

Mpumalanga Provincial Government



Department of Agriculture and Land Administration

Integrated Resource Information Report

Thembisile

06 May 2005

**RESOURCE MANAGEMENT AND LAND USE PLANNING
PRIVATE BAG X9019, ERMELO, 2350 TEL: (017) 8115811 FAX: (017) 810 1223**

Thembisile

Summary

Thembisile is situated in the western part of Mpumalanga on the highveld. KwaMhlanga is the major town in the area. The Northern Highveld Regional Office of DACE is located at KwaMhlanga. Moderate summer and cold winters characterize the climate of the area. The annual rainfall of the area is between 500 and 750 mm. The area of 2 538 km² is covered by grassland. Maize and cattle farming are the main economic activity of the district. Industrial development is at Ekangala.

GENERAL INFORMATION

Common Name(s)	KwaMhlanga / Mkobola
Area	253,759.0 ha
Coordinates	28°36'35"E 25°13'48"S 29°21'35"E 25°45'00"S
District Municipality	Nkangala District Municipality
Region	Nkangala Region

Towns

Name

Kwaggafontein
KwaMhlanga
Sybrandskraal
Verena
Vlaklaagte

Neighbouring Municipalities

Name

Dr. J.S. Moroka
Emalahleni
Groblersdal
Steve Tshwete

Natural Resources

Climate

Rainfall

Rainfall Range 500 to 750 mm per year

Temperature

Temperature Zone 57/14

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	20	17.5	13.8	10	7.4	13.9	17.6	18.9
Tn	17.6	14.8	10.1	5.6	2.7	10.2	14.9	16.2
Td	22.4	20.2	17.5	14.4	12.1	17.6	20.3	21.6
Tmax	23.8	21.7	19.6	16.9	14.8	19.7	21.8	23.2
Tmin	16.2	13.3	8	3.1	0	8.1	13.7	14.7

Temperature Zone 77/25

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	23.5	20.9	17.5	14.2	12	17.6	21	22.2
Tn	17.8	15.4	12.4	9.5	7.2	12.5	15.5	16.9
Td	29.2	26.4	22.6	18.9	16.8	22.7	26.5	27.5
Tmax	32.5	29.5	25.5	21.6	19.5	25.6	29.6	30.5
Tmin	14.5	12.3	9.5	6.8	4.5	9.6	12.4	13.9

Temperature Zone 77/35

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
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T	23.6	21.8	18.9	16	14.3	18.9	21.9	22.6
Tn	17.6	15.8	12.7	9.4	7.5	12.8	15.9	16.8
Td	29.6	27.8	25.1	22.6	21.1	25	27.9	28.4
Tmax	33	31.2	28.6	26.4	25	28.5	31.3	31.4
Tmin	14.2	12.4	9.2	5.6	3.6	9.5	12.4	13.5

T - Average Temperature

Tn - Average Night Temperature

Td - Average Daily Temperature

Tmax - Average Maximum Temperature

Tmin - Average Minimum Temperature

Soils

Land Types

Land Type	Area (ha)	%
Dystrophic and/or mesotrophic; red soils not widespread (Bb)	57,796.4	22.8
Dystrophic and/or mesotrophic; red soils widespread (Ba)	64,745.6	25.5
Eutrophic; red soils not widespread (Bd)	2,929.3	1.2
Eutrophic; red soils widespread (Bc)	5,817.1	2.3
Exposed rock areas with miscellaneous soils (Ib)	78,348.9	30.9
Pedologically young soils (lime rare or absent) (Fa)	39,015.2	15.4
Vertic, melanic, and/or red structured diagnostic horizons (Ea)	58.5	0.0

Soil Clay Contents

ClayClass	Area (ha)	%
Clay	235.1	0.1
Clayey	3,380.7	1.3
Loam	34,411.1	13.6
Loam & Clay	9,057.9	3.6
Loamy Sand	99,384.6	39.2
Non-perennial pans	180.8	0.1

Sandy	20,114.8	7.9
Sandy Loam	55,197.3	21.8
Very Sandy	30,765.9	12.1
Waterbodies	1,029.7	0.4

Soil Depth

Soil Depth Class	Area (ha)	%
Deep	46,342.4	18.3
Medium Deep	8,583.8	3.4
Medium Shallow	62,830.9	24.8
Non-perennial pans	180.8	0.1
Shallow	35,401.3	14.0
Steep Slopes	29,553.3	11.6
Very Deep	7,143.4	2.8
Very Shallow	61,896.8	24.4
Very Steep Slopes	795.5	0.3
Waterbodies	1,029.7	0.4

Soil Form Association

Soil Form Association Class	Area (ha)	%
Ar, My, Va	84.3	0.0
Av, Gc, We, Cv	10,156.8	4.0
Hu (30%), Sd (30%)	9.7	0.0
Hu, Av, Cv, Gc	30,126.5	11.9
Hu, Sd, Sw, Gs	4,001.6	1.6
Hu-dominant	5,293.2	2.1
Lithosols, Cv, Gc, Hu	55,969.3	22.1
Lithosols, Cv, Va	65,985.3	26.0

