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United States
Department of Agriculture

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National Association of
State Foresters

Fire Behavior Nomograms

PMS 436-3 **MARCH 1992**
NFES 2220

The "Fire Behavior Nomograms" are excerpted from "How to Predict the Spread and Intensity of Forest and Range Fires", Richard C. Rothermel, June 1983, with the exception of the nomogram for fuel model #7 which was updated for this publication.

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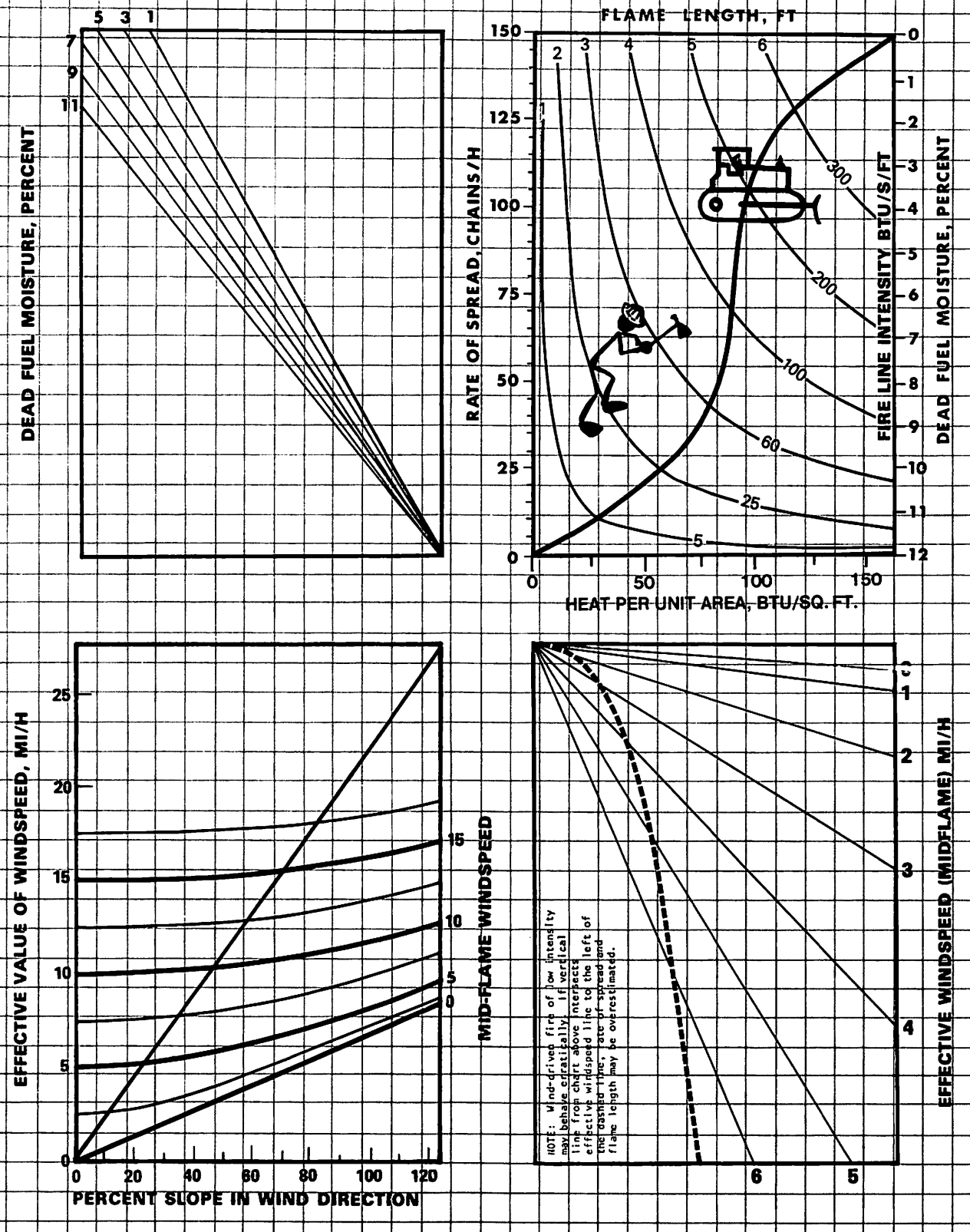
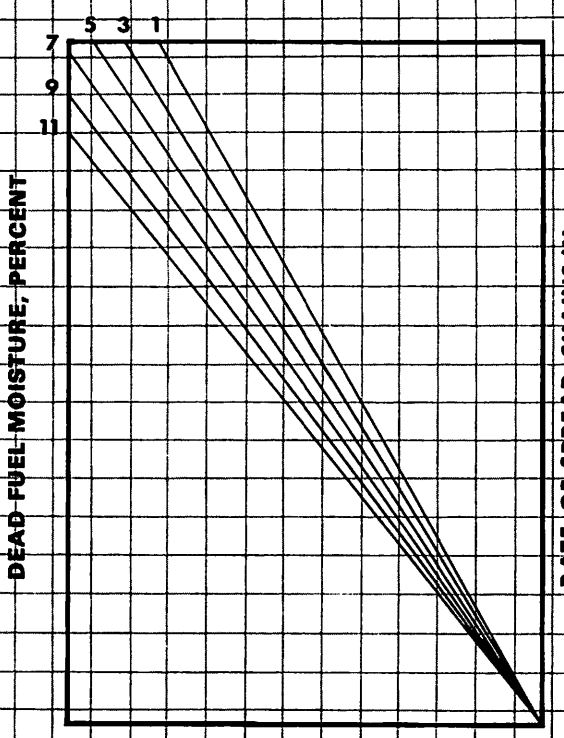
APPENDIX A
Nomograms

