

Mpumalanga Provincial Government



Department of Agriculture and Land Administration

Integrated Resource Information Report

Pixley Ka Seme

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RESOURCE MANAGEMENT AND LAND USE PLANNING
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Pixley Ka Seme

Summary

Seme is situated in the southern part of Mpumalanga on the highveld. Major towns in the area are Amersfoort, Perdekop, Volksrust and Wakkerstroom. Moderate summers and cold winters characterize the climate of the area. The annual rainfall, which falls mainly during summer, varies between 750 and 800 mm. The area of 5 228 km² is covered by grassland. Mixed farming is practiced in the area. Cattle (beef and dairy), sheep, maize, soy beans, sorghum, wheat and sunflower seed are produced. The area surrounding Wakkerstroom is one of the prime birding sites in South Africa, where 29 birds species are either endemic or near endemic to the region. The region is also a centre for hikers, hang gliders, mountain bikers and anglers. Coal is mine in the area and the Majuba Power Station, near Amersfoort, is one of the largest in South Africa.

GENERAL INFORMATION

Common Name(s)	Amersfoort / Volksrust / Wakkerstroom
Area	522,798.0 ha
Coordinates	29°25'12"E 26°41'24"S 30°34'12"E 27°30'36"S
District Municipality	Gert Sibande District Municipality
Region	Gert Sibande Region
Towns	

Name

Amersfoort
Daggakraal
Perdekop
Volksrust
Wakkerstroom

Neighbouring Municipalities

Name

Lekwa
Mkhondo
Msukaligwa

Natural Resources

Climate

Rainfall

Rainfall Range 600 to 1,050 mm per year

Temperature

Temperature Zone 35/14

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	14.2	13.8	10.8	8.9	7.4	10.9	13.9	13.5
Tn	7.5	6.5	4.9	3.6	2.8	5	6.6	7.1
Td	20.9	21.1	16.7	15.2	12	16.9	21.2	19.9
Tmax	24.7	25.3	21.2	17.2	14.6	20.2	25.4	23.6
Tmin	3.2	2.3	1.5	0.6	0.2	1.6	2.4	3.1

Temperature Zone 36/14

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	14.2	12.8	10.8	8.4	7.4	10.9	12.9	13.7
Tn	12.6	10.5	7.7	4.6	2.6	7.8	10.6	11.6
Td	15.8	15.1	13.9	13.2	12.2	14	15.2	15.8
Tmax	16.7	16.4	15.7	15.7	15	15.8	16.5	17
Tmin	11.7	9.2	5.9	1.2	0.1	6	9.3	10.4

Temperature Zone 46/14

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
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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
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
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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)	%
Dystrophic and/or mesotrophic; red soils not widespread (Bb)	10,653.5	2.0
Dystrophic and/or mesotrophic; red soils widespread (Ba)	31,235.6	6.0
Exposed rock areas with miscellaneous soils (Ib)	93.6	0.0
Pedologically young soils (lime rare or absent) (Fa)	93,641.6	17.9
Plintic catena: upland duplex and/or margalitc soils common (Ca)	212,571.9	40.7
Red and yellow dystrophic and/or mesotrophic (Ac)	65,680.5	12.6
Red, dystrophic and/or mesotrophic (Ab)	4,980.9	1.0
Vertic, melanic, and/or red structured diagnostic horizons (Ea)	102,309.3	19.6
Yellow, dystrophic and/or mesotrophic (Ad)	524.7	0.1

Soil Clay Contents

ClayClass	Area (ha)	%
Clay	42,947.7	8.2
Clayey	132,488.3	25.3
Loam	34,845.0	6.7
Loam & Clay	212,196.4	40.6

Loamy Sand	281.8	0.1
Non-perennial pans	628.7	0.1
Sandy	5,350.6	1.0
Sandy Loam	57,149.1	10.9
Very Clayey	36,026.4	6.9
Very Sandy	62.2	0.0
Waterbodies	821.6	0.2