Lithosols, Hu, Cv, Gc	65,271.7	25.7
Lithosols, Hu, Cv, Sd, Sw	14,731.9	5.8
Non-perennial pans	180.8	0.1
Rg, Ar	894.1	0.4
Sd, Bo, My, Ar, Hu	23.1	0.0
Waterbodies	1,029.7	0.4

Topography

Elevation

Range (m)	Area (ha)	%
1001 - 1100	5,517	2.2
1101 - 1200	9,654	3.8
1201 - 1300	26,203	10.3
1301 - 1400	106,193	41.8
1401 - 1500	106,193	41.8

Slope

Class	Area (ha)	%
Level (0 - 3%)	80,134	31.6
Moderate (4 - 15%)	138,009	54.4
Steep (16 - 25%)	17,808	7.
Very Steep (25+%)	17,808	7.

Vegetation

Acocks Veld Type (1975)

Acocks Veld Type	Area (ha)	%
Bankenveld (61)	27,136	10.7

Mixed Bushveld (18)	61,469	24.2
Sourish Mixed Bushveld (19)	165,153	65.1

Water Resources

Dams

Dam	Primary Drainage Region	River	Capacity
Loskop	Olifants		362.0

Drainage Regions

Drainage Region / Catchment				
Primary	Secondary	Tertiary	Area	%
Elands	Elands	Elands River	69,070.8	27.2
Elands	Elands	Moses River	123,162.1	48.5
Olifants	Olifants	Klein Olifants River	1.3	0.0
Olifants	Olifants	Upper Olifants River	15,913.8	6.3
Wilge	Wilge	Wilge River	45,609.8	18.0

Land Utilisation

Land Cover (1995)

Class	Area (ha)	%
Cultivated: temporary - commercial dryland	24,354.1	9.6
Cultivated: temporary - commercial irrigated	1,259.4	0.5
Cultivated: temporary - semi-commercial/subsistence dryland	25.0	0.0
Degraded: forest and woodland	2,527.1	1.0
Forest and Woodland	57,819.7	22.8
Forest plantations	1,837.1	0.7
Mines & quarries	630.8	0.2
Thicket & bushland (etc)	12,915.7	5.1
Unimproved grassland	140,754.7	55.5
Urban / built-up land: industrial / transport	44.6	0.0
Urban / built-up land: residential	10,529.8	4.1
Waterbodies	1,059.9	0.4

Silos

Co-operatives

Conservation Areas

Name	Authority	Area (ha)
Loskop Dam Nature Reserve	Mpumalanga Parks Board	
Mabusa Nature Reserve	DACE	14883
SS Skosana Nature Reserve	DACE	1817

Demographic Information

Population Distribution and Dynamics

Population Group (Dominant)

	2001	1996
African	258,266	241,669
Coloured	329	325
Indian	26	52
White	252	209
Total	258,873	243,258

Home Language (Dominant)

	2001	1996
Afrikaans	535	462
English	887	108
IsiNdebele	148,423	138,599
IsiXhosa	3,259	3,364
IsiZulu	36,895	38,770
Sepedi	32,249	30,349
Sesotho	12,143	8,001
Setswana	4,892	3,362
SiSwati	11,082	11,542
Tshivenda	686	421
Xitsonga	7,000	6,352
Other	822	500

Place of Birth

	2001	1996
RSA	257,267	

SADC (Excluding RSA)	1,551
RestAfrica	28
Europe	8
Asia	13
North America	5
Central/South America	0
Australia/New Zealand	0

Citizenship

	2001	1996
RSA	258,110	242,868
SADC (Excluding RSA)	737	247
Rest of Africa	18	2
Europe	2	1
Asia	13	0
North America	4	1
Central/South America	0	0
Australia/New Zealand	0	2

Demographic Characteristics

Age

	2001	1996
Age 0 - 4	29,613	31,619
Age 5 - 14	66,623	64,013
Age 15 - 34	95,937	89,420
Age 35 - 64	54,911	45,979
Age 65+	11,787	10,645

Gender

	Males		Females	
	2001	1996	2001	
0 to 4	14,712	15,481	0 to 4	14,901
5 to 14	33,020	31,548	5 to 14	33,603
15 to 34	44,745	41,653	15 to 34	51,192
35 to 64	23,336	20,258	35 to 64	31,575
Over 65	4,114	4,037	Over 65	7,673
Total	119,927	112,977	Total	138,944

Persons with Disabilities

	2001	1996
Sight	5,670	12,566
Hearing	2,826	3,764
Communication	599	
Physical	4,057	4,280
Intellectual	1,448	1,523
Emotional	2,498	
Multiple	2,298	1,185

Socio-Economic

Highest Level of Education

	2001	1996
None	43,728	39,519
Some Primary	19,376	17,933
Complete Primary	7,116	8,186
Secondary	33,437	31,950
Grade12	20,875	13,918
Higher	4,435	2,732

