

MAP UNIT	LAND COVER TYPE	LAND USE TYPE	1995 LAND COVER		2000 LAND COVER		1995 LAND USE		2000 LAND USE		1995 DESCRIPTION	2000 DESCRIPTION
			%	ha	%	ha	%	ha	%	ha		
3	Thicket, Bushland, Bush clumps, High fynbos	Natural	1	2 264	7.3	14 044	38.5	74 738	42.7	82 149	Patches in the Klipriviersberg Nature Reserve, west of Boksburg, north and west of Kempton Park, around Tembisa, south of Vandykpark, between Springs and Brakpan, north of Daggafontein, east of Dersley and northeast of Nigel.	Patches in the Klipriviersberg Nature Reserve, surrounding Tokoza and Katlehong, between Vosloorus and Boksburg, between Kempton Park and Daveyton, north of the Kaalspruit, surrounding Bapsfontein and east of Springs and Kwa Thema.
6	Unimproved grassland	Natural	34	65 834	28.7	55 215					The largest portion of the natural land uses, covering large portions of the south and east of the EMM and areas to the north not covered by agricultural land uses.	
13	Waterbodies	Natural	1	1 748	1.7	3 271					Largest wetlands: RAMSAR site of Blesbokspruit, stretching north-south along eastern boundary of EMM. Wetlands also along Natalspruit in southwest and the Rietvleirivier in northwest. Remainder of waterbodies include pans, dams and lakes scattered throughout the area, many being artifacts of mining and quarrying.	Wetlands along RAMSAR site of Blesbokspruit and east-west tributary, along Natalspruit and Rietspruit in southwest, and Rietvleirivier in northwest. Remainder of waterbodies include pans, dams and lakes scattered throughout the area
14	Wetlands	Natural	2.5	4 892	5	9 619						
16	Bare rock and soil (erosion: dongas/gullies)	Degraded	0	0	0.01	19	0.01	4	0.01	19	None	Patches north of Nigel industrial, west of Kwa Thema and northeast of Jet Park industrial area.

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20	Degraded: shrubland and low fynbos	Degraded	0.01	4	0	0					Very small area southeast of Bapsfontein.	None
7	Improved grassland	Transformed (grazing)	1	2 555	1.6	3 079	1	2 555	1.6	3 079	Scattered in small patches throughout the EMM.	Mostly in an east-west band from Alberton to the east of Springs. Also east of Katlehong, south of Vosloorus, north of Nigel, east of Daveyton and south and north of Kempton Park.
9	Forest plantations (Pine sp)	Transformed (forestry)	1.5	2 721	0.8	1 539	1.5	2 721	0.9	1 731	Scattered in small patches throughout the EMM.	North of Bapsfontein and westwards to the northwest of Clayville and Tembisa, north of Germiston, west of Springs, at Zondwaba Park and southwest of Nigel.
10	Forest plantations (Acacia sp)				0.1	192						Mostly scattered between the Pine plantations north of Bapsfontein.
23	Cultivated: permanent-commercial irrigated	Transformed (cultivation)	0	0	0.01	19	18	34 063	15.21	29 262	None	Small section east of tributary of Rietvleirivier north of the R25.
26	Cultivated: temporary-commercial irrigated		0.5	320	1.2	2 309					Farming activities are grouped in the northeastern part of Ekurhuleni, where more than a third of the land is cultivated: areas surrounding Bapsfontein, areas north of the Benoni Agricultural Holdings	Mostly north and south of Bapsfontein, smaller areas west of Daveyton, north of Clayville, north of Dawnpark, and south of Tokoza, Vosloorus and Tsakane.

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27	Cultivated: temporary-commercial dryland		17.5	33 743	14	26 934					and east of the R21 highway. Smaller agricultural activities lie just south of Sunward Park, while the remainder of the agricultural activities is grouped on the southern border of the metropolitan area.	Large areas from north of Clayville southeastwards to the east of Springs. Also surrounding Nigel, west of Brakpan, between Kwa Thema, Tsakane and Vosloorus and south of Tokoza.
30	Urban/built-up: residential	Transformed (urban)	22.89	43 933	0.02	38	29.89	57 518	27.38	52 676	Urban/residential concentrated along the western edge and central spine of EMM. Closest in to the mining, commercial and industrial hub are suburban areas of middle to high income communities, several of them surrounding attractive water bodies, which are a feature of this metropolitan area.	West of Blesbokspruit, east and north of Nigel industrial area.
32	Urban/built-up: residential (formal suburbs)				14.5	27 898						Surrounding all towns and areas between towns in the EMM.
34	Urban/built-up: residential (mixed)				0.02	38						Small areas north of Benoni.
35	Urban/built-up: residential (hostels)				0.04	77						Within various formal townships such as Tokoza, Katlehong and Kwa Thema.
36	Urban/built-up: residential (formal township)				(see above total urban residential)	4.9						9 427
37	Urban/built-up: residential (informal township)				1	1 924				On the outskirts of various formal townships.		

