

Theme 6 Valuing a Diverse World Roundtable 10 A Jeanie Clark *Enviroed4all®*, *Warracknabeal*, *Australia* 





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Family farms –Feeding the World; Caring for the Earth Environmental education for everyone- about family farms





# Feeding the World, Caring for the Earth

Diversity in 'Family farm Snapshots' -website project <a href="http://familyfarms.enviroed4all.com.au/family-farm-snapshots/">http://familyfarms.enviroed4all.com.au/family-farm-snapshots/</a>

## Through global stories of family farmsfood production and sustainability issues.





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## 'Family farm snapshots' is a resource on the web, collecting personal experiences in diverse places around the world

### Use as a:

participatory tool to share your place-based family farming
visualisation tool to discover places family farming
stimulus to action in your place to become a family farmer





## feeding the world, caring for the earth

Objectives:

1 Diversity of family farming (What is it?) 2 Family Farm Snapshots - a web resource of diversity

3 The diversity of the diversity of people, food production, produce and places

4 The diversity of sustainability issues tackled 5 Action based on family farming snapshots – from our present to the future.





## feeding the world, caring for the earth

## 1 Diversity in 'family farming'

## – What is family farming? (UN definition)



## What defines a family farmer? **Type of place doesn't matter** *rural*



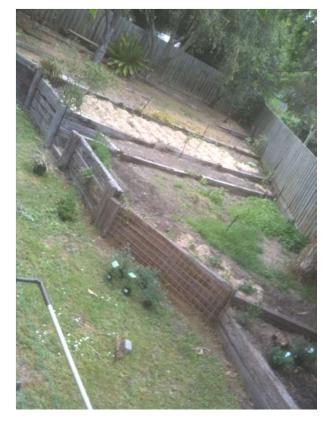
### urban/suburban

### Family farms can be anywhere.



## What defines a family farmer? Type of place doesn't matter

land





### water

## Family farms can be anywhere.



## What defines a family farmer? **Size of place doesn't matter** *Planter pots in a tiny backyard or a bigger one*





## broad-acre farms Family farms are of any size.



## What defines a family farmer? Time working place doesn't matter

Part –time /recreational



## Family farmers spend varying times in this work.



## What defines a family farmer? Diversity at the place doesn't matter

### **One food/group focus**



### Multiple food/group foci



### Family farms can have varying food produce.



## What defines a family farmer? Amount produced at place doesn't matter Just a little daily





### A huge harvest annually With lots to send overseas



Family farms can be produce varying amounts.



## What defines a family farmer? Place 'philosophy' doesn't matter

Way of life





tastes good ethnic foods



### organics/permaculture commercial harmony/Nature Family farmers grow foods for various reasons.





## **'Place' does matter,**

# it's where work is done to produce food/fibre, some of which the family uses,

### and excess may be shared or sold

Commercial or backyard/kitchen/food gardens/forest/'seas'



## Family farmers use their place to produce food/fibre By feeding themselves, they help feed the world.





## feeding the world, caring for the earth



Increase knowledge, communication and public awareness



'agriculture familiale

nourrir le monde, préserver la planète



Attain better understanding of family farming needs, potential and constraints and ensure technical support



# Family farmers globally are based in places locally

### Feeding the world, caring for the earth

Family farming is inextricably linked to national and global food security. Both in developing and developed countries, family farming is the predominant form of agriculture in the food production sector.







feeding the world, caring for the earth

## 2 Family Farm Snapshots - a web resource of diversity



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## The family farm snapshots website

A collection of personal experiences based in **diverse places** to describe '**feeding the world, caring for the earth**"

- Family- who is farming and being fed at a place
- Farm place location, farming type, its environment
- Produce- from this place
- Sustainability issues, managements and/or successes specific to this place

http://familyfarms.enviroed4all.com.au/family-farm-snapshots/



## **Family Farm Snapshots Structure**



enviroed4all® - Family Farm Snapshotsan educational resource at http://familyfarms.enviroed4all.com.au/ for the 2014 International Year of Family Farming "Feeding the world; Caring for the Earth"

#### Mint tubs – a tiny family farm, Horsham

#### **My Family**

Do two tubs of luscious herbs make a family farm?