Persons Attending Education Institutions

Institution	2001	1996
None	29,526	
Pre-school	3,911	
School	91,317	
College	503	
Technikon	512	
University	190	
Adult Education Centre	86	
Other	195	

Economic Active Population

	2001	1996
Employed	34,123	35,780
Unemployed	35,777	31,563
No Economical Active	81,814	
Total Labour Force	69,900	

Industry

	2001	1996
Agriculture/Forestry/Fishing	1,056	1,332
Community/Social/Personal	6,023	4,442
Construction	4,995	6,127
Electricity/Gas/Water	234	740
Financial/Insurance/Real Estate/Business	1,705	1,283
Manufacturing	2,859	2,410
Mining/Quarrying	341	729
Other	10	

Private Households	7,714	7,956
Transport/Storage/Communication	1,967	2,430
Undetermined	2,407	4,555
Wholesale/Retail	4,808	4,389

Occupation

	2001	1996
Clerks	2,579	1,543
Craft/Trade	6,827	9,783
Elementary	11,668	10,733
Legislators/Senior Officials	820	1,014
Unspecified/Not Economically Classified	0	
Plant/Machine Operators	3,531	3,691
Professionals	1,066	2,097
Service Workers	3,096	2,994
Agricultural/Fishery	539	
Technicians	2,259	1,045
Undetermined	1,737	

Individual Monthly Income

	2001	1996
None	193,746	177,193
R 1 to R 400	17,976	4,517
R 401 to R 800	25,892	30,525
R 801 to R 1,600	12,366	6,847
R 1,601 to R 3,200	5,382	4,458
R 3,201 to R 6,400	2,319	3,632
R 6,401 to R 12,800	877	392
R 12,801 to R 25,600	146	108

R 25,601 to R 51,200	54	75
R 51,201 to R 102,400	53	31
R 102,401 to R 204,800	46	
R 204,801+	16	

Travel to work

	2001	1996
Bicycle	388	
Bus	19,954	
Car Driver	2,710	
Car Passenger	2,484	
Minibus/Taxi	6,143	
Motorcycle	241	
Train	253	
NA	128,950	
Foot	97,484	
Other	268	

Households and Housing

Household Size (Average)

Household Size	2001	1996
1	8,292	
2	7,602	
3	8,447	
4	8,903	
5	7,677	
6	5,847	
7	4,081	
8	2,925	

9	1,749
10+	2,684

Dwelling Type (Dominant)

	2001	1996
Formal	45,949	29,819
Informal	8,484	10,268
Traditional	3,680	6,836
Other	94	117

Rooms per Household (Average)

Room(s)	2001	1996
1	3,962	3,582
2	7,753	6,901
3	9,459	8,228
4	10,568	9,447
5	8,751	7,219
6	7,018	5,568
7	4,594	3,109
8	2,827	1,808
9	1,516	918
10 +	1,760	705

Household Income

	2001	1996
None	17,388	7,712
R 1 to R 4,800	5,589	5,344
R 4,801 to R 9,600	12,308	9,193

R 9,601 to R 19,200	11,501	13,029
R 19,201 to R 38,400	7,321	6,249
R 38,401 to R 76,800	3,029	1,787
R 76,801 to R 153,600	1,115	740
R 153,601 to R 307,200	373	267
R 307,201 to R 614,400	77	42
R 614,401 to R 1,228,800	26	
R 1,228,801 to R 2,457,600	53	
R 2,457,600+	21	

Energy Source for Cooking (Dominant)

	2001	1996
Electricity	22,618	
Gas	715	
Paraffin	12,317	
Wood	3,321	
Coal	18,713	
Animal Dung	228	
Solar	168	
Other	128	

Energy Source for Lighting (Dominant)

	2001	1996
Electricity	51,489	39,617
Gas	156	308
Paraffin	315	522
Candles	6,025	6,928
Solar	53	
Other	168	0

Access to Piped Water (% Households)

	2001	1996
Dwelling	2,857	7,656
Inside Yard	38,881	24,060
Communal Stand	5,021	10,655
Communal Stand 200m+	6,918	
Borehole	247	991
Spring	44	831
Rain Tank	227	2,963
Dam/Pool/Stagnant Water	167	
River/Stream	400	
Water Vendor	309	
Other	3,136	314

Toilet Facilities (% Households)

	2001	1996
Flush Toilet	3,055	2,498
Flush Septic Tank	592	
Chemical Toilet	638	
VIP	4,729	
Pit Latrine	47,557	44,046
Bucket Latrine	207	158
None	1,429	835

Telephone Facilities (% Households)

	2001	1996
Telephone and Cellphone	2,666	
Telephone	3,332	1,504
Cellphone	16,163	

Neighbour	1,806	1,927
Public Telephone	31,868	32,732
Other Nearby	920	3,095
Other Not Nearby	630	4,555
No Access	823	3,682

Refuse Removal (% Households)

	2001	1996
Municipal Weekly	2,134	3,343
Municipal Other	270	1,902
Communal Dump	1,640	1,750
Own Dump	44,038	35,589
No Disposal	10,124	4,509

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