

# **Mpumalanga Provincial Government**



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

### **Integrated Resource Information Report**

#### **Nkomazi**

06 May 2005

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

# Nkomazi

## Summary

Nkomazi is situated in the southern lowveld of Mpumalanga between the southern boundary of the Kruger National Park and Swaziland. Malelane and Komatipoort is the major towns of the area. Warm summers and moderate winters characterize the climate of the area. The annual rainfall varies between 500 mm and 1600 mm. The area of 3 230 km<sup>2</sup> is covered by savanna veld. The area is the main sugar production area of the province. Cattle and maize are produced in the area. The TSB sugarmill is found at Malelane.

## GENERAL INFORMATION

Common Name(s)	Nkomazi / KwaMhlushwa
Area	323,672.0 ha
Coordinates	31 °15'00"E 25 °18'00"S 32 °00'35"E 26 °00'00"S
District Municipality	Ehlanzeni District Municipality
Region	Ehlanzeni Region

## Towns

### Name

Emangweni  
Komatipoort  
Kwamandulu  
Malelane  
Mzinti  
Ngwenyeni  
Schoemansdal  
Sibayeni  
Tonga

## Neighbouring Municipalities

### Name

Mbombela



## Natural Resources

### Climate

#### Rainfall

Rainfall Range 500 to 1,700 mm per year

#### Temperature

Temperature Zone 67A/35

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	21.5	20	17.9	15.6	14.2	18	20.1	20.8
Tn	17.5	15.5	12.6	9.4	7.4	12.7	15.6	16.6
Td	25.5	24.5	23.2	21.8	21	23.7	24.6	25
Tmax	27.8	27.1	26.2	25.3	24.9	26.3	27.2	27.4
Tmin	15.2	12.9	9.6	5.9	3.5	9.7	13	14

Temperature Zone 77B/46

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	23.5	22.2	20.4	18.5	17.1	20.6	22.3	22.9
Tn	17.5	16.6	15.1	13.6	12.6	15.2	16.8	17.4
Td	29.5	27.8	25.7	23.4	21.6	26	27.8	28.4
Tmax	33.9	31	28.7	26.2	24.2	29.1	30.9	31.5
Tmin	14.1	13.4	12.1	10.8	10	12.1	13.7	14.3

Temperature Zone 88B/46

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
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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

Temperature Zone 89B/46

	DJF	Mar	Apr	May	JJA	Sep	Oct	Nov
T	26.4	28.7	22.4	19.2	17.3	20.9	24.3	25.8
Tn	23	22.3	19.1	14.8	12.5	16.9	20.8	22.4
Td	29.8	29.1	25.7	23.6	22.1	24.9	27.8	29.2
Tmax	31.74	31.04	27.6	26.11	24.84	27.8	29.8	31.44
Tmin	21.05	20.3	17.22	12.24	9.76	14.61	18.8	20.8

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	37,896.5	11.7
Exposed rock areas with miscellaneous soils (Ib)	5,471.6	1.7
Grey regic sands (Ha)	26,224.8	8.1
Pedologically young soils (lime occurs regularly) (Fb)	104,557.7	32.3
Pedologically young soils (lime rare or absent) (Fa)	22,565.9	7.0
Red, high base status > 300 mm deep (no dunes) (Ae)	14,110.0	4.4
Vertic, melanic, and/or red structured diagnostic horizons (Ea)	112,073.5	34.6

### Soil Clay Contents

<b>ClayClass</b>	<b>Area (ha)</b>	<b>%</b>
Clay	47,839.9	14.8
Clayey	23,626.9	7.3
Loam	63,748.0	19.7
Loam & Clay	77,426.9	23.9
Loamy Sand	33,205.1	10.3
No Data	569.6	0.2
Sandy	50,667.1	15.7
Sandy Loam	15,396.3	4.8
Very Sandy	10,801.0	3.3
Waterbodies	390.2	0.1

### Soil Depth

<b>Soil Depth Class</b>	<b>Area (ha)</b>	<b>%</b>
Deep	7,401.1	2.3
Medium Deep	2,596.7	0.8
Medium Shallow	97,698.3	30.2
No Data	569.6	0.2
Shallow	60,805.4	18.8
Steep Slopes	49,477.2	15.3
Very Deep	3,275.8	1.0
Very Shallow	100,431.5	31.0
Very Steep Slopes	1,026.5	0.3
Waterbodies	390.2	0.1

