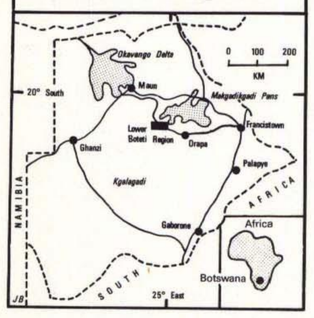
SOIL MAP OF THE LOWER BOTETI REGION CENTRAL DISTRICT REPUBLIC OF BOTSWANA

1:50 000

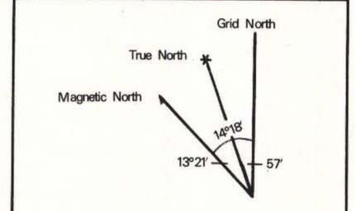
SHEET LOCATION



ADJOINING SHEETS

2024 C4	2024 D3	2024 D4
RAKOPS 2124 A2	XHUMO 2124 B1	MOPIPI 2124 B2
2124 A4	2124 B3	2124 B4

The numbered lines indicate the 1000 Metre Universal Transverse Mercator Grid , Zone 35, Clarke 1880 (Modified,) Spheroid



At Sheet Centre
Magnetic Variation as at January 1975
Annual Change :8' East

Metres 10000 0 1 2 3 4 5 6 7 8 9 10 KILOMETRES

LANDFORMS AND SOILS OF THE 895–908m LEVEL

Fluvial Plain

A1	Je1	Eutric Fluvisols	0/1/2
	Je2	Eutric Fluvisols	7/2/2
	[Je4	Eutric Fluvisols	5,9/2/2]
A2	Je2	Eutric Fluvisols	7/2/2
	Je1	Eutric Fluvisols	0/1/2
	Je3	Eutric Fluvisols	9/2/2
A3	Re1	Eutric Regosols	0/0,1/4
	Rc1	Calcaric Regosols	0/0,1/4
	Je1	Eutric Fluvisols	0/1/2

Deltaic Plain

A4	Rc1	Calcaric Regosols	0/0,1/4
	[Je1	Eutric Fluvisols	0/1/2]
	[Je2	Eutric Fluvisols	7/2/2]

Lacustrine Plain

A5	Zo1	Orthic Solonchaks	0/2/1
	[Zg1	Gleyic Solonchaks	0/2/0]
A6	Zg1	Gleyic Solonchaks	0/2/0
	Zo1	Orthic Solonchaks	0/2/1

LANDFORMS AND SOILS OF THE 908–920m LEVEL

Fluvial Plain

B1	Je2	Eutric Fluvisols	7/2/2
	Je1	Eutric Fluvisols	0/1/2
	Re1	Eutric Regosols	0/0,1/4
	[So	Orthic Solonetz	0/3/1]
	[Je3	Eutric Fluvisols	9/2/2]
B2	Je2	Eutric Fluvisols	7/2/2
	Lg1	Gleyic Luvisols	0/1,2/1
	[Je1	Eutric Fluvisols	0/1/2]
	[Je2	Eutric Fluvisols	7/2/2]
B3	Re1	Eutric Regosols	0/0,1/4

Lacustrine Plain

B4	Rc1	Calcaric Regosols	0/0,1/4
B5	Rc2	Calcaric Regosols	5/0,1/4
	Rc1	Calcaric Regosols	0/0,1/4
	Xc1	Calcic Xerosols	2,3/0,1/5
B6	Zo2	Orthic Solonchaks	0/1,2/1,3
	Xc3	Calcic Xerosols	4,7/0,1/5
	Rc1	Calcaric Regosol	0/0,1/4
	[Xc2	Calcic Xerosols	4/0,1/5]

Lacustrine Plain (Cont.)