Well, since a 'family farm' grows food for a family

- + my tubs are food I use in my 'cooking',
- = that makes mine the tiniest of family farms!

I live on my own and work during the day. I have little time to work at growing food as well. The supermarkets nearby provide most of my food needs.

Mint needs little work, so it is a good choice for me.

#### My Farm

My two mint tubs are in a small urban backyard in Horsham, in the Wimmera (photo right).

The tubs are on the patio, in a protected place from too much wind or sun and heat. They get the occasional water from the hose over summer.

The soil comes from compost packages from the hardware shop, (see the packages on the patio).

What do mint leaves look like? On the photos to the right, you can see serrated edges, pointy tips, and heavy vein markings. ... and a luscious green.







enviroed4all a

2014 IYFF family farm snapshots - mint tubs, a tiny family farm, Horsham. page 1 at http://familyfarms.enviroed4all.com.au/snapshots/wp-content/uploads/2014/02/mint-tubs-Horsham.pdf

#### My produce - 'Feeding the world' means 'Feeding me!'

I grow two types of mint:

Regular mint (top photo) which is great on roasts

Lemon Scented Mint (bottom photo) which smells great as you walk past and adds a zing to salads.

#### Sustainability - 'Caring for the Earth'

#### Low food miles

Even growing such a little bit of food, is doing a little bit to care for the Earth by reducing food miles for my use of this herb.

#### Reducing weed risk

But mint has a tendency to run wild and grow so well it becomes a weed! Keeping it in tubs avoids it getting out and becoming a nuisance, a garden escapee.

#### Feeling good

Green is a relaxing colour for the eyes. It makes me

feel good to have such a lovely big tub of bright green herbs out my back door and ready for my use, fresh.

Photos by TR. TR has given permission for her photos and information to be used to J. Clark. Text and map by J. Clark, from interviews with TR. (cc) 2014

#### For more information about family farming and the 2014 IYFF go to:

http://familyfarms.enviroed4all.com.au/snapshots/ for more in this series of snapshots

http://www.fao.org/family-farming-2014/ http://www.familyfarmingcampaign.net for the official IYFF sites https://www.facebook.com/InternationalYearOfFamilyFarmingIYFF for the facebook updates.

enviroed4all . 2014 IYFF family farm snapshots - mint tubs, a tiny family farm, Horsham. page 2 at http://familyfarms.enviroed4ail.com.au/snapshots/wp-content/uploads/2014/02/mint-tubs-Horsham.pdf











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## Family Farm Snapshots uses only photos, and word processing

to cover : family, farmland, produce, sustainability

- encourages 'slow' attention to each snapshot
- ✤ allows these places to be compared to reveal diversity
- are published as pdfs to be as useable as possible globally and especially where fast internet is not available
- A aim to be an environmental educational resource that can especially support literacy, written English and visual, geography, environmental science (listed by WRF)
- Aspire to have snapshots in the language of the authors and an English translations where English is a second language
- \* raise the profile and appreciation of family farming



## 1 Creating a snapshot involves the writer in noticing and connecting to their place and recording it for the future.

Join us!

Seeking contributions for Family Farmer Snapshots from everywhere



Are you a family farmer, rural or urban, any size, fulltime or recreational? Who knows what you do to *produce food for the World* and *care for the Earth, including its soils in this IYS15*? This page seeks your contribution for your snapshot about this to grow this educational resource collection from all over the world for use in the world, community and schools.



'Family farms snapshots' are based on the IYFF logo and its slogan (Feeding the world; Caring for the Earth'):
Our Family
Our Farm (includes soils)
Our Produce - How we 'Feed the world' (includes us!)
Sustainability - How we 'Care for the Earth' (including caring for soils)
After all, if you don't tell your story, who will?

These 'family farms' '<u>Snapshots</u>' can show the diversity and similarities of family farming experiences around the world and across and within countries. They can become a **resource** for schools, and the wider community to know us better.

