

PLANT *of*



HEALTH

**Presentation to The Perennial
Poppies Group**



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The Purpose of this Presentation

Provide an overview of what we do and who we support

Discuss pertinent aspects of soil nutrition

Cover methods for applying fertilisers

Provide a brief overview on our products

Cover any questions you may have

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Where are our Products and Services Used



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Key Components of Soil Fertility



SOIL TEXTURE



SOIL MINERALS –
BALANCE & KEY
RATIOS



ORGANIC MATTER –
CARBON, COMPOST,
MICROBE FOOD



MICROBES – SOIL
LIFE



CLIMATE

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Healthy Soil

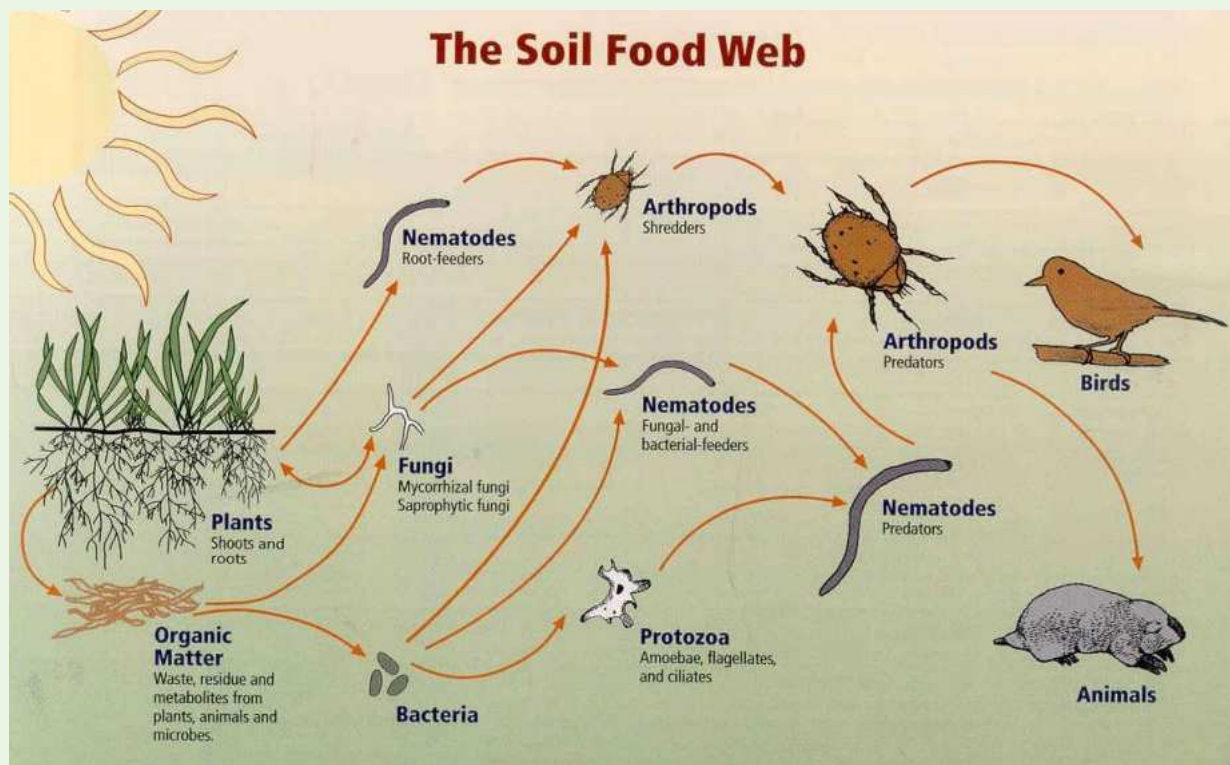


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Manage Microbes – Soil Life



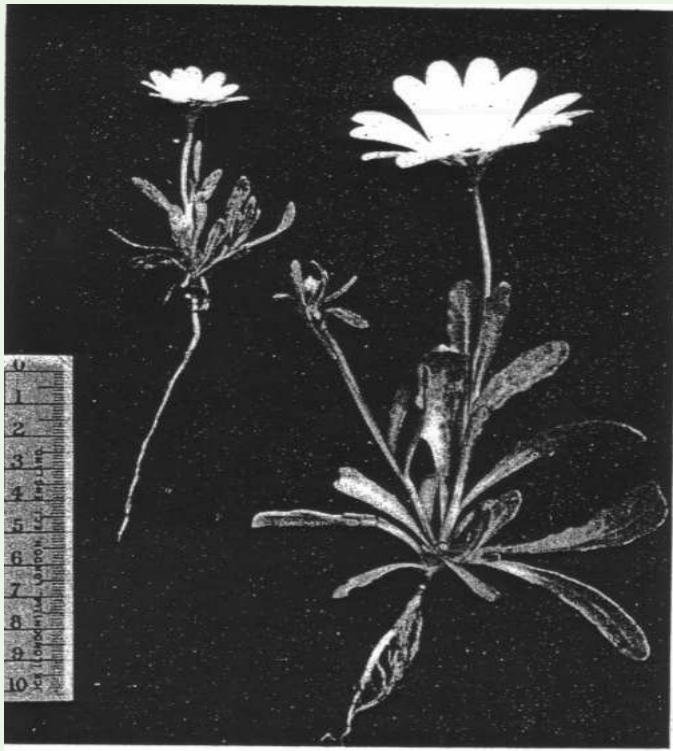
www.soilfoodweb.com

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Soil Minerals – Balances & Key Ratios



Two healthy and normal plants of *Dimorphotheca* sp.(African Daisy), the small one on the left grown in sand, the right hand one in a good garden loam.



Both were planted at the same time.



The plant grown on the left is small, as its supply of nutrients was limited; the loam-grown one is large, as it had a good supply of nutrients. Both are healthy and normal because they had a balanced supply of nutrients. Health and normality can be present without optimal development having taken place.

Source :- Metabolic Aspects Of Health: Nutritional Elements in Health and Disease, Karl H. Schutte, PhD and John A. Myers, MD

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Soil Minerals – Balances & Key Ratios



Table Headline

Ca / Mg Ratio	5.00:1
Mg / K Ratio (ppm)	1.00:1
K / Na Ratio	5.00:1
Ca / K Ratio	15.00:1
P / Zn Ratio	10.00:1
Fe / Mn Ratio	1.10:1

Soil Fertility and Animal Health -1958 – Albrecht, The Living Soil – 1942- EB Balfour, www.soilandhealth.org