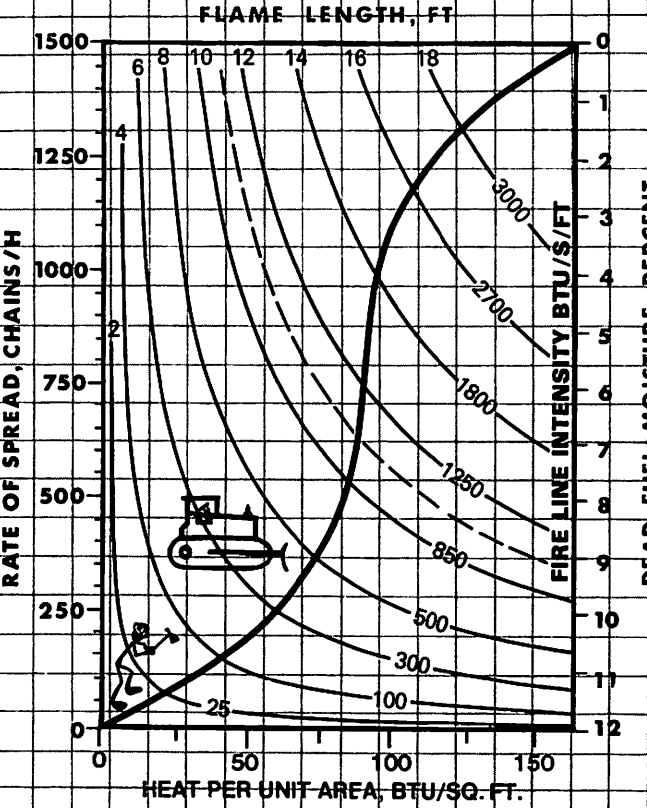
Fuel model 1 – low windspeeds

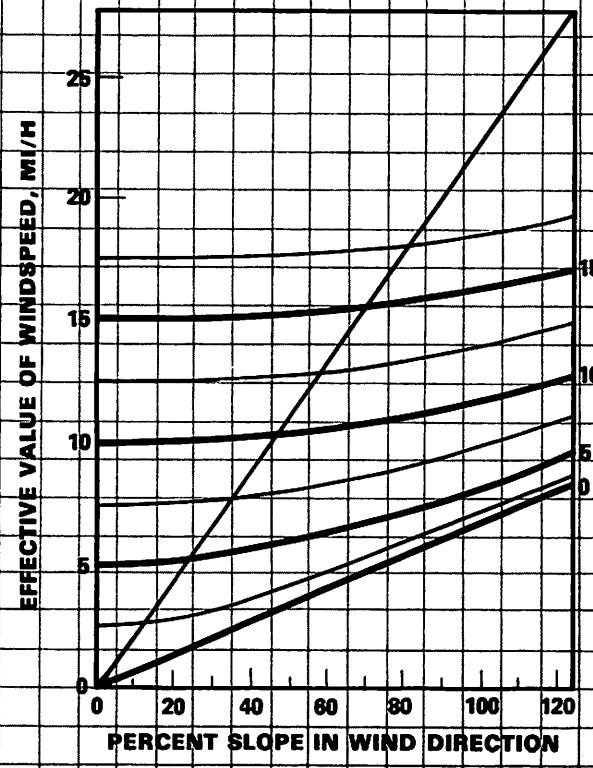


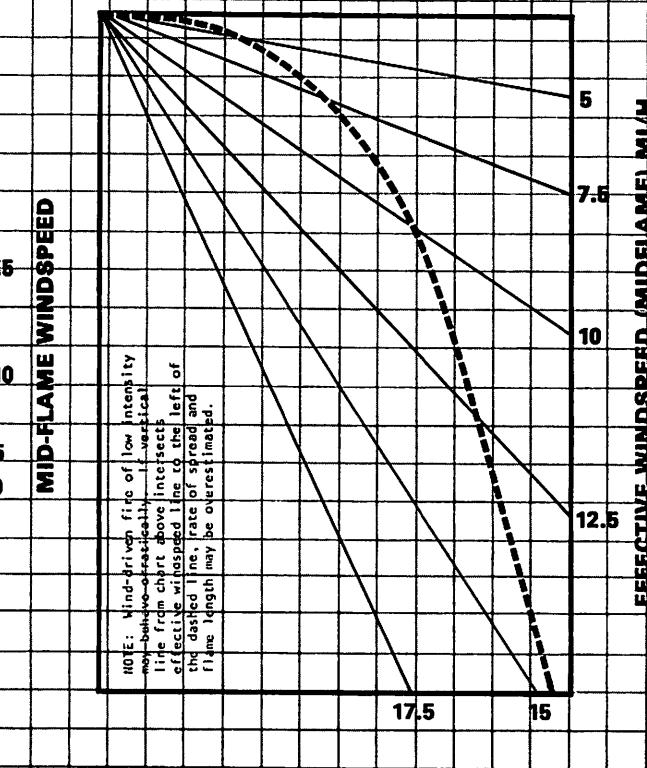
Fuel model 1 – high windspeeds

1. SHORT GRASS (1 FT) – HIGH WINDSPEEDS



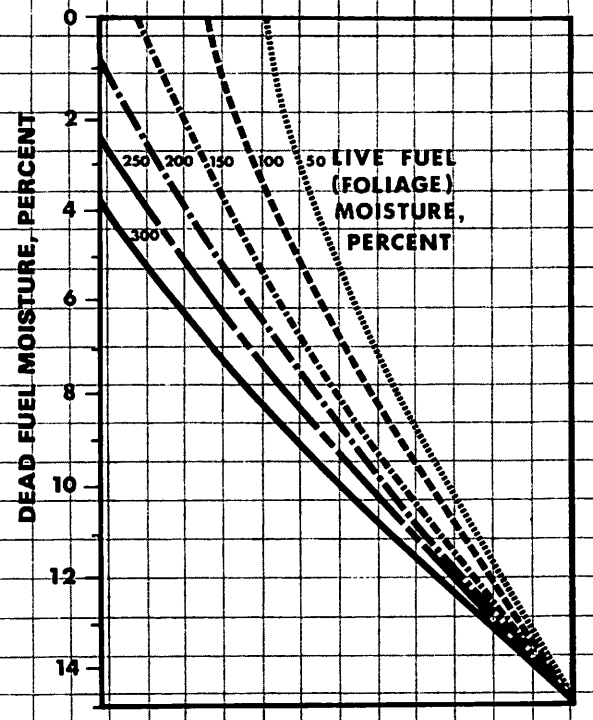


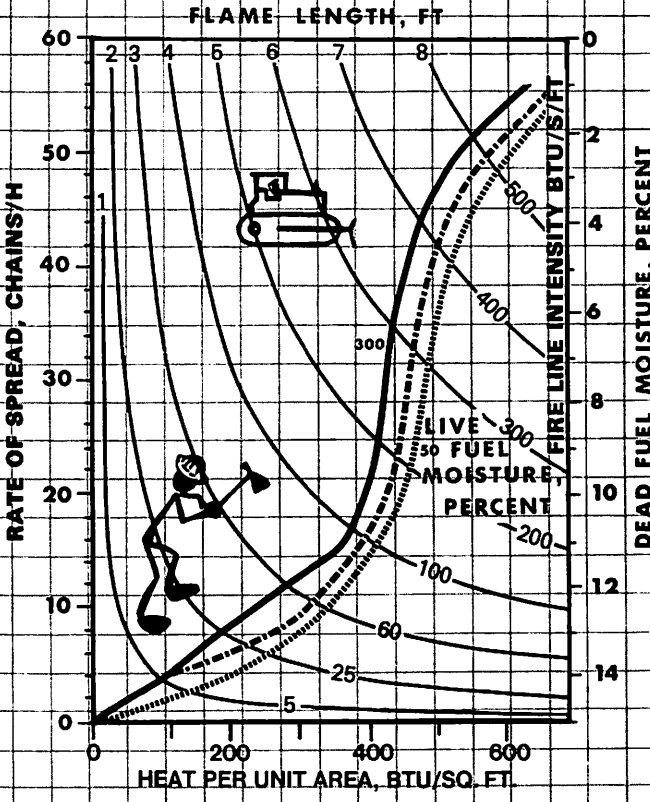


