





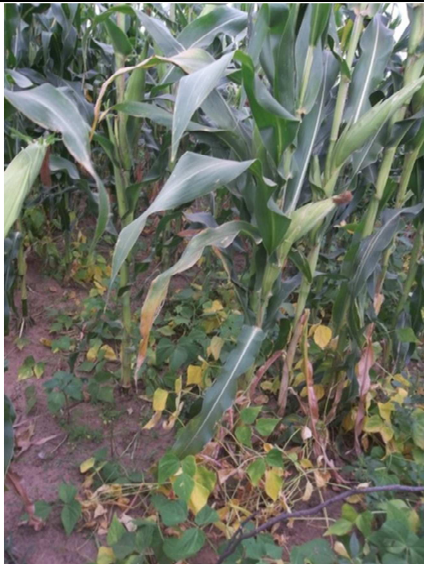





Name and Surname	Control	Trial	%Cover (0% – none to 100% full cover (at planting)	% Weeds 0% – high weeds - 100% no weeds no impact on crops	% pests 0% bad-to 100% – no pests no damage no yield loss	% growth (germination colour height health )	Overall score (10)	Harvest figures Beans (1-2.5 t /ha) Cowpea (1-1.2 t /ha) Maize (4-10 t/ha)
<b>MATATIELE, EC</b>								
<p><b>1. Mrs Nozamile Mandlakhe (52)</b> 30°14 .914´S 028°34 .592´E</p> <p>3hh member, 2 social grants, chickens and small garden. Other members employed elsewhere and do not share hh expenses. SCG member –</p>	<p>20x17=340m<sup>2</sup>. Hand planted. Maize (traditional). Broadcast seed, planted by hand. No fertilizers used.</p>	<p>400m<sup>2</sup>; 4(10mx10m)7.2 kg MAP, 26.4-kg Lime . No top dressing. Hand hoe x 2 and Matracca planter x2 Layout: 50cmx50cm maize (basins) and hand planters), 25cmx10cm beans. Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>	<p>30%-dead weeds 30%</p>	<p>45% VERY weedy 30%</p>	<p>65% Stalk borer 65%</p>	<p>70% 40%</p>	<p>5.25 Trial 4.12 control</p>	<p><b>Beans: 1.1 t / ha</b> <b>Cowpea 387 kg/ha</b></p>
		<p>Whole plot covered in grass. Had not been used for some time. Matracca planter struggled to get through this layer at planting. In April 2014 cover in some of the plots from crops good. Others, weed competition very high. Germination rates quite low; maize-53%, beans 30% and cowpeas 29% <i>Far left: Control; Very weedy. Growth weak and yellow.</i> <i>Left: trial plot 201), shows good growth of maize and beans in the few plots weeded. Other weed competition is high. Some evidence of stalk borer damage on maize.</i></p>	<p>Beans 10.79 kg /100m<sup>2</sup> Cowpea 3.87kg /100m<sup>2</sup></p>					
<p><b>2. Mrs Matebuho Motsoko (47)</b> 30°14 .981´S 28°34 .553´E</p>	<p>28x15.5m = 434m<sup>2</sup> MAP fertilizer. No pesticides. Yellow maize planted . Spacing 60cmx45cm. 55 rows x 35 plants/row.</p>	<p>100m<sup>2</sup>; 4(5mx5m); ) 3.6 kg MAP, 7.2 kg Lime . Top dressing 2.4kg LAN. Hand hoe x 2 and MBLI planter x2 Layout: 50cmx50cm maize (basins and hand planters), 25cmx10cm beans. Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>	<p>15%-dead weeds 5%</p>	<p>70% 50%</p>	<p>75% Stalk borer and CMR 75%</p>	<p>85% 50%</p>	<p>6.15 Trial 4.5 control</p>	<p><b>Beans 1.84 t/ha</b></p>

<p>10hh members (8 children), 1 employed, 3 grants. Well developed and fenced homestead.</p> <p>SCG member</p>			<p>Control plot very weedy – interference with crop growth. Trial plots reasonable growth, weed control and cover. Germination a bit low at; Mazie-50%, beans-33% and cowpeas 18% Cowepas nad beans grazed by free range poultry.</p> <p>Far Left: Control plot - April 2014. Weeding was left too late and then not done Patchy growth.</p> <p>Left: Trial plot April 2014 above. Good growth of maize and legumes, good cover.</p>	<p>COVER CROPS PLANTED-germinated</p> <p>Beans: 4.6kg/25m<sup>2</sup></p>											