### Soil Form Association

<b>Soil Form Association Class</b>	<b>Area (ha)</b>	<b>%</b>
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Ar, My, Va	1,530.1	0.5
Es, Gs, Cf	24,585.9	7.6
Gs, Cf, Es	84,375.0	26.1
Hu (30%), Sd (30%)	64,925.7	20.1
Hu, Sd, Sw, Gs	8,669.2	2.7
Hu-dominant	7,091.2	2.2
Lithosols, Cv, Gc, Hu	369.9	0.1
Lithosols, Cv, Va	5,181.3	1.6
Lithosols, Hu, Cv, Gc	803.8	0.2
Lithosols, Hu, Cv, Sd, Sw	59,251.5	18.3
No Data	569.6	0.2
Rg, Ar	112.8	0.0
Sd, Bo, My, Ar, Hu	65,815.7	20.3
Waterbodies	390.2	0.1

## Topography

### Elevation

Range (m)	Area (ha)	%
101 - 200	25,412	7.9
201 - 300	193,936	59.9
301 - 400	86,937	26.9
401 - 500	9,362	2.9
501 - 600	6,687	2.1
601 - 700	1,337	0.4

### Slope

Class	Area (ha)	%
Level (0 - 3%)	158,511	49.

Moderate (4 - 15%)	111,955	34.6
Steep (16 - 25%)	22,169	6.8
Very Steep (25+%)	31,037	9.6

## Vegetation

### Acocks Veld Type (1975)

Acocks Veld Type	Area (ha)	%
Lowveld (10)	247,033	76.3
Lowveld Sour Bushveld (9)	68,759	21.2
Zululand Thornveld (6)	7,467	2.3

## Water Resources

### Dams

Dam	Primary Drainage Region	River	Capacity
Driekoppies	Crocodile/Komati	Lomati	

### Drainage Regions

Drainage Region / Catchment				
Primary	Secondary	Tertiary	Area	%
Elands	Elands	Crocodile River	63,386.3	19.6
Elands	Elands	Nels River	554.9	0.2
Elands	Elands	Shiyalongube River	14,679.2	4.5
Komati	Komati	Komati River	166,906.7	51.6
Komati	Komati	Lomati River	69,739.4	21.5
Mbuluzi	Mbuluzi	Black Mbuluzi River	2,890.1	0.9

## Land Utilisation

### Land Cover (1995)

<b>Class</b>	<b>Area (ha)</b>	<b>%</b>
Barren rock	2.0	0.0
Cultivated: permanent - commercial dryland	3,545.0	1.1
Cultivated: permanent - commercial irrigated	5,709.7	1.8
Cultivated: permanent - commercial sugarcane	44,520.5	13.8
Cultivated: temporary - commercial dryland	440.9	0.1
Cultivated: temporary - commercial irrigated	3,192.8	1.0
Cultivated: temporary - semi-commercial/subsistence dryland	12,680.4	3.9
Degraded: forest and woodland	13,940.2	4.3
Degraded: thicket & bushland (etc)	2,062.8	0.6
Forest	1,082.7	0.3
Forest and Woodland	151,715.7	46.9
Forest plantations	11,215.0	3.5
Mines & quarries	160.7	0.0
Thicket & bushland (etc)	59,624.6	18.4
Unimproved grassland	6,805.5	2.1
Urban / built-up land: industrial / transport	179.1	0.1
Urban / built-up land: residential	5,960.3	1.8
Waterbodies	824.8	0.3

### Silos

### Co-operatives

<b>Location</b>	<b>Co-operative</b>
Komatipoort	TSB
Komatipoort	Laeveld Korporasie (LK)
Malelane	TSB
Malelane	Laeveld Korporasie (LK)

