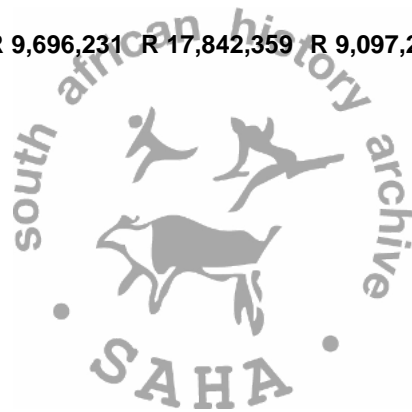
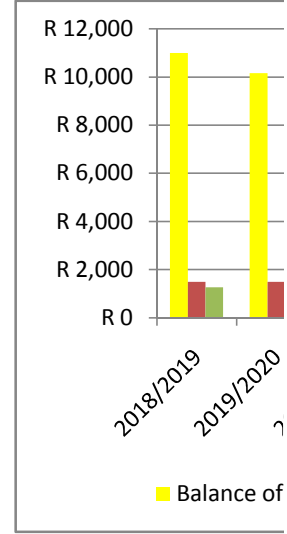
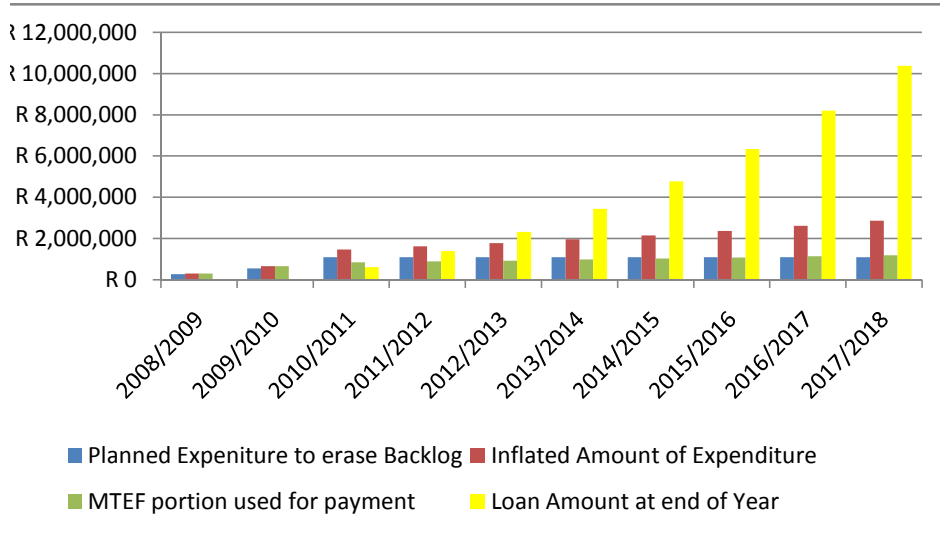


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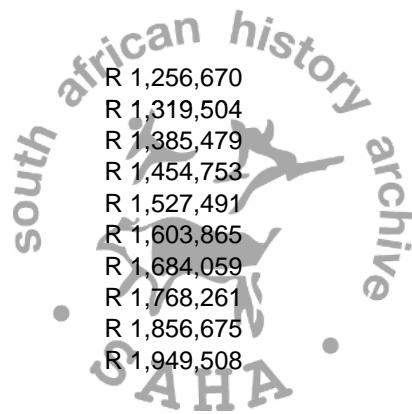
Financial Year	Planned Expeniture to erase Backlog	Inflated Amount of Expenditure	MTEF portion used for payment	Loan Amount at end of Year
2008/2009	R 277,035	R 304,739	R 304,739	R 0
2009/2010	R 554,070	R 670,425	R 670,425	R 0
2010/2011	R 1,108,141	R 1,474,935	R 850,564	R 624,371
2011/2012	R 1,108,141	R 1,622,429	R 893,092	R 1,391,170
2012/2013	R 1,108,141	R 1,784,672	R 937,747	R 2,321,565
2013/2014	R 1,108,141	R 1,963,139	R 984,634	R 3,439,364
2014/2015	R 1,108,141	R 2,159,453	R 1,033,866	R 4,771,312
2015/2016	R 1,108,141	R 2,375,398	R 1,085,559	R 6,347,430
2016/2017	R 1,108,141	R 2,612,938	R 1,139,837	R 8,201,377
2017/2018	R 1,108,141	R 2,874,232	R 1,196,829	R 10,370,862