B7	Zg2	Gleyic Solonchaks	6 2/0
	Zo2	Orthic Solonchaks	0/1,2/13
	Xc3	Calcic Xerosols	4,7/01/5
	[Rc1	Calcaric Regosols	0/0,1/4]
B8	So	Orthic Solonetz	0/3/1
B9	So	Orthic Solonetz	0/3/1
	Rc1	Calcaric Regosols	0/0,1/4
	Xc3	Calcic Xerosols	47/01/5
	[Xc2	Calcic Xerosols	4/0,1/5]
B10	Xc2	Calcic Xerosols	4/0,1/5
	Rc2	Calcaric Regosols	5/0,1/4
	Rc1	Calcaric Regosols	0/0,1/4
	[Xc3	Calcic Xerosols	4,7/0,1/5]
	[Zo2	Orthic Solonchaks	0/1,2/1,3]
B11	Xc3	Calcic Xerosols	4,7/0,1/5
	Rc1	Calcaric Regosols	0/0,1/4
B12	Xc3	Calcic Xerosols	4,7/0,1/5
	Xc2	Calcic Xerosols	4/0,1/5
	Zo2	Orthic Solonchaks	0/1,2/1,3
	So	Orthic Solonetz	0/3/1
	[Rc1	Calcaric Regosols	0/0,1/4]

Structurally Controlled Lacustrine Plain

B13	Rc3	Calcaric Regosols	2,5/3/3
	Rc4	Calcaric Regosols	3/1,2/3
	Xc1	Calcic Xerosols	2,3/0,1/5
	[I	Lithosols	0/0,3/6]
B14	Xc1	Calcic Xerosols	2,3/0,1/5
	Rc1	Calcaric Regosols	0/0,1/4
B15	Xc1	Calcic Xerosols	2,3/01/5
	I	Lithosols	0/1,3/6
	Rc3	Calcaric Regosols	2,5/3/3
	Rc4	Calcaric Regosols	3/1,2/3

LANDFORMS AND SOILS OF THE 920–940m LEVEL

Channel

C1	Re1	Eutric Regosols	0/0,1/4

Lacustrine Plain

C2	Rc2	Calcaric Regosols	5/0,1/4
	Rc1	Calcaric Regosols	0/0,1/4
C3	Xc2	Calcic Xerosols	4/0,1/5
	Rc2	Calcaric Regosols	5/0,1/4

Structurally Controlled Lacustrine Plain

C4	Xc1	Calcic Xerosols	2,3/0,1/5
	I	Lithosols	0/0,3/6

LANDFORMS AND SOILS OF THE >940 m LEVEL

Lacustrine Plain

D1	Re1	Eutric Regosols	0/0,1/4
	Rc2	Calcaric Regosols	5/0,1/4
D2	Rc1	Calcaric Regosols	0/0,1/4
D3	Xc2	Calcaric Xerosols	4/0,1/5
	Rc2	Calcaric Regosols	5/0,1/4

Soil Units are listed hierarchically according to the frequency of their occurrence in each mapping unit. The dominant soil unit is listed first. This is followed by the associated unit(s) which cover each at least 20% of the mapping unit. The included soil unit(s) with less than 20% coverage are designated by brackets [ ]

Soil units are subdivided according to soil phase , texture of the top 30 cm and drainage :

Soil Phase	Textural Class	Drainage Class
0 none	0 coarse (sand, loamy sand)	0 very poorly drained
1 stoney	1 medium (sandy loam , silty loam , silt)	1 poorly drained
2 petric	2 fine (sandy clay , clay loam , silty clay loam ,silty clay , clay)	2 imperfectly drained
3 petrocalcic lithic		3 moderatly well drained
4 shallow petrocalcic		4 well drained
5 moderatly deep petrocalcic		5 somewhat excessively drained
6 shallow duripan		6 excessively drained
7 slightly saline		
8 saline		
9 highly saline		
10 sodic		

TOPOGRAPHIC DATA

- Bridge
- Earth Bund
- Airstrip
- Pump House
- Gravel Road
- Tar Road Alignment
- Major Track
- Houses
- Built–up Area
- Spot Height (metre AMSL) ▲ 910
- Seasonal River
- Canal
- Permanent Water

SOURCES (1) Photomaps Republic of Botswana 1:50 000 Sheet 2124 A2 2124 B1 2124 B2 D.O.S. 1973, 1978, (2) Panchromatic Aerial Photography. Contract 118, September 1971~1:45 000, Contract 189, 139, July 1973, ~1:45 000, Contract Mopipi Swamp, April 1978,~1:40 000 Department of Surveys and Lands , Gaborone, Botswana .

Soil survey and map compilation : J.I.E.Breyer , 1979–82. Cartography: G.H.Adika, J.G.Maphanyane ,1983. Department of Environmental Science , University of Botswana 1983.