## Conservation Areas

<b>Name</b>	<b>Authority</b>	<b>Area (ha)</b>
Komatipoort Area	Department of Public Works	253
Ligwalagwala Conservancy	Mpumalanga Parks Board	12443
Ligwalagwala Conservancy	Mpumalanga Parks Board/Commu	195
Lion Park		
Mahushe Shongwe Nature Reser	Mpumalanga Parks Board/Commu	1139
Mananga CARE Program	Mpumalanga Parks Board/Commu	253
Mawewe Cattle/Game Project	Mpumalanga Parks Board/Commu	9189
Vlakkbult Cattle/Game Project		

## Demographic Information

### Population Distribution and Dynamics

#### Population Group (Dominant)

	2001	1996
African	329,584	273,095
Coloured	596	487
Indian	216	172
White	4,020	2,995
Total	334,416	277,967

#### Home Language (Dominant)

	2001	1996
Afrikaans	4,205	2,561
English	1,339	728
IsiNdebele	134	70
IsiXhosa	530	388
IsiZulu	2,745	2,982
Sepedi	307	229
Sesotho	1,143	347
Setswana	775	144
SiSwati	286,297	235,698
Tshivenda	338	105
Xitsonga	35,952	32,589
Other	652	461

#### Place of Birth

	2001	1996
RSA	302,499	

SADC (Excluding RSA)	31,632
RestAfrica	88
Europe	107
Asia	80
North America	3
Central/South America	6
Australia/New Zealand	0

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### Citizenship

	2001	1996
RSA	321,274	270,229
SADC (Excluding RSA)	13,023	7,096
Rest of Africa	33	22
Europe	36	13
Asia	80	3
North America	0	0
Central/South America	1	0
Australia/New Zealand	0	0

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### Demographic Characteristics

#### Age

	2001	1996
Age 0 - 4	43,995	40,474
Age 5 - 14	92,379	78,781
Age 15 - 34	123,522	95,332
Age 35 - 64	60,935	44,373
Age 65+	13,585	10,996

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#### Gender

	<b>Males</b>		<b>Females</b>	
	<b>2001</b>	<b>1996</b>		<b>2001</b>
0 to 4	21,614	20,004	0 to 4	22,381
5 to 14	45,910	39,024	5 to 14	46,469
15 to 34	58,426	43,823	15 to 34	65,096
35 to 64	26,904	19,376	35 to 64	34,031
Over 65	4,856	4,442	Over 65	8,729
<b>Total</b>	<b>157,710</b>	<b>126,669</b>	<b>Total</b>	<b>176,706</b>

#### Persons with Disabilities

	<b>2001</b>	<b>1996</b>
Sight	3,748	5,177
Hearing	2,266	2,356
Communication	570	
Physical	4,348	4,347
Intellectual	1,180	1,019
Emotional	1,613	
Multiple	1,485	374

#### Socio-Economic

##### Highest Level of Education

	<b>2001</b>	<b>1996</b>
None	68,520	54,182
Some Primary	22,816	17,365
Complete Primary	7,522	6,853
Secondary	28,425	22,981
Grade12	20,938	11,577
Higher	6,441	3,175

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Persons Attending Education Institutions

<b>Institution</b>	<b>2001</b>	<b>1996</b>
None	10,704	
Pre-school	3,639	
School	116,058	
College	411	
Technikon	195	
University	99	
Adult Education Centre	212	
Other	272	

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Economic Active Population

	<b>2001</b>	<b>1996</b>
Employed	54,951	42,121
Unemployed	38,914	22,300
No Economical Active	91,736	
Total Labour Force	93,865	

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Industry

	<b>2001</b>	<b>1996</b>
Agriculture/Forestry/Fishing	25,678	14,758
Community/Social/Personal	7,338	5,449
Construction	2,101	2,982
Electricity/Gas/Water	386	627
Financial/Insurance/Real Estate/Business	1,946	1,030
Manufacturing	3,843	4,140
Mining/Quarrying	999	1,414
Other	3	

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Private Households	3,340	3,095
Transport/Storage/Communication	1,486	1,540
Undetermined	3,196	3,735
Wholesale/Retail	4,635	3,907

### Occupation

	2001	1996
Clerks	2,735	1,243
Craft/Trade	5,183	5,550
Elementary	22,775	16,304
Legislators/Senior Officials	1,372	1,238
Unspecified/Not Economically Classified	0	
Plant/Machine Operators	4,848	3,979
Professionals	1,693	3,181
Service Workers	3,863	3,608
Agricultural/Fishery	5,950	
Technicians	3,876	1,113
Undetermined	2,658	