			Financial Year	Balance of Loan
		R 9,696,231		
		R 17,842,359		
		R 9,097,292		
2018	2019	2018/2019	2018/2019	R 10,993
2019	2020	2019/2020	2019/2020	R 10,159
2020	2021	2020/2021	2020/2021	R 9,275
2021	2022	2021/2022	2021/2022	R 8,338
2022	2023	2022/2023	2022/2023	R 7,345
2023	2024	2023/2024	2023/2024	R 6,292
2024	2025	2024/2025	2024/2025	R 5,176
2025	2026	2025/2026	2025/2026	R 3,992
2026	2027	2026/2027	2026/2027	R 2,738
2027	2028	2027/2028	2027/2028	R 1,409



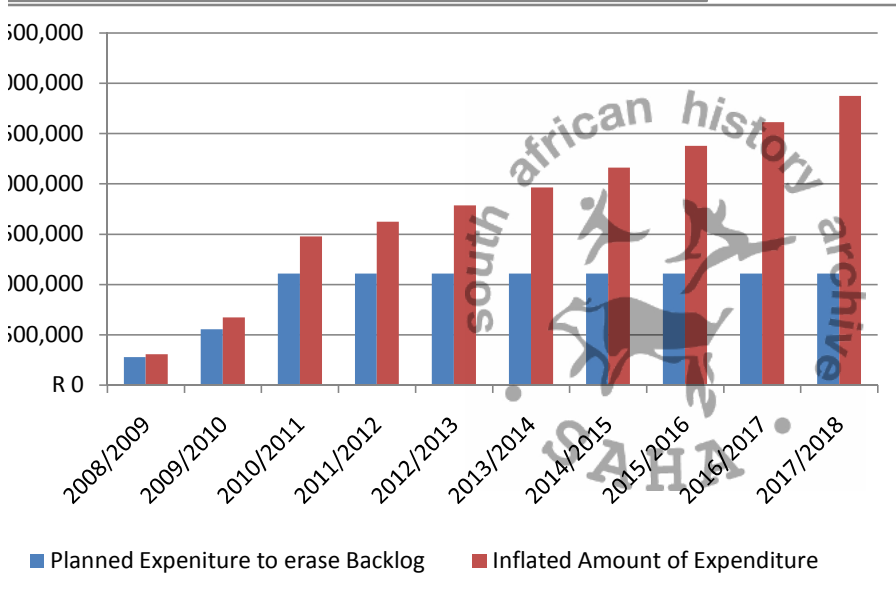
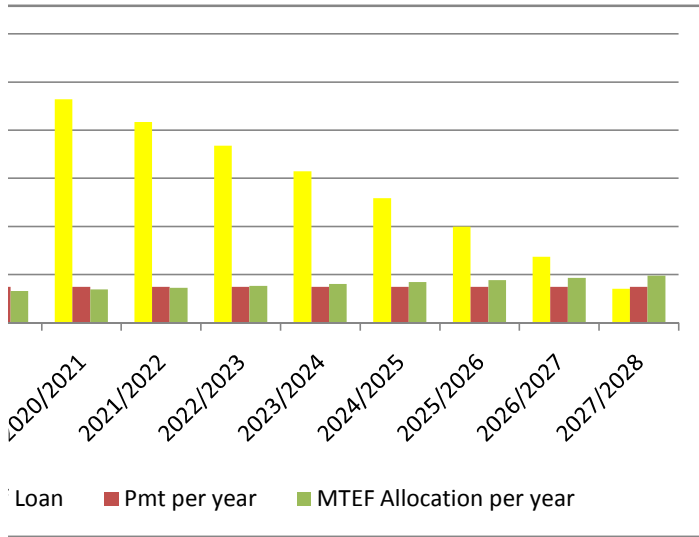


