

# The Lower Austrian Government

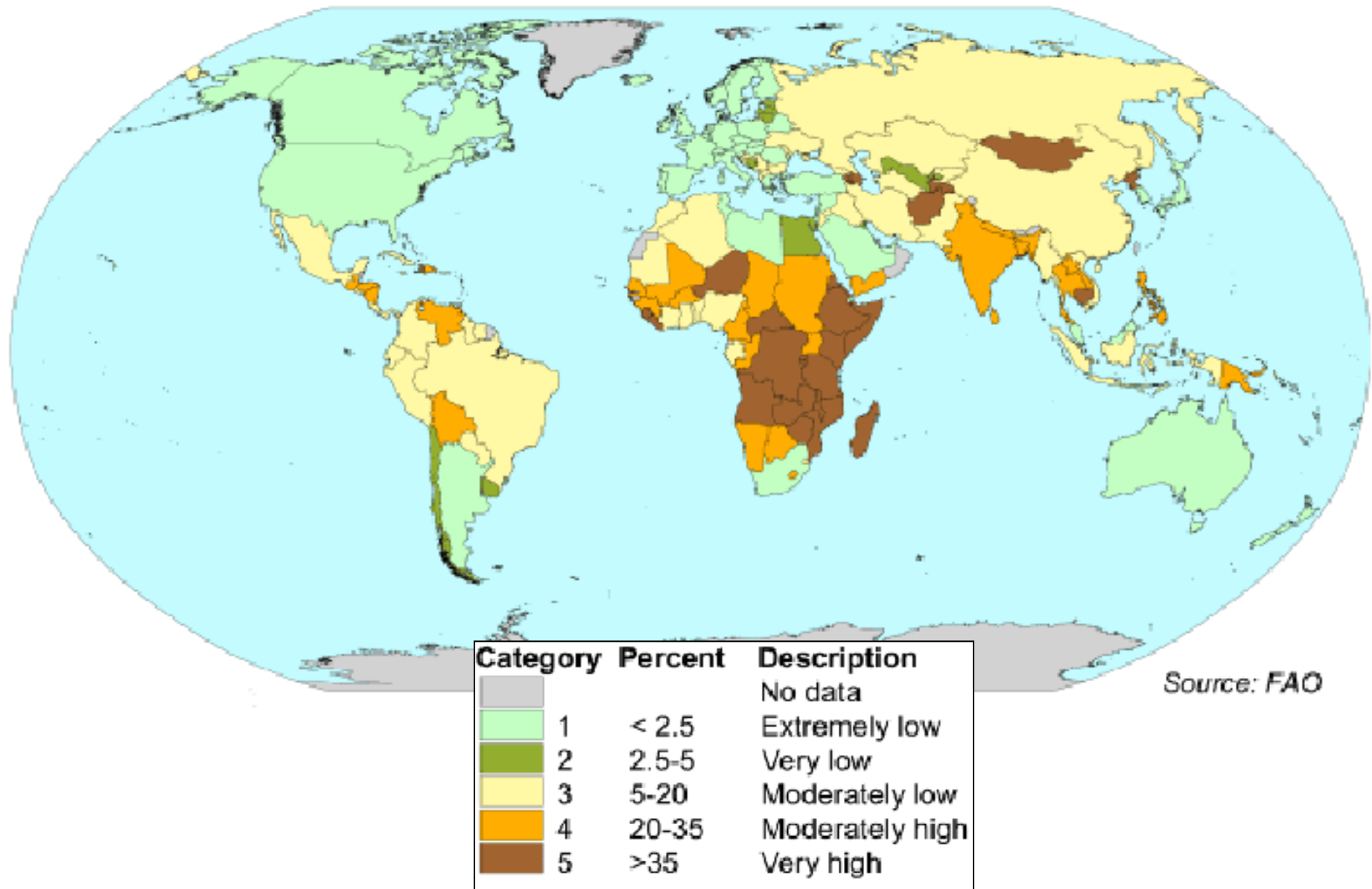
Department for Land Development

International Workshop for Soil Science  
of the Working community  
of the Danube Region