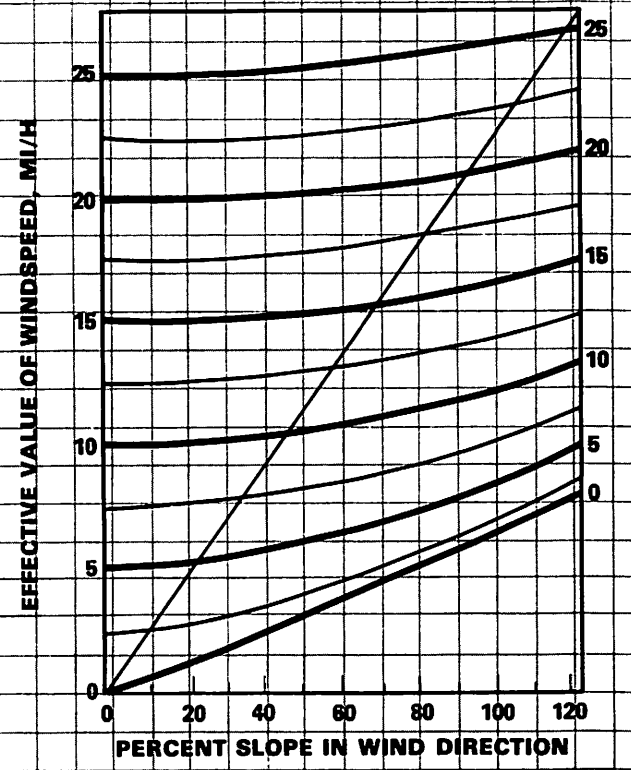


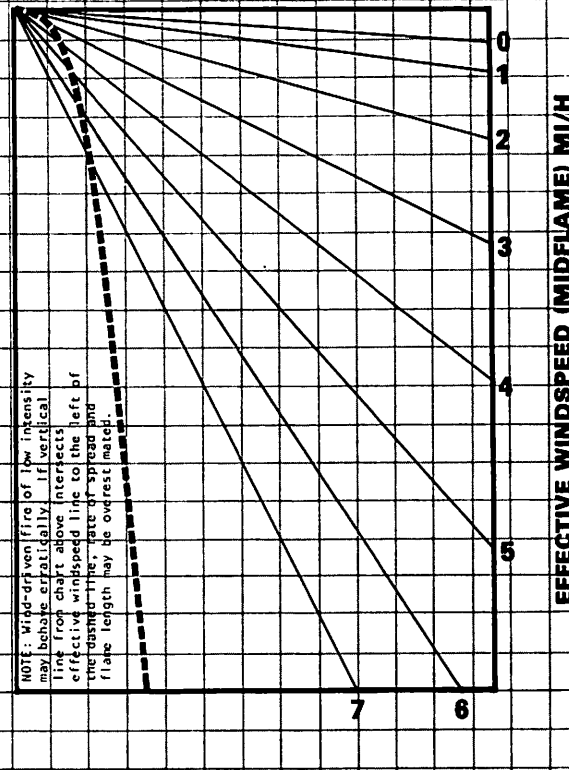
Fuel model 2 – low windspeeds

2. TIMBER (GRASS & UNDERSTORY) – LOW WINDSPEEDS



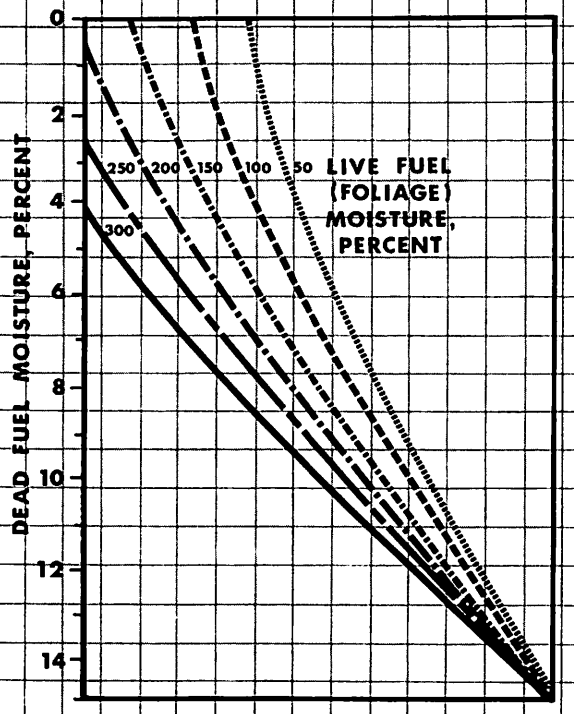


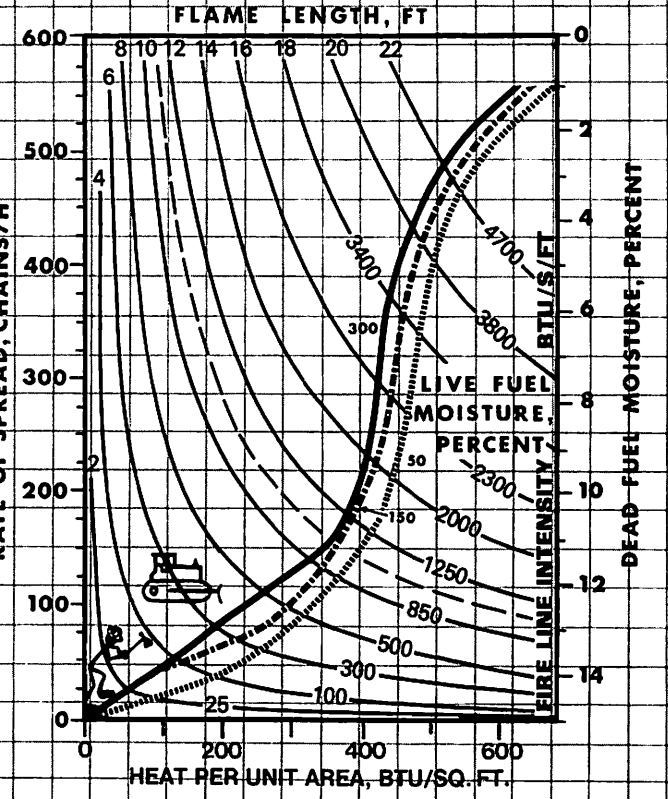


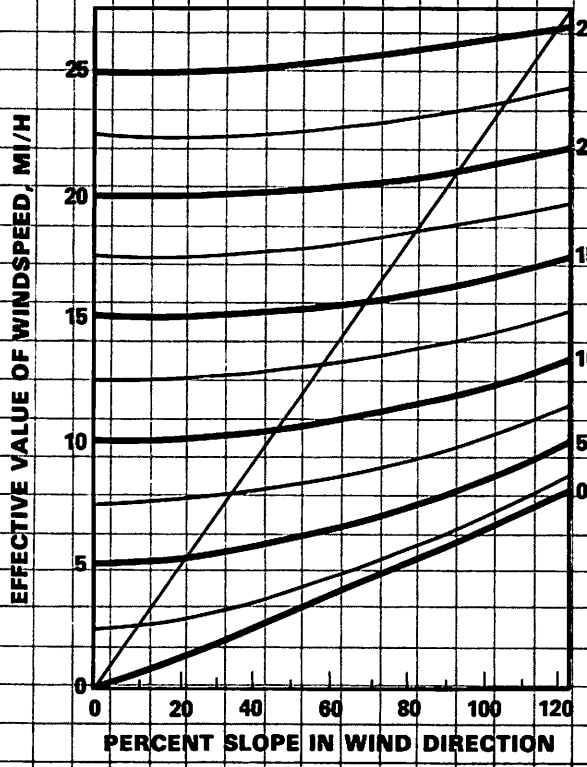


