

Mpumalanga Provincial Government



Department of Agriculture and Land Administration

Integrated Resource Information Report

Msukaligwa

06 May 2005

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

Msukaligwa

Summary

Msukaligwa is situated in the central part of Mpumalanga on the highveld. Ermelo is the major commercial center in the area. Other towns include Breyten, Chrissiesmeer and Davel. Moderate summers and cold winters characterize the climate of the area. The annual rainfall, which falls mainly during summer, varies between 600 and 1 000 mm. The area of 6 020 km² is covered by grassland. Mixed farming is practiced in the area. Cattle (beef and dairy), sheep, maize, potatoes, sorghum, sunflower seed, lucerne, beans and soy beans are produced. The Nooitgedacht Agricultural Development Centre is situated outside Ermelo.. Lake Chrissie is the largest of approximately 30 lakes north of Ermelo. Forest plantations are situated in the eastern part of the municipality. Various coal mines are found in the district. The Camden Power Station is located near Ermelo.

GENERAL INFORMATION

Common Name(s)	Ermelo
Area	601,652.0 ha
Coordinates	29°27'36"E 26°10'12"S 30°46'11"E 26°51'35"S
District Municipality	Gert Sibande District Municipality
Region	Gert Sibande Region

Towns

Name

Breyten
Camden
Chrissiesmeer
Davel
Ermelo
Sheepmoor

Neighbouring Municipalities

Name

Albert Luthuli

Govan Mbeki
Lekwa
Mkhondo
Pixley Ka Seme
Steve Tshwete

Natural Resources

Climate

Rainfall

Rainfall Range 600 to 1,000 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 57/15

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
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T	20	17.8	14	10.5	8	14.2	17.9	18.8
Tn	17.7	15.5	12.5	9.3	7.5	12.6	15.7	16.6
Td	23.3	20.1	15.5	11.7	8.5	15.8	20.1	21
Tmax	23.6	21.4	16.4	12.4	8.8	16.7	21.4	22.3
Tmin	16.3	14.2	11.6	8.6	7.2	11.7	14.4	15.3

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

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)	%
Duplex soils with vertic, melanic, and/or red structured diagnostic horizo	3,928.7	0.7
Dystrophic and/or mesotrophic; red soils not widespread (Bb)	316,643.5	52.6
Dystrophic and/or mesotrophic; red soils widespread (Ba)	73,925.7	12.3
Pedologically young soils (lime rare or absent) (Fa)	12,880.9	2.1
Plintic catena: upland duplex and/or marginalitic soils common (Ca)	42,771.8	7.1
Red and yellow dystrophic and/or mesotrophic (Ac)	30,755.4	5.1
Red, dystrophic and/or mesotrophic (Ab)	16,559.5	2.8
Vertic, melanic, and/or red structured diagnostic horizons (Ea)	65,597.3	10.9

Yellow, dystrophic and/or mesotrophic (Ad)

38,588.9

6.4

Soil Clay Contents

ClayClass	Area (ha)	%
Clay	22,813.6	3.8
Clayey	46,893.5	7.8
Loam	143,538.4	23.9
Loam & Clay	137,771.7	22.9
Loamy Sand	2,601.2	0.4
Non-perennial pans	694.2	0.1
Sandy	3,802.0	0.6
Sandy Loam	213,675.4	35.5
Very Clayey	16,601.0	2.8
Very Sandy	1,968.6	0.3
Waterbodies	11,292.0	1.9

Soil Depth

Soil Depth Class	Area (ha)	%
Deep	125,386.8	20.8
Medium Deep	161,778.6	26.9
Medium Shallow	2,439.5	0.4
Non-perennial pans	694.2	0.1
Shallow	39,539.9	6.6
Steep Slopes	11,390.5	1.9
Very Deep	196,794.9	32.7
Very Shallow	52,333.9	8.7
Very Steep Slopes	1.5	0.0
Waterbodies	11,292.0	1.9

