

Mpumalanga Provincial Government



Department of Agriculture and Land Administration

Integrated Resource Information Report

Dipaleseng

06 May 2005

**RESOURCE MANAGEMENT AND LAND USE PLANNING
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Dipaleseng

Summary

Dipaleseng is situated in the southwestern part of Mpumalanga highveld. Major towns in the area are Balfour and Greylingstad. Moderate summers and cold winters characterize the climate of the area. The annual rainfall of the area, which falls mainly in summer, is between 600 and 750 mm. The area of 2 600 km² is covered by grassland. Mixed farming is practiced in the area. Cattle (Beef and Dairy), sheep, maize, soybeans, sunflower seed, wheat and grain sorghum are produced. Crops are produced under irrigation next to the Waterval and Vaal Rivers. Coal deposits are found near Grootvlei. The Grootvlei Power Station is located in the area.

GENERAL INFORMATION

Common Name(s)	Balfour
Area	261,528.0 ha
Coordinates	28°14'24"E 26°30'00"S 28°59'24"E 27°04'12"S
District Municipality	Gert Sibande District Municipality
Region	Gert Sibande Region

Towns

Name

Balfour

Greylingstad

Grootvlei

Neighbouring Municipalities

Name

Govan Mbeki

Lekwa

Natural Resources

Climate

Rainfall

Rainfall Range 600 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

Land Type	Area (ha)	%
Duplex soils with red B horizons (Da)	2,144.0	0.8
Duplex soils with vertic, melanic, and/or red structured diagnostic horizo	8,055.2	3.1
Dystrophic and/or mesotrophic; red soils not widespread (Bb)	41,927.1	16.0
Dystrophic and/or mesotrophic; red soils widespread (Ba)	56,311.1	21.5
Exposed rock areas with miscellaneous soils (Ib)	23,068.5	8.8
Plintic catena: upland duplex and/or margalitc soils common (Ca)	718.8	0.3
Vertic, melanic, and/or red structured diagnostic horizons (Ea)	125,560.1	48.0

Soil Clay Contents

ClayClass	Area (ha)	%
Clay	44,130.8	16.9
Clayey	36,293.5	13.9
Loam	65,751.8	25.1
Loam & Clay	38,002.9	14.5
Loamy Sand	6,177.1	2.4
Non-perennial pans	311.0	0.1
Sandy	1,925.8	0.7
Sandy Loam	25,302.5	9.7
Very Clayey	39,940.0	15.3
Waterbodies	3,693.2	1.4

Soil Depth

Soil Depth Class	Area (ha)	%
Deep	65,250.8	24.9
Medium Deep	40,358.8	15.4
Medium Shallow	942.0	0.4
Non-perennial pans	311.0	0.1
Shallow	106,024.5	40.5

Steep Slopes	7,059.6	2.7
Very Deep	35,964.7	13.8
Very Shallow	1,919.7	0.7
Very Steep Slopes	4.0	0.0
Waterbodies	3,693.2	1.4

Soil Form Association

Soil Form Association Class	Area (ha)	%
Ar, My, Va	25,780.4	9.9
Ar-dominant	50,472.7	19.3
Av, Gc, We, Cv	62,618.5	23.9
Hu (30%), Sd (30%)	34,491.7	13.2
Hu, Av, Cv, Gc	19,453.1	7.4
Hu, Sd, Sw, Gs	1,174.4	0.4
Hu-dominant	5,120.6	2.0
Lithosols, Cv, Gc, Hu	2,312.0	0.9
Lithosols, Cv, Va	10,442.7	4.0
Lithosols, Hu, Cv, Gc	5,502.0	2.1
Lithosols, Hu, Cv, Sd, Sw	5,107.1	2.0
Non-perennial pans	311.0	0.1
Rg, Ar	35,049.2	13.4
Waterbodies	3,693.2	1.4

Topography

Elevation

Range (m)	Area (ha)	%
1401 - 1500	11,553	4.4

1501 - 1600	161,748	61.8
1601 - 1700	86,126	32.9
1701 - 1800	2,101	0.8

Slope

Class	Area (ha)	%
Level (0 - 3%)	175,817	67.2
Moderate (4 - 15%)	76,920	29.4
Steep (16 - 25%)	5,494	2.1
Very Steep (25+%)	3,297	1.3

Vegetation

Acocks Veld Type (1975)