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38	Urban/built-up: residential (informal squatter camp)				0.6	1 154					A large number of informal settlements exist on the fringes of the old black townships. These tend to be the areas with the highest level of unemployment.	Bordering mostly informal townships, but also some formal townships.
42	Urban/built-up: small-holdings (grasslands)		7	13 585	6.3	12 120					The largest complex of small-holdings is situated in an east-west band lying east of Kempton Park and north-west of Daveyton. The second largest complex is situated west of Kwa Thema, surrounding the Sallies Gold Mine and Springs Municipal Crushers. There are smaller patches of agricultural holdings scattered throughout the metropolitan area such as north of Bapsfontein, west of Clayville, west of Benoni, north of Boksburg, surrounding Kwa Thema, east and northeast of Springs and south of Alberton.	
43	Urban/built-up: commercial (mercantile)	Transformed (commercial)	2.5	4 557	1.2	2 309	2.5	4 557	2.3	4 425	Evenly distributed, multi-nodal structure. All the CBDs, currently experience problems of urban decay, as the cream of the retail component of the CBDs have been drawn away to the four main shopping malls in the area - Eastgate, East Rand	Within towns and suburbs of Alberton, Germiston, Boksburg, Benoni, Brakpan, Springs, Daveyton and Nigel.

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44	Urban/built-up: commercial (education, health, IT)				1.1	2 116					Mall, Lakeside Mall and Alberton Mall. Commercial activities are concentrated within higher income areas (Kempton Park, Edenvale, a portion of Bedfordview, Boksburg Central, Benoni Central, Brakpan and small portions of Springs). Very little commercial activity within the township complexes.	Scattered throughout the EMM, mainly in and surrounding major towns.
45	Urban/built-up: industrial / transport (heavy)	Transformed (industrial)	2.6	5 069	2.2	4 233	2.6	5 069	5.4	10 389	Olifantsfontein/ Clayville industrial area: north of Tembisa - heavy industrial activity and even some noxious activity. Isando, Spartan and Jet Park complex: west of the Johannesburg International Airport - light and heavy industrial activities. Edenvale: smaller light industrial and commercial areas. Germiston: a portion to the east of the Germiston CBD, and	Olifantsfontein/ Clayville industrial area, east of the Rietvleirivier, southeast of Kempton Park, east of Germiston and Alberton, Alrode, Tomado/Pumulo, sections of Springs and Nigel industrial areas, east of Benoni farms and the Blesbokspruit.

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46	Urban/built-up: industrial / transport (light)				3.2	6 156					a portion to the west. Wadeville, Alrode and Roodekop industrial areas: to the south - heavy, noxious and light industrial activities. Nodes in the central, eastern and southern parts of the EMM: Central: Boksburg East, Anderbolt, Benoni South and Apex industrial areas: heavy and noxious industrial activities. East: Brakpan (Vulcania, Fulcrum and New Era, Springs (Nuffield), and Nigel (Vorsterkroon, Pretoriusstad and Prosperita).	Isando, Spartan and Jet Park complex, Germiston industrial area, Boksburg East, Anderbolt, Benoni South and Apex industrial areas, Alberton, Alrode, Wadeville industrial area, Brakpan/Springs industrial area and small sections of the Springs/Nigel industrial area.
47	Mines+Quarries: underground / sub-surface		6	11 147	0.1	192	6	11 147	4.5	8 657	Mines and quarries occur in four major concentrations: Reiger Park between Germiston and Boksburg, the area east of Benoni, an area east and south of Springs, and 3 sites in the vicinity of Kwatsaduza. The first 3 areas are	13 closed and 7 open underground mines throughout the EMM all within broad mining belts described in 1995 mining land use.

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48	Mines+Quarries: surface-based	Transformed (mining)			0.6	1 154					respectively known as Germiston/Boksburg, Benoni/Brakpan/ Springs and Springs/Nigel mining belts. Mining occurs in a linear form, along a belt which runs to the north of the Germiston and Boksburg CBDs, and then along a broad strip of land roughly between the Benoni CBD and Daveyton to the north, and Brakpan and Springs to the south. To the south between Springs and Nigel another major concentration of mining activity exists.	4 open surface based mines/works and 4 closed mines. 46 opencast mines/ works of which 12 are operational and 34 have closed down. Mainly located in the Nigel/ Springs mining belt, east of Kwa Thema and scattered in the north of the EMM.
49	Mines+Quarries: mine tailings / waste dumps				3.8	7 311						

Please note:

The 1995 land cover and the 2000 land cover data sets were mapped at different scales (1 : 250 000 and 1 : 50 000 respectively). The changes reflected in the table above may therefore be due to the scale difference and may not be due to actual land cover changes.

