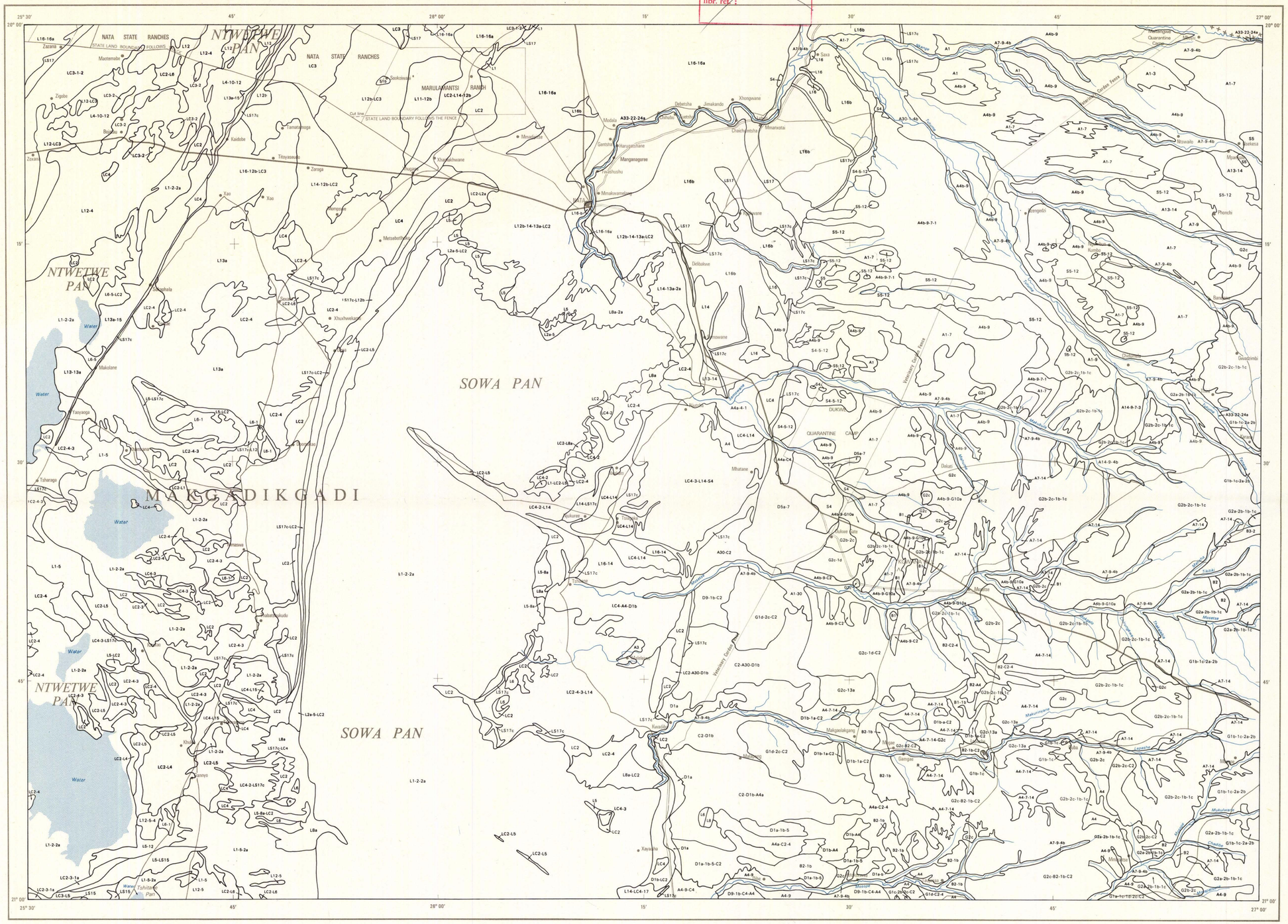
Soil Mapping and Advisory Service Project BOT/80/003

