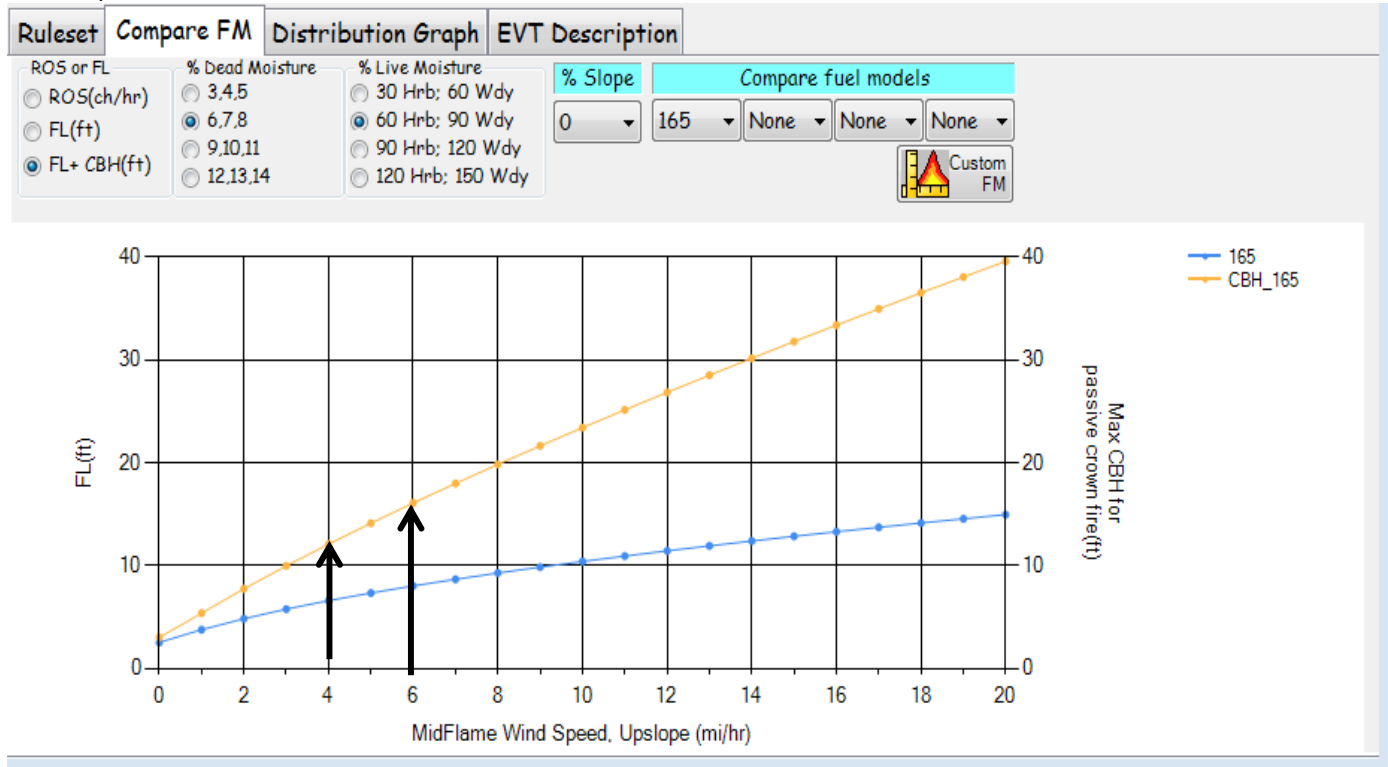
