

**Product Code . LSK-FM-10469**

## **Hydrology And Rainfall Apparatus**



### **Description**

In the middle of the catchment area are two 'wells' for experiments with water wells. A row of 20 tapplings along the centre line of the catchment area allows students to measure the water table profile. Each tapping has special slotted ends to stop the permeable media entering its pipe. The tapplings connect to a bank of piezometer tubes at the front of the catchment area.

The apparatus is a sturdy metal frame which holds a large rectangular stainless-steel tank (catchment area) and a reservoir tank. Students can fill the catchment area with a granular medium (available separately) to form a permeable catchment area.

A jacking mechanism allows adjustment of the angle of the catchment area. Above the catchment area is a frame that holds spray nozzles which simulate rainfall on the catchment.

A pump takes water from the reservoir and feeds it to the overhead nozzles and to the ends of the catchment area. Students can vary the flow to the nozzles and tank. A flow meter measures the overall flow.

A valve selects all or half the nozzles. Students can use this facility to vary the lag time on a hydrograph or to simulate a moving storm.

At each end of the catchment area are end compartments, separated from the catchment by weir plates with porous 'port holes'. Students can open the port holes to drain water from the catchment area, or to supply water to it from the end compartments.

Students can use a calibrated rectangular weir under the catchment area to measure flow from the wells or the tank.

