

CALCRETE LEGEND

HA	All varieties of calcrete including hardpans always present	NA	Nodules always present Occasional nodular calcretes Hardpans extremely rare to absent
HC	All varieties of calcrete including hardpans common	NR	Nodules rare Nodular calcretes very rare, All other varieties absent
HR	Hardpans rare, other less well developed varieties common	X	All types of calcification completely absent

- [Cc] Gypseous calcretes common
- [Δ] Unusual occurrence of hardpan or undifferentiated calcrete
- [●] Unusual occurrence of nodular calcrete

SOIL LEGEND

Showing also usual calcification present

RAW MINERAL SOILS

ROCK AND ROCK DEBRIS

[HR-X] Ac Not differentiated

DESERT DETRITUS

[X] An Sands (ergs)
[HR-X] Ar Not differentiated

WEAKLY DEVELOPED SOILS

LITHOLSOLS (skeletal soils) AND LITHIC SOILS

[NR] Bb On rocks rich in ferromagnesian minerals
[X] Bc On ferruginous crusts
[HA] Bc' On calcareous crusts
[HR-X] Bd Not differentiated

SUB-DESERT SOILS

[HC] Bf Not differentiated

WEAKLY DEVELOPED SOILS ON LOOSE SEDIMENTS NOT RECENTLY DEPOSITED

[HR-X] Bh Not differentiated

JUVENILE SOILS ON RECENT DEPOSITS

[NR] Ba On riverine and lacustrine alluvium
[X] Bp On fluvio-marine alluvium (mangrove swamps)

CALCIMORPHIC SOILS

[HC] Ca Rendzinas, brown calcareous soils
[HC] Cb Soils with calcareous pans (Cb); when also gypseous (Cc)

VERTISOLS AND SIMILAR SOILS

[NA] Da Derived from rocks rich in ferromagnesian minerals
[NA] Db Derived from calcareous rocks
[NA] Dj Of topographic depressions, not differentiated

HIGH YELD PSEUDO-PODSOLIC SOILS

[NR] Fa Not differentiated

BROWN AND REDDISH BROWN SOILS OF ARID AND SEMI-ARID REGIONS

BROWN SOILS OF ARID AND SEMI-ARID TROPICAL REGIONS

[HC] Ga On loose sediments
[HC] Gb Not differentiated

RED AND BROWN MEDITERRANEAN SOILS

[NR] Ig Red mediterranean soils, not differentiated
[NR] In Brown mediterranean soils, not differentiated

FERRUGINOUS TROPICAL SOILS (ferralsiltic soils)

[NR] Ja On sandy parent materials
[X] Jb On rocks rich in ferromagnesian minerals
[X, NR] Jc On crystalline acid rocks
[X] Jd Not differentiated

FERRISOLS

[X] Ka Humic
[X] Kb On rocks rich in ferromagnesian minerals
[X] Kc Not differentiated

FERRALLITIC SOILS (sensu stricto)

DOMINANT COLOUR: YELLOWISH-BROWN

[X] La On loose sandy sediments
[X] Lb On more or less clayey sediments
[X] Lc Not differentiated

DOMINANT COLOUR: RED

[X] Li On loose sandy sediments
[X] Lm On rocks rich in ferromagnesian minerals
[X] Ln Not differentiated

HUMIC FERRALLITIC SOILS

[X] Ls Not differentiated

YELLOW AND RED FERRALLITIC SOILS ON VARIOUS PARENT MATERIALS

[X] Lx Not differentiated

HALOMORPHIC SOILS

[HR] Ma Solonetz and solodized solonetz
[HR] Mb Saline soils, alkali soils and saline alkali soils
[HA, HR] Me Not differentiated

HYDROMORPHIC SOILS

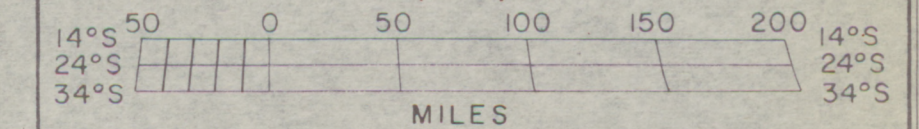
[X, NR] Na Mineral hydromorphic soils
[X] Nb Organic hydromorphic soils



MAP 6
DISTRIBUTION OF CALCRETES IN
RELATION TO

AREAS OF SOUTH AFRICA
HAVING AN ANNUAL WATER
DEFICIENCY ACCORDING TO
THORNTWHAITE

1:5,000,000



WATER DEFICIENCY AFTER SCHULZE (1958)

CALCRETE DATA COMPILED PARTLY FROM
D'HOORE (1964), VAN DER MERWE (1941, 1962)
AND OTHER SOURCES.

Zenithal equal area meridional projection
with centre at intersection of equator and
longitude 18° E