## BEST PRACTICES AGAINST EROSION FROM AFRICA

St Polten - 15<sup>th</sup> -19<sup>th</sup> April 2013

# % Population Undernourished



# The Story

- Zimbabwean → school → tobacco
- The challenge → growing food →
- Losing everything
- Hinton – 1,000 Ha

maize: 400Ha, soya: 300Ha, wheat: 300Ha

- Hinton on the verge of bankruptcy
- The problem – burning & ploughing

# Search for an Answer

- heard about Zero-Tillage
- no help from the research or extension experts

# The Five Giants

- Soil Compaction
- Disease
- Pests
- Crop Stand
- Weeds

# The Beginning of the Answer

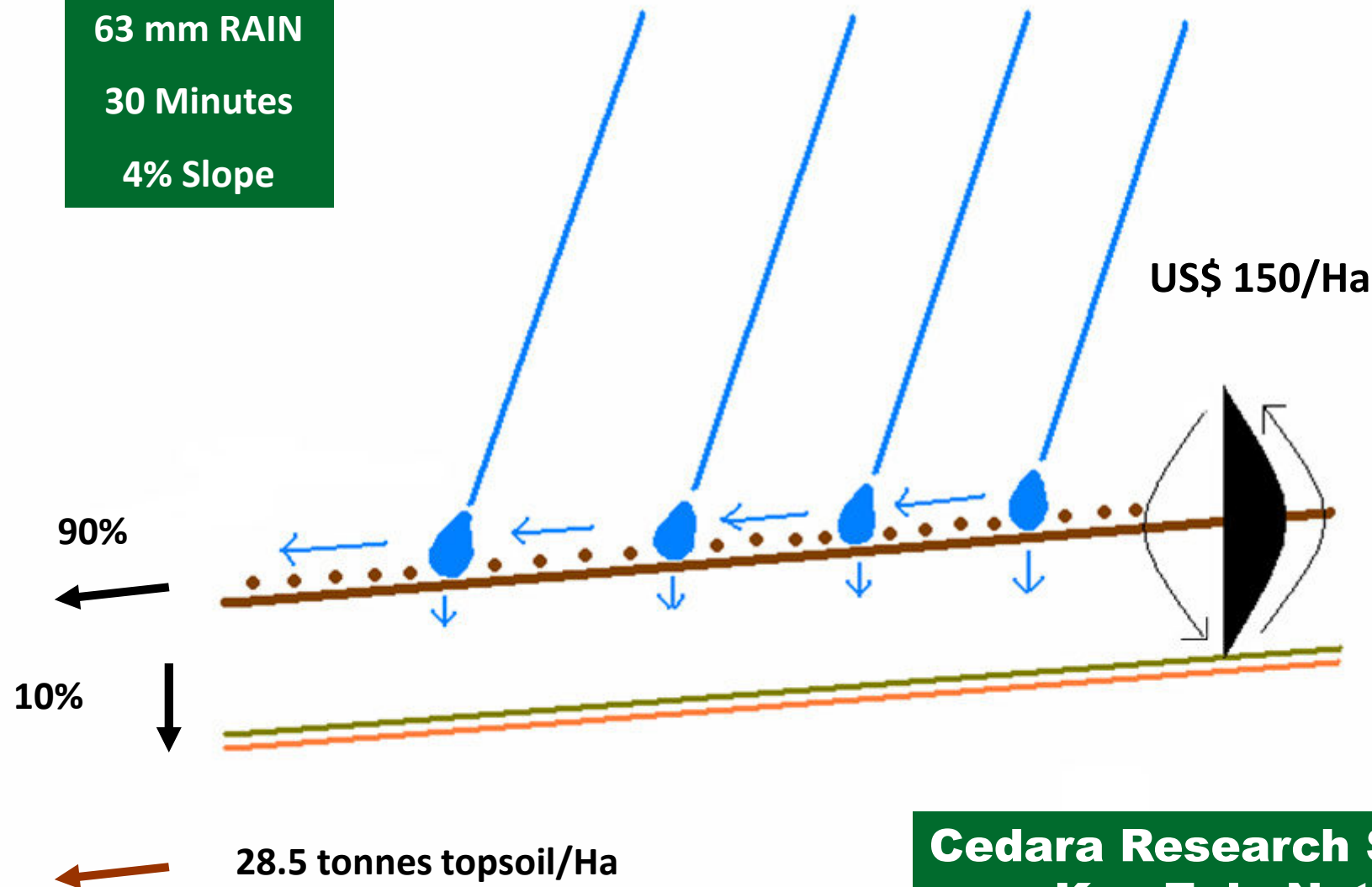
- Desperation
- Prayer
- Looking at Nature
- Nature's Blanket
- No Ploughing in Nature
- Nature's Planting Process

