

# Mpumalanga Provincial Government



## Department of Agriculture and Land Administration

### Integrated Resource Information Report

#### Lekwa

06 May 2005

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**RESOURCE MANAGEMENT AND LAND USE PLANNING**  
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# Lekwa

## Summary

Lekwa is situated in the southern part of Mpumalanga on the highveld. Standerton is the major town in the area. Moderate summers and cold winters characterize the climate of the area. The annual rainfall, which falls mainly during summer, varies between 550 and 750 mm. The area of 4 586 km<sup>2</sup> is covered by grassland. Mixed farming is practiced in the area. Cattle (beef and dairy), sheep, poultry, maize, grain sorghum, wheat, sunflower seed and potatoes are produced. Irrigation farming is found next to the Vaal and Waterval Rivers. Coal is mined north of Standerton. Tutuka Power Station is found north of Standerton. The Grootdraai Dam in the Vaal River near Standerton supplies water to the Tutuka Power Station and SASOL (Highveld East).

## GENERAL INFORMATION

Common Name(s)	Standerton
Area	458,620.0 ha
Coordinates	28°49'47"E 26°31'11"S 29°52'12"E 27°16'11"S
District Municipality	Gert Sibande District Municipality
Region	Gert Sibande Region

### Towns

#### **Name**

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Morgenzon  
Standerton

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### Neighbouring Municipalities

#### **Name**

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Dipaleseng  
Govan Mbeki  
Msukaligwa  
Pixley Ka Seme

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## Natural Resources

### Climate

#### Rainfall

Rainfall Range 550 to 750 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

T - Average Temperature

Tn - Average Night Temperature

Td - Average Daily Temperature

Tmax - Average Maximum Temperature

Tmin - Average Minimum Temperature

### Soils

#### Land Types

<b>Land Type</b>	<b>Area (ha)</b>	<b>%</b>
Duplex soils with vertic, melanic, and/or red structured diagnostic horizo	4,062.8	0.9
Dystrophic and/or mesotrophic; red soils not widespread (Bb)	12,262.1	2.7
Plintic catena: upland duplex and/or margalitic soils common (Ca)	24,686.0	5.4
Vertic, melanic, and/or red structured diagnostic horizons (Ea)	417,376.4	91.0

#### Soil Clay Contents

<b>ClayClass</b>	<b>Area (ha)</b>	<b>%</b>
Clay	68,523.3	14.9
Clayey	109,102.1	23.8
Loam	94,036.4	20.5
Loam & Clay	88,914.5	19.4
Non-perennial pans	355.4	0.1
Sandy	6,643.6	1.4
Sandy Loam	5,896.4	1.3
Very Clayey	80,862.8	17.6
Waterbodies	4,285.1	0.9

#### Soil Depth

<b>Soil Depth Class</b>	<b>Area (ha)</b>	<b>%</b>
Deep	92,473.6	20.2
Medium Deep	66,737.7	14.6
Non-perennial pans	355.4	0.1
Shallow	169,369.2	36.9
Steep Slopes	1,050.9	0.2
Very Deep	46,129.4	10.1
Very Shallow	78,181.0	17.0
Very Steep Slopes	37.3	0.0

Waterbodies	4,285.1	0.9
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### Soil Form Association

Soil Form Association Class	Area (ha)	%
Ar, My, Va	89,116.8	19.4
Ar-dominant	115,201.4	25.1
Av, Gc, We, Cv	100,675.4	22.0
Es, Gs, Cf	12,177.3	2.7
Gs, Cf, Es	3,759.9	0.8
Hu, Av, Cv, Gc	5,896.4	1.3
Hu-dominant	4,866.7	1.1
Lithosols, Cv, Va	46,744.3	10.2
Lithosols, Hu, Cv, Sd, Sw	152.8	0.0
Non-perennial pans	355.4	0.1
Rg, Ar	75,353.4	16.4
Sd, Bo, My, Ar, Hu	34.8	0.0
Waterbodies	4,285.1	0.9

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### Topography

#### Elevation

Range (m)	Area (ha)	%
1501 - 1600	282,978	61.7
1601 - 1700	174,557	38.1
1701 - 1800	1,084	0.2

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#### Slope

Class	Area (ha)	%
Level (0 - 3%)	345,340	75.3

Moderate (4 - 15%)	109,981	24.
Steep (16 - 25%)	2,200	.5
Very Steep (25+%)	1,100	.2

## Vegetation

### Acocks Veld Type (1975)

Acocks Veld Type	Area (ha)	%
North-eastern Sandy Highveld (57)	9,746	2.1
Patchy Highveld to Cymbopogon - Theme	38,311	8.4
Themeda Veld or Turf Highveld (52)	368,505	80.4
Turf Highveld to Highland Sourveld Transi	42,057	9.2