Soil Form Association

Soil Form Association Class	Area (ha)	%
Ar, My, Va	21,234.0	3.5
Ar-dominant	29,912.6	5.0
Av, Gc, We, Cv	95,080.3	15.8
Es, Gs, Cf	1.5	0.0
Gs, Cf, Es	15.2	0.0
Hu (30%), Sd (30%)	6,332.9	1.1
Hu, Av, Cv, Gc	199,695.4	33.2
Hu, Sd, Sw, Gs	1,678.9	0.3
Hu-dominant	140,673.1	23.4
Lithosols, Cv, Gc, Hu	20,044.5	3.3
Lithosols, Cv, Va	94.6	0.0
Lithosols, Hu, Cv, Gc	2,017.7	0.3
Lithosols, Hu, Cv, Sd, Sw	1,575.4	0.3
Non-perennial pans	694.2	0.1
Rg, Ar	71,265.5	11.8
Sd, Bo, My, Ar, Hu	43.7	0.0
Waterbodies	11,292.0	1.9

Topography

Elevation

Range (m)	Area (ha)	%
1401 - 1500	19,889	3.3
1501 - 1600	39,779	6.6
1601 - 1700	375,411	62.4
1701 - 1800	166,573	27.7

Slope

Class	Area (ha)	%
Level (0 - 3%)	303,586	50.5
Moderate (4 - 15%)	279,299	46.4
Steep (16 - 25%)	14,351	2.4
Very Steep (25+%)	4,416	.7

Vegetation

Acocks Veld Type (1975)

Acocks Veld Type	Area (ha)	%
Bankenveld (61)	49,226	8.2
Bankenveld to Sour Sandveld Transition (46,481	7.7
North-eastern Sandy Highveld (57)	392,917	65.3
Piet Retief Sourveld (63)	26,666	4.4
Themeda Veld or Turf Highveld (52)	85,594	14.2
Turf Highveld to Highland Sourveld Transi	767	0.1

Water Resources

Dams

Dam	Primary Drainage Region	River	Capacity
Jericho	Mfolozi		59.3
Morgenstond	Mfolozi		100.0
Westoe	Mfolozi		59.7
Willem Brummer	Vaal		

Drainage Regions

Drainage Region / Catchment			Area	%
Primary	Secondary	Tertiary		

Komati	Komati	Seekoei Spruit	1,423.5	0.2
Komati	Komati	Upper Komati	29,131.2	4.8
Usutu	Usutu	Mbuluzi River	109,712.9	18.2
Usutu	Usutu	Ngwempisi River	68,962.8	11.5
Usutu	Usutu	Usutu River	69,663.9	11.6
Olifants	Olifants	Klein Olifants River	12,276.1	2.0
Olifants	Olifants	Upper Olifants River	52,315.4	8.7
Vaal	Vaal	Bo-Vaal River	258,165.8	42.9

Land Utilisation

Land Cover (1995)

Class	Area (ha)	%
Cultivated: temporary - commercial dryland	99,420.3	16.5
Cultivated: temporary - commercial irrigated	376.2	0.1
Cultivated: temporary - semi-commercial/subsistence dryland	284.0	0.0
Degraded: unimproved grassland	352.5	0.1
Forest plantations	72,585.2	12.1
Improved grassland	105.3	0.0
Mines & quarries	1,628.4	0.3
Thicket & bushland (etc)	2,185.4	0.4
Unimproved grassland	411,458.1	68.4
Urban / built-up land: commercial	61.0	0.0
Urban / built-up land: industrial / transport	705.1	0.1
Urban / built-up land: residential	2,665.7	0.4
Waterbodies	7,522.2	1.3
Wetlands	2,302.3	0.4