### Individual Monthly Income

	2001	1996
None	242,942	197,948
R 1 to R 400	45,853	13,818
R 401 to R 800	26,859	29,702
R 801 to R 1,600	7,961	4,522
R 1,601 to R 3,200	5,510	3,198
R 3,201 to R 6,400	3,356	3,827
R 6,401 to R 12,800	1,150	475
R 12,801 to R 25,600	317	120

R 25,601 to R 51,200	256	75
R 51,201 to R 102,400	70	38
R 102,401 to R 204,800	123	
R 204,801+	19	

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#### Travel to work

	2001	1996
Bicycle	1,347	
Bus	11,726	
Car Driver	4,244	
Car Passenger	7,878	
Minibus/Taxi	5,040	
Motorcycle	850	
Train	444	
NA	158,836	
Foot	140,901	
Other	3,153	

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#### Households and Housing

##### Household Size (Average)

Household Size	2001	1996
1	12,856	
2	10,031	
3	9,350	
4	9,318	
5	8,125	
6	6,328	
7	4,917	
8	3,552	

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9	2,538
10+	4,759

Dwelling Type (Dominant)

	2001	1996
Formal	54,937	32,214
Informal	3,800	1,919
Traditional	12,897	18,153
Other	136	263

Rooms per Household (Average)

Room(s)	2001	1996
1	16,145	9,281
2	14,957	11,126
3	11,061	9,032
4	9,992	8,033
5	6,149	4,826
6	5,081	4,144
7	3,339	2,403
8	2,132	1,574
9	1,225	913
10 +	1,690	1,148

Household Income

	2001	1996
None	18,390	8,613
R 1 to R 4,800	15,492	7,794
R 4,801 to R 9,600	18,741	13,181

R 9,601 to R 19,200	11,584	11,634
R 19,201 to R 38,400	6,033	4,049
R 38,401 to R 76,800	2,882	1,435
R 76,801 to R 153,600	1,453	758
R 153,601 to R 307,200	566	449
R 307,201 to R 614,400	217	88
R 614,401 to R 1,228,800	67	
R 1,228,801 to R 2,457,600	94	
R 2,457,600+	34	

#### Energy Source for Cooking (Dominant)

	<b>2001</b>	<b>1996</b>
Electricity	18,779	
Gas	1,770	
Paraffin	9,734	
Wood	39,171	
Coal	1,614	
Animal Dung	208	
Solar	191	
Other	305	

#### Energy Source for Lighting (Dominant)

	<b>2001</b>	<b>1996</b>
Electricity	33,938	13,512
Gas	345	667
Paraffin	8,324	18,906
Candles	28,680	19,518
Solar	174	
Other	311	17

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

	<b>2001</b>	<b>1996</b>
Dwelling	4,179	10,288
Inside Yard	22,466	14,481
Communal Stand	15,828	15,394
Communal Stand 200m+	19,489	
Borehole	498	2,456
Spring	583	5,532
Rain Tank	367	3,786
Dam/Pool/Stagnant Water	545	
River/Stream	2,520	
Water Vendor	289	
Other	5,007	912

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**Toilet Facilities (% Households)**

	<b>2001</b>	<b>1996</b>
Flush Toilet	5,368	4,070
Flush Septic Tank	1,003	
Chemical Toilet	2,349	
VIP	20,107	
Pit Latrine	21,582	33,646
Bucket Latrine	448	203
None	20,914	14,964

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**Telephone Facilities (% Households)**

	<b>2001</b>	<b>1996</b>
Telephone and Cellphone	2,843	
Telephone	1,732	2,309
Cellphone	14,177	

Neighbour	3,356	1,734
Public Telephone	35,844	29,535
Other Nearby	3,923	2,715
Other Not Nearby	3,824	3,413
No Access	6,073	13,134

Refuse Removal (% Households)

	2001	1996
Municipal Weekly	6,818	5,526
Municipal Other	846	758
Communal Dump	939	1,164
Own Dump	53,390	35,557
No Disposal	9,779	9,351

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