GRAINS CUTANS IN CALCAREOUS SOIL MATERIAL

SUMMARY

Caly illuviation in a calcareous environment was found in deep loessial Serozems and similar soils in the arid northern Negev, Israel. An upland profile studied in detail is cumulative, built up from eolian desert dust, strongly calcareous throughout with several calcic horizons in the subsoil. A diagnostic gypsic horizon occurs in the lower B horizon.

Illuviation is interpreted from micromorphology and from the increase of fine clay (0.2 m) in relation to non carbonate clay. It shows a calculated volumetric increase of about 7 % of fine clay between the A and upper B horizons (25 80 cm depth). The micromorphological