Soil Depth

Soil Depth Class	Area (ha)	%
Deep	89,009.3	17.0
Medium Deep	40,224.7	7.7
Medium Shallow	301.5	0.1
Non-perennial pans	628.7	0.1
Shallow	130,738.0	25.0
Steep Slopes	70,147.6	13.4
Very Deep	48,248.0	9.2
Very Shallow	142,009.5	27.2
Very Steep Slopes	668.9	0.1
Waterbodies	821.6	0.2

Soil Form Association

Soil Form Association Class	Area (ha)	%
Ar, My, Va	69,665.1	13.3
Ar-dominant	51,070.0	9.8
Av, Gc, We, Cv	38,307.9	7.3
Es, Gs, Cf	24,952.5	4.8
Gs, Cf, Es	10,827.8	2.1

Hu, Av, Cv, Gc	54,635.3	10.5
Hu, Sd, Sw, Gs	742.1	0.1
Hu-dominant	90,238.6	17.3
Lithosols, Cv, Gc, Hu	4,627.4	0.9
Lithosols, Cv, Va	91,939.4	17.6
Lithosols, Hu, Cv, Gc	61.7	0.0
Lithosols, Hu, Cv, Sd, Sw	21,304.0	4.1
Non-perennial pans	628.7	0.1
Rg, Ar	62,975.6	12.0
Waterbodies	821.6	0.2

Topography

Elevation

Range (m)	Area (ha)	%
1301 - 1400	7,178	1.4
1401 - 1500	5,982	1.1
1501 - 1600	25,123	4.8
1601 - 1700	270,372	51.7
1701 - 1800	161,505	30.9
1801 - 1900	41,872	8.0
1901 - 2000	8,374	1.6
2001 - 2100	2,393	0.5

Slope

Class	Area (ha)	%
Level (0 - 3%)	203,858	39.
Moderate (4 - 15%)	236,739	45.3

Steep (16 - 25%)	43,841	8.4
Very Steep (25+%)	38,360	7.3

Vegetation

Acocks Veld Type (1975)

Acocks Veld Type	Area (ha)	%
Bankenveld to Sour Sandveld Transition (9,505	1.8
Highland Sourveld to Cymbopogon - The	3,112	0.6
North-eastern Sandy Highveld (57)	174,746	33.4
Northern Tall Grassveld (64)	3,837	0.7
Patchy Highveld to Cymbopogon - Theme	25,650	4.9
Piet Retief Sourveld (63)	52,493	10.0
Southern Tall Grassveld (65)	4,912	0.9
Themeda Veld or Turf Highveld (52)	86,019	16.5
Turf Highveld to Highland Sourveld Transi	162,523	31.1

Water Resources

Dams

Dam	Primary Drainage Region	River	Capacity
Heyshope	Mfolozi		451.0

Drainage Regions

Drainage Region / Catchment				
Primary	Secondary	Tertiary	Area	%
Pongola	Pongola	Pongola River	14,518.1	2.8
Usutu	Usutu	Assegai River	72,408.3	13.9
Usutu	Usutu	Hlelo River	9,512.2	1.8

Usutu	Usutu	Ngwempisi River	148.7	0.0
Vaal	Vaal	Bo-Vaal River	250,017.9	47.8
Vaal	Vaal	Klip River	141,527.5	27.1

Land Utilisation

Land Cover (1995)

Class	Area (ha)	%
Cultivated: temporary - commercial dryland	86,338.3	16.5
Cultivated: temporary - commercial irrigated	674.6	0.1
Cultivated: temporary - semi-commercial/subsistence dryland	2,358.3	0.5
Forest plantations	3,179.5	0.6
Improved grassland	26.2	0.0
Mines & quarries	36.3	0.0
Thicket & bushland (etc)	7,590.1	1.5
Unimproved grassland	418,556.1	80.1
Urban / built-up land: commercial	21.2	0.0
Urban / built-up land: industrial / transport	136.8	0.0
Urban / built-up land: residential	1,606.0	0.3
Waterbodies	983.4	0.2
Wetlands	1,291.2	0.2