Pmt per year	MTEF Allocation per year
R 1,494	R 1,257
R 1,494	R 1,320
R 1,494	R 1,385
R 1,494	R 1,455
R 1,494	R 1,527
R 1,494	R 1,604
R 1,494	R 1,684
R 1,494	R 1,768
R 1,494	R 1,857
R 1,494	R 1,950



R 1,256,670
R 1,319,504
R 1,385,479
R 1,454,753
R 1,527,491
R 1,603,865
R 1,684,059
R 1,768,261
R 1,856,675
R 1,949,508

R 3,5
R 3,0
R 2,5
R 2,0
R 1,5
R 1,0
R 5

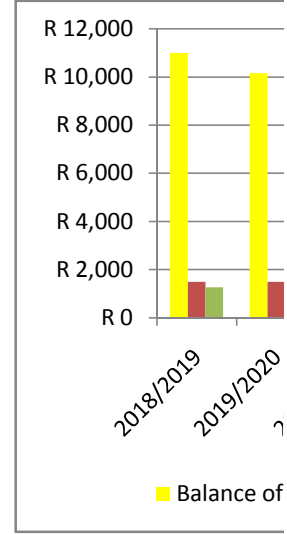
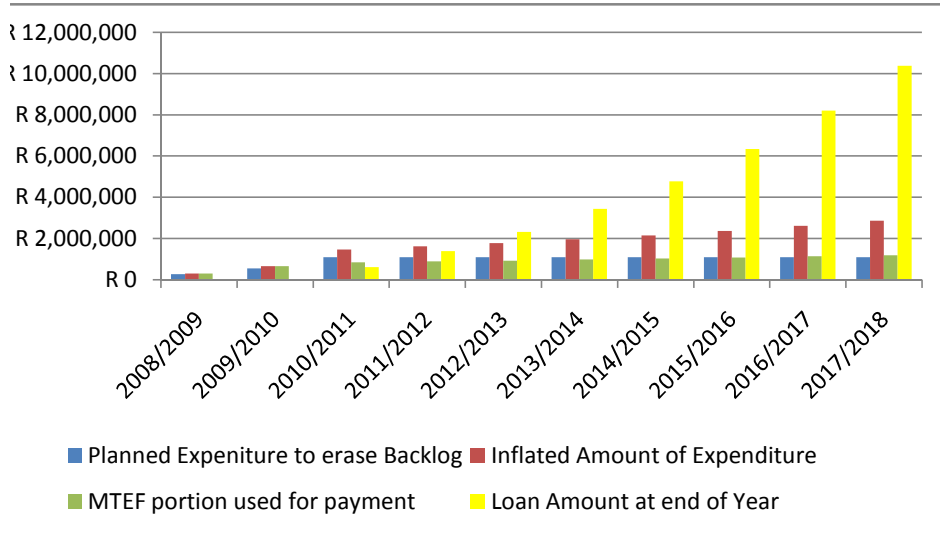


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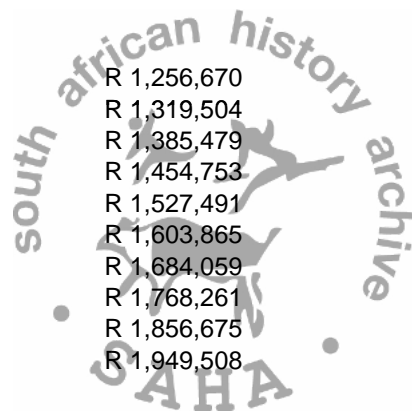
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2009/2010	R 554,070	R 670,425	R 670,425	R 0
2010/2011	R 1,108,141	R 1,474,935	R 850,564	R 624,371
2011/2012	R 1,108,141	R 1,622,429	R 893,092	R 1,391,170
2012/2013	R 1,108,141	R 1,784,672	R 937,747	R 2,321,565
2013/2014	R 1,108,141	R 1,963,139	R 984,634	R 3,439,364
2014/2015	R 1,108,141	R 2,159,453	R 1,033,866	R 4,771,312
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2016/2017	R 1,108,141	R 2,612,938	R 1,139,837	R 8,201,377
2017/2018	R 1,108,141	R 2,874,232	R 1,196,829	R 10,370,862