NATA

subject : Soil
scale : 1:250.000
map ref. : Bot 4.5
libr. ref. :
P.O. Box 353
6700 AJ Wageningen
The Netherlands

FAO/UNDP/GOVT. OF BOTSWANA



Topography based on Department of Surveys and Lands Sheet No. SF–35–2 with Project amendments
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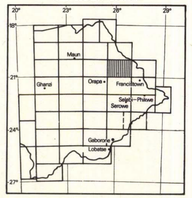
SHEET LOCALITY DIAGRAM



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ISRIC - WAGENINGEN
country : Botswana
subject : Soils
scale : 1:250.000
map ref. : Bot 4.5
libr. ref. : nntB

SCALE 1:250 000

Kilometres 5 0 5 10 15 20 25 30

Miles 5 0 5 10 15

The designations employed and the presentation of the material in this map do not imply the expression of any opinion whatsoever on the part of the United Nations or the Food and Agricultural Organization of the United Nations concerning the legal or constitutional status of any country or territory or concerning the delimitation of frontiers.

TOPOGRAPHICAL LEGEND

- International Boundary
- District Boundary
- Fence
- Main Road with Bridge
- Secondary Road
- Track
- Railway
- Town, Major Village
- Other Village
- Isolated Hill
- Power Line
- Pan
- River, Stream
- Fossil Valley
- Dam
- Borehole or Well
- Area Liable to Inundation
- Swamp or Marsh

