural sequence farming system implemented at Tarwyn Park and elsewhere. Refer Australia Story, On the Brink & Beyond the Brink ABC Books.





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Questions?