

Fuel Models Representative of Tennessee

Light (e.g., grasses and forbs):

NFDRS Fuel Model A: This fuel model represents grasslands vegetated by annual grasses and forbs. Brush or trees can be present but are very sparse, occupying less than a third of the area.



NFDRS Fuel Model C: Open pine stands typify Model C fuels. Perennial grasses and forbs are the primary ground fuels, but there is enough needle litter and branchwood present to contribute significantly to the fuel loading:



Medium (e.g., light brush and small trees):

NFDRS Fuel Model E: Use this model after leaf fall for hardwood and mixed hardwood-conifer types where the hardwoods dominate. The fuel is primarily hardwood leaf litter. The oak-hickory types and mixed forest of Tennessee are best represented by this fuel model.



NFDRS Fuel Model P: Closed, thrifty stands of long-needled southern pines are characteristic of this fuel model:



Heavy (e.g., dense brush, timber, and hardwoods):

NFDRS Fuel Model B: Mature, dense fields of brush 6 feet or more in height. One fourth or more of the aerial fuel in such stands is dead. These fuels are potentially very dangerous, fostering intense, fast spreading fires:



NFDRS Fuel Model O: This model applies to dense, brush-like fuels of the Southeast O fuels, in contrast to B fuels, are almost entirely living, in contrast to B fuels. The foliage burns readily, except during the active growing season:



NFDRS Fuel Model G: This fuel model is used for dense conifer stands where there is a heavy accumulation of litter and downed woody material. Such stands are typically overmature and might be suffering insect, disease, wind, or ice damage – natural events that create a very heavy buildup of dead material on the forest floor:



Slash (e.g., timber harvesting residue):

NFDRS Fuel Model J: This model is for **clearcuts** and heavily thinned conifer stands:

NFDRS Fuel Model K: Slash fuels from **light thinnings** and **partial cuts** in conifer stands are represented by this fuel model:

