





- Wt:

, Wg:



- Cn:



- PC:



- Ha:

## SLM



## SLM

## Technology

Location: Maketlele. North West Province

Technical knowledge required for field staff / advisors: moderate

Technical knowledge required for land users: moderate

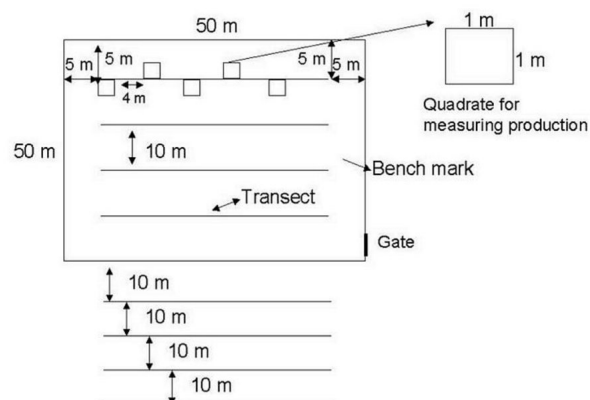
Main technical functions: control of raindrop splash, control of dispersed runoff: retain / trap, control of dispersed runoff: impede / retard, control of concentrated runoff: retain / trap, control of concentrated runoff: impede / retard, improvement of ground cover, increase of surface roughness, improvement of topsoil structure (compaction), increase in organic matter, increase of infiltration, increase of groundwater level / recharge of groundwater, reduction in wind speed, increase in soil fertility, improvement of soil structure

Secondary technical functions: control of concentrated runoff: drain / divert, water spreading, sediment retention / trapping, sediment harvesting

Change of land use type: Area divided into camps.

Layout change according to natural and human environment: Camps, benchmarks, fences constructed.

Other type of management: Rotational grazing.



Author: Anja Jansen van Vuuren

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- ( ) 1 USD = -0.8
- 3.60

Cost of transport depends on the fuel price. The sites are situated far from accommodation. Maintenance of fences and soil analysis.

1. Area divided into camps. (            /            : 6 months)
2. Identification and construction of benchmarks. (            /            : 1 month)
3. Initial survey. (            /            : 1 week)

					%
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			( )	( )	
Constructing benchmarks	persons/day/ha	133,0	3,2	425,6	
Fencing material	ha	1,0	914,64	914,64	
Transport (10-7km/l)	ha	1,0	67,07	67,07	
				<b>1'407.31</b>	
				-1'759.14	

1. Further surveys. ( / : 2 weeks / twice a year)
2. Data analysis. ( / : 3 months / after each survey)
3. Establishing a gradient. ( / : 2 weeks / once)
4. Maintenance of fencing. ( / : continued / when necessary)

			( )	( )	%
Maintenance and monitoring	persons/day/ha	10,0	3,2	32,0	
Paper bags	ha	1,0	8,05	8,05	
Data sheet	ha	1,0	1,0	1,0	
Transport (10-7km/l)	ha	1,0	129,27	129,27	
				<b>170.32</b>	
				-212.9	



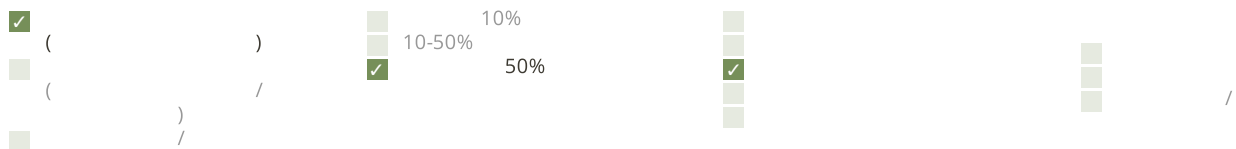
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<input type="checkbox"/>	1,501-2,000	<input type="checkbox"/>
<input type="checkbox"/>	2,001-3,000	<input type="checkbox"/>
<input type="checkbox"/>	3,001-4,000	<input type="checkbox"/>
<input type="checkbox"/>	> 4,000	<input type="checkbox"/>

<input type="checkbox"/>	(0-2%)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0-100	<input type="checkbox"/>
<input checked="" type="checkbox"/>	(3-5%)	<input type="checkbox"/>	<input type="checkbox"/>	101-500	<input type="checkbox"/>
<input type="checkbox"/>	(6-10%)	<input type="checkbox"/>	<input type="checkbox"/>	501-1,000	<input type="checkbox"/>
<input type="checkbox"/>	15%)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1,001-1,500
<input type="checkbox"/>	(16-30%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1,501-2,000
<input type="checkbox"/>	(31-60%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2,001-2,500
<input type="checkbox"/>	(>60%)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2,501-3,000
				<input type="checkbox"/>	3,001-4,000
				<input type="checkbox"/>	> 4,000

<input type="checkbox"/>	(0-20 )	<input type="checkbox"/>	( > 20 )	<input type="checkbox"/>	( > 3%)
<input type="checkbox"/>	(21-50 )	<input checked="" type="checkbox"/>	/ ( )	<input type="checkbox"/>	(1-3%)
<input checked="" type="checkbox"/>	(51-80 )	<input type="checkbox"/>	( , )	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/>	(81-120 )	<input type="checkbox"/>	( )	<input type="checkbox"/>	(<1%)
<input type="checkbox"/>	(> 120 )	<input type="checkbox"/>			

<input type="checkbox"/>	( )	<input type="checkbox"/>	( )	<input type="checkbox"/>	?
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SLM

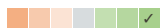


### Inside benchmark

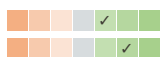
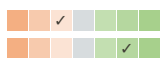
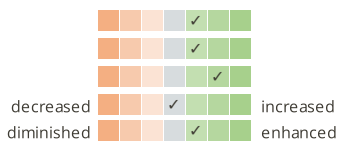


Nobody wanted to help with surveys

SLM /



soil fertility  
biodiversity





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- ☐ 1-10%
- ☐ 11-50%
- ☒ > 50%

- ☒ 0-10%
- ☐ 11-50%
- ☐ 51-90%
- ☐ 91-100%

- ☐ / ?
- ☐ ?
- ☐ / ?
- ☐ ( )



- ☐ : / / :
- Improved rangelands.
- How can they be sustained / enhanced? Better cattle.
- ☐ :
- The committed ADC-manager
- How can they be sustained / enhanced? Meetings
- The maintenance of benchmarks as examples.
- Cattle must be reduced Improve rangeland - larger carrying capacity
- / / :
- Community participation Give more information



Editors			
Anja Jansen van Vuuren		David Streiff	
		Alexandra Gavilano	
: 27	2011	: 21	2019
Anja Jansen van Vuuren -	SLM		
Klaus Kellner -	SLM		
Louisa Elisabeth Johanna Buys -	SLM		

[https://qcat.wocat.net/km/wocat/technologies/view/technologies\\_1382/](https://qcat.wocat.net/km/wocat/technologies/view/technologies_1382/)

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Approaches: Communal stakeholders [https://qcat.wocat.net/km/wocat/approaches/view/approaches\\_2339/](https://qcat.wocat.net/km/wocat/approaches/view/approaches_2339/)

- Department of Agriculture of Zambia (Department of Agriculture) -
- Potchefstroom Universiteit vir CHO (Potchefstroom Universiteit vir CHO) -
- 

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