

Solidarity practices during climate crises: Collaboratively exploring opportunities with women agroecologists. A Case Study of the Natal Midlands





Research Centre Agroecology, Water and Resilience

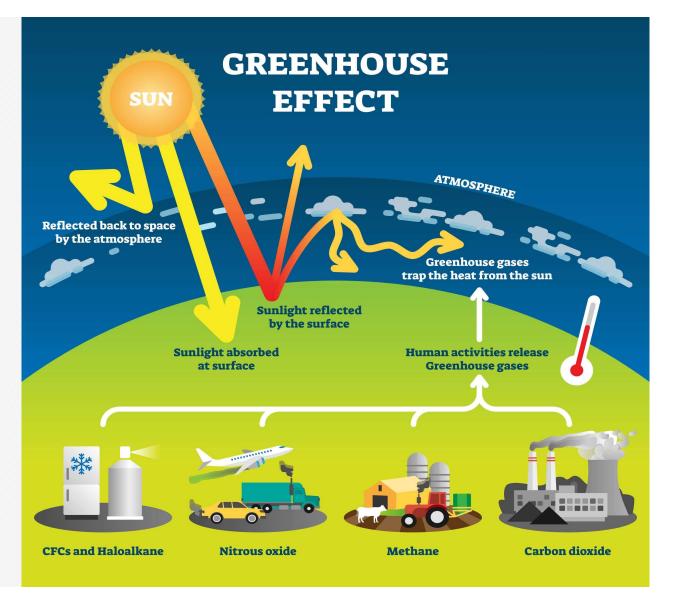


MAIZE TRUST

By Temakholo Mathebula



WHAT IS CLIMATE CHANGE?



CLIMATE CHANGE

- Shifting of the overall weather patterns due to atmospheric changes brought on primarily by human activity globally.
- For KZN interior these changes include
- Increased rainfall variability (later onset of seasonal summer rains, increased incidence of storms and hail, increased incidence of droughts and dry spells)
- Increased temperature (average 2 °C increase in minimum and maximum temperatures, increase in number of un-seasonally hot days, reduction in winter snows and rainfall)



CLIMATE CHANGE EFFECTS

- Climate change is already impacting human health. Changes in weather and climate patterns can put lives at risk. Heat is one of the <u>most deadly</u> weather phenomena.
- As ocean temperatures rise, hurricanes are getting <u>stronger and</u> <u>wetter</u>, which can cause <u>direct and indirect deaths</u>.
- Dry conditions lead to more wildfires, which bring many health risks.
- Higher incidences of flooding can <u>lead to</u> the spread of waterborne diseases, injuries, and chemical hazards.
- As geographic ranges of <u>mosquitoes and ticks</u> expand, they can carry diseases to new locations.

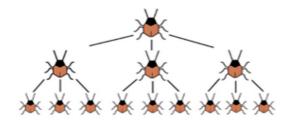
CLIMATE CHANGE EFFECTS



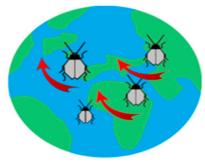
Pollution of water sources

Landslides

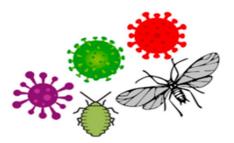




Increased number of generations



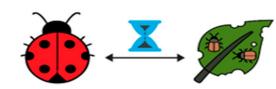
Expansion of geographic range



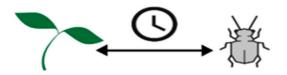
Outbreak of plant diseases transmitted by insects