Silos

Silo	Owner	Commodities	Capacity (Ton)
Davel	OTK	Maize (White & Yellow), Soya beans, Sunflower, Wheat	68,154
Ermelo	OTK	Maize (White & Yellow)	38,462
Estancia	OTK	Maize (White & Yellow), Soya beans	67,000
Lothair	OTK	Maize (White & Yellow), Soya beans	51,923
Overvaal	OTK	Maize (White & Yellow), Soya beans	77,786

Co-operatives

Location	Co-operative
Ermelo	OTK

Conservation Areas

Name	Authority	Area (ha)
Jericho Dam Nature Reserve	Mpumalanga Parks Board	1916
Morgenstond Dam Nature Reserv		

Demographic Information

Population Distribution and Dynamics

Population Group (Dominant)

	2001	1996
African	111,415	86,969
Coloured	378	434
Indian	824	897
White	12,195	17,172
Total	124,812	106,017

Home Language (Dominant)

	2001	1996
Afrikaans	11,721	16,320
English	1,728	2,070
IsiNdebele	1,388	858
IsiXhosa	880	524
IsiZulu	83,919	67,283
Sepedi	440	209
Sesotho	872	829
Setswana	420	54
SiSwati	22,673	15,524
Tshivenda	78	21
Xitsonga	299	329
Other	394	1,280

Place of Birth

	2001	1996
RSA	123,754	

SADC (Excluding RSA)	832
RestAfrica	57
Europe	110
Asia	48
North America	1
Central/South America	8
Australia/New Zealand	1

Citizenship

	2001	1996
RSA	124,492	105,670
SADC (Excluding RSA)	227	217
Rest of Africa	34	25
Europe	33	35
Asia	48	0
North America	0	0
Central/South America	0	13
Australia/New Zealand	0	0

Demographic Characteristics

Age

	2001	1996
Age 0 - 4	13,905	11,700
Age 5 - 14	29,661	24,189
Age 15 - 34	44,591	38,583
Age 35 - 64	31,542	26,885
Age 65+	5,114	4,235

Gender

	Males		Females	
	2001	1996	2001	
0 to 4	6,899	5,778	0 to 4	7,006
5 to 14	14,807	11,908	5 to 14	14,854
15 to 34	21,211	18,969	15 to 34	23,380
35 to 64	15,202	13,922	35 to 64	16,339
Over 65	2,013	1,734	Over 65	3,101
Total	60,132	52,311	Total	64,680

Persons with Disabilities

	2001	1996
Sight	1,431	3,284
Hearing	653	865
Communication	167	
Physical	1,471	1,303
Intellectual	513	369
Emotional	615	
Multiple	769	345

Socio-Economic

Highest Level of Education

	2001	1996
None	17,756	14,596
Some Primary	11,381	8,493
Complete Primary	4,021	3,875
Secondary	19,079	18,061
Grade12	11,160	9,228
Higher	3,733	3,030

Persons Attending Education Institutions

Institution	2001	1996
None	47,936	
Pre-school	1,294	
School	35,227	
College	325	
Technikon	77	
University	68	
Adult Education Centre	31	
Other	60	

Economic Active Population

	2001	1996
Employed	28,083	29,902
Unemployed	17,361	10,503
No Economical Active	31,209	
Total Labour Force	45,444	

Industry

	2001	1996
Agriculture/Forestry/Fishing	7,285	7,704
Community/Social/Personal	4,160	4,087
Construction	917	1,454
Electricity/Gas/Water	219	615
Financial/Insurance/Real Estate/Business	1,443	1,277
Manufacturing	2,219	1,497
Mining/Quarrying	1,845	2,576
Other	6	

Private Households	2,825	3,139
Transport/Storage/Communication	1,425	1,998
Undetermined	2,043	2,172
Wholesale/Retail	3,701	3,524

Occupation

	2001	1996
Clerks	2,260	2,016
Craft/Trade	3,072	3,629
Elementary	8,795	9,276
Legislators/Senior Officials	1,039	1,153
Unspecified/Not Economically Classified	0	
Plant/Machine Operators	3,244	3,649
Professionals	1,073	1,849
Service Workers	2,317	2,810
Agricultural/Fishery	3,005	
Technicians	1,928	1,312
Undetermined	1,343	

