



possible by the frozen subsoils in Glacial Times. Dry waterfalls also occur in these valleys, especially where the rivers once crossed limestone escarpments.

where the rivers once crossed limestone escarpments. The surface of a limestone region is not only broken, it is also stony. Any soil which may occur is usually in small shallow patches which support only a few shrubs, grased in some regions sweet-smelling herbs. Larger plants, such as trees, only occur in the bottom of layer valleys which have been excavated down to the rocks underlying the limestone. Although the limited plant life in limestone regions varies from engion to regions, it being dependent upon the nature of the climate, the general appearance of all limestone regions around Jpoh, in Perak (West Malaysia), is well-covered with vegetation because of the fairly deep soils which have formed under humal tropical awathering.

(Limestone landscapes are called kurst landscapes) and good examples occur in north-west Yugoslavia, the Pennines of the U.K., the Yucasan Peninsula of Mexico, the Kentucky region of the U.S.A. and parts of Perak and Perlis in West Malaysia.

Value of Karst regions to Man Because of their barren nature karst regions contain few settlements. The dryness of the surface and the limited amount of poor soils prevent the growth of a continuous plant cover. In some regions there is sufficient grass to support sheep or goats and animal grazing takes place. Occasionally areas of good soils do occur. These are usually confined to basins which have been formed by the collapse of roofs of underground caverns. In Yugoslavia and other parts of the Mediterranean region, these soils are usually red and are called term rossa. They are valuable for farming.

Limestone is quarried as a building stone and for making cement, and usually there are stone and cement works near to limestone regions, e.g. near to Ipoh in West Malaysia.

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Features of a chalk landscape
Chalk, like limestone, is made of calcium carbonate
but it is much softer than limestone. Its surface is
not marked by outcrops of hard rock. Instead it
is usually gently undulating with rounded hills,
called downs in England, and wide open valleys,
which are usually without rivers. Chalk is a porous
rock and rain falling on its surface rapidly soaks into
the ground. There is, therefore, very little surface
run-off, that is, there are very few streams. Because
the valley are without streams, they are called dry
valleys or coombs.

Good examples of chalk landscapes occur in England in the Chittern Hills and the Downs, and in these regions dry valleys are very common. These valleys were obviously formed when the water-table was higher than it is at present. Possibly, towards the end of the last glacial period, vast quantities of melt water from the retreating ice sheets were able to flow as rivers across these chalk regions, because the subsoils were frozen, thus presenting an impermeable zone.

- EXERCISES

 1 Briefly distinguish between the following:
 (i) a dry valley and an underground river
 (ii) a limestone gorge and a swallow hole.
 (iii) a clint and a grike
 Name one region where these types of features may be seen.
 2 Carefully explain why (i) some underground rivers produce varied underground scenery, (ii) most limestone areas have little agriculture and few people, and (iii) there is almost no surface drainage in a limestone region.
 Illustrate your answer with relevant diagrams.