

LEGEND

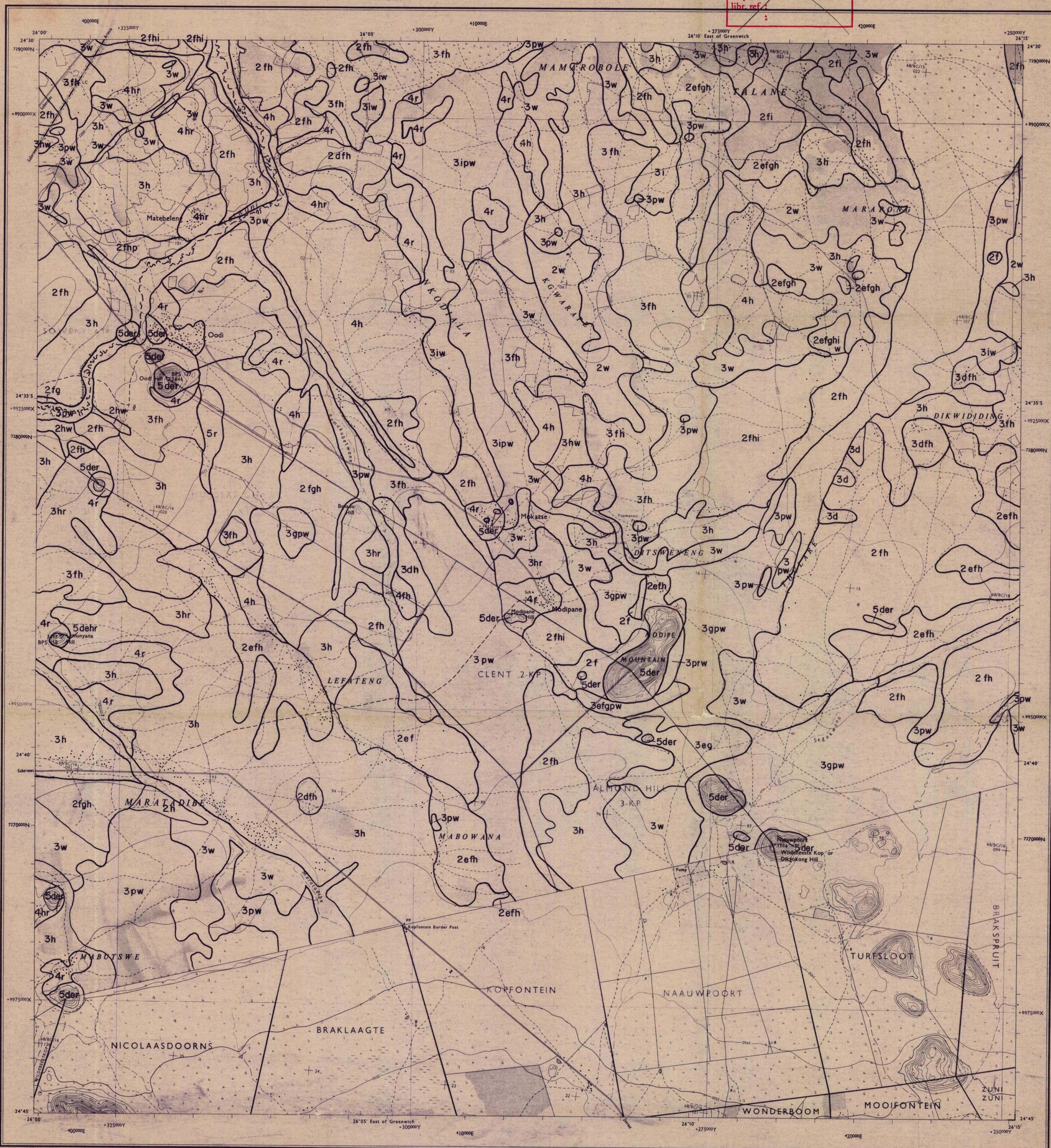
CLASS	LIMITATIONS	SOIL CHARACTERISTICS
2fh	Soil depth; fertility; moderate available water holding capacity	Sandy loam; well drained; moderate soil fertility less than 90cm deep
2efghw	Erosion; fertility; moderate available water holding capacity; permeability; wetness; fair conditions for germination	Sandy loamy or loamy; moderate soil fertility; moderately well drained; low permeability; surface slightly capped
2efgh	Erosion; fertility; moderate available water holding capacity; fair conditions for germination	Sandy loam; moderate soil fertility; slight sheet erosion; slight surface capping
2f	Fertility	Loamy; > 90 cm deep; moderate soil fertility; well drained
2fh	Fertility; moderate available water holding capacity	Sandy loam; moderate soil fertility
2fh	Soil fertility; moderate available water holding capacity; permeability	Sandy loam with more clay in the subsoil; moderate soil fertility
2fgh	Soil fertility; moderate available water holding capacity; fair conditions for germination	Sandy loam; moderate soil fertility; slightly capped surface
2fgi	Fertility; fair surface conditions for germination	Sandy loam; moderate soil fertility; moderate inherent soil fertility
2fi	Soil fertility; permeability	Sandy loam or loamy; capped surface; moderate soil fertility
2h	Moderate available water holding capacity	Sandy loam; well drained
2hw	Moderate available water holding capacity; wetness	Sandy loam; moderately drained
2w	Wetness	Sandy loam; moderately well drained
3pw	Workability; wetness; permeability	Clayey ferralsols; poorly drained; hard or very hard consistency
3pw	Poor conditions for germination	Clayey ferralsols; somewhat poorly drained; crusted surface
