





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)
MATATIELE, EC								
<p>Mrs Monica Dzingwa (68) Acted as local facilitator</p> <p>30°15 .228´S 28°42 .155´E</p> <p>SCG member – 4 hh members. Retired teacher, 1 grant, grows vegetables, poultry for sale..</p> <p><i>SOIL SAMPLE:</i> N(70kg/ha), P (35-50kg/ha), K (35kg) No lime. Ph 4.1, acid sat (13%) Clay 12%, Org C <0.5%</p>	<p>12x11m=132m². Hand planted: inter crop of yellow maize and sugar beans.14 rows ea Used 2:32 (25). Unsure of quantity. Maize 55 plants/row x 14 rows; beans 27 plants /row x 14 rows.</p>	<p>100m²; 4(5mx5m) 3.6 kg MAP, 7.2 kg Lime, 2.4 kg LAN- 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>15%-dead weeds 10%</p>	<p>60% cmr beetles 60%</p>	<p>85% 85%</p>	<p>80% 75%</p>	<p>6.0 Trial 5.75 control</p>	<p>Beans: ~692 kg /ha</p>
			<p>Plots weeded late. Growth reasonable considering. Plots intercropped with cowpeas maize visibly greener and larger than those intercropped with beans. Weeding 3 people, 3 days. Germination rates; Maize 75%, beans 58%, cowpeas 39%</p> <p>She experimented on the rest of her fields with using different herbicides throughout the season.</p> <p><i>Far left: Control; growth better than trial-</i></p> <p><i>Left: trial plot around Jan 2014. Reasonable growth. Beans and cowpeas germination not too good. Weed competition. Later pic (April 2014), shows reasonable growth, and cover towards the end of the season..</i></p>				<p>COVER CROPS PLANTED – no germination</p> <p>Beans: 1.73 kg/ 25m²</p>	

<p>Nthabiso Diholo (43) 30°14 .863´S 28°42 .706´E</p> <p>7 hh members Unemployed, no grants.1 pig. Vegetable garden.</p>	<p>26x18m =468m² No fertilizer. No pesticides. Yellow maize broadcast with animal drawn planter .</p>	<p>100m²; 4(5mx5m) 3.6 kg MAP, 7.2 kg Lime, 2.4 kg LAN- 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>15%- dead weeds</p> <p>5%</p>	<p>75%</p> <p>75%</p>	<p>75%</p> <p>75%</p>	<p>70%</p> <p>60%</p>	<p>5.87 Trial</p> <p>5.37 control</p>	<p>Beans, cowpe as; still to weigh</p>
	<p>Germination rates; maize-85%, beans 61%. Control weeded, trail weeded very late. Cowpea did not grow</p> <p><i>Far Left: Control plot - Jan 2014- w. Patchy growth, very little cover.</i> <i>Left: Trial plot Jan 2014. Weed competition already high.</i></p>							
<p>3. Mr Simon Tsoloane Maphellee (52) Local facilitator 30°14 .850´S 28°41 .382´E</p>	<p>65x10m=650m² beans . 14rows x197 seeds/row. Yellow maize. 24 rows x192seeds/row. Animal drawn plough and planter. Added 2:3:1 (25) and top dressed with Urea (46).</p>	<p>100x12m = 1200m²; 36 kg MAP, 72 kg Lime, 24 kg LAN- top dressing. Animal drawn no till planter. 100m x11 rows beans and 7 rows maize (1row maize inter cropped with 2 rows beans). Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>	<p>15%- dead weeds</p> <p>5%</p>	<p>75%</p> <p>75%</p>	<p>85%</p> <p>85%</p>	<p>65%</p> <p>75%</p>	<p>6.03 Trial</p> <p>6.0 control</p>	<p>Beans 116 kg/ha Cowpe as 193 kg/ha</p>

<p>SCG member (Khutsong) 6 hh members, 2 children, 2 grants, cattle (12), sheep (52), Pig 91 unemployed, garden and fields. SOIL SAMPLE: N(70kg/ha), P (20kg/ha), No lime. Ph 4.46, acid sat 4% Clay 6%, Org C <0.5%</p>			<p>Weeding on time (~4 weeks after planting). Re planted beans that germinated badly the first time. Also planted a small plot of maize , cowpea intercrop (28mx11.5m). <i>Far Left: Control plot of beans growing very well</i> <i>Left: trial plot in Feb 2014. Left top. Serious problems with germination of legumes –came up but died off soon thereafter. Suspect herbicide damage.</i> <i>Left – trail plot weeded, but with patchy stand of maize and very bad germination of beans-</i></p>					<p>COVER CROPS PLANTED - Ist harvested and removed mazy stalks prior to sowing- have come up Beans 7.03 kg/ 600m² Cowpeas 2.9 kg/ 150m²</p>
<p>4. Mr Monqezi Bhekaphenzulu (57) 30°15 .274´S 28°42 .130´E</p>	<p>18x 30m = 540m² Animal drawn planter; yellow maize nad beans. Used 3:2:1, 5kg plsu kraal manure. 16rows x 145 seeds/row.</p>	<p>15mx11m= 165m² 1 plot maize and beans using Matracca (10mx10m) – 14 rows maize, 12 rows beans. 1 plot hand planted maize and cowpea (5x10m),1 plot hand planted mazie and beans (15mx1m). Roundup pre and at planting. Dual Gold and Decis Forte at planting.</p>	<p>5%- dead weeds 5%</p>	<p>65% 50%</p>	<p>75% 75%</p>	<p>65% 55%</p>	<p>5.25 Trial 4.87 control</p>	<p>Beans ~1.52 t/ha Cowpea ~1.65 t/ha</p>