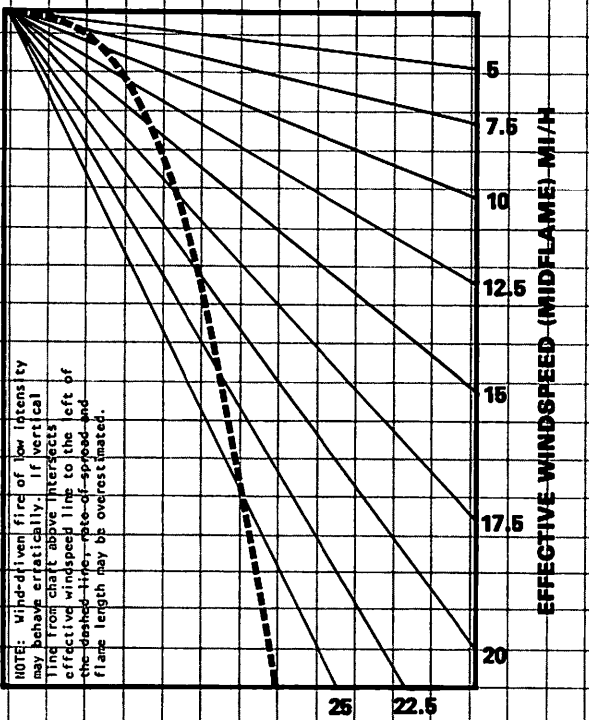
Fuel model 2 – high windspeeds

2. TIMBER (GRASS & UNDERSTORY) – HIGH WINDSPEEDS



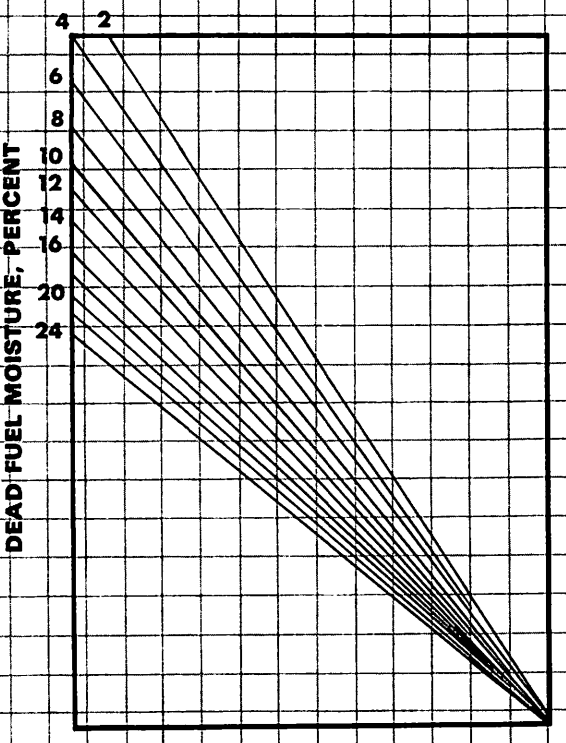


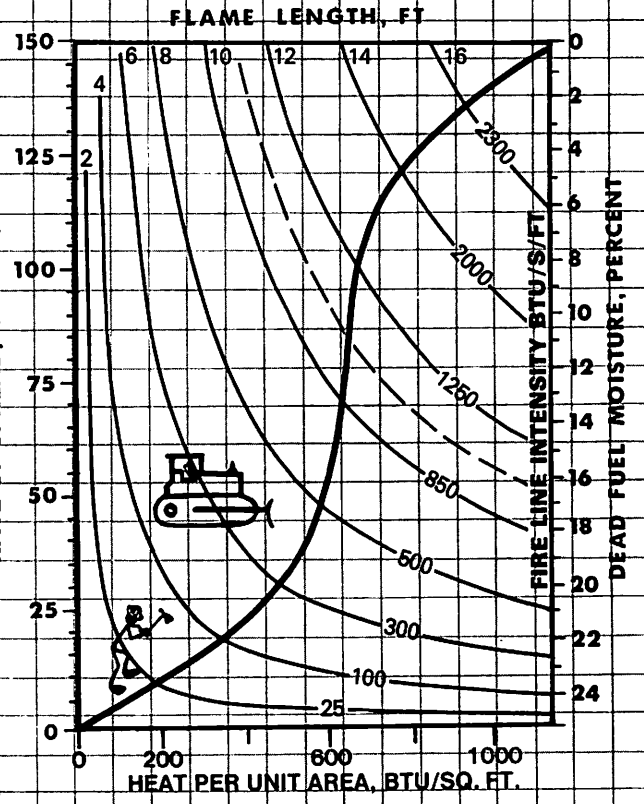


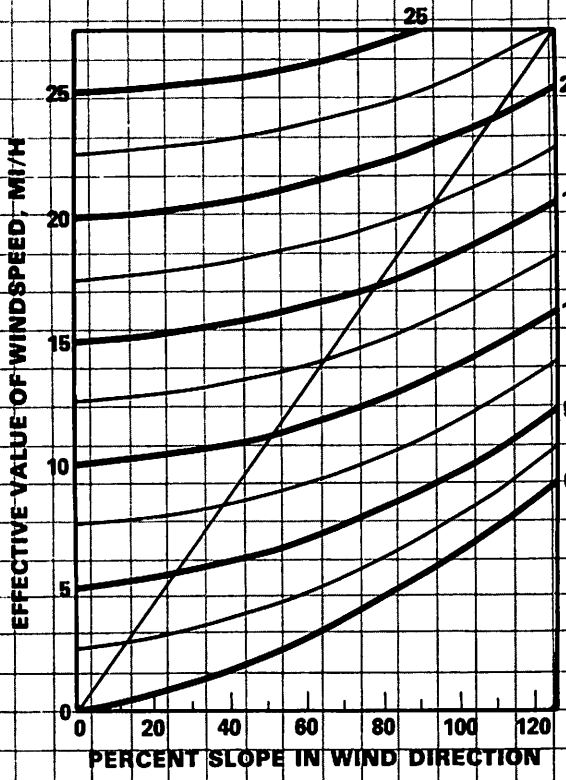


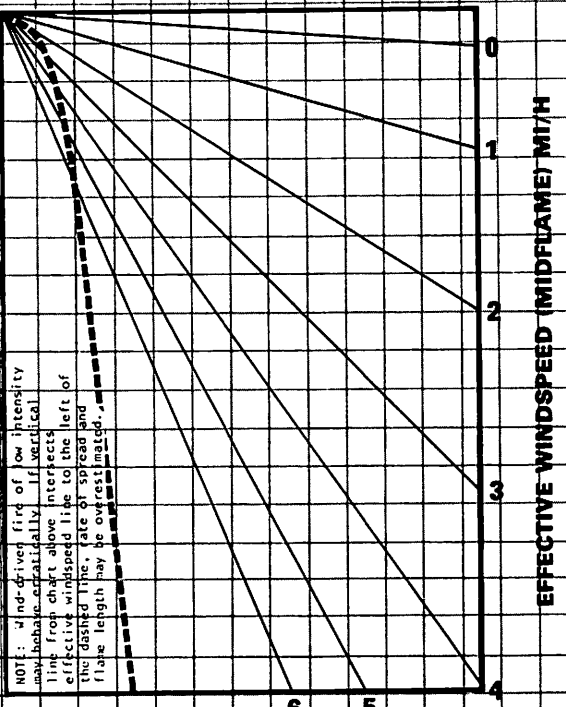