Acocks Veld Type	Area (ha)	%
Bankenveld (61)	26,102	10.0
Bankenveld to Turf Highveld Transition (5)	28,873	11.0
Cymbopogon - Themeda Veld (48)	61,661	23.6
Patchy Highveld to Cymbopogon - Theme	22,734	8.7
Themeda Veld or Turf Highveld (52)	122,159	46.7

Water Resources

Dams

Dam	Primary Drainage Region	River	Capacity
Vaal	Vaal	Vaal	2,572.0

Drainage Regions

Drainage Region / Catchment

Primary	Secondary	Tertiary	Area	%
Suikerbosrand	Suikerbosrand	Suikerbosrand River	64,920.5	24.8
Vaal	Vaal	Vaal-Watervals Rive	196,607.9	75.2

Land Utilisation

Land Cover (1995)

Class	Area (ha)	%
Cultivated: temporary - commercial dryland	99,620.8	38.1
Cultivated: temporary - commercial irrigated	1,177.2	0.5
Forest plantations	604.8	0.2
Improved grassland	93.4	0.0
Mines & quarries	37.2	0.0
Thicket & bushland (etc)	2,012.3	0.8
Unimproved grassland	153,868.3	58.8
Urban / built-up land: commercial	10.4	0.0
Urban / built-up land: industrial / transport	269.7	0.1
Urban / built-up land: residential	1,357.0	0.5
Waterbodies	2,304.2	0.9
Wetlands	173.3	0.1

Silos

Silo	Owner	Commodities	Capacity (Ton)
Balfour	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower	45,538
Bloekomspruit	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower, Wheat	90,154
Greylingstad	OTK	Maize (White & Yellow), Sorghum, Sunflower	
Grootvlei	OTK	Maize (White & Yellow), Sunflower, Wheat	43,231
Leeuspruit	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower, Wheat	75,462
Val	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower	58,926

Co-operatives

Location	Co-operative
Balfour	OTK

Bergsig	OTK
Greylingstad	OTK
Val	OTK

Conservation Areas

Name	Authority	Area (ha)
No Records		

Demographic Information

Population Distribution and Dynamics

Population Group (Dominant)

	2001	1996
African	35,078	33,956
Coloured	68	37
Indian	275	355
White	3,197	4,348
Total	38,618	39,047

Home Language (Dominant)

	2001	1996
Afrikaans	3,099	4,138
English	601	580
IsiNdebele	256	200
IsiXhosa	1,432	1,144
IsiZulu	20,961	20,079
Sepedi	171	623
Sesotho	11,565	11,666
Setswana	98	104
SiSwati	303	189
Tshivenda	27	23
Xitsonga	68	28
Other	37	97

Place of Birth

	2001	1996
RSA	38,377	

SADC (Excluding RSA)	194
RestAfrica	1
Europe	35
Asia	8
North America	2
Central/South America	0
Australia/New Zealand	0

Citizenship

	2001	1996
RSA	38,533	38,980
SADC (Excluding RSA)	71	41
Rest of Africa	0	0
Europe	11	4
Asia	8	0
North America	0	1
Central/South America	0	0
Australia/New Zealand	2	0

Demographic Characteristics

Age

	2001	1996
Age 0 - 4	3,955	3,796
Age 5 - 14	8,753	8,902
Age 15 - 34	13,644	13,960
Age 35 - 64	10,224	9,748
Age 65+	2,043	1,963

Gender

	Males		Females	
	2001	1996	2001	
0 to 4	2,013	1,907	0 to 4	1,942
5 to 14	4,337	4,428	5 to 14	4,417
15 to 34	6,587	6,750	15 to 34	7,057
35 to 64	4,815	4,767	35 to 64	5,408
Over 65	850	869	Over 65	1,192
Total	18,602	18,721	Total	20,016

Persons with Disabilities

	2001	1996
Sight	694	1,323
Hearing	357	331
Communication	112	
Physical	964	366
Intellectual	233	114
Emotional	290	
Multiple	242	130

Socio-Economic

Highest Level of Education

	2001	1996
None	5,881	6,051
Some Primary	4,894	4,155
Complete Primary	1,374	1,488
Secondary	5,866	5,899
Grade12	2,822	2,552
Higher	722	769

Persons Attending Education Institutions

Institution	2001	1996
None	4,928	
Pre-school	399	
School	11,204	
College	41	
Technikon	23	
University	23	
Adult Education Centre	16	
Other	28	

Economic Active Population

	2001	1996
Employed	7,595	8,587
Unemployed	6,397	4,182
No Economical Active	10,079	
Total Labour Force	13,992	