			Financial Year	Balance of Loan
		R 9,696,231		
		R 17,842,359		
		R 9,097,292		
2018	2019	2018/2019	2018/2019	R 10,993
2019	2020	2019/2020	2019/2020	R 10,159
2020	2021	2020/2021	2020/2021	R 9,275
2021	2022	2021/2022	2021/2022	R 8,338
2022	2023	2022/2023	2022/2023	R 7,345
2023	2024	2023/2024	2023/2024	R 6,292
2024	2025	2024/2025	2024/2025	R 5,176
2025	2026	2025/2026	2025/2026	R 3,992
2026	2027	2026/2027	2026/2027	R 2,738
2027	2028	2027/2028	2027/2028	R 1,409



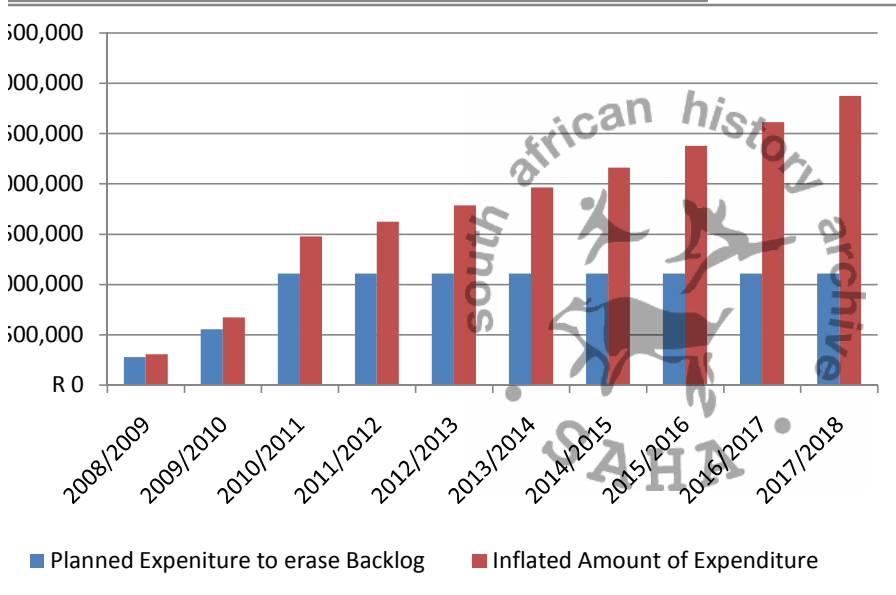
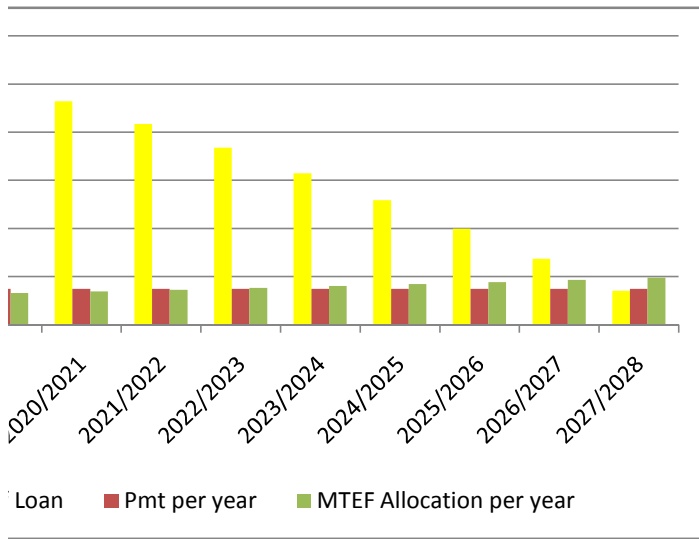


Pmt per year	MTEF Allocation per year
R 1,494	R 1,257
R 1,494	R 1,320
R 1,494	R 1,385
R 1,494	R 1,455
R 1,494	R 1,527
R 1,494	R 1,604
R 1,494	R 1,684
R 1,494	R 1,768
R 1,494	R 1,857
R 1,494	R 1,950