Increased overwintering survival



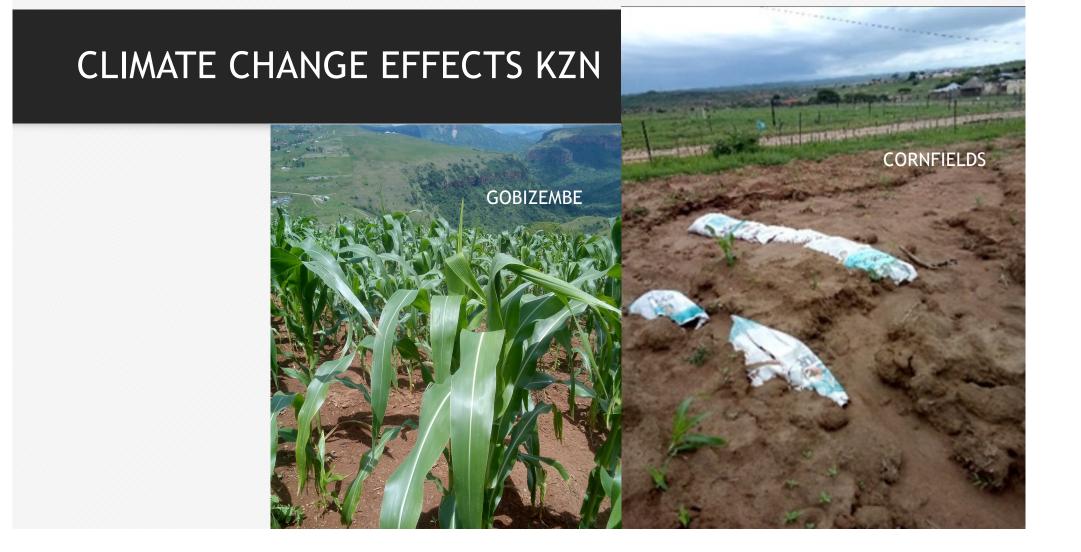
Desynchronization of insects and their natural enemies



Loss of synchrony with the host plant

CLIMATE CHANGE EFFECTS: INCREASE IN PESTS AND DISEASES





CLIMATE CHANGE EFFECTS IN SOUTH AFRICA



SOUTH AFRICA ON THE BRINK OF GLOBAL HEATING DISASTER



F4CJ: PROBLEM STATEMENT

- The COVID-19 Pandemic has exposed how fragile food systems are (FAO, 2020). This crisis coupled with the growing climate emergency has highlighted how people rely on community networks in order to survive in uncertain times.
- Eco-feminists argue that the disproportionate distribution of resources and the preferential treatment given to men and industrial agriculture are intersectional concerns that often leave women and regenerative forms of agriculture at disadvantage (Shiva, V, 2016).

Research Question

How can solidarity networks undergird agro ecology to enhance resilience of women in the face of climate change?

- Sub-question 1: What existing networks already support agroe-cology practices of women? What inhibits and enables these solidarity networks?
- Sub -question 2: How does an understanding of solidarity networks contribute to the concept of social innovation and the practice of agroecology?

Methodology

- □ A PAR Approach was used in this research
- Limitation of research: research acknowledges that timeframe shorter than what is required for PAR, since PAR is already part of MDF then research will be seen in broader reflection of MDF's work
- Research was conducted in a series of interviews; individual interviews, focus group discussions, cross learning workshops

Outputs

(animations/videos/handbook)



Context of Study-KZN

- Area: Swayimane and Ozwathini areas are situated between 50 and 90 km from Pietermaritzburg, KwaZulu-Natal.
- High rainfall areas, with a lot of mist in Ozwathini in summer.Deep well drained soils that are mostly reddish brown in colour.
- This study focused on smallholder farmers, majority of whom are women from Ozwathini, Gobizembe and Mayizekanye between the ages of 40 and 80 years old.
- □ Between 5-10% of participants are men between the ages of 40 and 75 years old.



Understanding Solidarity Networks and their Link to Farming

- Solidarity networks can be described as groups (both formal and informal) of mutual interests and cooperation that are formed, often in response harsh realities such climate change and COVID 19.
- According to Smith (2009), solidarity networks focus on and explore alternatives to the challenges of marginalization, underdevelopment, and poverty in communities.
- Another source describes them as a form of **mutual insurance**, especially amongst agrarian communities (Fafchamps, 1992).



Findings: Solidarity Networks in Midlands

A focus group was held in Swaymane on the 17th of February where farmers were asked to identify existing solidarity networks. Below were the main findings with regard to solidarity networks:

Mahlathini Learning Groups (Conservation Agriculture)

□ Stokvels (meat, blanket, money, funeral)

Savings and Loan Associations

Groups that assist orphans

DARD Farmers' Association

Livestock groups (broilers, layers, goats, calves, rabbits)

Mushroom Production Groups

Church Groups



Benefits and Challenges of Solidarity Networks

BENEFITS OF SOLIDARITY NETWORKS

- □ Knowledge access and sharing
- Conservation of soil and water
- □ Saving money for various needs
- Preservation of culture (the principles of Ubuntu (humanity) and ubumbano (solidarity)
- Mitigating the effects of climate change