Silos

Silo	Owner	Commodities	Capacity (Ton)
Amersfoort	OTK	Maize (White & Yellow), Soya beans, Sorghum, Sunflower, Wheat	59,000

Co-operatives

Location	Co-operative
Amersfoort	OTK
Perdekop	OTK
Volksrust	OTK

Conservation Areas

Name	Authority	Area (ha)
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Demographic Information

Population Distribution and Dynamics

Population Group (Dominant)

	2001	1996
African	74,348	61,811
Coloured	402	292
Indian	466	427
White	5,521	7,295
Total	80,737	70,215

Home Language (Dominant)

	2001	1996
Afrikaans	5,248	6,638
English	1,103	1,095
IsiNdebele	117	37
IsiXhosa	314	178
IsiZulu	67,727	56,646
Sepedi	178	194
Sesotho	2,886	2,147
Setswana	266	68
SiSwati	2,797	1,927
Tshivenda	21	6
Xitsonga	37	37
Other	42	131

Place of Birth

	2001	1996
RSA	80,482	

SADC (Excluding RSA)	107
RestAfrica	8
Europe	112
Asia	21
North America	1
Central/South America	3
Australia/New Zealand	3

Citizenship

	2001	1996
RSA	80,660	70,055
SADC (Excluding RSA)	27	27
Rest of Africa	2	6
Europe	36	54
Asia	21	0
North America	1	2
Central/South America	2	8
Australia/New Zealand	1	0

Demographic Characteristics

Age

	2001	1996
Age 0 - 4	9,903	7,410
Age 5 - 14	21,263	17,925
Age 15 - 34	27,238	24,207
Age 35 - 64	18,190	15,503
Age 65+	4,142	3,538

Gender

	Males		Females	
	2001	1996	2001	
0 to 4	4,899	3,577	0 to 4	5,004
5 to 14	10,424	8,802	5 to 14	10,840
15 to 34	12,808	11,495	15 to 34	14,430
35 to 64	8,032	7,355	35 to 64	10,159
Over 65	1,525	1,483	Over 65	2,616
Total	37,688	32,712	Total	43,049

Persons with Disabilities

	2001	1996
Sight	1,489	2,860
Hearing	700	887
Communication	148	
Physical	1,556	1,410
Intellectual	333	322
Emotional	607	
Multiple	659	405

Socio-Economic

Highest Level of Education

	2001	1996
None	13,954	13,271
Some Primary	7,664	5,604
Complete Primary	2,223	1,626
Secondary	8,851	8,178
Grade12	4,937	3,953
Higher	1,916	1,346

Persons Attending Education Institutions

Institution	2001	1996
None	9,930	
Pre-school	767	
School	26,622	
College	59	
Technikon	27	
University	27	
Adult Education Centre	21	
Other	29	

Economic Active Population

	2001	1996
Employed	11,746	13,783
Unemployed	12,043	6,691
No Economical Active	22,022	
Total Labour Force	23,789	

Industry

	2001	1996
Agriculture/Forestry/Fishing	2,756	3,913
Community/Social/Personal	1,896	1,456
Construction	515	1,254
Electricity/Gas/Water	477	852
Financial/Insurance/Real Estate/Business	398	320
Manufacturing	1,021	672
Mining/Quarrying	46	124
Other	0	

Private Households	2,365	1,840
Transport/Storage/Communication	298	536
Undetermined	468	1,654
Wholesale/Retail	1,497	1,291

Occupation

	2001	1996
Clerks	695	532
Craft/Trade	1,107	1,817
Elementary	4,608	5,144
Legislators/Senior Officials	416	483
Unspecified/Not Economically Classified	0	
Plant/Machine Operators	1,279	768
Professionals	460	802
Service Workers	906	965
Agricultural/Fishery	1,022	
Technicians	827	475
Undetermined	415	