R 1,256,670
R 1,319,504
R 1,385,479
R 1,454,753
R 1,527,491
R 1,603,865
R 1,684,059
R 1,768,261
R 1,856,675
R 1,949,508

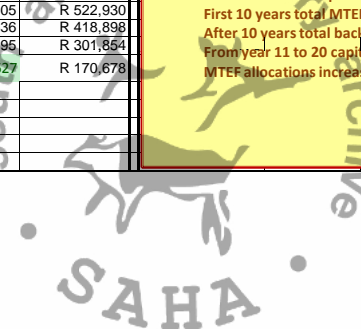
R 3,5
R 3,0
R 2,5
R 2,0
R 1,5
R 1,0
R 5



Financial Year	Bank Interest	n	MTEF Allocation	Additional Grant	Total Funds Available	Funds used	Interest on Outstanding Amount	Cummulative Loan amount	Control	Backlog Amount 2007 Rands	Funds applied in 2007 Rands	Backlog Balance [2007 Rands]	Future Value of Capital per Fin Year	MTEF Allocations					
						R 17,842,359							$FV = PV(1+r)^n$ r = 10%	$N_2 = N_1(1+q)$ 5% = q					
										R 9,696,231	R 277,035	R 9,419,196	R 304,739						
2008/2009	6.0%	1	R 304,739		R 304,739	R 304,739	R 0	R 304,739	R 0	R 9,696,231	R 277,035	R 9,419,196	R 304,739	R 304,739			43%	R 707,045	
2009/2010	6.0%	2	R 670,425		R 670,425	R 670,425		R 975,164	R 58,510	R 9,419,196	R 554,070	R 8,865,126	R 670,425	R 670,425			89%	R 752,823	1.065
2010/2011	6.0%	3	R 850,564		R 850,564	R 1,474,935		R 2,450,099	R 147,006	R 8,865,126	R 1,108,141	R 7,756,985	R 1,474,935	R 850,564	2		100%	R 850,564	1.130
2011/2012	6.0%	4	R 893,092		R 893,092	R 1,622,429		R 4,072,528	R 244,352	R 7,756,985	R 1,108,141	R 6,648,844	R 1,622,429	R 893,092				R 913,663	1.074
2012/2013	6.0%	5	R 937,747		R 937,747	R 1,784,672		R 5,867,200	R 351,432	R 6,648,844	R 1,108,141	R 5,540,704	R 1,784,672	R 937,747				R 985,423	1.079
2013/2014	6.0%	6	R 984,634		R 984,634	R 1,963,139		R 7,820,339	R 469,220	R 5,540,704	R 1,108,141	R 4,432,563	R 1,963,139	R 984,634				R 1,057,182	1.073
2014/2015	6.0%	7	R 1,033,866		R 1,033,866	R 2,159,453		R 9,979,791	R 598,787	R 4,432,563	R 1,108,141	R 3,324,422	R 2,159,453	R 1,033,866				R 1,128,942	1.068
2015/2016	6.0%	8	R 1,085,559		R 1,085,559	R 2,375,398		R 12,355,189	R 741,311	R 3,324,422	R 1,108,141	R 2,216,281	R 2,375,398	R 1,085,559				R 1,200,701	1.064
2016/2017	6.0%	9	R 1,139,837		R 1,139,837	R 2,612,938		R 14,968,127	R 898,088	R 2,216,281	R 1,108,141	R 1,108,141	R 2,612,938	R 1,139,837				R 1,272,461	1.060
2017/2018	6.0%	10	R 1,196,829		R 1,196,829	R 2,874,232		R 17,842,359	R 1,070,542	R 1,108,141	R 1,108,141	R 0	R 2,874,232	R 1,196,829				R 1,344,220	1.056
2018/2019	6.0%	11	R 1,256,670		R 1,256,670		R 1,070,542	R 17,656,230	R 1,059,374									R 1,415,980	1.053
2019/2020	6.0%	12	R 1,319,504		R 1,319,504		R 1,059,374	R 17,396,100	R 1,043,766									R 1,487,739	1.051
2020/2021	6.0%	13	R 1,385,479		R 1,385,479		R 1,043,766	R 17,054,387	R 1,023,263									R 1,559,499	1.048
2021/2022	6.0%	14	R 1,454,753		R 1,454,753		R 1,023,263	R 16,622,897	R 997,374									R 1,631,258	1.046
2022/2023	6.0%	15	R 1,527,491		R 1,527,491		R 997,374	R 16,092,780	R 965,567									R 1,703,018	1.044
2023/2024	6.0%	16	R 1,603,865		R 1,603,865		R 965,567	R 15,454,481	R 927,269									R 1,774,777	1.042
2024/2025	6.0%	17	R 1,684,059		R 1,684,059		R 927,269	R 14,697,692	R 881,861									R 1,846,537	1.040
2025/2026	6.0%	18	R 1,768,261		R 1,768,261		R 881,861	R 13,811,292	R 828,678									R 1,918,296	1.039
2026/2027	6.0%	19	R 1,856,675		R 1,856,675		R 828,678	R 12,783,295	R 766,998									R 1,990,056	1.037
2027/2028	6.0%	20	R 1,949,508		R 1,949,508		R 766,998	R 11,600,784	R 696,047									R 2,061,815	1.036
2028/2029	6.0%	21	R 2,046,984		R 2,046,984		R 696,047	R 10,249,847	R 614,991									R 2,133,575	1.035
2029/2030	6.0%	22	R 2,149,333		R 2,149,333		R 614,991	R 8,715,505	R 522,930									R 2,205,334	1.034
2030/2031	6.0%	23	R 2,256,800		R 2,256,800		R 522,930	R 6,981,636	R 418,898									R 2,277,094	1.033
2031/2032	6.0%	24	R 2,369,639		R 2,369,639		R 418,898	R 5,030,895	R 301,854										
2032/2033	6.0%	25	R 2,488,121		R 2,488,121		R 301,854	R 2,844,627	R 170,678										
2033/2034	6.0%	26	R 2,612,528																
2034/2035	6.0%	27	R 2,743,154																
2035/2036	6.0%	28	R 2,880,312																
2036/2037	6.0%	29	R 3,024,327																
2037/2038	6.0%	30	R 3,175,544																