3d	Soil depth	Sandy loam; < 90 cm deep; well drained
3dth	Soil depth; low available water holding capacity; fertility	Sandy; < 90 cm deep; low inherent soil fertility
3dghw	Severe sheet erosion; wetness; fertility; poor germination; workability	Clayey; crusted; poorly drained; low fertility
3dg	Erosion; poor surface conditions for germination	Loamy or clayey; moderate sheet erosion; capped surface
3epw	Erosion; workability; wetness	Clayey; moderate sheet erosion; poorly drained; clayey topsoil
3f	Fertility	Loamy; low fertility
3fh	Fertility; low available water holding capacity	Sandy; low fertility; more than 90cm deep
3fw	Fertility; wetness	Sandy; low fertility; poorly drained
3h	Low available water holding capacity	Loamy sand; more than 90cm deep
3hr	Low available water holding capacity; stoniness	Loamy sand; some surface stones
3hw	Low available water holding capacity; wetness	Sandy silt to sandy; poorly drained
3i	Permeability	Sandy loam with more clay in subsoil; hard or very hard when dry
3iw	Permeability; wetness	Sandy loam or loamy; poorly drained; when dry hard or very hard
3pw	Workability; wetness	Loamy or clayey; poorly drained; clayey topsoil
3w	Wetness	Loamy or sandy; poorly drained
4dh	Soil depth; very low available water holding capacity	Sandy loam; less than 90 cm deep
4fh	Fertility; very low available water holding capacity	Sand; very low fertility
4h	Very low available water holding capacity	Sandy or coarse textured loamy soil
4hr	Very low available water holding capacity; stoniness or rockiness	Sandy; many surface stones or rock outcrops
4r	Stoniness or rockiness	15-50% surface stones or rock outcrop
5der	Soil depth; erosion; rockiness	Steep slopes; rocky
Dr	Rockiness or stoniness	Many large rock outcrops (> 50% of area)