<p><b>3. Mrs Mankopane Pitso (48)</b> 30°14.864´S 28°34.412´E</p>	<p>46x30 m = 1380 m<sup>2</sup>.No fertilizer. Traditional white maize planted by broadcasting post ploughing.</p>	<p>100m<sup>2</sup>; 4(5mx5m) ) 3.6 kg MAP, 7.2 kg Lime .Top dressing 2.4kg LAN (40% more than recommended). Hand hoe x 2 and MBLI planter x2 Layout: 50cmx50cm maize (basins and hand planters), 25cmx10cm beans. Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>	<table border="1"> <tr> <td>20%-dead weeds</td> <td>80% Not too weedy,</td> <td>75% stalk borer damage</td> <td>85%</td> <td>6.5 Trial</td> <td rowspan="2">Beans 660kg/ha Cowpea 344 kg/ha</td> </tr> <tr> <td>5%</td> <td>55%</td> <td>75%</td> <td>65%</td> <td>5.0 control</td> </tr> </table>	20%-dead weeds	80% Not too weedy,	75% stalk borer damage	85%	6.5 Trial	Beans 660kg/ha Cowpea 344 kg/ha	5%	55%	75%	65%	5.0 control	
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5%	55%	75%	65%	5.0 control											
<p>5 hh members, 2 employed, 3 grants, poultry (33) and livestock (9) . SCG member</p>			<p>Weeding on time, trad maize ready earlier, but trial OPV maize good yield with 2 cobs/plant. Germination rates; Maize- 82%, beans-40%, cowpeas 25%. Grazing by free range poultry.</p> <p>Far Left: Control April 2014. Good growth, but quite weedy- already harvested</p> <p>Left: trial plot in April 2014. Good growth and cover of both legumes and maize. Legumes ‘grazed’ extensively by free range poultry</p>	<p>COVER CROPS PLANTED Beans: 1.65 kg/25m<sup>2</sup> Cowpea 0.86kg/25m<sup>2</sup></p>											
<p><b>4. Mrs Mampulokeng Ralesenyeho (54)</b> 30°14.865´S 28°34.520´E</p>	<p>22x20m=440m<sup>2</sup>.Broadcst yellow maize seed (5kg) after ploughing by tractor. No fertilizer.</p>	<p>100m<sup>2</sup>; 4(5mx5m) ) 3.6 kg MAP, 7.2 kg Lime .Top dressing 2.4kg LAN. Hand hoe x 2 and Matracca planter x2 Layout: 50cmx50cm maize (basins and hand planters), 25cmx10cm beans. Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>	<table border="1"> <tr> <td>15%-dead weeds</td> <td>85%</td> <td>75% Stalk borer</td> <td>80%</td> <td>6.37 Trial</td> <td rowspan="2">Beans 932 kg/ha</td> </tr> <tr> <td>5%</td> <td>70%</td> <td>75%</td> <td>75%</td> <td>5.62 Control</td> </tr> </table>	15%-dead weeds	85%	75% Stalk borer	80%	6.37 Trial	Beans 932 kg/ha	5%	70%	75%	75%	5.62 Control	
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<p>4 hh members, unemployed, 3 grants, poultry (3), Pigs (2), cattle (2) .</p>			<p>Difficult to plant with Matracca- soil hard. Weeding done. Free range poultry decimated cowpeas and beans. Germination rates; maize-58%, beans 40%, cowpeas 0%. Farmer believes that because plot is on old kraal site; nothing has done well as soil is composted and too many 'nutrients'. Weeding was done well and in time</p> <p><i>Left: Trial plot – Good growth- very little ground cover as beans and cowpeas mostly eaten by poultry.</i>  <i>Far left: Control plot – even with broadcast seed and no fertilizer has done well.</i></p>					<p>COVER CROPS PLANTED- no germination Beans: 2.33 kg/25m<sup>2</sup></p>		