Principles involved:

- MTEF allocations are used as payments for a loan.
- First 2 Years used to build capacity and wait for 2010 spike.
- Establish credible PPP to ensure quality AND CAPACITY BUILDING.
- After 2010 "free capacity" in building sector utilised.
- First 10 years total MTEF allocations used as down payments.
- After 10 years total backlog should be eliminated.
- From year 11 to 20 capital is repaid.
- MTEF allocations increased by 5% per annum.



PV	R 10,993
Int	6.00%
N	10
Pmt	R -1,494

	Lening	Rente	Pmt	Balans
1	R 10,993	R 660	R -1,494	R 10,159.08
2	R 10,159	R 610	R -1,494	R 9,275
3	R 9,275	R 557	R -1,494	R 8,338
4	R 8,338	R 500	R -1,494	R 7,345
5	R 7,345	R 441	R -1,494	R 6,292
6	R 6,292	R 377	R -1,494	R 5,176
7	R 5,176	R 311	R -1,494	R 3,992
8	R 3,992	R 240	R -1,494	R 2,738
9	R 2,738	R 164	R -1,494	R 1,409
10	R 1,409	R 85	R -1,494	R 0
11	R 0	R 0		R 0
12	R 0	R 0		R 0
13	R 0	R 0		R 0
14	R 0	R 0		R 0
15	R 0	R 0		R 0
		R 3,943.00		



Kap delging

-R 834	-0.13587
-R 884	
-R 937	
-R 993	
-R 1,053	
-R 1,116	
-R 1,183	
-R 1,254	
-R 1,329	
-R 1,409	
R 0	
R 0	
R 0	
R 0	
R 0	
-R 10,993.12	



R 9,097,292

**MTEF
Allocation**

Additional
Grant

PMT 0%

6.00%	1	R 304,739	
6.00%	2	R 670,425	
6.00%	3	R 850,564	R 0
6.00%	4	R 893,092	R 0
6.00%	5	R 937,747	R 0
6.00%	6	R 984,634	R 0
6.00%	7	R 1,033,866	R 0
6.00%	8	R 1,085,559	R 0
6.00%	9	R 1,139,837	R 0
6.00%	10	R 1,196,829	R 0