# Simulated Storm Trial

63 mm RAIN

30 Minutes

4% Slope



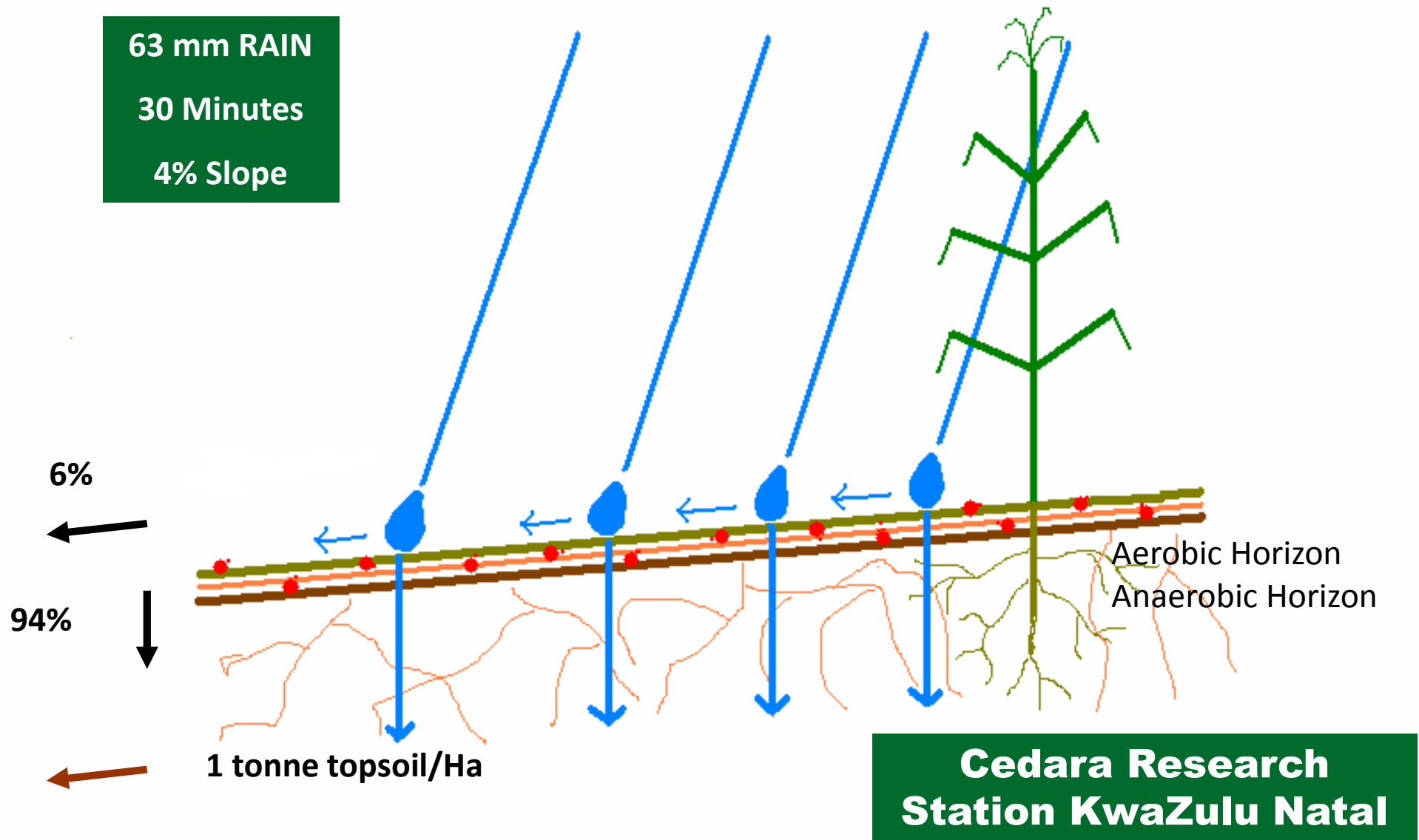
**Cedara Research Station  
KwaZulu Natal**