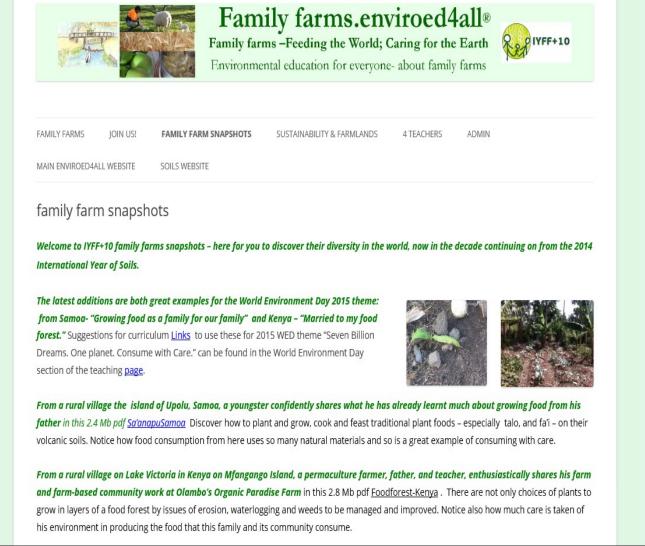
So what do you need to do? **Suggestions** for the information I need you to email me are are on pdf (<u>FFsnapshot submission guidelines8</u> (161kb) or if you would prefer a word doc <u>FFsnapshot submission guidelines8</u> (757 kb). It will give useful information, while respecting your privacy, and an opportunity to link to any website featuring your farm.

What will your snapshot look like? *Visit the family <u>farm snapshot</u> webpage to see those up already* and .... I look forward to yours coming and helping to show the global family farming community! Later I hope to simplify some pdf's, so that they will be more useable in primary schools and for learners of English, while learning about farming from many countries ,but they can already be used for this with proficient English readers, and French with one original in francais.

http://familyfarms.enviroed4all.com.au/join-us/



2 Reading a snapshot involves the reader in noticing and connecting to another's place in the present.





3 The snapshots share examples of family farming from around the world. They can help appreciation of diversity and inspire the participation that the UN says will be needed in the future by everyone everywhere with great diversity for food security .

e	family farm snapshots   familyfarms.enviroed4all.com.au - Internet Explorer _ X
	Mixed family farm in <b>Yukon, Canada</b> , producing <b>certified organic meats, eggs, vegetables and preserves, soaps and textiles</b> . Sold by farm-gate, on-line and at farmers' markets. Involved in experimentation and many community organisations to promote local agriculture and care of the environment. Aims to be sustainable, functional and reasonable. Download a 2.23 Mb pdf Food&feedAurora-Yukon
	Mixed family farm in <i>Nova Scotia, Canada</i> has fed a large family and shared excess through farmers' markets and supporting the Larch community group through its <b>red apple</b> harvest. Read the 1 mb pdf <u>redapples+Canada</u>
	Kenya
	A committed and creative family farmer on an island on Lake Victoria, produces a mixture of indigenous and introduced plants and stock, while tackling food security, erosion, leaching, poor drainage, the dry season and loss of traditional and changing farming ways, through planning under traditional and permaculture principals, application, teaching and a variety of innovative community programs. Be inspired and challenged by the amazing projects and production of the food- forest at Olambo's Organic Paradise Farm in this 2.8 Mb pdf <u>Foodforest-Kenya</u>
	Samoa – Upolu
	Family food gardens feed extended families on the island of Upolu in Samoa. Take this tour of one on volcanic soils at Sa'anapu Uta led by a boy gardener who shares the foods, how they are grown and cooked for a feast. The focus is on talo and fa'i and pigs in the 2.4 mb pdf <u>Sa'anapuSamoa</u>
	Samoa's soils and climate are great for the organic growing of foods. This snapshot is from the island of Upolu, where the family
( <del>C</del> ) (E) far	milyfarms.enviroed4all.com.au/family-farm-snapshots

enviroed4all @

## 4 Linked e-farm picture books that can connect readers to issues of sustainability faced by Wimmera –Mallee farming and in farmlands

What issues are there for sustainability in farming and farmlands?

Many! And they are often complex! But these "Sustainability and Farmlands Environments" picture books by Wimmera-Mallee children for children just look at one issue at a time. In doing so, they put Science into everyday farming life.



These 2012 books can be accessed directly from St Joseph's PS webpage or link to them below.

These Science based picture books were written and illustrated by rural F-6 primary school children in our 'sheep-wheat' lands for the Science Talent Search competitions. Each is available freely on the web as discussion starters.

This is an introduction to the second set of books from Beulah PS.