Individual Monthly Income

	2001	1996
None	86,493	60,281
R 1 to R 400	10,199	4,623
R 401 to R 800	12,730	16,892
R 801 to R 1,600	5,678	4,129
R 1,601 to R 3,200	4,732	3,376
R 3,201 to R 6,400	3,042	4,499
R 6,401 to R 12,800	1,369	872
R 12,801 to R 25,600	341	158

R 25,601 to R 51,200	85	88
R 51,201 to R 102,400	46	39
R 102,401 to R 204,800	86	
R 204,801+	11	

Travel to work

	2001	1996
Bicycle	860	
Bus	2,319	
Car Driver	4,433	
Car Passenger	6,900	
Minibus/Taxi	5,555	
Motorcycle	239	
Train	155	
NA	61,374	
Foot	41,620	
Other	1,360	

Households and Housing

Household Size (Average)

Household Size	2001	1996
1	5,197	
2	5,458	
3	4,549	
4	4,489	
5	3,331	
6	2,232	
7	1,489	
8	1,047	

9	680
10+	1,216

Dwelling Type (Dominant)

	2001	1996
Formal	19,428	15,280
Informal	3,981	3,925
Traditional	6,210	5,565
Other	70	68

Rooms per Household (Average)

Room(s)	2001	1996
1	3,439	3,390
2	4,541	3,462
3	4,414	2,745
4	6,841	5,969
5	3,783	3,250
6	2,947	2,577
7	1,599	1,524
8	970	995
9	466	459
10 +	688	531

Household Income

	2001	1996
None	5,852	2,281
R 1 to R 4,800	3,423	1,618
R 4,801 to R 9,600	6,272	4,584

R 9,601 to R 19,200	5,728	6,784
R 19,201 to R 38,400	4,171	3,459
R 38,401 to R 76,800	2,382	2,019
R 76,801 to R 153,600	1,593	1,370
R 153,601 to R 307,200	625	468
R 307,201 to R 614,400	110	56
R 614,401 to R 1,228,800	41	
R 1,228,801 to R 2,457,600	37	
R 2,457,600+	28	

Energy Source for Cooking (Dominant)

	2001	1996
Electricity	8,684	
Gas	453	
Paraffin	1,935	
Wood	8,238	
Coal	10,079	
Animal Dung	131	
Solar	72	
Other	97	

Energy Source for Lighting (Dominant)

	2001	1996
Electricity	15,741	10,614
Gas	63	138
Paraffin	540	1,508
Candles	13,082	12,626
Solar	73	
Other	190	0

Access to Piped Water (% Households)

	2001	1996
Dwelling	10,340	10,487
Inside Yard	9,720	6,470
Communal Stand	3,262	3,601
Communal Stand 200m+	3,292	
Borehole	369	2,284
Spring	425	1,709
Rain Tank	67	253
Dam/Pool/Stagnant Water	828	
River/Stream	610	
Water Vendor	297	
Other	478	94

Toilet Facilities (% Households)

	2001	1996
Flush Toilet	19,170	15,354
Flush Septic Tank	1,187	
Chemical Toilet	90	
VIP	1,122	
Pit Latrine	4,896	4,716
Bucket Latrine	794	2,951
None	2,430	1,901

Telephone Facilities (% Households)

	2001	1996
Telephone and Cellphone	2,892	
Telephone	1,889	6,855
Cellphone	6,202	

Neighbour	2,047	1,779
Public Telephone	12,762	8,908
Other Nearby	971	2,977
Other Not Nearby	951	1,176
No Access	1,975	3,175

Refuse Removal (% Households)

	2001	1996
Municipal Weekly	18,080	15,431
Municipal Other	1,374	741
Communal Dump	712	874
Own Dump	7,813	6,335
No Disposal	1,711	1,190

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