Financing Cost for Central Government					
% Additional Grant	MTEF Allocations R(000) R 9,097	Additional Grant R(000)	Loan Repayment R(000)	Total Cashflow R(000)	
0%	R 9,097	R 0	R 14,936	R 24,033	
25%	R 9,097	R 2,031	R 11,372	R 22,499	94%
50%	R 9,097	R 4,061	R 7,807	R 20,966	87%
70%	R 9,097	R 5,685	R 4,956	R 19,738	82%
					100%

R 20,090,406		r = 10%			
		R 17,842,359		R 9,696,231	
Loan	Outstanding	Interest	Needed	2007 Rands	
R 304,739	R 0	R 0	R 304,739	R 277,035	
R 670,425	R 0	R 0	R 670,425	R 554,070	
R 1,474,935	R 624,371	R 37,462	R 1,474,935	R 1,108,141	
R 2,284,262	R 1,391,170	R 83,470	R 1,622,429	R 1,108,141	
R 3,259,312	R 2,321,565	R 139,294	R 1,784,672	R 1,108,141	
R 4,423,998	R 3,439,364	R 206,362	R 1,963,139	R 1,108,141	
R 5,805,178	R 4,771,312	R 286,279	R 2,159,453	R 1,108,141	
R 7,432,989	R 6,347,430	R 380,846	R 2,375,398	R 1,108,141	
R 9,341,214	R 8,201,377	R 492,083	R 2,612,938	R 1,108,141	
R 11,567,691	R 10,370,862	R 622,252	R 2,874,232	R 1,108,141	

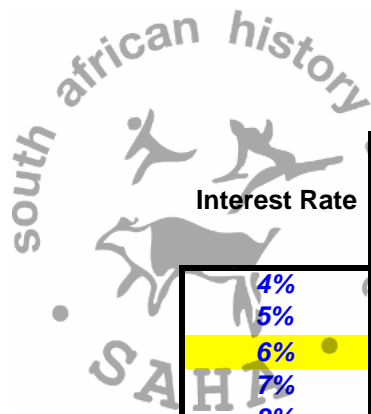
R 10,993,114

R -1,494

R 2,248,047 Pre Loan Interest

R 3,943,003 Loan Interest

R 6,191,050 Total interest



Interest Rate	Total Loan	Total Interest
	R 10,993,114	R 6,191,050
4%	R 10,181,858	R 5,088,818
5%	R 10,579,212	R 5,628,691
6%	R 10,993,114	R 6,191,050
7%	R 11,424,247	R 6,776,827
8%	R 11,873,324	R 7,386,973
9%	R 12,341,079	R 8,022,507
10%	R 12,828,279	R 8,684,455
11%	R 13,335,713	R 9,373,892
12%	R 13,864,202	R 10,091,940

	Interest on Loan	Interest Shortfall if negative	Possible Loan if only interest is covered
	R 0	R 304,739	R 5,078,983
2	R 0	R 670,425	R 11,173,750
2	R 37,462	R 813,102	R 14,176,067
1	R 83,470	R 809,622	R 14,884,870
1	R 139,294	R 798,453	R 15,629,114
1	R 206,362	R 778,272	R 16,410,569
1	R 286,279	R 747,587	R 17,231,098
1	R 380,846	R 704,713	R 18,092,653
1	R 492,083	R 647,755	R 18,997,285
1	R 622,252	R 574,577	R 19,947,149

Difference between Loan and Possible Loan = -R 8,954,036

Pay Back Pmt	Total Cash Flow	
R -1,493,612	R 24,033,411	
R -1,383,388	R 22,931,175	95%
R -1,437,376	R 23,471,052	98%
R -1,493,612	R 24,033,411	100%
R -1,552,189	R 24,619,184	102%
R -1,613,204	R 25,229,335	105%
R -1,676,757	R 25,864,865	108%
R -1,742,952	R 26,526,812	110%
R -1,811,896	R 27,216,253	113%
R -1,883,701	R 27,934,300	116%