Fuel model 3 – low windspeeds

3. TALL GRASS (2.5 FT) – LOW WINDSPEEDS



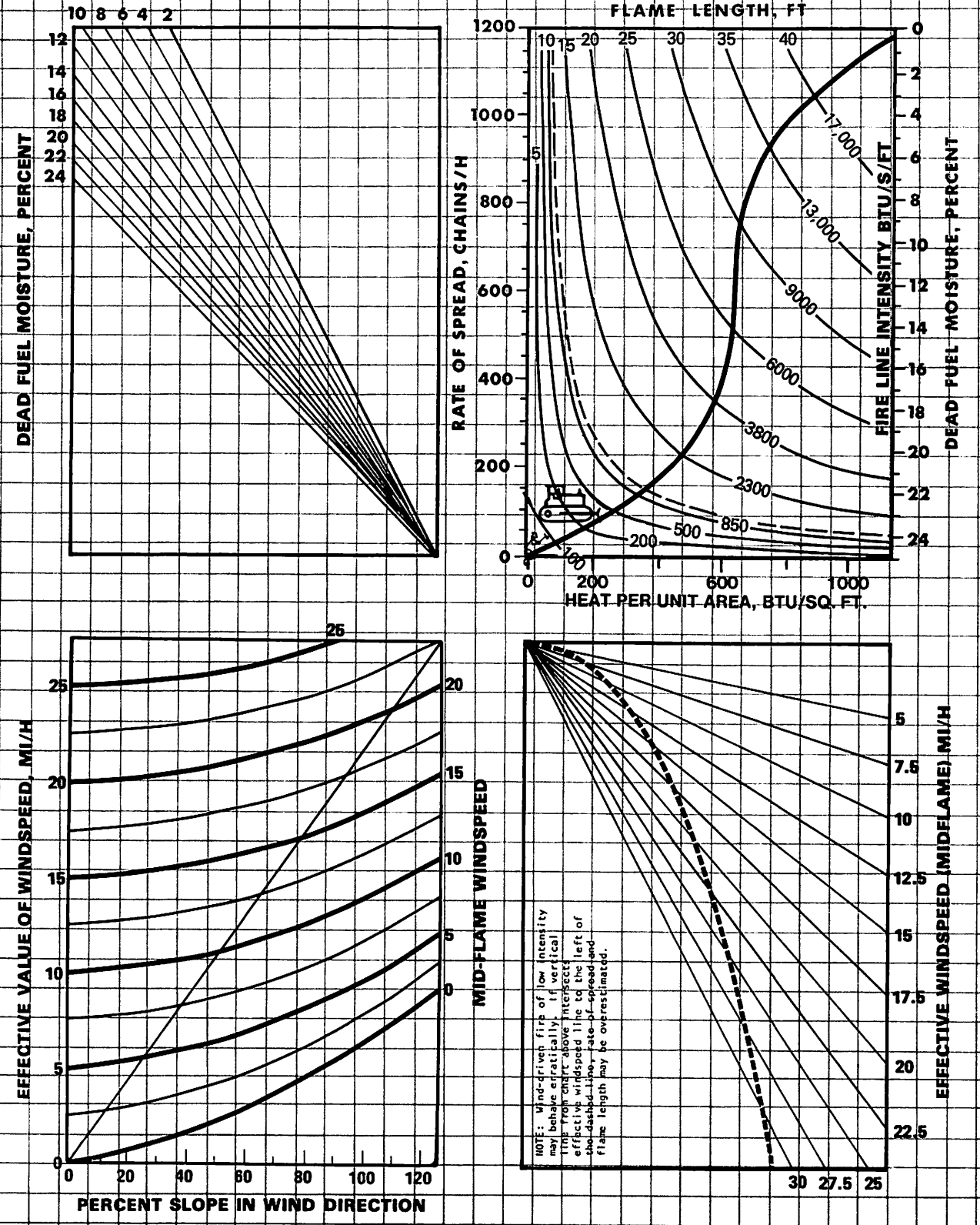






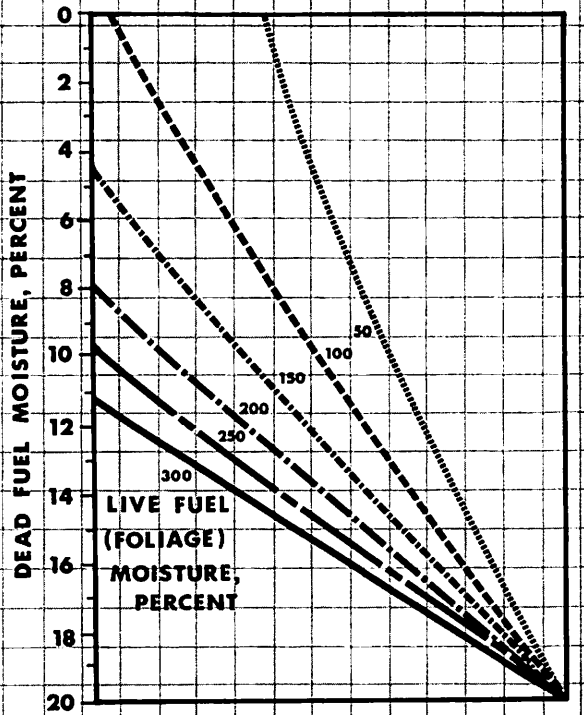
Fuel model 3 – high windspeeds

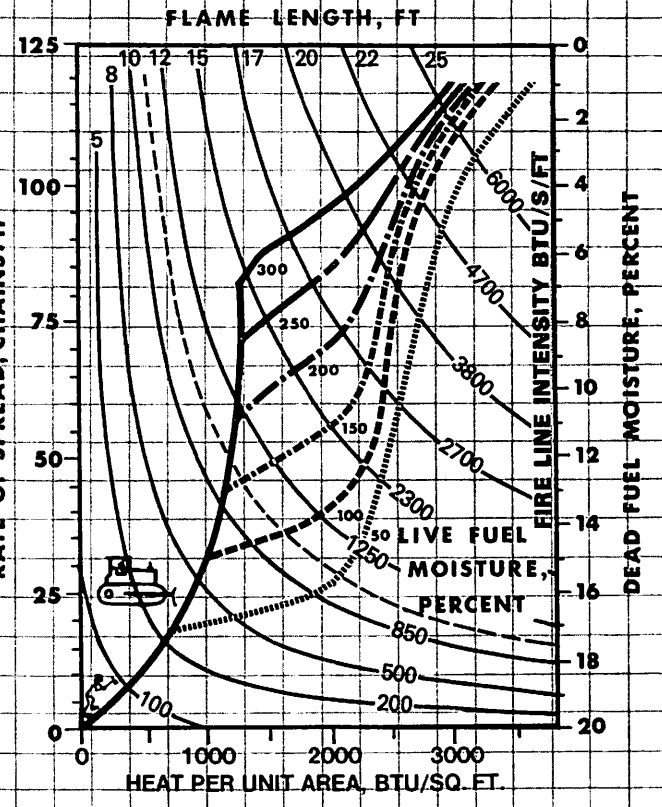
3. TALL GRASS (2.5 FT) – HIGH WINDSPEEDS

