

An aerial photograph of a farm. In the center, there is a cluster of farm buildings including several large white barns, smaller white houses, and a row of white silos. A dirt road winds through the property. To the bottom center, there is a large, irregularly shaped pond with brownish water. The surrounding landscape is a mix of vibrant green fields and patches of dry, brownish soil. A line of trees runs along the top right edge of the farm. The overall scene depicts a rural, agricultural setting.

Our journey with organic and biodynamic farming and gardening

Ray and Judi Unger



About Us

We operate a 1400ha broadacre, dryland, mixed farming enterprise which has been managed organically and biodynamically in the regenerative agriculture space since 1994

Overview

Our journey

Our properties –‘Waratah’and ‘Marylyn’

Gardening and self-sufficiency

Organic farming

Biodynamic farming

Biodiversity

Soils

Weed Control

Documentation

Certification Process –OMP

Pasture improvement and cropping program

BD500 and preps as a seed dressing/inoculant

Drought

Drought proofing our farm

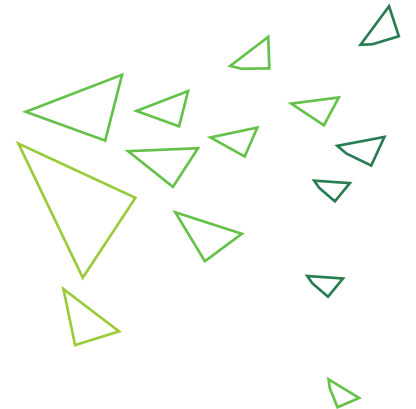
Poll Hereford Cattle

Merino Sheep Wool and Fat Lambs

Grain and Hay

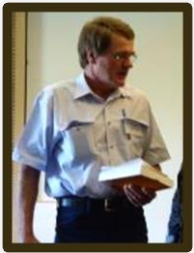
Infrastructure

Lifestyle



Our Journey

Ray



Manages the farming operation

BAA Chairman 2010-2014

Diploma of Organic Agriculture

Woolclasser

6th generation farmer

Judi



Business partner

Diploma of Organic Agriculture

Current Director on the Board of the BAA

Trainer and Assessor for RuralBiz (Organic Agric)

Off-farm Income/asset

Gardener

Intensive Permaculture Design - Milkwood

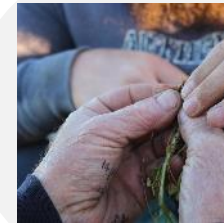
Host Workshops



Host workshops, field days for BAA

Biodynamic practices influenced by key stakeholders

Freedom



Responsible for own decision making

Certification with ACO

100% Farm Equity

No overdrafts

Debt free

No agronomist

Succession Phase

Health and Well Being



Grow our own fruit, vegetables, lamb, beef, eggs and grain

No chemicals, herbicides, pesticides and synthetic fertilisers used in the production of plants and stock on our farm



Properties

Waratah



1600 acres

Red ironstone ridge gently sloping to the west

Contour banks and fenced waterways to slow down heavy rainfall run-off

12 km fenced treelines

Shelter belts

Marylyn



Flat country,

Heavy grey clay loam vertisol gutsy soils

Poor drainage and old swamp bed (1,000 acres) floods and stays wet for several months

Great cattle country with native grasses and pastures

2,000 acres

Vegetable Garden



Hand weeded

Heavily mulched, manured and composted

15 x 3 metre raised beds

Plant rotations

Mesh compost bins



‘Waratah’



George the Emu adopted us
15 years ago



Treelines



Mortlocks oats – 41pd sold into the
organic rolled oat market



Cattle yards, silos and hay
shed



Marylyn



Janz wheat – 16 bags/hectare at 12.7% protein



Soils beneath the Janz crop – clay loam sodic soils, crack open



Pastures – multispecies cut for hay Oct 2020



Lupins – cut for hay and grain



Gardening and self-sufficiency



Organic Farming



No Chemicals

No herbicides, insecticides, pesticides

Stock grazing to control weeds, biodiversity



Natural fertilizers

Cows and sheep manure and urine

Neutrog, terrafirma, guano, rock phosphate



Alternate strategies

Rotational grazing, mulching, BD applications, composting

2016 National standards for organic and biodynamic produce



Biodynamic Farming

Making and applying BD500 and preparations

Collecting fresh cow manure

Burying the horns

Aerating the BD500 and preps in a 7 tier
flowform

Stirring the BD 500 in a stirring machine

Spreading the BD500 onto the soil



Biodiversity



Soils



Increase organic matter

Slashing, mulching, green manuring, grow multispecies, rotational grazing, native grasses and trees, cut hay/crops and leave stubble