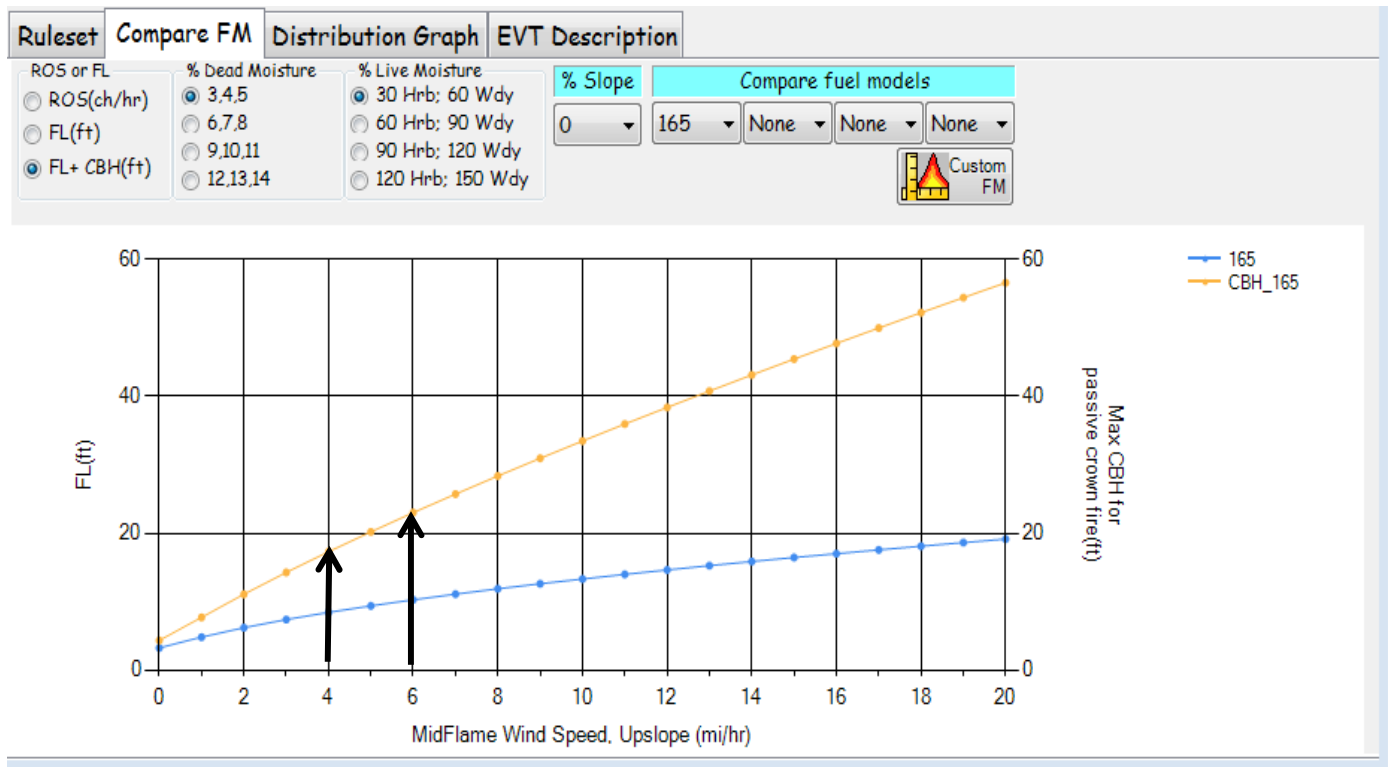