The 2013 books are on FUSE as Learning Resource ID's S8F7GH, MN2XC9, N2TZF4 and 5M7LZ2. They can be accessed directly from Beulah PS <u>webpage</u> or link directly to them below.

**Comprehension - discussion sheets** have been made for each story. Use them orally, rather than for written exercises. The stories cover several themes listed below with links to question sheets. Each questions sheet relates to a story which can be found at the school's website, linked here:



http://familyfarms.enviroed4all.com.au/sustainability-farmlands/stories-by-the-children/



...

## 5 4teachers suggests uses of to be able to link local places into global events and to better appreciate present diversity and future thinking in these events

#### **Biodiversity in Farmlands Education**

To celebrate the **International Day of Biodiversity 2014**, **May 22** with a family farm persepective, use these links from the Snapshots : "<u>Texels-Warracknabeal</u>" has an introduction to plant and creature groups in any environment. "With trees come the birds, <u>Langi Banool</u>" has an amazing list of birds and food plants, on a grazing and timber farm and the <u>biodiversity and our farm</u> pages on the enviroed4all website.

For **why**, **where and how** biodiversity can be done with farmlands , consider these three articles exploring , <u>1 What should Biodiversity ed do</u> how it works most simply as <u>2 biodiversity ed out your window</u> and finally what farmlands can teach us about biodiversity.<u>3 Farmlands for biod ed</u>

#### **World Environment Day**

**2014** "Raise your voice, not the sea level" – For a survey of foodplants grown in Wimmera 'backyard' gardens, instructions for community and/or schools go here

Growing food at home is a great local action, with no food miles, so it does not contribute to sea level rises. Inspired by the two Horsham Ladies Probus <u>snapshots</u> about their food plants in small suburban backyard gardens, *we raised our voices* from the Wimmera with a survey for a WED activity between 4 and 6 June, reported <u>here</u>

**2015 "Seven billion dreams. One planet. Consume with care**" – TThe two latest Snapshots could be used for this theme, focussing on food as to what is being consumed.

**Growing food as a family for our family**", <u>Sa'anapu Uta, Samoa</u> is from the point of view of a boy who shows their traditional foods of his family's farm, how he helps them grow, and how they are cooked in an umu , in ground oven.

Married to my food forest farm, <u>Mfangango Island</u>, Lake Victoria, Kenya is from the point of view of a father, who runs a family farm based on permaculture principals, teaches other farmers and has set up a variety of community project to provide teaching and good food.

Suggestion for how to link these to English, Communication, Geography, Science and Sustainability are snapshots for WED2015

...

#### http://familyfarms.enviroed4all.com.au/4-teachers/



6 Soil selfies is a linked project/website focussing on the diversity of soils.

Contributors connect to personal soil by taking its photos up close, in use and with challenges and managements.

Readers discover soils of other places and their uses and issues.

Begun in March 2015, global connections to places will increase as the site grows over the International Decade of Soils, following the International Year of Soils 2015.



link to soil website http://soils.enviroed4all.com.au/soil-selfies/



7 Pulses is a linked project/website focussing on the diversity of pulses, in the International Year of Pulses 2016, and their importance for future food security.

#### Pulses



2016 is the <u>International Year of Pulses</u> – with the theme '*Nutritional seeds* for a sustainable future'. Let's participate! See suggestions in enviroed4all (R)'s articles and incursions:

How can the IYP fit into environmental/sustainability/ science education ? 1 "Putting the IYP into Environmental Education and Education for Sustainability' (ozEEnews March 2016 p3) is my overview for what pulses are, the IYP's aims and key messages and their global teaching resource. There are further articles by other authors on the IYP in this edition of the Aust Assoc. of Environmental Education's 'ozEEnews' by other authors. Learning about pulses can fit very well into Science, Environment and Sustainability Education.

2 "**Otherways**" in 2016 will have four articles with ways to put the IYP into education : **'From Soils to Pulses**' (from Soils to Pulses Otherways Feb 2016 issue 147) covers Thinking Skills that could be developed in exploring what pulses are and the IYP logo.

