



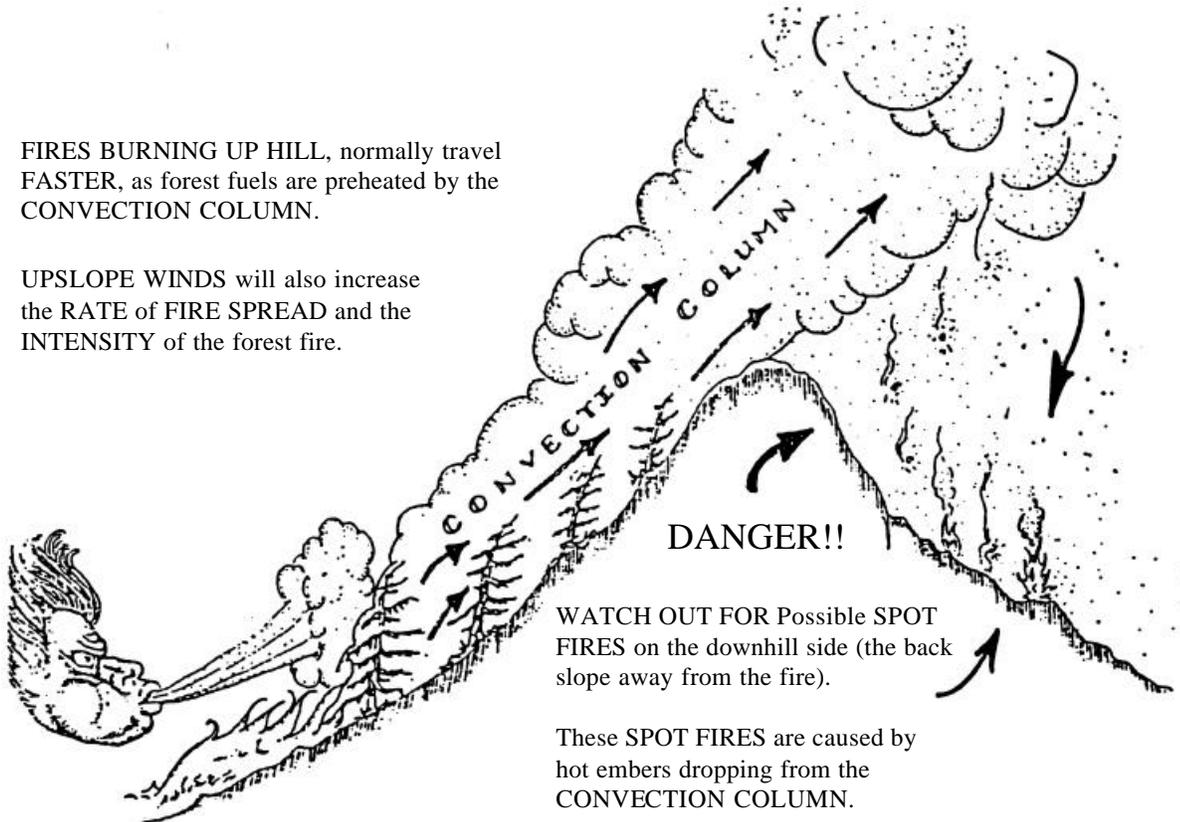
HEAT TRANSFER

Student Information Sheet 4202.3-1

CONVECTION

FIRES BURNING UP HILL, normally travel FASTER, as forest fuels are preheated by the CONVECTION COLUMN.

UPSLOPE WINDS will also increase the RATE of FIRE SPREAD and the INTENSITY of the forest fire.