<p>SCG member (Khauoe) 6 hh members, 4 children, 2 grants, 1 employed horses (2), pigs (3) garden and fields.</p> <p>SOIL SAMPLE: N(70kg/ha), P (55kg/ha) K (5kg/ha) ,No lime. Ph 4.21, acid sat 13% Clay 6%, Org C <0.5%</p>			<p>Germination and growth not too good. Plot weedy and crop cover not very good after late weeding.</p> <p><i>Far left: control plot weeded around 5 weeks after planting in Jan 2014</i></p> <p><i>Left- Trial plot –some weeds, growth slow and soil quite exposed (Jan 2014)</i></p>					<p>COVER CROPS PLANTED- no germination</p> <p>Beans 6.3kg/</p> <p>Cowpeas 6.8 kg/</p>
<p>5. Mrs Mantolo Isaac (65) 30°15 .311´S 028°42.178´E</p> <p>3 hh members, unemployed, 1 grant, garden</p>	<p>No control</p>	<p>100m²; 4(5mx5m) 3.6 kg MAP, 7.2 kg Lime; 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>10%- dead weeds,</p>	<p>65% A lot of weeds,</p>	<p>75% Stalk borer</p>	<p>70%</p>	<p>5.0 Trial</p>	<p>Beans ~1.97 t/ha Cowpeas ~ 1.31 t/ha</p>
			<p>Crops grew reasonably well in spite of weedy fields, but beans and cowpeas set back Germination rates; maize-65%, beans 23% and cowpeas 36%</p> <p><i>Left: Trial plot – Patchy germination, a lot of weeds competition, yellowing of plants – 6-7 weeks after planting (Jan 2014)</i></p>					<p>Beans 4.94kg/2 5m² Cowpeas 3.27kg/2 5m²</p>

Mrs Matsoanelo M Khaueo SCG member-9hh members, 3 employed, garden, 5 cows, 1 sheep. <i>SOIL SAMPLE: N(50kg/ha), P (35kg/ha)</i> <i>Ph 4.2, acid sat (9%) Clay 9%, Org C <0.5%</i>		No control . She planted a large area in her own way – did not follow theca principles, but used the Lime, fertilizer etc. Plots very weedy								No harvest
6. Mr Simon Letsi (42) 30°15 .109´S 28°41 .812´E 4 hh members, 2 children, no grant unemployed, garden and field.	.No control	100m ² ; 4(5mx5m) 3.6 kg MAP, 7.2 kg Lime; 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		10%- dead weeds,	40%	65%	40%	3.87 Trial	?	
				Germination rates: Maize- 78%, beans – 31%. Cowpeas did nto come up. Extremely weedy – crop growth restricted. Aslo field in wetland area and waterlogged in some parts.						
Mrs Nofezile Khambule 11 hh members, 2 employed, 4 grants, vegetable garden, 1 pig.		100m ² ; 4(5mx5m) 3.6 kg MAP, 7.2 kg Lime; Hand hoe onlyLayout: 50cmx50cm maize (basins and hand planters), 25cmx10cm beans. Roundup pre and at planting. Dual Gold and Decis Forte at planting		Weeded once, fields not well tended, but did harvest some maize, beans and cowpeas					??	
Mrs Majakobo Sabasaba SCG member- 6 hh members, 2 employed, vegetable garden, 3 sheep.	Control: 28.8x8m = 230m ² . 11 rows of maize nad 10rows of beans.	25x4.2m = 105m ² . 3.6 kg MAP, 7.2 kg Lime; Hand hoe only. 7 Rows of maize and 6 rows of beans.								

Mr OS Lephalo - 1 hh members, unemployed, 2 horses	Control: 44.5x29m= 1290m ² .Ploughed using a tractor.	29.5x5.5m=162m ² .6 kg MAP, 7.2 kg Lime; Hand hoe only. 10 Rows of maize.	No beans or cowpeas.	
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