<p><b>5. Mr Dikotsi Tserane (23)</b> 30°14.864'S 28°34.658'E</p>	<p>40x8.5m= 340m<sup>2</sup> 5kg yellow maize seed broadcast after ploughing with animal drawn plough</p>		<p>400m<sup>2</sup>; 4(10mx10m). 7.2 kg MAP, 26.4kg Lime. Hand hoe and MBLI planter. Spacing haphazard. Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>		<p>15%- dead weeds 5%</p>	<p>50% 55%</p>	<p>75% 75%</p>	<p>50% 50%</p>	<p>4.75 Trial 4.62 control</p>	
<p>4hh members, unemployed, garden, 1pig. SCG member</p>			<p>Plot was covered in grass prior to planting. Germination was not good due to a lot of weed competition. Germination rates; maize-15%, beans 45%, cowpeas 10%.They moved away during the season and no harvesting has been done</p> <p><i>Far left: Control plot – half weeded, patchy germination and growth</i>  <i>Left: Trial plot – Not weeded since planting(6 weeks). Weed competition extreme.</i></p>							
<p><b>6. Mrs Matumo Lecheko (46)</b> 30°14.757'S</p>	<p>No control</p>	<p>100m<sup>2</sup>; 4(5mx5m) ) 3.6 kg MAP, 7.2 kg Lime. Top dressing 2.4kg LAN. Hand hoe and MBLI planter x 2. Layout: 50cmx50cm maize (basins and hand planters), 25cmx10cm beans. Roundup pre and at planting. Dual Gold and Decis Forte at planting</p>		<p>15%</p>	<p>60%</p>	<p>75%</p>	<p>60%</p>	<p>5.25 Trial</p>	<p>Beans 1.29 t/ha Cowpea 236 kg/ha</p>	



<p><b>28°34.767´E</b></p> <p>5hh members, 4 children, 4 grants unemployed, garden, SCG member</p>			<p>Weeding not done on time. Competition with crops. Germination rates; Maize- 78%, beans 49% and cowpeas 56%. Germination using planter slightly higher than for hand planting.</p> <p><i>Far left: Growth in plot planted with MBLI quite good, but a lot of weed competition</i></p> <p><i>Left: 2 plots visible- on left hand side is a hand planted plot and on right the MBLI planted plot, which shows less yellowing and better growth.</i></p>					<p>Beans 3.24kg / 25m<sup>2</sup></p> <p>Cowpeas 0.59kg /25m<sup>2</sup></p>
<p><b>7. Mrs Bulelwa Dzingwa(46)</b></p> <p>(CPB- community based promoter)</p> <p><b>30°14.525´S</b> <b>28°32.038´E</b></p> <p>6hh members, 4 children, 2 employed, 3 grants, garden, 1 pig SCG member</p>	<p>No control</p>	<p>100m<sup>2</sup>; 4(5mx5m) 3.6 kg MAP, 7.2 kg Lime; Hand hoe and MBLI planter. Layout: 50cmx50cm maize (basins and hand planters), 25cmx10cm beans. Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>	<p>15%</p>	<p>70%</p>	<p>75%</p>	<p>70%</p>	<p>5.75 Trial</p>	<p>?</p>
			<p>Germination; Maize- 85%, beans- 39%, cowpeas – 28%.germation from planter slightly lower than for hand planting. Heavy rain also caused some erosion and water logging that reduced germination- along with late weeding.</p> <p><i>Far left: Evidence of weeding being done 6-7 weeks after planting. A bit late.(2people, 2days)</i></p> <p><i>Left; Once weeded growth in trial plot reasonable, although germination was a bit patchy.</i></p>					<p>COVER CROPS PLANTED</p>
<p><b>Thabang Monaheng Spraying volunteer</b></p>		<p>Apparently has planted, but has been unavailable. He also was found charging people for his knapsack spraying services.</p>						