Increase Microbial Activity

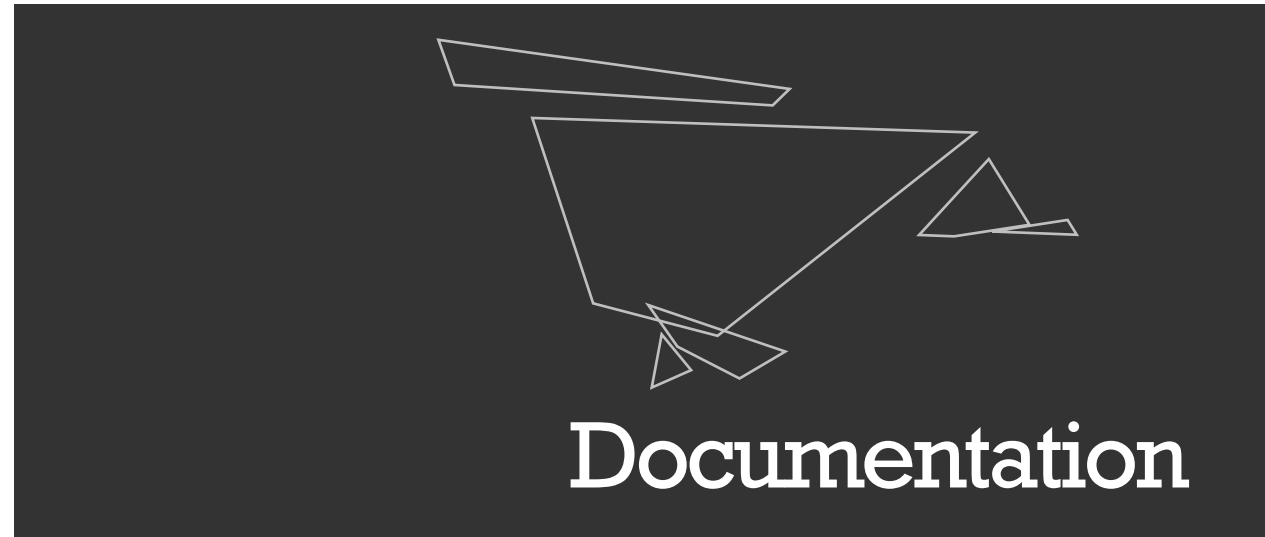
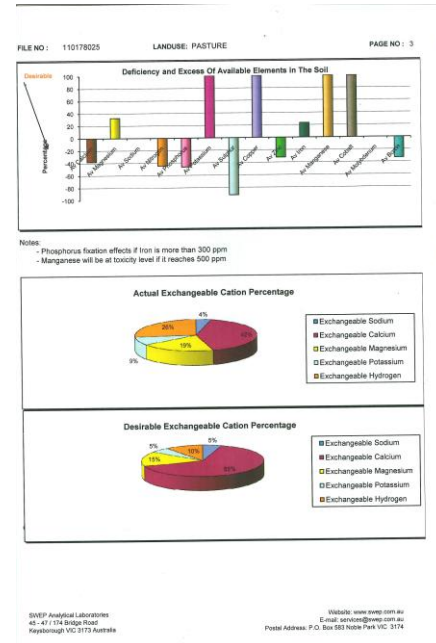
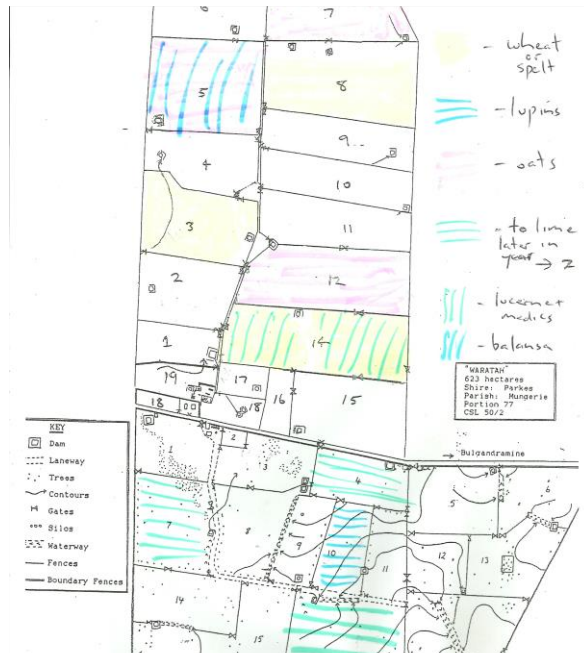
Keep groundcover, apply BD500 and preparations, seed dressings, run stock to add animal manures,