FUEL COMPONENTS

Student Information Sheet 4202.3-2

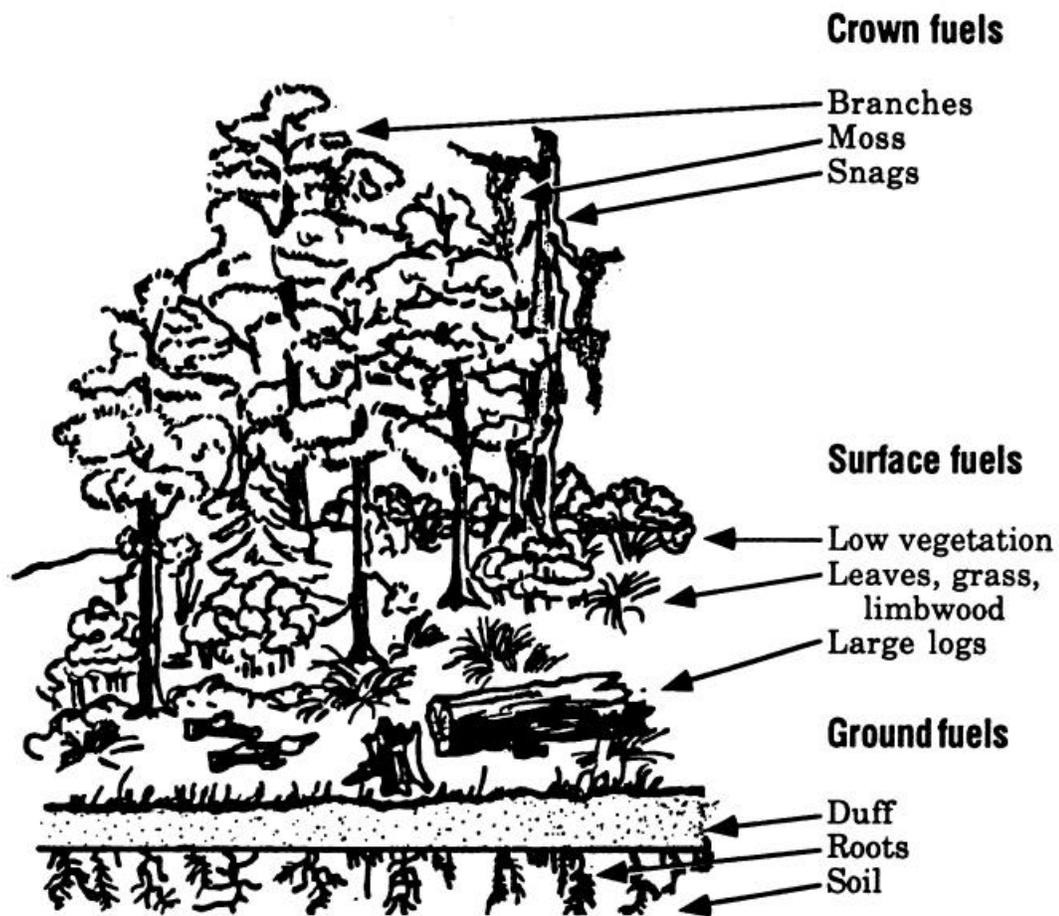


Figure 1. Fuel



FIRES BURNING DOWNHILL normally travel SLOWER. This is because the forest fuels are not preheated by the CONVECTION COLUMN and are usually burning against the wind.

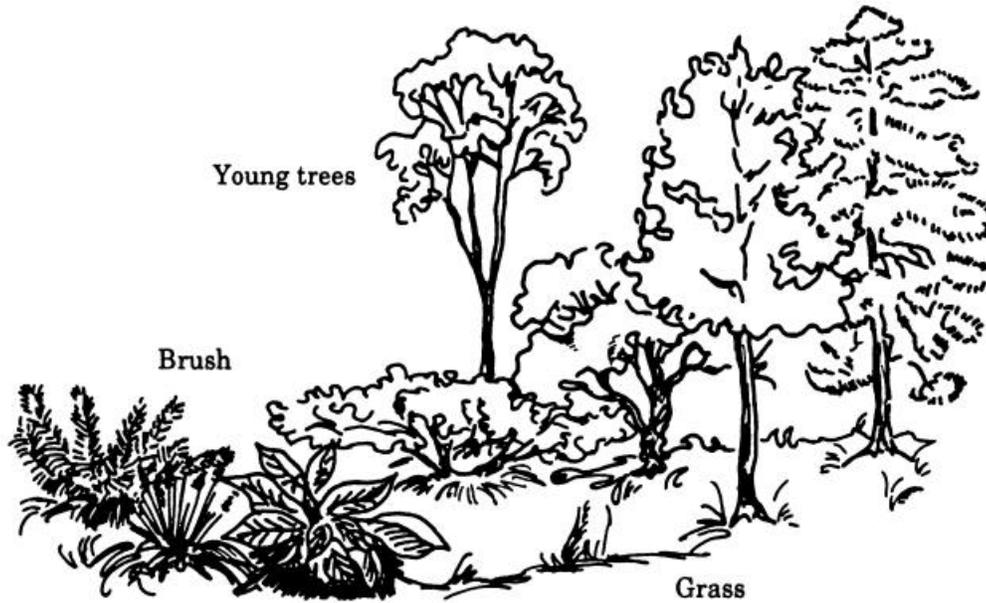


Figure 2. Light fuels: rapid spread.

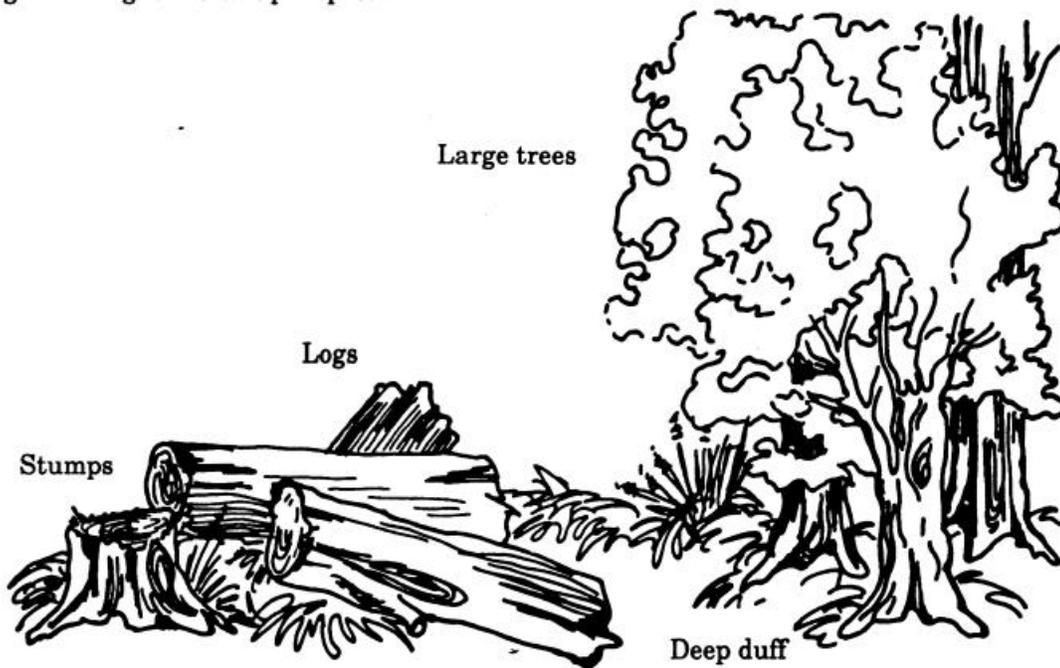


Figure 3. heavy fuels: slow spread.



TOPOGRAPHY

Student Information Sheet 4202.3-3

