Photographs

Planting basins (Chapter 3)

1  Farmer with newly dug planting basins
   August Basson

2  Digging planting basins using hoes and strings
   August Basson

3  A former drug-dealer and his field of maize – grown with conservation agriculture
   August Basson

Photos 1
**Jab planters (Chapter 3)**

4 A jab-planter with two containers: for seed and for fertilizer
HASTT, Zimbabwe

5 Farmers testing jab-planters to plant through mulch
John Ashburner

6a Spread handles to feed the seed

6b Jab downwards to make a hole

6c Squeeze handles to release the seed

6d Lift planter so soil falls onto the seed and covers it

6 How to use a jab planter
HASTT, Zimbabwe

Photos 2
Rippers and planters (Chapter 3)

7 Simple ripper-planter pulled by two donkeys. Design by Triple W Engineering.
Barney Muckle

8 Oxen-pulled ripper-planter. Design by Triple W Engineering/ KARI.
Barney Muckle

9 The back wheels on this Hastt ripper–planter control how much seed and fertilizer are applied. The strakes on the wheels prevent the wheels from skidding.
Hastt, Zimbabwe

10 A 1.5 m yoke for ripping and planting, giving a row spacing of 75 cm
Brian Sims

11 Testing a Fitarelli No. 12 direct planter and fertilizer distributor
Josef Kienzle

Photos 3
12  *Fitarelli (Brazil) 3-row tractor-mounted direct planter*
   Brian Sims

13  *Triton direct planter*
   Brian Sims

14  *Knapik direct planter*
   Brian Sims

15  *Knapik planter as supplied by the factory, with a small sprocket. This will give a higher seed rate.*
   Knapik

16  *Knapik planter with a large sprocket. This will give a low seed rate.*
   Knapik

*Photos 4*
Keeping the soil healthy (Chapter 4)

17  A South African farmer holds two pieces of soil. The soil on the left is sick because of the way it has been managed. On the right is the same soil, but managed under conservation agriculture.
Telmo Almado

18  The taproot of this plant could not push through the hardpan, so it bent sideways instead. Bent taproots like this are a sign of a hardpan.
Gye Evers

19  A heavy storm carrying away yet more of Lesotho’s precious topsoil, carving a gully as it does so
August Basson
Soil cover (Chapter 5)

20 Ugandan farmer mulching bananas
William Critchley

21 Canavalia ensiformis, Madagascar
Oumarou Balarabe

22 Tephrosia candida (12 months)
Anja Boye

23 Brachiaria planted after sorghum
Oumarou Balarabe

24 Crotalaria grahamiana flowers
Anja Boye

25 Crotalaria grahamiana, western Kenya (4 months)
Anja Boye

26 Maize intercropped with lablab in Tanzania
Josef Kienzle

27 Lablab, western Kenya
Anja Boye

Photos 6
Controlling weeds (Chapter 7)

28 Using a billhook (nyengo) to control weeds in Tanzania

29 Tractor-drawn knife roller for crushing weeds, crop residues and cover crops before planting
   Josef Kienzle

30 An animal-drawn knife-roller, turned upside-down so it can be transported
   Brian Sims
Conservation Agriculture

31 Zamwipe herbicide applicator
Brian Sims

32 Jahnel hand-pulled 4-nozzle sprayer
Brian Sims

33 Knapik hand-pulled 6-nozzle sprayer
Brian Sims

34 Triton draught animal-pulled sprayer with an 80 litre tank and a 5 m boom
Brian Sims

Photos 8