Individual Monthly Income

	2001	1996
None	60,847	42,835
R 1 to R 400	7,375	3,725
R 401 to R 800	7,328	8,634
R 801 to R 1,600	1,761	1,561
R 1,601 to R 3,200	1,453	1,308
R 3,201 to R 6,400	1,155	1,742
R 6,401 to R 12,800	532	432
R 12,801 to R 25,600	161	114

R 25,601 to R 51,200	41	41
R 51,201 to R 102,400	31	32
R 102,401 to R 204,800	46	
R 204,801+	9	

Travel to work

	2001	1996
Bicycle	643	
Bus	324	
Car Driver	1,623	
Car Passenger	2,617	
Minibus/Taxi	2,460	
Motorcycle	147	
Train	66	
NA	42,004	
Foot	30,716	
Other	133	

Households and Housing

Household Size (Average)

Household Size	2001	1996
1	3,239	
2	2,908	
3	2,368	
4	2,450	
5	1,892	
6	1,555	
7	1,084	
8	775	

9	563
10+	1,169

Dwelling Type (Dominant)

	2001	1996
Formal	10,523	7,008
Informal	2,066	1,876
Traditional	5,376	5,517
Other	38	49

Rooms per Household (Average)

Room(s)	2001	1996
1	1,360	1,322
2	3,566	1,847
3	2,161	1,781
4	3,599	3,514
5	2,173	1,833
6	1,874	1,611
7	1,221	992
8	776	675
9	484	416
10 +	790	495

Household Income

	2001	1996
None	5,128	2,266
R 1 to R 4,800	3,067	1,384
R 4,801 to R 9,600	4,212	2,560

R 9,601 to R 19,200	2,604	3,375
R 19,201 to R 38,400	1,484	1,406
R 38,401 to R 76,800	952	745
R 76,801 to R 153,600	579	505
R 153,601 to R 307,200	235	236
R 307,201 to R 614,400	68	29
R 614,401 to R 1,228,800	27	
R 1,228,801 to R 2,457,600	22	
R 2,457,600+	12	

Energy Source for Cooking (Dominant)

	2001	1996
Electricity	4,127	
Gas	272	
Paraffin	1,095	
Wood	2,421	
Coal	9,157	
Animal Dung	836	
Solar	45	
Other	51	

Energy Source for Lighting (Dominant)

	2001	1996
Electricity	12,050	9,316
Gas	61	175
Paraffin	495	1,289
Candles	5,272	3,630
Solar	23	
Other	101	1

Access to Piped Water (% Households)

	2001	1996
Dwelling	3,213	5,488
Inside Yard	7,906	3,357
Communal Stand	1,634	1,061
Communal Stand 200m+	2,098	
Borehole	1,614	3,284
Spring	441	1,006
Rain Tank	101	206
Dam/Pool/Stagnant Water	283	
River/Stream	373	
Water Vendor	138	
Other	200	77

Toilet Facilities (% Households)

	2001	1996
Flush Toilet	8,931	6,624
Flush Septic Tank	327	
Chemical Toilet	176	
VIP	2,132	
Pit Latrine	3,506	4,063
Bucket Latrine	828	2,458
None	2,102	1,332

Telephone Facilities (% Households)

	2001	1996
Telephone and Cellphone	1,434	
Telephone	1,526	3,450
Cellphone	2,772	

Neighbour	1,455	1,175
Public Telephone	8,120	5,832
Other Nearby	777	1,107
Other Not Nearby	720	1,121
No Access	1,199	1,772

Refuse Removal (% Households)

	2001	1996
Municipal Weekly	9,282	7,098
Municipal Other	53	411
Communal Dump	108	307
Own Dump	6,398	5,386
No Disposal	2,160	1,131

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