Industry

	2001	1996
Agriculture/Forestry/Fishing	1,991	3,061
Community/Social/Personal	798	818
Construction	649	515
Electricity/Gas/Water	103	365
Financial/Insurance/Real Estate/Business	281	159
Manufacturing	555	498
Mining/Quarrying	28	30
Other	0	

Private Households	1,111	1,039
Transport/Storage/Communication	222	387
Undetermined	745	730
Wholesale/Retail	1,109	1,029

Occupation

	2001	1996
Clerks	413	381
Craft/Trade	691	1,068
Elementary	3,088	2,668
Legislators/Senior Officials	210	214
Unspecified/Not Economically Classified	0	
Plant/Machine Operators	1,058	947
Professionals	194	373
Service Workers	514	536
Agricultural/Fishery	618	
Technicians	307	178
Undetermined	494	

Individual Monthly Income

	2001	1996
None	27,484	23,202
R 1 to R 400	2,943	1,427
R 401 to R 800	4,519	6,518
R 801 to R 1,600	1,797	1,094
R 1,601 to R 3,200	987	794
R 3,201 to R 6,400	548	998
R 6,401 to R 12,800	223	155
R 12,801 to R 25,600	79	30

R 25,601 to R 51,200	26	21
R 51,201 to R 102,400	9	21
R 102,401 to R 204,800	3	
R 204,801+	0	

Travel to work

	2001	1996
Bicycle	323	
Bus	1,236	
Car Driver	938	
Car Passenger	1,361	
Minibus/Taxi	1,664	
Motorcycle	56	
Train	58	
NA	19,824	
Foot	12,944	
Other	208	

Households and Housing

Household Size (Average)

Household Size	2001	1996
1	1,602	
2	1,647	
3	1,508	
4	1,500	
5	1,154	
6	820	
7	478	
8	299	

9	189
10+	277

Dwelling Type (Dominant)

	2001	1996
Formal	5,459	3,993
Informal	3,275	3,456
Traditional	704	1,581
Other	37	336

Rooms per Household (Average)

Room(s)	2001	1996
1	553	693
2	1,288	1,334
3	1,319	1,356
4	2,727	2,370
5	1,412	1,515
6	1,037	1,040
7	559	512
8	277	273
9	132	152
10 +	171	170

Household Income

	2001	1996
None	2,472	1,036
R 1 to R 4,800	1,068	638
R 4,801 to R 9,600	2,162	2,412

R 9,601 to R 19,200	1,906	2,365
R 19,201 to R 38,400	1,057	966
R 38,401 to R 76,800	485	483
R 76,801 to R 153,600	252	235
R 153,601 to R 307,200	117	82
R 307,201 to R 614,400	29	23
R 614,401 to R 1,228,800	9	
R 1,228,801 to R 2,457,600	5	
R 2,457,600+	1	

Energy Source for Cooking (Dominant)

	2001	1996
Electricity	2,676	
Gas	193	
Paraffin	859	
Wood	1,197	
Coal	4,187	
Animal Dung	306	
Solar	24	
Other	33	

Energy Source for Lighting (Dominant)

	2001	1996
Electricity	6,379	6,034
Gas	18	45
Paraffin	211	200
Candles	2,777	3,132
Solar	39	
Other	49	0

Access to Piped Water (% Households)

	2001	1996
Dwelling	1,873	3,040
Inside Yard	5,368	2,324
Communal Stand	846	2,577
Communal Stand 200m+	786	
Borehole	138	1,033
Spring	6	77
Rain Tank	86	358
Dam/Pool/Stagnant Water	44	
River/Stream	13	
Water Vendor	19	
Other	294	7

Toilet Facilities (% Households)

	2001	1996
Flush Toilet	3,640	3,913
Flush Septic Tank	1,684	
Chemical Toilet	60	
VIP	157	
Pit Latrine	1,361	2,458
Bucket Latrine	1,828	2,681
None	745	369

Telephone Facilities (% Households)

	2001	1996
Telephone and Cellphone	696	
Telephone	810	1,931
Cellphone	1,320	

Neighbour	829	708
Public Telephone	5,097	4,673
Other Nearby	126	1,359
Other Not Nearby	162	132
No Access	433	609

Refuse Removal (% Households)

	2001	1996
Municipal Weekly	6,204	5,229
Municipal Other	66	732
Communal Dump	153	200
Own Dump	2,773	3,071
No Disposal	278	110

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