LEGEND

SYMBOL	SOIL DESCRIPTION AND TOPOGRAPHY	CLASSIFICATION
	A–SOILS ON ALLUVIAL DEPOSITS	
A1	Deep to very deep poorly to imperfectly drained dark grayish brown to very dark gray clay Flat to almost flat	Pellic Vertisol partly sodic
A3	Deep to very deep imperfectly drained dark grayish brown sandy clayloam to clay Flat to slightly undulating	Vertic Cambisol
A4	Mod. deep to very deep imperfectly to mod. well drained dark grayish brown to brown sandy loam to sandy clay Flat to slightly undulating	Calcaric Cambisol
A4a	Deep to very deep imperfectly drained massive gray to grayish brown strongly calcareous sandy clayloam to clay (with calcic hor., but no cambic hor.) Flat to almost flat	Calcic Cambisol
A4b	Mod. deep to very deep imperfectly to mod. well drained dark grayish brown to brown clayloam to clay Flat to slightly undulating	Calcic Cambisol
A7	Deep to very deep poorly to imperfectly drained dark gray to grayish brown sandy clayloam to clay Flat	Gleyic Luvisol partly sodic
A9	Deep to very deep imperfectly to mod. well drained dark brown sandy clayloam to clay Flat to slightly undulating	Calcic Luvisol
A13	Mod. deep to deep mod. well to well drained dark red to strong brown sandy loam to sandy clayloam Almost flat to undulating	Chromic Luvisol
A14	Mod. deep to very deep mod. well to well drained dark brown to yellowish brown sandy loam to sandy clay Flat to undulating	Orthic Luvisol
A22	Deep to very deep well to somewhat excessively drained yellowish brown to dark brown loamy sands Flat to slightly undulating (natural levees)	Eutric Arenosol
A24a	Very deep poorly drained pale brown to brown sands to loamy sands Flat (channels)	Aranic Eutric Fluvisol
A30	Deep to very deep imperfectly to poorly drained (very) dark gray sandy clay to clay Flat	Calcaric Gleysol sodic
A33	Very deep well drained dark brown to brown (fine) sandy loam Almost flat to slightly undulating (natural levees)	Eutric Cambisol
	B–SOILS ON BASIC IGNEOUS AND METAMORPHIC ROCKS	
B1	Very shallow to shallow well to somewhat excessively drained reddish brown to dark brown sandy loam to clayloam Undulating to hilly	Eutric Regosol lithic
B1b	As B1, but calcareous	Calcaric Regosol
B2	Shallow jo mod. deep well drained red to strong brown sandy loam to clayloam Undulating to rolling (mainly on dolerites)	Chromic Luvisol partly petric and lithic
B3	Mod. deep to deep mod. well to drained red to strong brown sandy loam to clayloam Almost flat to undulating (on dolerites)	Chromic Luvisol
	C–SOILS ON HIGHLY CALCAREOUS MATERIALS	
C1	Very shallow (less than 10 cm) mod. well to well drained brown to dark grayish brown loamy sands to clayloam Flat to undulating	Lithosol
C1a	Very shallow imperfectly to well drained very dark gray to dark brown sandy loam to clayloam Flat to undulating	Rendzina litho-petrocalcic
C2	Very shallow to shallow imperfectly to well drained dark grayish brown to brown sandy loam to clayloam Flat to undulating	Calcaric Regosol litho-petrocalcic
C3	Very shallow to shallow mod. well to well drained dark yellowish brown to reddish brown sands to loamy sands Flat to undulating	Petrocalcic Arenosol litho-petrocalcic
C4	Shallow to mod. deep imperfectly to well drained very dark gray to reddish brown sandy loam to clayloams Flat to undulating	Calcic Cambisol partly petrocalcic
	D–SOILS ON FINE-GRAINED SEDIMENTARY ROCKS	
D1	Very shallow to mod. deep well drained yellowish brown to reddish brown sandy loam to clayloam Undulating to hilly	Dystric Regosol petric, partly lithic
D1a	As D1	Eutric Regosol
D1b	As D1	Calcaric Regosol
D5	Mod. deep to deep mod. well drained reddish brown to strong brown sandy loam to sandy clayloam Flat to slightly undulating	Ferric/Chromic Luvisol partly petric
D5a	Deep to very deep mod. well drained reddish yellow to yellowish red sandy loams and sandy clayloam Flat to slightly undulating	Chromic/Ferric Luvisol
D7	Massive mod. deep to deep mod. well drained dark brown to yellowish brown sandy loams to clayloams Flat to slightly undulating	Ferric/Orthic Luvisol partly petric/petroferric
D9	Deep mod. well drained reddish brown to dark yellowish brown sandy clayloam to sandy clay Flat to undulating	Calcic Luvisol
	G–SOIL ON ACID IGNEOUS AND METAMORPHIC	
G1	Very shallow to shallow mod. well to somewhat excessively drained grayish brown to yellowish red sands to sandy loam Undulating to rolling	Dystric Regosol lithic
G1a	As G1	Eutric Regosol
G1b	Mod. deep mod. well to well drained dark grayish brown to reddish brown sands to sandy loams Almost flat to rolling	Dystric Regosol shallow petric
G1c	As G1b	Eutric Regosol
G1d	As G1b	Calcaric Regosol