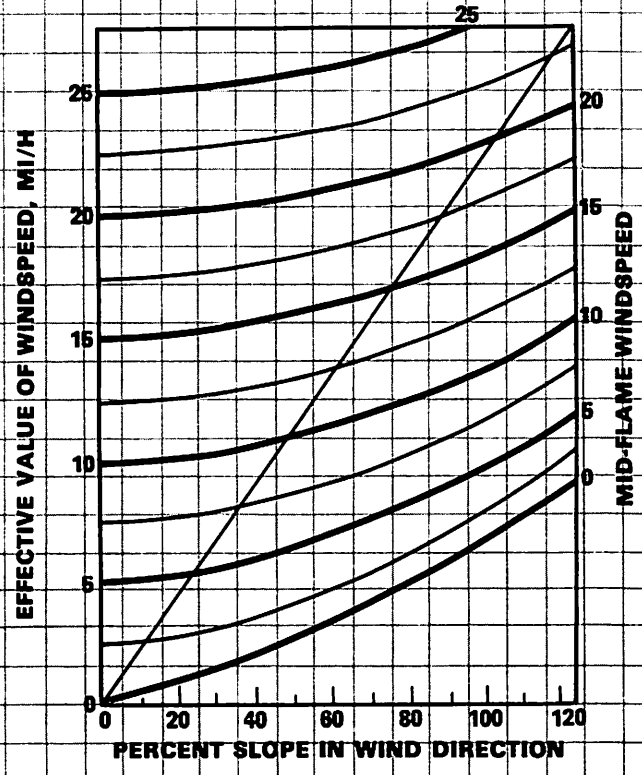


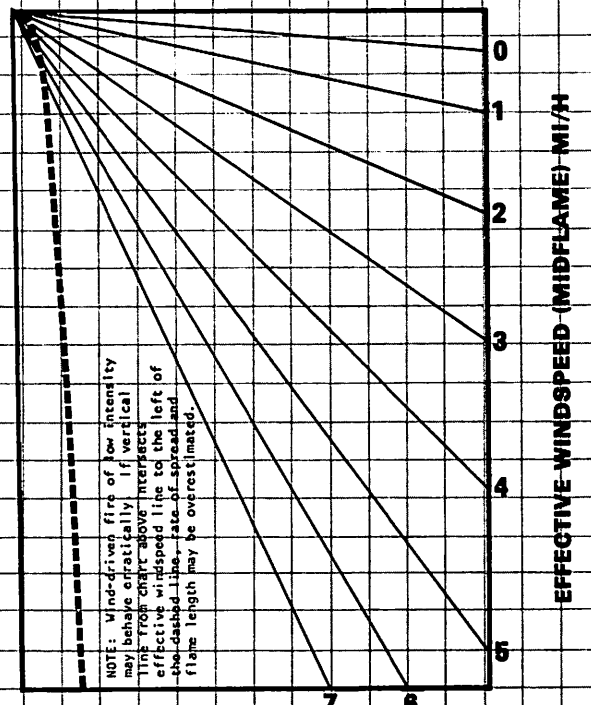
Fuel model 4 – low windspeeds

4. CHAPARRAL (6 FT) – LOW WINDSPEEDS



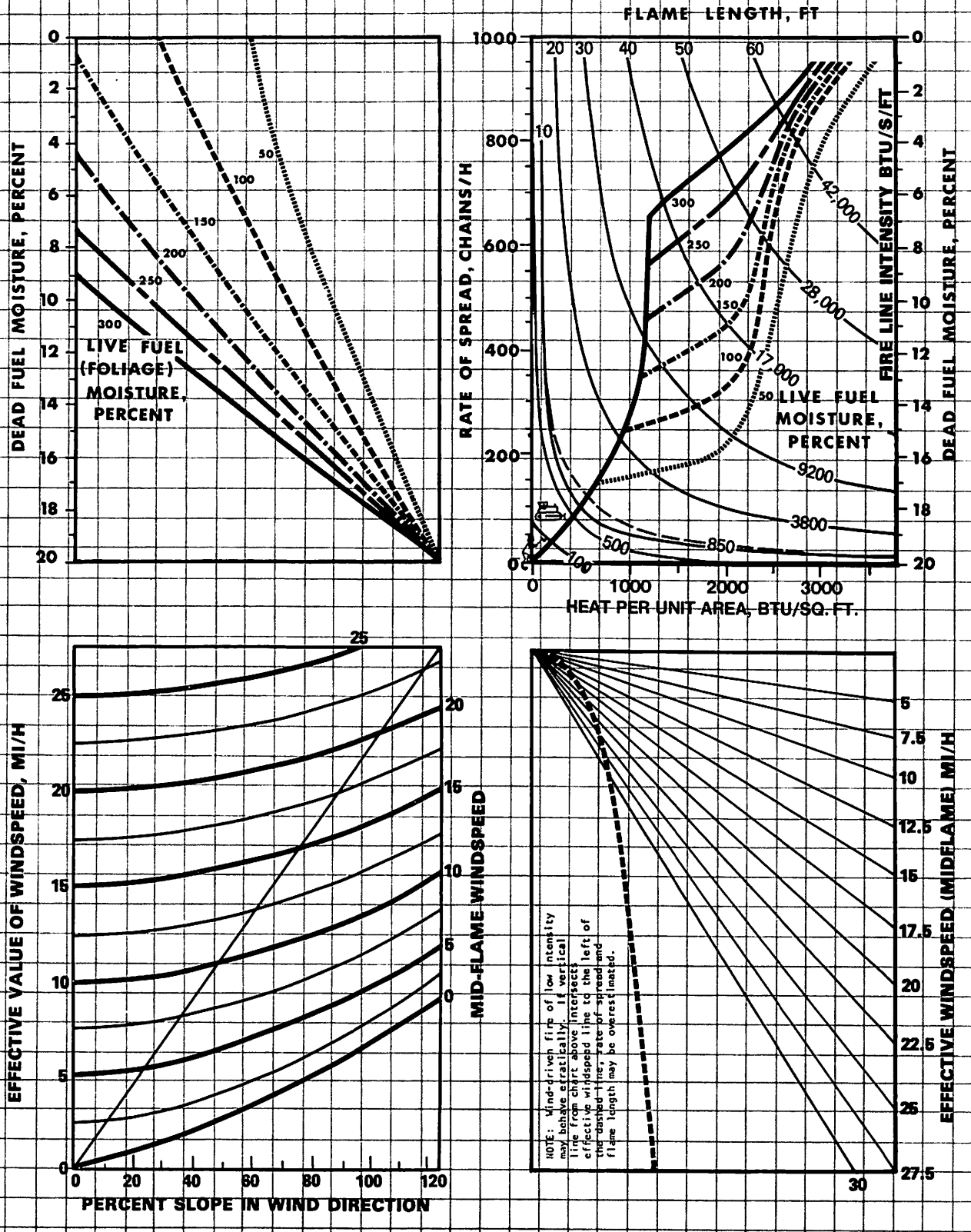






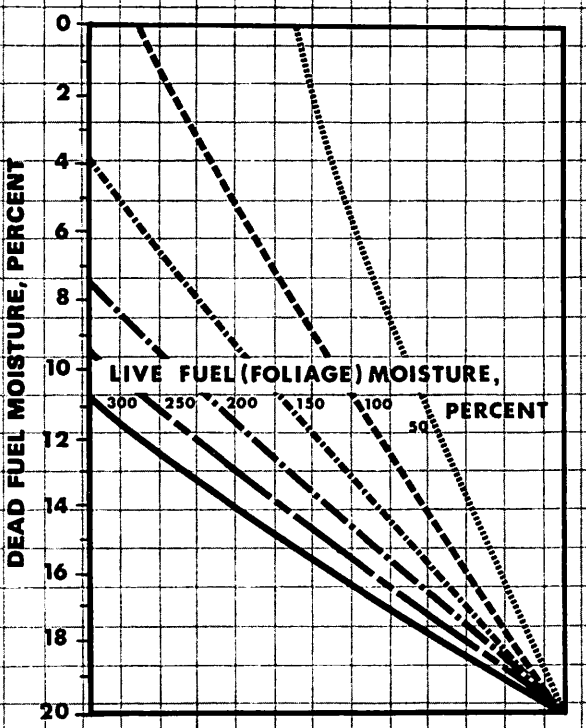