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Soi Testing

ALBRECHT CATEGORY	YOUR LEVEL	IDEAL LEVEL	NUTRIENT STATUS		
			LOW	MEDIUM	HIGH
CEC	48.88				
TEC	48.88				
Paramagnetism	4210	200 +			
pH-level (1:5 water)	7.40	5.3			
Organic Matter (Rt Gas Anal.)	22.76 %	4 - 10 %			
Conductivity (1:5 water)	0.305 mS/cm	0.2 - 0.6 mS/cm			
Ca / Mg Ratio	4.65 :1	7.00 :1			
Nitrate-N (Morgan)	23.6 ppm	10 - 20 ppm			
Ammonium-N (Morgan)	10.5 ppm	10 - 20 ppm			
Phosphorus (Mehlich III)	422 ppm	50 - 70 ppm			
Calcium (Mehlich III)	7750 ppm	6843 ppm			
Magnesium (Mehlich III)	1001 ppm	587 ppm			
Potassium (Mehlich III)	571 ppm	381 - 953 ppm			
Sodium (Mehlich III)	33 ppm	50 - 169 ppm			
Sulphur (Morgan)	16 ppm	30 - 50 ppm			
Aluminium (Mehlich III)	15.5 ppm	< 22 ppm			
Silicon (CaCl ₂)	85 ppm	> 100 ppm			
Boron (Hot CaCl ₂)	1.85 ppm	1 - 3 ppm			
Iron (DTPA)	219 ppm	40 - 200 ppm			
Manganese (DTPA)	40 ppm	30 - 100 ppm			
Copper (DTPA)	18.2 ppm	2 - 7 ppm			
Zinc (DTPA)	57.4 ppm	5 - 10 ppm			
Molybdenum (Nitric Acid)	N/A	0.5 - 2 ppm			
Cobalt (Nitric Acid)	N/A	2 - 40 ppm			
Selenium (Nitric Acid)	N/A	0.6 - 2 ppm			
Texture	Clay Loam				
Colour	Black				
BASE SATURATION					
(Levels are not really relevant in soils with a TEC below 5)					
Calcium	79.29 %	70.00 %			
Magnesium	17.07 %	10.00 %			
Potassium	3.00 %	2.00 - 5.00 %			
Sodium	0.30 %	0.50 - 1.50 %			
Aluminium	0.35 %	0.50 %			
Hydrogen	0.00 %	10.00 %			
LAMOTTE/REAMS CATEGORY	YOUR LEVEL	IDEAL LEVEL	NUTRIENT STATUS		
			LOW	MEDIUM	HIGH
Calcium	11770 ppm	1000 - 2000 ppm			
Magnesium	997.7 ppm	140 - 285 ppm			
Phosphorus	110.2 ppm	20 - 80 ppm			
Potassium	400.5 ppm	80 - 100 ppm			
Explanatory Notes: The La Motte Test utilises a mild extraction solution which is a closer approximation to the gentle acids exuded by the plant roots and micro-organisms to solubilise minerals. The La Motte test gives an indication of the amount of plant available nutrients at the time of sampling.					

