

# **Mpumalanga Provincial Government**



## **Department of Agriculture and Land Administration**

### **Integrated Resource Information Report**

#### **Groblersdal**

06 May 2005

---

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

# Groblersdal

## Summary

Groblersdal is situated in the north-western part of Mpumalanga on the transition between the highveld and the bushveld. Major towns in the area are Groblersdal, Dennilton and Roosenekal. Warm summers and moderate winters characterize the climate of the area. The annual rainfall, which falls mainly during summer, varies between 500 and 800 mm. The area of 3 136 km<sup>2</sup> is covered mainly by savanna, with small patches of grassland. The Loskop Dam Irrigation Scheme south of Groblersdal is an important agricultural production area. Maize, citrus, grapes, cotton, tobacco, wheat, groundnuts, lucern and vegetables are produced. The dry northern part of the area is mainly utilized for beef cattle and game farming.

## GENERAL INFORMATION

Common Name(s)	Groblersdal / Moutse East/Mdutjana
Area	313,590.0 ha
Coordinates	29°1'48"E 24°55'12"S 30°0'36"E 25°25'47"S
District Municipality	Sekhukhune Cross Boundary District Municipality
Region	Nkangala Region

## Towns

### Name

---

Groblersdal  
Kgobokwane  
Matlala  
Moteti  
Ntwane

---

## Neighbouring Municipalities

### Name

---

Dr. J.S. Moroka  
Emakhazeni  
Marble Hall  
Steve Tshwete

Thaba Chweu  
Thembisile  
Tubatse

---

## Natural Resources

### Climate

#### Rainfall

Rainfall Range                    500 to 800 mm per year

#### Temperature

Temperature Zone    46/14

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	17.3	16.2	13.4	9.5	7.4	11.3	14.9	16.3
Tn	12.8	11.7	8.6	4.7	2.8	6.7	10.2	11.8
Td	21.8	20.7	18.2	14.3	12	15.9	19.6	20.8
Tmax	24.4	23.3	20.9	17	14.6	22.3	22.3	23.4
Tmin	10.2	9.1	5.8	2	1.7	4.1	7.5	9.2

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    57/25

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
--	-----	-----	-----	-----	-----	-----	-----	-----

T	20	19.2	16.9	13.8	11.9	15.7	18	19.3
Tn	17.6	16.5	13.4	9.5	7.2	11.5	15.2	16.6
Td	22.4	21.9	26.4	18.1	16.6	19.9	26.8	22
Tmax	23.8	23.4	22.4	26.6	14.3	22.3	22.4	23.5
Tmin	16.2	14.9	11.4	7.1	4.5	9.1	13.8	15.1

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 77A/35

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
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	31.7
Tmin	14.2	12.4	9.2	5.6	3.6	9.5	12.4	13.5

Temperature Zone 88B/46

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
--	-----	-----	-----	-----	-----	-----	-----	-----

T	26	24.2	21.6	18.9	17.2	21.8	24.4	25.1
Tn	22.5	21.2	18	14.8	12.9	18.1	21.4	22.7
Td	29.5	27.2	25.2	23	21.5	25.5	27.4	28.3
Tmax	31.5	28.9	27.3	25.3	24	27.6	29.1	29.9
Tmin	20.5	19.5	15.9	14.5	10.4	16	19.8	21.1

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 widespread (Ba)	8,581.0	2.7
Eutrophic; red soils not widespread (Bd)	63,216.1	20.2
Eutrophic; red soils widespread (Bc)	33,965.9	10.8
Exposed rock areas with miscellaneous soils (Ib)	120,026.8	38.3
Pedologically young soils (lime occurs regularly) (Fb)	8,276.9	2.6
Pedologically young soils (lime rare or absent) (Fa)	426.4	0.1
Red, dystrophic and/or mesotrophic (Ab)	2,434.9	0.8
Red, high base status > 300 mm deep (no dunes) (Ae)	23,795.5	7.6
Vertic, melanic, and/or red structured diagnostic horizons (Ea)	52,201.3	16.6

### Soil Clay Contents

ClayClass	Area (ha)	%
Clay	28,992.5	9.2
Clayey	33,297.9	10.6
Loam	26,703.9	8.5
Loam & Clay	80,746.7	25.7