Increase water infiltration

Encourage groundcover, pastures, deep rip at 30 foot spacings

Weed Control





ACO documentation and yearly audit

ACO Certificate

BOM rainfall records back to 1960

Machinery service records

Cropping map and notes and applications and crop rotations

Financial planning and budgets

Transport declarations

Stock records – Lamb drops, calving and animal husbandry

Organic management plan updated each year

SWEP ANALYTICAL LABORATORIES
 45/47 174 Bridge Road
 Keyborough VIC 3173 Australia

REPORT ON SAMPLE OF SOIL

FILE NO: 110178025 DATE ISSUED: 14/01/2011

R.S. J. UNDER "WARATAH" PEAK HILL, NSW 2865

CLIENT ID: UNQ202 PHONE: 02 6865 7635 FAX:

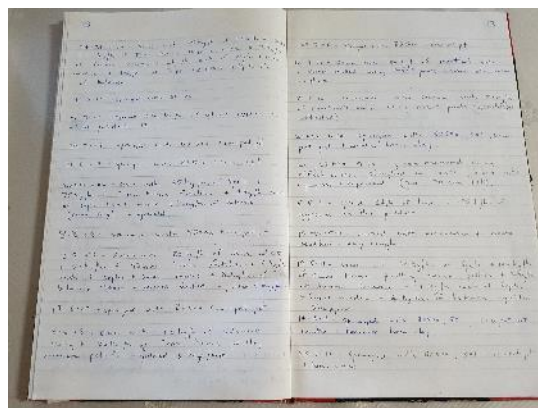
E-mail: SAMPLE ID: PADDOCK 13 WARATAH (400A) DEPTH OF SAMPLE (cm): 0 to 10

REFERENCE: REFERENCE PHONE: DATE RECEIVED: 11/01/2011 ANALYSIS REQUIRED: Full TP

ITEMS	RESULTS	DESIRABLE LEVEL		
		PASTURE	WHEAT	LUCERNE
(Dry/Low Target Yield: 2.5 t/ha)				
pH (1:5 W/W)	6.4	5.5-7.5	6.0-8.0	6.5-8.0
pH (1:5.0 M CaCl ₂)	5.9			
Electrical Conductivity	81	< 300	< 625	< 800
TOTAL SOLUBLE SALT	TSS ppm	287.3	< 2063	< 1680
AVAILABLE CALCIUM	Ca ppm	1114	1792	1792
AVAILABLE MAGNESIUM	Mg ppm	214.4	237	237
AVAILABLE SODIUM	Na ppm	121.9	< 152	< 152
AVAILABLE NITROGEN	N ppm	13.9	25	30
AVAILABLE PHOSPHORUS	P ppm	13.4	25	30
AVAILABLE POTASSIUM	K ppm	482.4	220	168
AVAILABLE SULPHUR	S ppm	6.4	5-7	5-7
AVAILABLE COPPER	Cu ppm	4.2	2	3
AVAILABLE ZINC	Zn ppm	3.4	5-7	4-6
AVAILABLE IRON	Fe ppm	37	> 30	> 30
AVAILABLE MANGANESE	Mn ppm	83	> 20	> 20
AVAILABLE COBALT	Co ppm	7.9	0.7-0.9	0.2-0.3
AVAILABLE MOLYBDENUM	Mo ppm	0.4	0.3-0.4	0.3-0.4
AVAILABLE BORON	B ppm	0.4	0.6-0.7	0.6-1.0
TOTAL ORGANIC MATTER	OM %	3	4-6	4-6
TOTAL ORGANIC CARBON	OC %	1.8	2-3	2-3
TOTAL PHOSPHORUS	TP ppm	282		
EXTRACTABLE ALUMINUM	Al ppm	not required		
TOTAL NITROGEN	TN %	not required		
TOTAL CALCIUM	TCa ppm	not required		
TOTAL MAGNESIUM	Tmg ppm	not required		
TOTAL CHLORIDE	Cl ppm	not required		
AVAILABLE SILICA	Si ppm	not required		