## Water Resources

### Dams

Dam	Primary Drainage Region	River	Capacity
Grootdraai	Vaal	Vaal	355.0

### Drainage Regions

Drainage Region / Catchment			Area	%
Primary	Secondary	Tertiary		
Suikerbosrand	Suikerbosrand	Suikerbosrand River	134.5	0.0
Vaal	Vaal	Bo-Vaal River	320,977.0	70.0
Vaal	Vaal	Klip River	32,776.1	7.1
Vaal	Vaal	Vaal-Watervals Rive	104,731.8	22.8

## Land Utilisation

### Land Cover (1995)

<b>Class</b>	<b>Area (ha)</b>	<b>%</b>
Cultivated: temporary - commercial dryland	181,960.7	39.7
Cultivated: temporary - commercial irrigated	1,373.8	0.3
Degraded: unimproved grassland	187.1	0.0
Dongas & sheet erosion scars	417.7	0.1
Forest plantations	1,131.5	0.2
Improved grassland	89.5	0.0
Mines & quarries	272.6	0.1
Thicket & bushland (etc)	323.8	0.1
Unimproved grassland	264,540.9	57.7
Urban / built-up land: commercial	150.9	0.0
Urban / built-up land: industrial / transport	503.1	0.1
Urban / built-up land: residential	2,139.4	0.5
Waterbodies	4,828.9	1.1
Wetlands	699.6	0.2

### Silos

<b>Silo</b>	<b>Owner</b>	<b>Commodities</b>	<b>Capacity (Ton)</b>
Harvard	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower	32,077
Holmdene	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower, Wheat	75,347
Maizefield	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower	40,769
Morgenzon	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower, Wheat	54,692
Platrand	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower	156,077
Standerton	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower	47,231

### Co-operatives

<b>Location</b>	<b>Co-operative</b>
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Morgenzon	OTK
Standerton	OTK

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Conservation Areas

<b>Name</b>	<b>Authority</b>	<b>Area (ha)</b>
No Records		

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## Demographic Information

### Population Distribution and Dynamics

#### Population Group (Dominant)

	2001	1996
African	89,053	72,856
Coloured	1,937	2,099
Indian	955	1,094
White	11,320	13,509
Total	103,265	90,105

#### Home Language (Dominant)

	2001	1996
Afrikaans	12,327	14,441
English	2,098	2,349
IsiNdebele	624	350
IsiXhosa	1,521	1,084
IsiZulu	69,292	56,158
Sepedi	481	856
Sesotho	14,648	11,986
Setswana	261	106
SiSwati	1,612	1,716
Tshivenda	78	20
Xitsonga	164	194
Other	159	208

#### Place of Birth

	2001	1996
RSA	102,234	

SADC (Excluding RSA)	771
RestAfrica	26
Europe	184
Asia	37
North America	0
Central/South America	12
Australia/New Zealand	2

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### Citizenship

	2001	1996
RSA	102,765	89,835
SADC (Excluding RSA)	413	107
Rest of Africa	21	3
Europe	57	98
Asia	37	3
North America	0	0
Central/South America	1	7
Australia/New Zealand	0	4

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### Demographic Characteristics

#### Age

	2001	1996
Age 0 - 4	10,663	8,841
Age 5 - 14	22,473	19,993
Age 15 - 34	37,710	33,876
Age 35 - 64	27,997	22,735
Age 65+	4,422	3,863

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#### Gender

	<b>Males</b>		<b>Females</b>	
	<b>2001</b>	<b>1996</b>	<b>2001</b>	
0 to 4	5,268	4,342	0 to 4	5,395
5 to 14	11,322	10,049	5 to 14	11,152
15 to 34	18,615	16,883	15 to 34	19,094
35 to 64	13,683	11,367	35 to 64	14,314
Over 65	1,741	1,647	Over 65	2,681
<b>Total</b>	<b>50,629</b>	<b>44,288</b>	<b>Total</b>	<b>52,636</b>

#### Persons with Disabilities

	<b>2001</b>	<b>1996</b>
Sight	2,136	3,519
Hearing	912	1,058
Communication	215	
Physical	1,945	1,631
Intellectual	409	421
Emotional	1,245	
Multiple	867	417

#### Socio-Economic

##### Highest Level of Education

	<b>2001</b>	<b>1996</b>
None	11,175	13,035
Some Primary	13,365	9,134
Complete Primary	4,225	3,362
Secondary	16,942	14,563
Grade12	9,606	6,453
Higher	3,121	2,566

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Persons Attending Education Institutions

<b>Institution</b>	<b>2001</b>	<b>1996</b>
None	56,276	
Pre-school	1,174	
School	28,950	
College	222	
Technikon	70	
University	38	
Adult Education Centre	47	
Other	35	

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Economic Active Population

	<b>2001</b>	<b>1996</b>
Employed	26,592	26,507
Unemployed	15,286	8,315
No Economical Active	24,239	
Total Labour Force	41,878	