Loamy Sand	47,321.4	15.1
Sandy	10,462.3	3.3
Sandy Loam	46,198.3	14.7
Very Clayey	2.8	0.0
Very Sandy	39,678.7	12.7
Waterbodies	185.6	0.1

### Soil Depth

<b>Soil Depth Class</b>	<b>Area (ha)</b>	<b>%</b>
Deep	3,209.9	1.0
Medium Deep	17,570.4	5.6
Medium Shallow	123,263.9	39.3
Shallow	69,076.3	22.0
Steep Slopes	74,748.2	23.8
Very Deep	4,407.5	1.4
Very Shallow	18,979.1	6.1
Very Steep Slopes	2,149.4	0.7
Waterbodies	185.6	0.1

### Soil Form Association

<b>Soil Form Association Class</b>	<b>Area (ha)</b>	<b>%</b>
Ar, My, Va	19,461.7	6.2
Ar-dominant	380.8	0.1
Av, Gc, We, Cv	2,465.3	0.8
Hu (30%), Sd (30%)	82,004.3	26.2
Hu, Av, Cv, Gc	532.2	0.2
Hu, Sd, Sw, Gs	1,813.1	0.6
Hu-dominant	26,059.2	8.3

Lithosols, Cv, Gc, Hu	11,321.9	3.6
Lithosols, Cv, Va	24,700.8	7.9
Lithosols, Hu, Cv, Gc	70,407.2	22.5
Lithosols, Hu, Cv, Sd, Sw	46,004.5	14.7
Rg, Ar	821.2	0.3
Sd, Bo, My, Ar, Hu	27,432.4	8.7
Waterbodies	185.6	0.1

---

## Topography

### Elevation

Range (m)	Area (ha)	%
801 - 900	5,407	1.7
901 - 1000	127,959	40.8
1001 - 1100	72,090	23.0
1101 - 1200	19,825	6.3
1201 - 1300	18,022	5.7
1301 - 1400	18,022	5.7
1401 - 1500	23,429	7.5
1501 - 1600	12,616	4.0
1601 - 1700	9,011	2.9
1701 - 1800	7,209	2.3

---

### Slope

Class	Area (ha)	%
Level (0 - 3%)	92,298	29.4
Moderate (4 - 15%)	139,003	44.3

Steep (16 - 25%)	35,585	11.3
Very Steep (25+%)	46,705	14.9

## Vegetation

### Acocks Veld Type (1975)

Acocks Veld Type	Area (ha)	%
Bankenveld (61)	41,698	13.3
Mixed Bushveld (18)	180,015	57.4
North-eastern Sandy Highveld (57)	28,028	8.9
Sourish Mixed Bushveld (19)	63,850	20.4

## Water Resources

### Dams

Dam	Primary Drainage Region	River	Capacity
Rooikraal	Olifants		2.1
Vlugkraal	Olifants		

### Drainage Regions

Drainage Region / Catchment				
Primary	Secondary	Tertiary	Area	%
Elands	Elands	Elands River	19,889.6	6.3
Elands	Elands	Moses River	205,632.6	65.6
Steelpoort	Steelpoort	Steelpoort River	88,068.1	28.1

## Land Utilisation

### Land Cover (1995)

<b>Class</b>	<b>Area (ha)</b>	<b>%</b>
Cultivated: permanent - commercial irrigated	232.7	0.1
Cultivated: temporary - commercial dryland	14,411.4	4.6
Cultivated: temporary - commercial irrigated	27,318.8	8.7
Cultivated: temporary - semi-commercial/subsistence dryland	11,948.6	3.8
Degraded: forest and woodland	14,058.2	4.5
Degraded: thicket & bushland (etc)	179.6	0.1
Degraded: unimproved grassland	644.7	0.2
Forest and Woodland	147,322.7	47.0
Forest plantations	336.8	0.1
Mines & quarries	1,922.1	0.6
Thicket & bushland (etc)	48,335.1	15.4
Unimproved grassland	40,899.3	13.0
Urban / built-up land: commercial	34.7	0.0
Urban / built-up land: residential	5,674.4	1.8
Waterbodies	271.1	0.1