G2	Mod. deep to deep mod. well to well drained dark grayish brown to reddish brown loamy sands Almost flat to undulating	Dystric Regosol petric, some petroferric
G2a	As G2	Eutric Regosol
G2b	Mod. deep to deep mod. well to well drained brown to yellowish red sandy loams Almost flat to undulating	Ferralic Cambisol petric
G2c	Mod. deep mod. well to well drained strong brown to red sandy loam to sandy clayloam Undulating	Chromic Luvisol petric
G2d	As G2c, and including grayish brown	Ferric Luvisol, petric or petroferric
G10	Deep to very deep imperfectly to mod. well drained yellowish red to strong brown sandy clayloam to clay	Chromic Luvisol
G10a	As G10, but (dark) brown and iperfectly drained	Orthic Luvisol
G13	Mod. deep to deep imperfectly to well drained dark grayish brown to dark reddish brown sandy loam to sandy loam sandy clay. Flat to undulating	Calcic Luvisol
G13a	As G13, but with petrocalcic horizon	Calcic Luvisol petrocalcic
	L SOILS ON LACUSTRINE DEPOSITS	
L1	Very deep very poorly drained very dark grayish brown to olive siltloam to silty clayloam Flat	Gleyic Solonchak
L2	Very deep very poorly drained greenish gray silty clay to clay Flat	Gleyic Solonchak
L2a	As L2, but with duripan in the upper part	Gleyic Solonchak duripan
L4	Deep to very deep poorly drained light gray to light yellowish brown to dark grayish brown siltloam to silty clayloam Flat to almost flat	Orthic Solonchak
L5	Deep to very deep poorly to moderately well drained light olive brown to pale yellow fine sand to loamy fine sand, highly calcareous Flat to slightly undulating	Arenic Orthic Solonchak
L6	Very deep poorly drained (very) dark gray sandy clay to clay Flat	Calcaric Gleysol partly sodic
L8	Very deep very poorly drained light yellowish brown to olive gray stratified complexes of coarse sand to silt to clay Flat	Calcaric Fluvisol partly saline, sodic
L8a	As L8, but high salinity	Calcaric Fluvisol saline
L10	Deep to very deep well to somewhat excessively drained brown to pale brown fine sand to loamy fine sands Undulating	Calcaric Arenosol
L11	As L10, but with calcic hor., calcareous between 0–50 cm Almost flat to undulating	Calcic Arenosol
L12	Moderately deep well to somewhat excessively drained light brownish gray to very pale brown fine sand to loamy fine sand, massive calcrete at mod. depth, calc. 0–50 cm Flat to slightly undulating	Petrocalcic Arenosol
L12b	As L12, but non calcareous between 0–50 cm	Petrocalcic Arenosol
L13	Deep to very deep moderately well to well grayish brown fine sandy loam to silty clayloam Flat to undulating	Calcaric Regosol
L13a	As L13, but with duripan	Calcaric Regosol duripan
L14	Deep to very deep mod. well to well drained grayish brown fine sandy loam to clayloam, with calcic horizon Flat	Calcic Cambisol
L15	Mod. deep mod. well to well drained grayish brown to pale brown fine sandy loam to silty loam Flat	Calcic Cambisol petrocalcic
L16	Very deep well to somewhat excessively drained brown to pale brown fine sand to loamy fine sand non calcareous between 0 and 100 cm Undulating, dunes	Eutric Arenosol
L16b	Deep to very deep moderately well drained very dark greyish brown sand to loamy sand over dark greyish brown cemented loamy sand to sandy loam Almost flat lowlands	Eutric Arenosol
L17	Deep to very deep imperfectly to well drained very dark grayish brown to brown fine sandy loam	Eutric Regosol
	R–VERY SHALLOW SOILS ON STEEP HILLS, RIDGE AND ESCARPMENTS	
	S–SOILS ON COARSE-GRAINED SEDIMENTRY ROCKS	
S1b	Shallow to moderately deep somewhat excessively drained brownish yellow to yellowish red sands and loamy sands Undulating to hilly	Aranic Eutric Rlgosol
S4	Deep to very deep somewhat excessively drained reddish brown to brownish yellow medium to coarse sands and loamy sands Flat to undulating	Ferralic Arenosol
S5	Deep to very deep well to somewhat excessively drained red to strong brown fine sands to loamy fine sands Flat to undulating	Ferralic Arenosol
S12	Deep to very deep well to somewhat excessively drained yellowish red to yellowish brown loamy sands to sandy loams Flat to undulating	Aranic Calcic Luvisol
S15	Deep to very deep well to somewhat excessively drained reddish yellow to (yellowish) brown fine sands to loamy fine sands (calcareous between 20 and 50 cm), or having soft powdery lime within 125 cm) Flat to undulating	Calcaric Arenosol
S17	Deep to very deep well to somewhat excessively drained light yellowish brown to dark grayish brown fine sands to loamy fine sands (non calcareous between 50 and 100 cm) Flat to undulating	Eutric Arenosol
S17c	As S17, but medium to coarse sands to loamy sands Flat to undulating, low ridges	Eutric Arenosol