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Industry

	<b>2001</b>	<b>1996</b>
Agriculture/Forestry/Fishing	7,697	6,675
Community/Social/Personal	3,631	3,120
Construction	1,182	1,186
Electricity/Gas/Water	1,131	1,510
Financial/Insurance/Real Estate/Business	1,028	742
Manufacturing	2,469	3,050
Mining/Quarrying	1,168	1,614
Other	0	

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Private Households	3,361	2,946
Transport/Storage/Communication	641	878
Undetermined	1,078	1,909
Wholesale/Retail	3,205	2,918

### Occupation

	2001	1996
Clerks	1,984	1,367
Craft/Trade	3,294	3,471
Elementary	10,536	8,843
Legislators/Senior Officials	926	867
Unspecified/Not Economically Classified	0	
Plant/Machine Operators	3,240	3,469
Professionals	933	1,578
Service Workers	1,885	1,953
Agricultural/Fishery	1,527	
Technicians	1,561	1,020
Undetermined	705	

### Individual Monthly Income

	2001	1996
None	69,086	42,950
R 1 to R 400	7,376	3,591
R 401 to R 800	11,552	14,740
R 801 to R 1,600	5,627	4,116
R 1,601 to R 3,200	4,585	3,251
R 3,201 to R 6,400	2,891	3,815
R 6,401 to R 12,800	1,510	908
R 12,801 to R 25,600	361	150

R 25,601 to R 51,200	141	83
R 51,201 to R 102,400	79	77
R 102,401 to R 204,800	34	
R 204,801+	24	

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#### Travel to work

	2001	1996
Bicycle	866	
Bus	3,971	
Car Driver	4,300	
Car Passenger	4,989	
Minibus/Taxi	6,320	
Motorcycle	222	
Train	85	
NA	47,701	
Foot	34,559	
Other	250	

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#### Households and Housing

##### Household Size (Average)

Household Size	2001	1996
1	4,640	
2	4,615	
3	3,880	
4	3,888	
5	2,804	
6	1,903	
7	1,247	
8	773	

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9	551
10+	897

#### Dwelling Type (Dominant)

	2001	1996
Formal	13,692	11,796
Informal	8,398	5,340
Traditional	2,849	3,062
Other	259	94

#### Rooms per Household (Average)

Room(s)	2001	1996
1	2,949	2,388
2	3,982	2,711
3	3,438	2,940
4	4,848	4,208
5	3,475	2,734
6	3,060	2,568
7	1,656	1,220
8	863	678
9	387	364
10 +	541	408

#### Household Income

	2001	1996
None	4,081	1,170
R 1 to R 4,800	2,475	810
R 4,801 to R 9,600	5,153	3,250

R 9,601 to R 19,200	5,358	5,056
R 19,201 to R 38,400	4,131	3,073
R 38,401 to R 76,800	2,394	1,649
R 76,801 to R 153,600	1,581	1,130
R 153,601 to R 307,200	701	412
R 307,201 to R 614,400	171	72
R 614,401 to R 1,228,800	59	
R 1,228,801 to R 2,457,600	46	
R 2,457,600+	22	

Energy Source for Cooking (Dominant)

	2001	1996
Electricity	10,821	
Gas	308	
Paraffin	3,097	
Wood	1,782	
Coal	7,207	
Animal Dung	1,834	
Solar	81	
Other	67	

Energy Source for Lighting (Dominant)

	2001	1996
Electricity	14,953	9,361
Gas	46	114
Paraffin	1,354	1,509
Candles	8,713	9,322
Solar	40	
Other	93	2

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

	<b>2001</b>	<b>1996</b>
Dwelling	8,772	10,306
Inside Yard	8,176	4,056
Communal Stand	4,279	3,233
Communal Stand 200m+	3,176	
Borehole	288	2,377
Spring	31	163
Rain Tank	60	136
Dam/Pool/Stagnant Water	71	
River/Stream	48	
Water Vendor	25	
Other	274	138

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**Toilet Facilities (% Households)**

	<b>2001</b>	<b>1996</b>
Flush Toilet	13,812	12,408
Flush Septic Tank	401	
Chemical Toilet	334	
VIP	505	
Pit Latrine	3,184	3,380
Bucket Latrine	3,036	1,638
None	3,927	2,985

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**Telephone Facilities (% Households)**

	<b>2001</b>	<b>1996</b>
Telephone and Cellphone	3,152	
Telephone	2,473	6,518
Cellphone	4,804	

Neighbour	1,523	995
Public Telephone	10,439	8,136
Other Nearby	945	2,061
Other Not Nearby	941	498
No Access	922	2,178

Refuse Removal (% Households)

	2001	1996
Municipal Weekly	14,570	11,663
Municipal Other	315	105
Communal Dump	932	1,558
Own Dump	7,567	5,745
No Disposal	1,814	1,101

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