Growing Pulses for Science (Growing pulses for Science Otherways May 2016 issue 148) investigates the insides and sprouting of pulses as an example of plant growth. Nutritious Pulses (Nutritious Pulses Otherways Aug 2016 issue 149 pp 32-33) covers food groups, nutrition and how pulses fit into this in a healthy diet.

3 'Pulsing into Pulses" –primary school's Pulses education incursion program This incursion program focusses on the pulses grown in the Wimmera-Mallee shown in the photo right. Photos

link to pulses webpages http://enviroed4all.com.au/sustainability-in-farming/pulses/





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## 3 The diversity of people, food production, produce and places in the Family Farming Snapshots Collection





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http://familyfarms.enviroed4all.com.au/family-farm-snapshots/

### Family Farm Snapshots diversity of ways to farm

Family backyards

Commercial broad-acres grains: Conservation/no-till Reclamation of eroded land

Commercial stock: Sheep Dairying

Organic Permaculture/xericulture

Climatic bio-regions: Tropical Semi-arid Temperate







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http://familyfarms.enviroed4all.com.au/family-farm-snapshots /

### Family Farm snapshot diversity of food and fibre produce

Timber

Fruit/nut trees

Vegetables

Grains

Herbs

Poultry

Stock

**Crustaceans/Fish** 

Honey







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Family farms -Feeding the World; Caring for the Earth

http://familyfarms.enviroed4all.com.au/family-farm-snapshots/

### The family farm snapshots collection's diversity of places

### **Urban family farming**

**Wimmera** – Dimboola, Horsham, Jeparit, Warracknabeal, **Melbourne suburbs** – Box Hill, Croydon, Glen Waverly

### **Rural family farming**

Wimmera	districts around Dimboola, Jeparit, Warracknabeal,
<b>Other Victoria</b>	Central Highlands, Southwest, Northeast,
Australia:	Darling Downs, Southeast coast (Qld),
	Gawler ranges (SA),
	Southwest (WA)
Global –	Yukon, Nova Scotia, (Canada)
	Savoie (France) (in English and français),
	Lake Victoria (Kenya),
	Upolu (2) (Samoa)





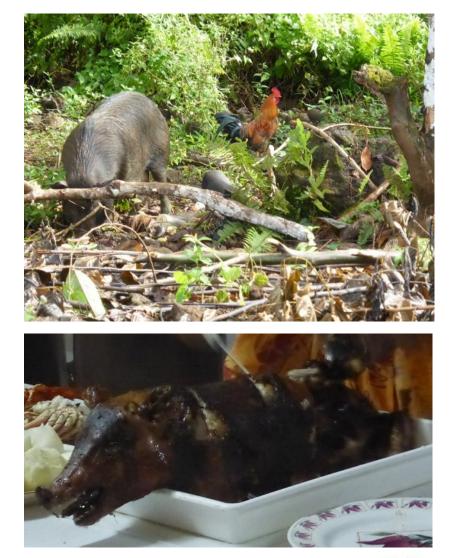
## feeding the world, caring for the earth

## 4 The diversity of sustainability issues in the family farming snapshots



## Caring for the Earth? Low food miles, greenhouse savings







## Caring for the Earth? local 'foods' = species diversity





## Caring for the Earth? Healthy fresh 'foods' taste good





## Caring for the Earth? Maintain skills/knowledge to support producing these 'foods' at home







## Caring for the Earth? Maintain skills/knowledge to support using these 'foods'





## Caring for the Earth? Knowledge of all parts of environment







### Caring for the Earth? Soils protected and improved





### Caring for the Earth? Restoring/Protecting soils from erosion





### Caring for the Earth? Plantings that go/grow together









### Caring for the Earth? Share/keep habitat for wildlife









## 5 Actions based on Family Farm Snapshots from our present to the future?





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#### 1 Recognising/valuing family farming Maybe promoting this by contributing an example to the web Family Farm Snapshot collection

