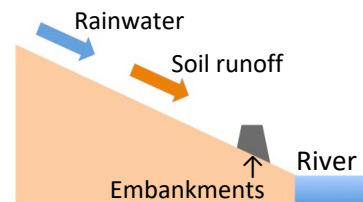


# A Simple Embankment: Technology to Control Soil Runoff

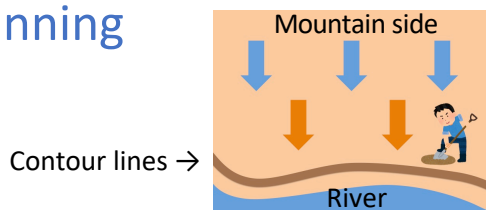


## Key Messages

- Although it is made mainly of soil, it is very cheap, durable and easy to repair and remove.



## 1 Planning



Plan and draw the contour lines along the river. As the location is at the most valley side of land near the river, soil accumulation will be convenient.

## 2 Preparing Materials

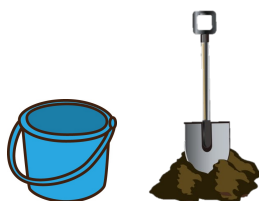


Prepare the required materials with appropriate quantity as shown in the figure above.

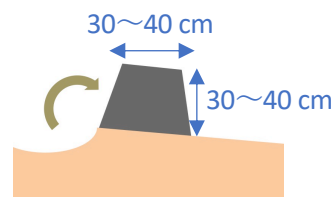
## 3 Mixing

Mix the materials thoroughly. Add water little by little while mixing until the soil hardens.

(The water required is about 0.3L for the amount shown in 2 above)

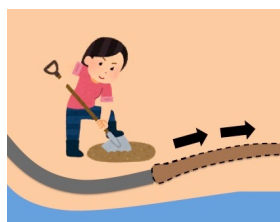


## 4 Molding



While squeezing the soil, make a dike with height and width of 30 to 40 cm. The size can be changed according to region.

## 5 Construction



Build the embankment while mixing the ingredients before it gets solidified. (When lime is mixed with the soil, it starts to solidify)

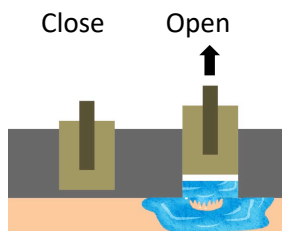
## 6 Hardening



Wait until you can no longer insert a finger to the embankment (a few weeks).

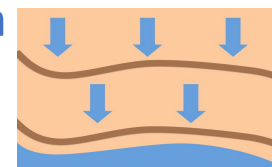
## 7 Control

To control the amount of water upstream of the embankment, make holes in the embankment at the appropriate intervals so that they can be opened/closed with a piece of wood.



## 8 Restoration

Repair by recoating if the embankment leaks. With more embankments installed adjacent to each and other, the suppression effect will be increased.



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