

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

Jab planters (Chapter 3)



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



6a Spread handles to feed the seed



6b Jab downwards to make a hole



6c Squeeze handles to release the seed



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



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

6 How to use a jab planter
HASTT, Zimbabwe

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



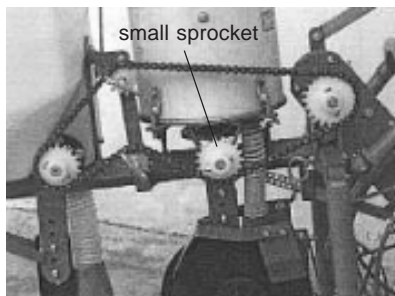
12 *Fitarelli (Brazil) 3-row tractor-mounted direct planter*
Brian Sims



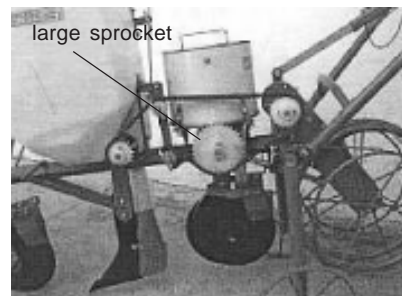
13 *Triton direct planter*
Brian Sims



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

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

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



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