### Silos

### Co-operatives

<b>Location</b>	<b>Co-operative</b>
Groblersdal	OTK

### Conservation Areas

<b>Name</b>	<b>Authority</b>	<b>Area (ha)</b>
Kwaggavoetpad Nature Reserve		7253
Loskop Dam Nature Reserve	Mpumalanga Parks Board	



## Demographic Information

### Population Distribution and Dynamics

#### Population Group (Dominant)

	2001	1996
African	218,292	211,511
Coloured	205	218
Indian	122	146
White	2,129	4,865
Total	220,748	218,761

#### Home Language (Dominant)

	2001	1996
Afrikaans	2,251	4,798
English	703	521
IsiNdebele	34,729	29,514
IsiXhosa	890	789
IsiZulu	20,360	23,378
Sepedi	122,519	123,960
Sesotho	7,881	7,258
Setswana	19,921	16,292
SiSwati	5,646	4,749
Tshivenda	659	390
Xitsonga	4,339	4,161
Other	849	425

#### Place of Birth

	2001	1996
RSA	219,008	

SADC (Excluding RSA)	1,617
RestAfrica	26
Europe	40
Asia	37
North America	9
Central/South America	10
Australia/New Zealand	1

---

### Citizenship

	2001	1996
RSA	219,734	217,904
SADC (Excluding RSA)	931	691
Rest of Africa	24	3
Europe	23	21
Asia	37	35
North America	5	0
Central/South America	8	0
Australia/New Zealand	0	0

---

### Demographic Characteristics

#### Age

	2001	1996
Age 0 - 4	26,655	29,039
Age 5 - 14	62,191	61,556
Age 15 - 34	74,948	72,695
Age 35 - 64	43,459	38,835
Age 65+	13,496	12,685

---

#### Gender

	<b>Males</b>		<b>Females</b>	
	<b>2001</b>	<b>1996</b>	<b>2001</b>	
0 to 4	13,359	14,243	0 to 4	13,296
5 to 14	30,783	30,488	5 to 14	31,408
15 to 34	33,682	33,120	15 to 34	41,266
35 to 64	16,446	15,115	35 to 64	27,013
Over 65	4,429	4,498	Over 65	9,067
<b>Total</b>	<b>98,699</b>	<b>97,464</b>	<b>Total</b>	<b>122,050</b>

#### Persons with Disabilities

	<b>2001</b>	<b>1996</b>
Sight	3,677	8,943
Hearing	2,351	3,305
Communication	539	
Physical	3,144	2,994
Intellectual	1,136	1,208
Emotional	1,773	
Multiple	1,768	893

#### Socio-Economic

##### Highest Level of Education

	<b>2001</b>	<b>1996</b>
None	46,194	40,402
Some Primary	11,155	9,951
Complete Primary	4,228	5,074
Secondary	22,779	22,686
Grade12	12,386	11,745
Higher	4,684	2,933

---

Persons Attending Education Institutions

<b>Institution</b>	<b>2001</b>	<b>1996</b>
None	5,441	
Pre-school	3,343	
School	85,776	
College	425	
Technikon	172	
University	117	
Adult Education Centre	124	
Other	151	

---

Economic Active Population

	<b>2001</b>	<b>1996</b>
Employed	20,166	20,462
Unemployed	23,918	24,357
No Economical Active	75,261	
Total Labour Force	44,084	

---

Industry

	<b>2001</b>	<b>1996</b>
Agriculture/Forestry/Fishing	4,302	3,388
Community/Social/Personal	4,210	4,560
Construction	973	1,433
Electricity/Gas/Water	192	440
Financial/Insurance/Real Estate/Business	876	724
Manufacturing	998	961
Mining/Quarrying	327	424
Other	3	

---

Private Households	1,865	2,514
Transport/Storage/Communication	944	1,129
Undetermined	2,504	2,872
Wholesale/Retail	2,965	2,636

### Occupation

	2001	1996
Clerks	1,310	1,011
Craft/Trade	1,943	2,731
Elementary	6,211	6,035
Legislators/Senior Officials	634	781
Unspecified/Not Economically Classified	0	
Plant/Machine Operators	1,740	1,647
Professionals	818	2,448
Service Workers	1,759	2,489
Agricultural/Fishery	1,560	
Technicians	2,267	822
Undetermined	1,922	