TU5 CBH (orange) needed for crown fire initiation by flame length (blue) in the average condition (moderate live and dead fuel moisture) open canopy (15 -30%). Windspeed arrows represent Low (20 mph 20 ft. wind) and High (30 mph 20 ft. wind).

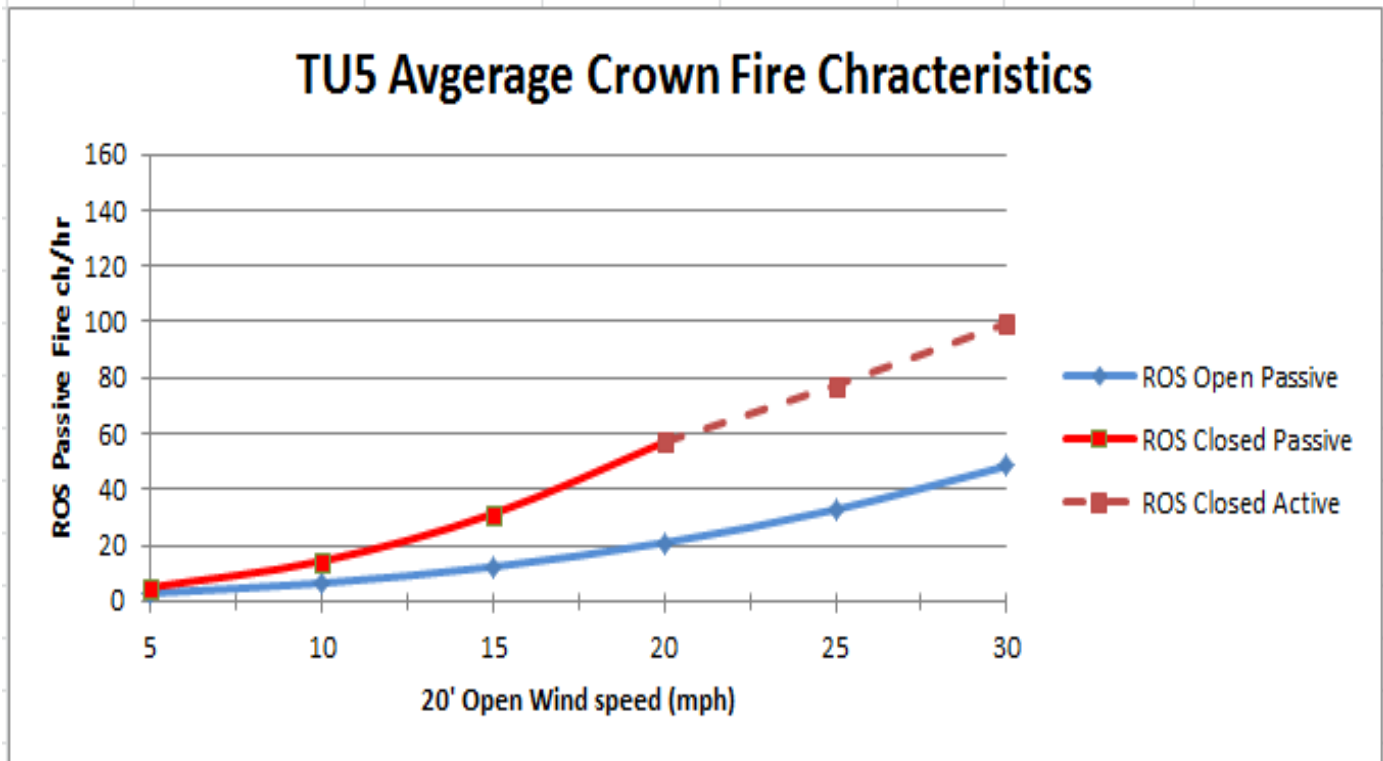


TU5 flame length (blue) and CBH (orange) to initiate crowning in dry condition (dry live and dead fuel moisture) with open canopy (15 -30%). Windspeed arrows represent Low (20 mph 20 ft. wind) and High (30 mph 20 ft. wind).



For a moderately closed canopy cover (30 -50%) the midflame windspeeds for flame length would be 3 mph for the low wind (20 mph at 20 ft.) and 5mph for the high wind (30mph at 20 ft.). For closed canopy (>50%) windspeeds would be 2 and 3 mph at midflame height.

If CBH is low enough for the surface fire flame length of the TU5 to initiate torching or passive crown fire activity in the **average** fuel moisture regime the resultant rate of spread are displayed in the chart below.
 (Average fuel moisture scenario = 1hr-6%; 10hr-7%; 100hr-8%; herbaceous -- 60%; woody – 90%)
 (Open 15 -30% canopy cover; closed > 50% canopy cover)



If CBH is low enough for the surface fire flame length of the TU5 to initiate torching or passive crown fire activity in the **dry** fuel moisture regime the resultant rate of spread are displayed in the chart below.
 (Dry fuel moisture scenario = 1hr-3%; 10hr-4%; 100hr-5%; herbaceous -- 30%; woody – 60%)