Guidelines for Family Farm Snapshots For website http://familyfarms.envireed4ail.com.au/	4 Do you five off your farm, or have to have additional sources of income? If so, from what?	<ul> <li>How we are "Caring for the Earth" a         <ul> <li>1 At least one image ("jog" photo or drawing) please to show some aspect of caring for the Earth - might be Nature</li> </ul> </li> </ul>
2014-2015 Family Farming snapshots sharing family farming experiences of Feeding the world; Caring for the Earth	<ul> <li>5 Name the nearest main town for buying willing food. About how far is it? (not directions)</li> </ul>	2 What else livesigness on your farmland, i.e. plants and creatures of Nature?     3 Can you give an example of something done on your farm to look after or improve:     sol,
Are you a family farmor? Yes, 8: • Your family grows or gathers some food. You may eat some and sell some –animal, plant, fish.	<ul> <li>6.4.8.2015 in the IY Solis, what is the soil type is on your term, and what do you see as its good and bad teatures? (photo if possible) Anything else about your soil, you'd like to add?</li> </ul>	- water. - ak,
<ul> <li>You produce five or timber for some of your family's needs. You may sell some too.</li> <li>location desent matter eg nrait coastal, urban, al counties, family famers anywhere</li> <li>size does not matter - og from a backyard fruit tree, to full-time production</li> </ul>	<ul> <li>6 What is the environment's other key features here? (eg landform, climate, vegetation)</li> </ul>	Nature (plants and creatures of all sizes)     Anything else that matters to you? (sg all contribute low food miles, low carbon
For a fuller description, see <u>http://www.fac.org/tamily/farming.2014/hometen/</u> The aim of this collection is to become an educational resource on the diversity of family farming in the world, from first hand experiences, showing what the theme feeding the world	<ul> <li>7 If you have a website for your farm, you may add a web address or logo if you would like it on your snapshot.</li> </ul>	footprints, storing C and making 02, acting locally - hinking globally, etc.) <ul> <li>4 Any big challenges for 'caring for the Earth' for your farm that you would like to share?</li> </ul>
caring for the earth means in reality. It aims to collect from across the work and share with the world. It is to be accessible by anyone on the web, regardless of the quality of their connection, which means offs of up to 3 MB and use of choics and text at the standard.	How we are "Feeding the world" =     O 1 What does your farm produce – consider animals, plants, fish?	<ul> <li>As this will be an on-line resource, I need a permission statement from you that         <ul> <li>Names the author of any drawings or photos you have used, - done by you and/or others.</li> </ul> </li> </ul>
It aims to respect privacy of the fairment, so that names and personal photos and exact locations are not needed, but may be used if desined. Information needed in contributions:	With some images (could be photos or drawings scanned) - may include meals from them Animals	<ul> <li>and you give me, Jeanie Clark, permission to use your intermation and photosidrawings</li> <li>You share your information under a Creative Commons (oc) intellectual property licence</li> </ul>
anormation neoede in considerations: It is written in the first person - is from your experience. What words or phrase do you use to greet people to your farm/land?	Plants	Procedure : 1 You send this information in to <u>envisoed/sal@gmail.com</u> as the text in an email or a doc file. The jogs are user if here also – I will compress them to under 1 Mb so you don't need to send large MB version
It has four sections, each with questions below. Not all may be relevant to you, so leave those blank: • Our Family - • 1 How many people in your family live on your farm? Do other people work here too?	Trees	21 take your information above and dnaft and edit it into the snapshot format. 31 send the dnaft back and may ask you for more information or pictures about things so that this builds up the educational appendent of the snapshot.
	<ul> <li>2 What does your family eat of your farm produce ? (include gardens)</li> </ul>	up intre exocution a support.c to the single-not. 4 You return that to me to finish setting up snapshot, 5 When we are both happy with the snapshot, t will ask you to confirm that it is ok to publish and will
<ul> <li>2 What roles do these people have in the family and farm work? (No names to respect privacy)</li> </ul>	$_{\odot}~$ 3 Does your farm produce anything for sale? If so, What ? and answer, if you can,	then publish it in the snapshots section of the <u>http://amin/amis.amis.com.au/</u> website. I will also enail my networks to tell them about your snapshot joining the oddertion and what is special about it in adding diversity to the collection. I hope you pass it on in your networks tool
<ul> <li>Our Farm =         <ul> <li>1 A general ipg' view of your farm (could be a photo or a drawing) and others may be suggested by me after meding this</li> </ul> </li> </ul>	<ul> <li>4 Where does it go to? location of sale and further on-selling. It you know</li> </ul>	Hoping to hear from you about your family farming experience, Jeano Case, environmental educator, environdetal, Warracknabeal, Australa B.A., B. Apo C.O. Dr. Ed., E. E.
<ul> <li>2 What sort of a farm do you have? eg sheep, permaculture, backyard vegie garden, etc</li> </ul>	S What does it become as a food or fibre product, after sale?	Emait: enviceddal/Bumal.com Websie: <u>http://umit/arms.enviroeddal.com.av</u>
<ul> <li>3 About how big is your farm? Big, average or small for your region?</li> </ul>		