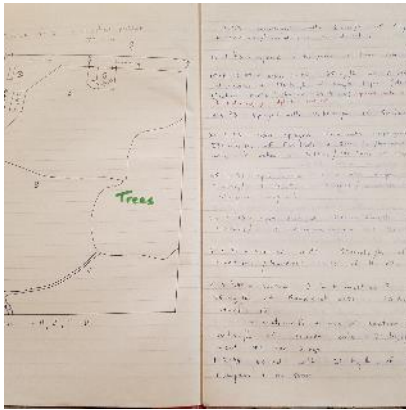
SWEP Analytical Laboratories
 45/47 174 Bridge Road
 Keyborough VIC 3173 Australia

Website: www.sweep.com.au
 Email: service@sweep.com.au
 Postal Address: P.O. Box 583 Noble Park VIC 3174



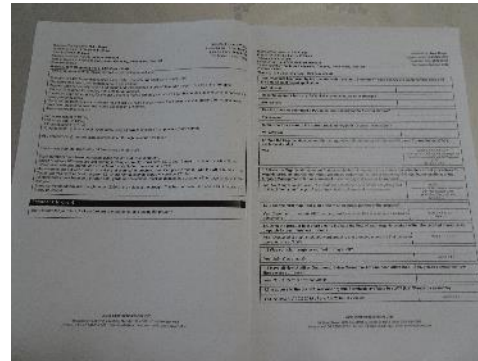
Certification Process

ACO Certified Organic and Biodynamic Products



Keeping Records

Stock numbers
Cropping programs
Allowable inputs



Yearly Audit

Organic Management Plan
updated yearly



Certificate

Valid for one year

Pasture Improvement and Cropping program

No Chemicals

No herbicides, insecticides, pesticides

Stock grazing to control weeds, biodiversity

Natural fertilizers

Cows and sheep manure and urine

Neutrog, terrafirma, guano, rock phosphate

Alternate strategies

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2016 National standards for organic and biodynamic produce



Benefits of BD500 and preparations as a seed dressing/inoculant



Drought





Drought proofing our farm

Grain and Fodder to feed stock

- Aim to store 1,000 tonne of grain
- Store 1200 bales of hay
- 12km of tree lines to cut for fodder
- Maintain established pastures and native grasses

Water Storage

- 33 groundwater dams
- Silt dry dams during the drought
- 25,000 litres of holding capacity in rainwater tanks

Financial Reserves

- Farm Bonds
- Avoid debt coming into a dry spell
- Off-farm assets
- Off-farm income
- Savings and investments



Water, fodder and grain Storage



Stock



Cattle

150 Poll Hereford breeders

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Sheep & Wool

700 self-replacing ewes

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Grain and Hay

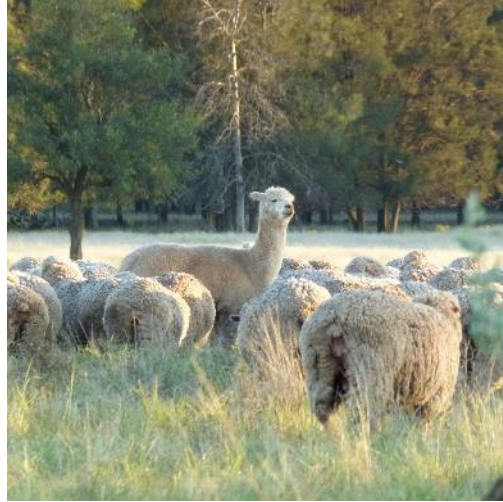
Oats, wheat, spelt, lupins,
pastures, clover

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adipiscing elit

Cattle



Merino Sheep Wool and Fat Lambs



Grain and Hay



Infrastructure

Gas sealed Silos

20 x CO₂ carbon dioxide sealed silos
Coated white to reduce heat on grain

Machinery

2 John Deere Tractors

Stock and Grain Izuzu truck

Case Header

Scarifier, Yeoman's ripper, Ryan air seeder, loxton slasher, disc plough, stirring machine and 7 tier flowforms

Sheds

4 machinery sheds 3

3 hay sheds

52 kw solar panel system





Lifestyle

Family

Hobbies

Travel

Friends

Community



Thank You



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