

Prototype testing

Appropriate, well facilitated, site specific basket of options for water management and climate change adaptation

SEDAWA, Mmetja, Oliphant's Basin, Limpopo, April 2017

Community based monitoring- using traffic lights!

1. WATER MANAGEMENT

GO KAONAFATSA TAOLO
YA MEFSE

3/52



Drip Irrigation
- RWA - drains for irrigation



Saving Water
- Communal tap use that
- no longer 24/7
- controlled irrigation

2. CONTROL SOIL MOVEMENT AND EROSION

GO FOKOTSA KGOQALEQO
YA MOKU.



Contours
- Waterflow - for collection

1/52



Sacks w. sand
- Diggins

Cut off darts
Swales

Division Ditches

10/52

TOWER GARDEN - FILLIAT
KEITHOLE

4/52

Greywater

2/52

Small dams

10/52

Organic matter

STONEBUNDS

12/52

Banana banyas/
cicles

11/52

Strip Cropping. Acres
Planting grass

9/52

Ridges

15/52

- sunflowers
- Sweet potatoes

3. CROP MANAGEMENT

GO KAONAFATSA HLOKOMELO
YA DIBYALWA

Close spacing on field crops - competition
Tomatoes - difficult to harvest

9/52

Pest Control
- Beans, sunlight, oil...
Red spider, chemicals

Basins, mulching.
Direct water manure.
Field crops

29/52

Close spacing

10/52

Afternoon Shade
Inland breeds

Crop rotation
Intercropping
29/52

Conservation Agriculture
- Soil cover
- diverse crops
- Legumes

Fallows

4. SOIL FERTILITY

GO NONTSA MOKU.

10/52

Liquid manure

29/52

Compost

Trench beds

Mulch

34/52

Legumes
- Beans, Peanuts
- Jujas

Manure
Chicken
Cattle

Organic matter
- woodchips, leaves, etc
Bury Bones

5. Looking after Indigenous Plants

HLOKOMELO YA DIME
TEA TLHAP

Stop burning
veld
(not in all areas)

Don't chop trees
- Cut/prune
responsibly

Bring wild trees into
homes, plant.

Mulching,
mixed
cropping,
drip
irrigation



Banana
basins,
nurseries,
diversion
ditches,
swales



Conservation
agriculture-
dryland
cropping;
grain-legume
intercropping,
rotations,
cover crops



Local water
management
systems,
greywater
management
and use



Rain water harvesting and storage options





Erosion control – soil and water conservation techniques

Small livestock
integration-
fodder
production,
cut and carry
systems, hay,
bedding....



Custom built
tunnels for
increased
productivity
– Climate
control,
water
productivity



Local
community
based
facilitation
with visual
aids and
demonstrati
ons





Stakeholder involvement, planning, dissemination, research agendas