# Simulated Storm Trial

63 mm RAIN

30 Minutes

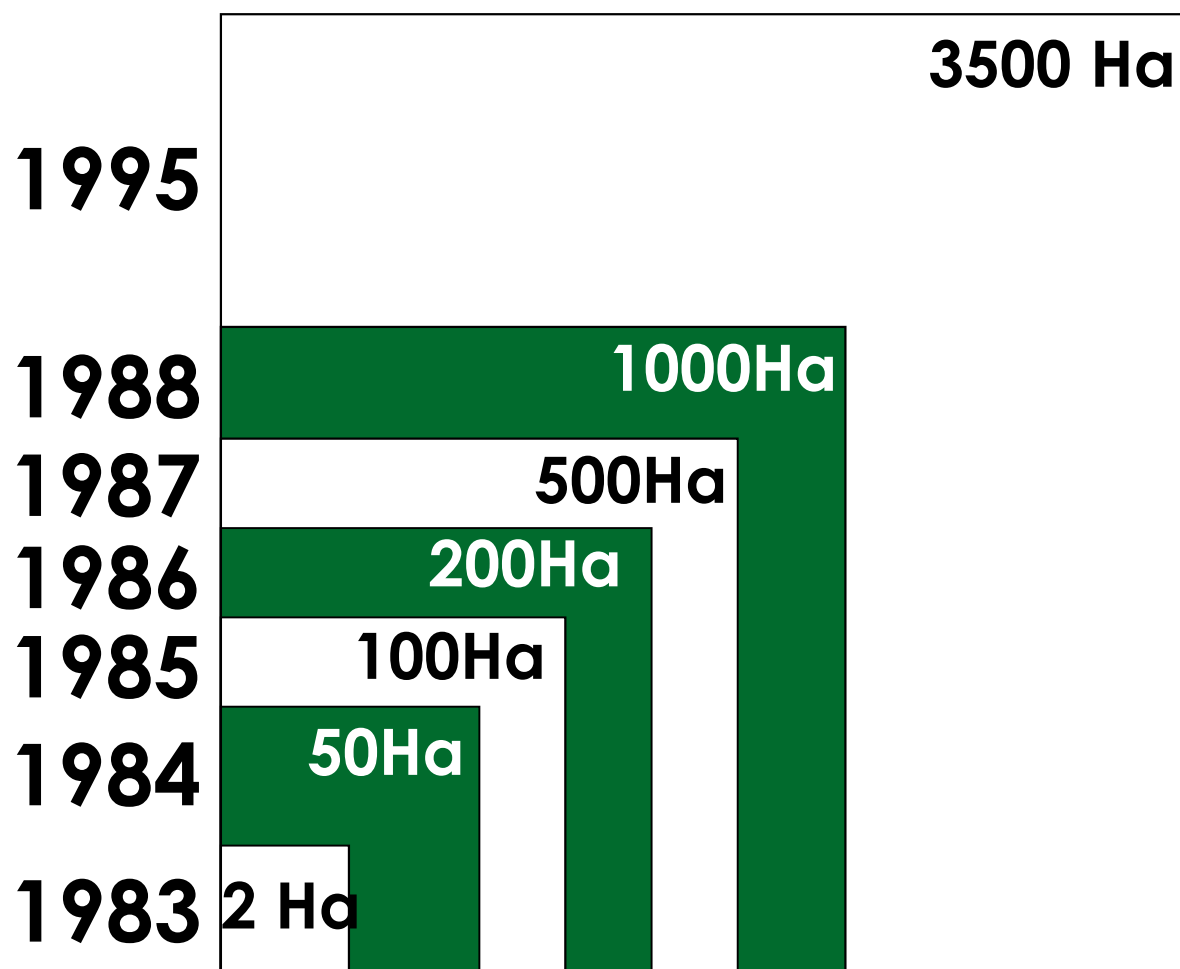
4% Slope





# Our Increase

1,300 wheat; 1,000 maize; 1,000 soya; 200 cotton/sorghum/groundnuts



# Yield Results

Yields increased immediately & stabilised

MAIZE 4.5t/Ha < 9.5 t/Ha

SOYAS 2 t/Ha < 3.5 t/Ha

WHEAT 6 t/Ha < 8 t/Ha

COTTON 2.5 t/Ha < 3.5 t/Ha

# Cost Decreased

LAND PREP      75l/Ha > 15l/Ha

DRAUGHT POWER   2 HP/Ha < 2 Ha/HP

Less capital expenditure on machinery,  
R&M and fuel

Grew 3,500Ha with less total Horse  
Power than 1,000Ha

# NO PLOUGHING





**NO BURNING !**



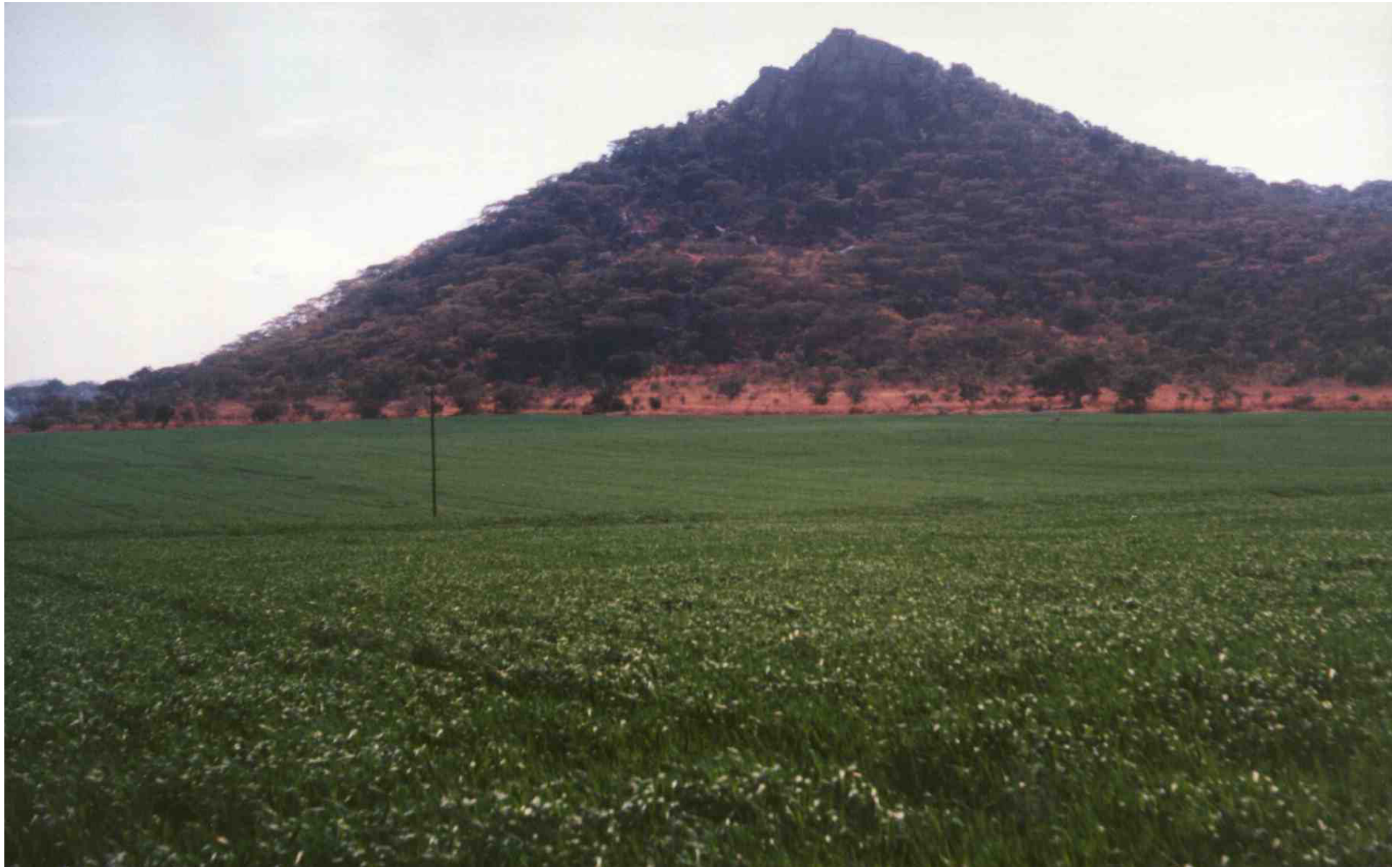


## EARLY TESTS – NO MORE BURNING & PLOUGHING





## IMMEDIATE INCREASED YIELDS & REDUCED COSTS



GOD GRACED US WITH MANY PRIZES & YIELD RECORDS





WHEAT 10,2 TONNES / HA (5.5T / HA)



GROUNDNUTS - 6 TONNES/HA (0,75 T/HA)





NO-TILL MAIZE 13.95 TONNES/HA (0,4 T/HA)



SOYABEANS 4.27 TONNES/HA (1.8 T/HA)





SUGAR CANE 256 TONNES/HA (90 T/HA)



# **Implementation Management**

## **(Best Practice)**

- On Time
- At Standard
- With Minimum Wastage
- **With Joy**

**= PROFIT**

# The Poverty of the People

## SHARING THE BEST PRACTICE

### THE OUTREACH TO THE POOR BEGINS

- God gives me His Heart for the Poor
- Locally and in the Nation at Large
- More Widely in the Continent
- Reach out into 30 Countries in Africa
- And into Canada, USA, UK, Europe, Australia, India, China,

# THANK YOU

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