CHALLENGES

- □ Jealousy amongst group members
- □ Poor attendance of meetings
- Lack of cooperation amongst group members
- □ Gossiping
- **Cliques**
- □ Lack of confidentiality
- Poor record keeping

What enables networks to function well?	What inhibits networks from performing well?				
Working together with a common goal Gaining of knew knowledge and skills on good agricultural practice Love for farming Able to grow food for our families Physical exercise Helping the needy Eat food from our own garden/field Assist each other with market Bulk buying	Lack of sufficient training on usage of chemicals Poor coordination Differing views Not attending meetings/demos and expecting to piggy back on others Gossiping Lack of trust Poor record keeping				
What are the opportunities for	What could threaten the future of				
growth?	local networks?				
Build stronger relationships	Unpredictable weather patterns				
Plant new types of crops and due to CC	Old age				
To grow more food due to increase in	Rise in input costs				
demand for local produce	Competition with commercial farmers				
Buying produce from one another	High mortality due to COVID and other				
	diseases				

WHAT ENABLES AND INHIBITS NETWORKS?

Findings on the Role of each Network

- Matrix ranking for the three areas revealed that Regenerative Agriculture ranked the highest in all 5 of the benefits listed by farmers which were used as criteria to do the matrix ranking.
- From these findings it became clear that RA contributes not only to knowledge creation and soil and water conservation but also has a positive impact on strengthening community relations.
- Stokvels, burial schemes, savings groups and church groups played a more significant role in saving money, preservation of cultural values and solidarity.
- □ There was an indirect link between local savings groups/stokvels and farming activites.

GOBIZEMBE Access to Knowledge Soil and water conservation Saving money Increased resilience to climate change	CA learni grou 2 2 2 2	5	DARI Farme Associa 2 2 2 2 0	ers	Sewing Group 2 0 2 0	Money Stokvel 1 0 2 0		Harvestin g Group 2 1 1
Preservation of culture	2		2		2	1	2	2
Solidarity	2		1		2	2	0	2
TOTAL	12		9		8	6	6	9
MAYIZEKANYE Access to Knowledge	CA learning group 2	Fa	DARD Irmers ociatio n 2	Savi Gro 2	up s	Burial cheme 2	Stokvel 2	Harvesting Group 2
Soil and water conservation	2		2	0		0	1	1
Saving money Increased resilience to climate change Preservation of culture Solidarity Mayizekanye	2 2 2 2 12		2 2 2 2 12	2 2 2 2 1		2 0 1 2 7	2 0 2 2 9	1 1 2 2 9
OZWATHINI Access to Knowledge Soil and water conservation Saving money Increased resilience to climate change Preservation of culture Solidarity	CA learn grouj 2 2 2 2 2 2 2 2 2 12	5	DARI Farme Associa 1 2 1 2 1 2 2 10	ers	Calf Group 2 2 2 2 2 2 2 2 2 2 2 12	Savings Group 2 0 2 0 0 2 6		Harvestin g Group 2 0 1 2 2 2 7

Context of Study-Mpumalanga

- Women, in the area that ZU focuses on, live below the recognised UN poverty line of \$1.90 a day.
- A core concern of ZU was to address this and assist women out of poverty. There was an urgency to ensure that women had some form of food security while looking for ways of increasing their ability to make money.
- ZU turned to permaculture as a philosophical and practical action to address food insecurity.



ZU: Background

- In 2019, Permaculture Explorers, a programme of ZU launched the "Above the Lines" project in Acornhoek, for 20 women headed households.
- In 2021 a second and third class graduated from the RDP village and Rooiboklaagte B Village. A total of 53 women have received education in Permaculture and small enterprise development.
- As ZU reflected on the initiative, they also introduced education around mentality control, making wise choices and creating action plans (Zingela Ulwazi, 2022).

Findings from Research: ZU Solidarity Networks

The following networks were dominant across all three groups.

- Society groups (community burial associations)
- Stokvels
- Old age care centres
- Farming cooperation
- Social clubs (help with groceries, food)
- Soap making project
- Day care centres
- Poultry and eggs projects
- Sewing projects
- Anti GBV groups (Sekwanele self-defense group)

Findings from Research: ZU Solidarity Networks

Links between farming and networks:

- It helps to access market
- To access funds
- Learning from each other

How can networks strengthen agro-ecology?

- by explaining the benefits of organic farming
- explaining the difference between agro ecology and agriculture and the health benefits thereof.
- Advocating for organic food to help with chronic illness.