### Individual Monthly Income

	2001	1996
None	176,203	141,325
R 1 to R 400	11,077	6,811
R 401 to R 800	21,907	22,301
R 801 to R 1,600	4,352	3,577
R 1,601 to R 3,200	3,505	2,923
R 3,201 to R 6,400	2,520	3,436
R 6,401 to R 12,800	809	407
R 12,801 to R 25,600	136	96

R 25,601 to R 51,200	73	97
R 51,201 to R 102,400	115	38
R 102,401 to R 204,800	35	
R 204,801+	15	

---

#### Travel to work

	2001	1996
Bicycle	827	
Bus	3,975	
Car Driver	2,327	
Car Passenger	2,730	
Minibus/Taxi	5,268	
Motorcycle	324	
Train	339	
NA	106,987	
Foot	97,681	
Other	275	

---

#### Households and Housing

##### Household Size (Average)

Household Size	2001	1996
1	5,971	
2	5,442	
3	5,984	
4	6,523	
5	6,126	
6	4,801	
7	3,666	
8	2,610	

---

9	1,669
10+	2,509

Dwelling Type (Dominant)

	2001	1996
Formal	35,966	30,845
Informal	2,351	1,997
Traditional	6,902	8,638
Other	82	152

Rooms per Household (Average)

Room(s)	2001	1996
1	3,689	3,288
2	5,591	5,538
3	6,803	6,893
4	7,875	7,702
5	5,899	5,276
6	5,516	5,108
7	4,029	3,308
8	2,721	2,223
9	1,488	1,239
10 +	1,690	1,147

Household Income

	2001	1996
None	18,446	9,657
R 1 to R 4,800	4,691	4,100
R 4,801 to R 9,600	11,773	7,933

R 9,601 to R 19,200	6,550	7,773
R 19,201 to R 38,400	3,615	3,112
R 38,401 to R 76,800	2,162	1,291
R 76,801 to R 153,600	1,031	637
R 153,601 to R 307,200	294	427
R 307,201 to R 614,400	63	82
R 614,401 to R 1,228,800	53	
R 1,228,801 to R 2,457,600	44	
R 2,457,600+	28	

#### Energy Source for Cooking (Dominant)

	2001	1996
Electricity	10,380	
Gas	802	
Paraffin	9,436	
Wood	11,114	
Coal	12,734	
Animal Dung	407	
Solar	214	
Other	213	

#### Energy Source for Lighting (Dominant)

	2001	1996
Electricity	38,734	29,434
Gas	213	239
Paraffin	243	1,520
Candles	5,938	10,459
Solar	50	
Other	122	0

---

**Access to Piped Water (% Households)**

	<b>2001</b>	<b>1996</b>
Dwelling	1,381	4,790
Inside Yard	11,167	5,687
Communal Stand	5,606	13,069
Communal Stand 200m+	8,410	
Borehole	4,359	4,798
Spring	1,370	10,019
Rain Tank	217	3,076
Dam/Pool/Stagnant Water	3,092	
River/Stream	6,566	
Water Vendor	927	
Other	2,206	461

---

**Toilet Facilities (% Households)**

	<b>2001</b>	<b>1996</b>
Flush Toilet	2,615	2,920
Flush Septic Tank	463	
Chemical Toilet	708	
VIP	3,719	
Pit Latrine	34,905	36,110
Bucket Latrine	375	265
None	2,516	2,644

---

**Telephone Facilities (% Households)**

	<b>2001</b>	<b>1996</b>
Telephone and Cellphone	1,801	
Telephone	2,374	2,555
Cellphone	10,098	

Neighbour	1,451	3,057
Public Telephone	23,749	15,859
Other Nearby	1,876	1,666
Other Not Nearby	2,269	6,213
No Access	1,682	12,552

Refuse Removal (% Households)

	2001	1996
Municipal Weekly	3,056	3,954
Municipal Other	392	206
Communal Dump	934	1,106
Own Dump	32,891	30,419
No Disposal	8,027	5,745

DISCLAIMER

Whilst all possible care and attention has been taken in the production of this report, the Department of Agriculture and Land Administration, or any of their representatives, do not accept any liability what-so-ever for any perceived inaccuracies or misinterpretations of the information presented within the digital data or accompanying report. Any boundaries either implied or inferred within the report do not have any legal status what-so-ever.

---

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

---