#### http://familyfarms.enviroed4all.com.au/family-farm-snapshots/join-us





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#### 2 Personal responsibility by all for future food start family farming – no matter the size

e.g. growing some food for self/family

- ✤ in a pot
- replacing a lawn area
- ✤ in a community garden ....



Maybe sharing your action with others, by contributing your story to Family Farm Snapshots

http://familyfarms.enviroed4all.com.au/family-farm-snapshots/join-us









#### Family Farming :

- FF action in the present is future thinking for food security (if it is new to you)
- Growing food integrates air, water, soil, living things with social place, time, food, sharing.
- Rethink what food you can grow where, especially urban people
- It can be a positive change for urban people of the Anthropocene
- Our present understanding and taking responsibility for producing some food/fibre for our own need, sets a (new?) habit for the future

### Family Farmers, develop some of their bit of the planet for food, together Feeding the World, Caring for the Earth



# Family farmers feed their world, and care for their Earth, as part of a whole environment they know and depend upon.



Collectively, family farmers have a huge global effect.



### Are you a family farmer? You grow what? feed who? and care for the earth how?

JOIN US and share your snapshot to <u>http://familyfarms.enviroed4all.com.au/</u>

With thanks to 32 family farmers of -Australia, Canada, Kenya Samoa and France, -for sharing their photos and experiences on which this report of their diversity is based.





### Interested in hearing about new Family Farm Snapshotsas they are published on the web? send me an email enviroed4all@gmail.com (and make this email an allowed sender) Also connect with enviroed4all on twitter and linked in and Facebook webpage



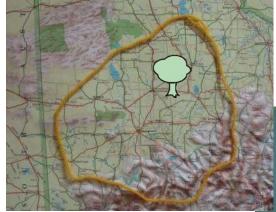


## Appendix-My place influences (my biases)





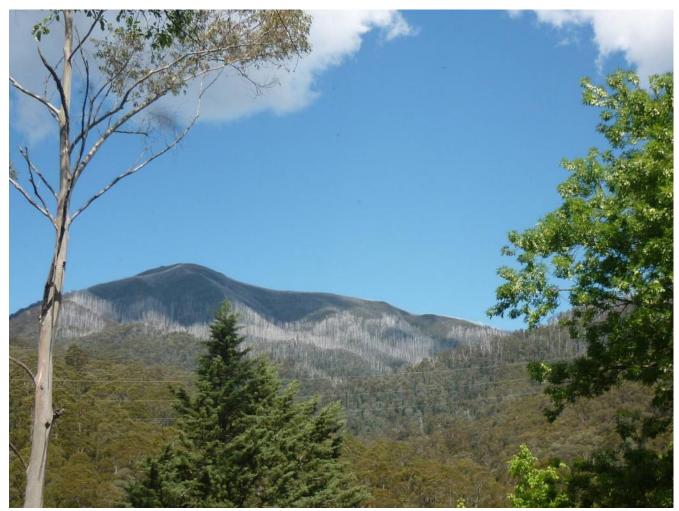
### My Place is at different scales





Werrigar East, Wimmera, Victoria, Australia, Earth

## Place influences over time: childhood



Spion Kopje from Bogong Village, North East Victoria

### Place Influences over time : adult



Clarks Park Texel Stud, Werrigar East



**Professional base:** Geography teaching (15 years), catchment education (15 years), freelance, putting 'farm' bias into global projects locally and potentially globally via web. (6 years)



"ASK HIM FOR SOME CHOCOLATE MILK!"





### My projects:

global projects with challenging, inspiring aims potential for educational resources of different places accessible to/from the world from my on-farm place



YFF+10

*living in harmony with Nature* – 2011-2020

feeding the world, caring for the earth – 2014-2023

Healthy soils for a healthy life – 2015-2024

Nutritious seeds for a sustainable future