NOTE:

- The Land Use Capability Maps for Dryland Farming assume a traditional level of Farm Management. (i.e. ploughing with oxen, sowing by broadcasting etc). Where improved management is envisaged (e.g. ploughing with tractor), the Land Use Capability may in certain cases also increase. For example class 3 land (clayey soils), marginal under traditional management may well become class 2 land, good under improved management, with tractors to make heavy tillage possible.
- The 1:50,000 scale maps are "semi-detailed" reconnaissance maps, based on air photo interpretation with some field checking. They cannot always be relied upon to give the land use capability of individual fields or small areas of less than 20 ha. in size. For such small areas, detailed soil surveys are necessary. The maps will give a broad picture of a district or an A/T's area, and indicate the places where better soils are found. The higher quality land is often, but not always associated with cultivation, class 1 and 2 land often intensely cultivated, class 3 land often having scattered cultivation. The maps are suitable for agricultural planning of the main Lands Areas in Botswana.
- Provisional figures for average crop yields on the different land types are given as an approximate guide only. It is thought that crop yields can at least be doubled with more intensive management and farming practices.

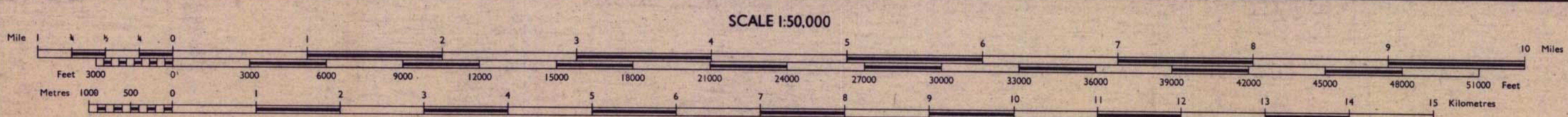
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MINISTRY OF AGRICULTURE

Scale 1:50,000



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of Overseas Surveys, Tolworth, Surrey, England or to the  
Surveyor-General, Department of the Surveyor-General,  
Republic of Botswana. The map will be replaced.

**ADMINISTRATIVE BOUNDARIES**

**RELIABILITY DIAGRAM**

**INDEX TO ADJOINING SHEETS**

**SHEET HISTORY**

First Edition prepared by the British Government's Ministry of Overseas Development (Directorate of Overseas Surveys) under the Special Commissioned African Assistance Plan, 1968 (D.O.S. 447).  
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Additional information supplied by the Surveyor-General, Pretoria, Republic of South Africa.

**BOUNDARIES**

- International
- District
- State Land & Tribal Territory
- Game Reserve, Forest Reserve, Intensive Conservation Area
- Trigonometrical Station
- Astronomical Fix
- International Boundary Pillar
- Spot Height in Feet
- Contours (1:50,000)
- Police Station, Police Post
- Church, Mission, School
- Mineral Working
- Power Line
- Radio-Telephone Plant
- Post Office, Telegraph Agency

**PLANT**

- Forest
- Woodland
- Scrub
- Palm
- Grass Country
- Scattered Cultivation
- Cultivation and Plantation
- Papyrus
- Swamp
- Area Liable to Flood
- Sand or Mud, Sand Hills
- Quarry, Outcrop Rock, Slopes

**WATER**

- River
- Perennial
- Ephemeral
- Ephemeral with Sandy Bed
- Dry Valley
- Well, Spring, Windmill
- Borehole, Borehole with Reservoir
- Water of Marginal Potability
- Furrow, Pipeline
- Farm Boundary
- Subdivisional Boundary
- Farm Name and Number
- Gazetted Township Area

**Other symbols:** Town or area with permanent buildings, Other populated areas, Huts, Village, Roads, Tracks, Aerodrome, Landing Area, Railway, Station, Level Crossing, Telegraph or Telephone Line, Fence with Gate.

**Grid North**

True North  
Magnetic North  
16°14'

**Grid**

Projection: U.T.M. Zone 35  
Spheroid: Clarke 1880 (Pseudo)  
Unit of Measurement: Metre  
Meridian of Origin: 27°00' East of Greenwich  
Latitude of Origin: Equator  
Scale Factor at Origin: 0.9996  
False Co-ordinates of Origin: 500,000m Easting, 10,000,000m Northing  
Datum: South African

This sheet is constructed on the U.T.M. Grid, Zone 35, which is shown by the broken line. Apply the map-line.

The representation on this map of a Road or Track is no evidence of the existence of a right of way.  
The alignment of the farm boundaries appearing on this map is not to be taken as evidence for the location of the legal boundaries between properties.  
Distinct Vegetation Boundaries are shown as a dotted line.