Fuel model 4 – high windspeeds

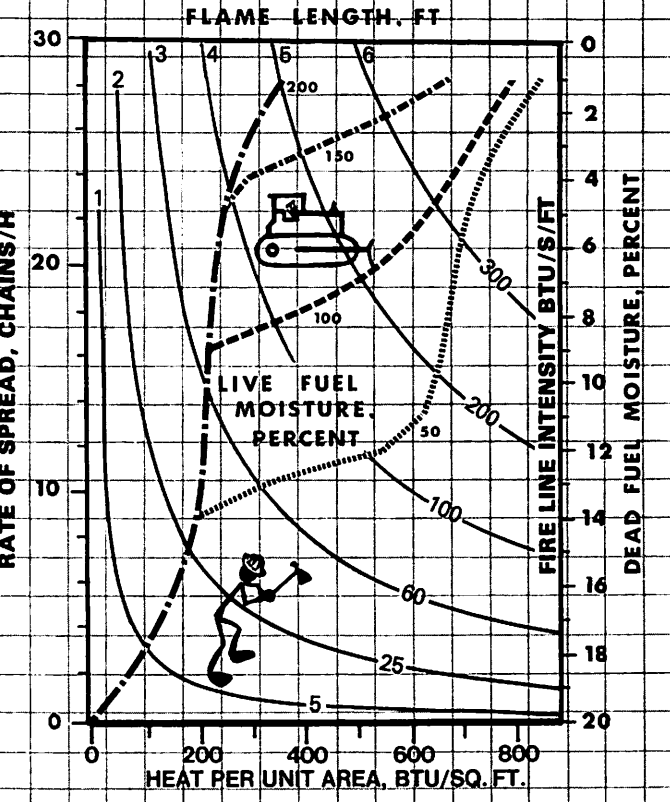
4. CHAPARRAL (6 FT)– HIGH WINDSPEEDS

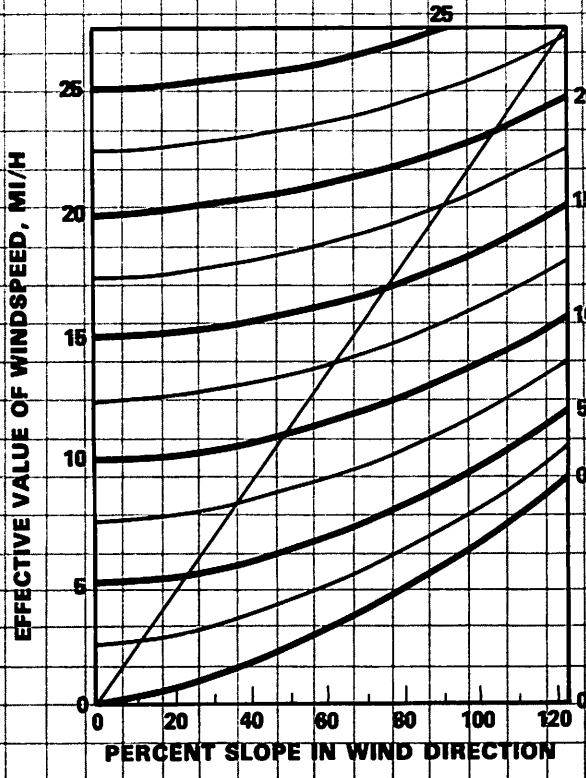


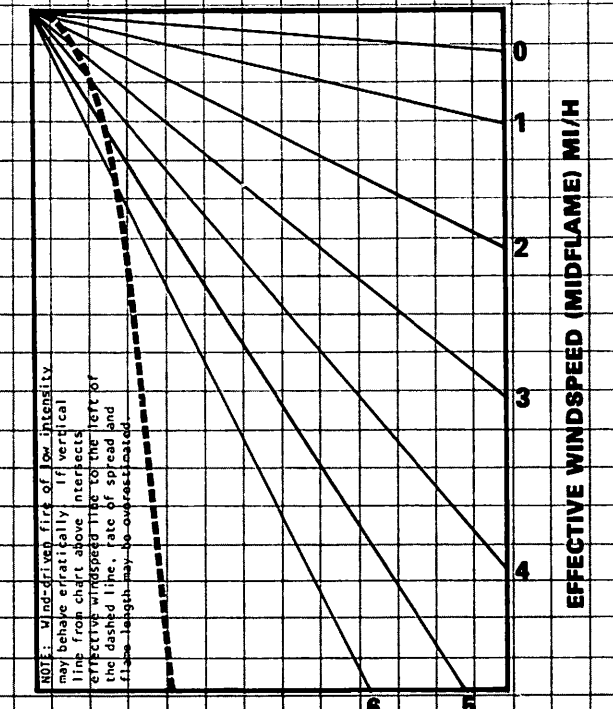
Fuel model 5 – low windspeeds