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Visual Assessment of Deficiencies

* Identify where the symptoms are occurring and look for patterns.

MOBILE NUTRIENTS

- Nitrogen
- Phosphorus
- Potassium
- Magnesium
- Manganese
- Boron (special cases)
- Seen commonly in **lower** leaves first



IMMOBILE NUTRIENTS

- Calcium
- Silicon
- Sulphur
- Zinc
- Copper
- Iron
- Boron (most plants)
- Seen commonly in **upper** leaves first



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Pests & Disease



Insects attack & disease is a symptom of a stressed plant NOT the cause.



Insects & disease were designed by nature to remove unhealthy plants.



Feed your plants to good health.

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Fertiliser Application – Methods

Fertigation (foliar and/or root drench)



Drip Fertigation



Foliar Spray



Dry fertiliser (soil application)



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Slow Release / Liquid Fertiliser

Slow Release Fertilisers

- Used for release over longer periods
- Stick with Organic Based
- Is it Composted properly....use your nose
- Make sure there is a balance of nutrients
- Always feed each season
- More often in sandy soils
- More often in high rainfall areas
- Summer Winter Autumn Spring
- Use in conjunction with Liquid Fertilisers

Liquid Fertilisers

- When “Fast Food” is required – Timing is Everything
- Essential for sand profiles – slowly slowly hydroponics
- Times of stress – Transplanting
- Times of deficiencies – Potted plants
- High demand Plants – Vegies
- Reproductive time to ward off insect attack.
- Following biocide treatments
- Rapid correction of trace element & immobile nutrient problems
- Recovery from insect attack
- As a carrier & food for microbes

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Plant of Health - Fertilisers



Triple Boost - All purpose liquid fertilizer, balanced with micro / secondary nutrients bonded. For natives and non-natives alike.



Triple Boost Pro - High performance liquid fertiliser (10N 10P 10K). For plants in times of high nutrient demand. Micro / secondary nutrients bonded.



Bio-Trace - Biologically enhanced Trace element mixture. For when soils / plants need a boost in micro / secondary nutrients.



Silica & Potash - Support cell strength and fruit / flower growth.

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Plant of Health - Fertilisers



Organic Link - All purpose fertiliser. Slow release suitable for all applications.



Plant Care - Liquid Plant Tonic. For stressed plants suffering from disease or plant attack.



Liquid Seaweed - Premium Australian Liquid Seaweed Fertiliser.



MPB1 - Beneficial probiotic microbes that help plants access nutrient, enrich & detox, soils & compost.

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Plant of Health - Fertilisers



Orchid Boost - A premium macro / micronutrient blend for orchids.



Neem Plant Spray - Concentrated emulsified Neem Oil.



Triple Boost Turf - Slow release lawn fertiliser. For lawn enthusiasts, a high carbon, fast acting, easy to spread turf food.



Natra-Store4 - Dry Water Saver Input. For soils needing help retaining water.

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Plant of Health - Fertilisers



Plant Assist - Dry fertiliser. Ideal for planting or transplanting.



Soil Soaker (Granular) - Liquid Plant Tonic. For stressed plants suffering from disease or plant attack.



Soil Soaker (Liquid) - Liquid concentrate. Wetting agent for soil & pots.

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Where to Purchase Nearby

The Plant Shack

Doonan Valley Garden Centre

Manawee Garden Centre

Theo's Nursery

Woombye Rural

Red Fox Orchids

Bribie Island M10



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More Information



Website –
www.plantofhealth.com.au



Facebook –
facebook.com/PlantofHealth



Instagram –
instagram.com/plantofhealth

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Presentation to The Perennial Poppies Group

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