5. BRUSH (2 FT) – LOW WINDSPEEDS



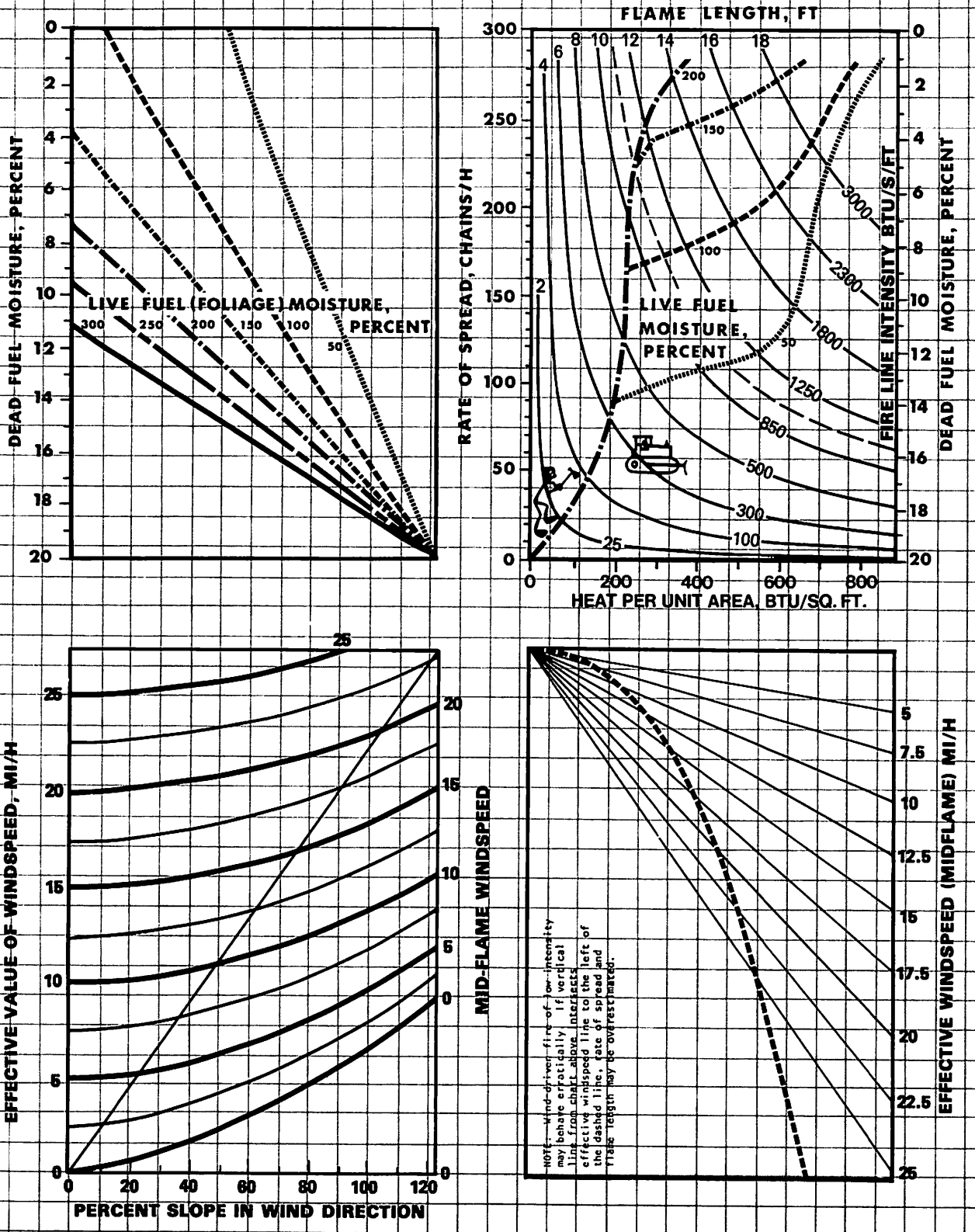






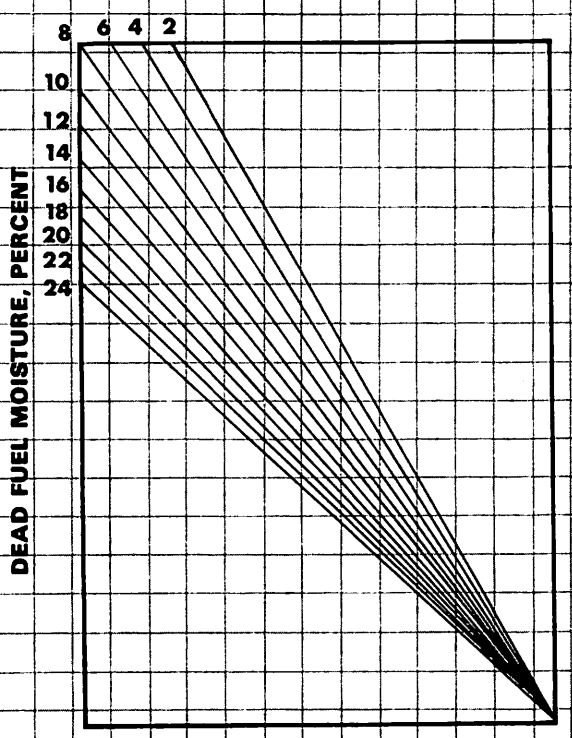
Fuel model 5 – high windspeeds

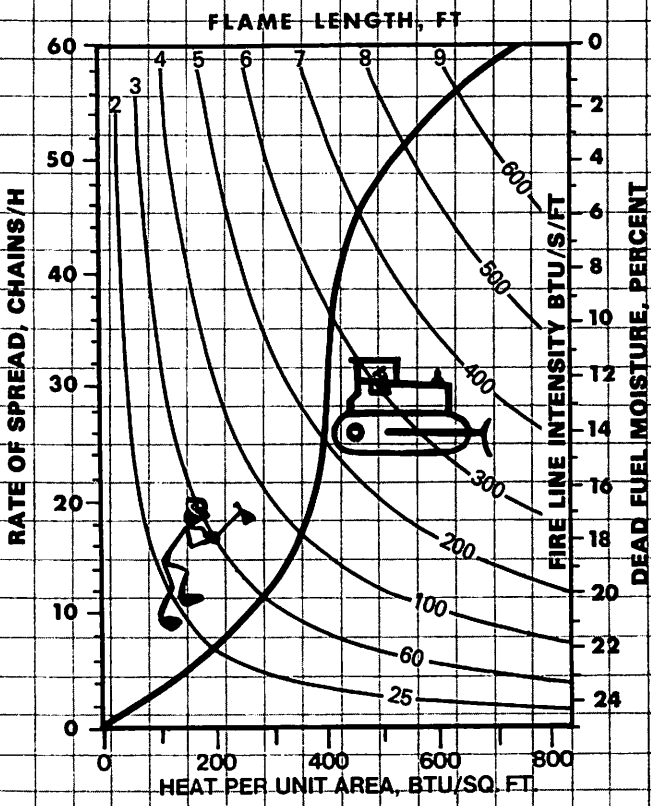
5. BRUSH (2 FT) – HIGH WINDSPEEDS

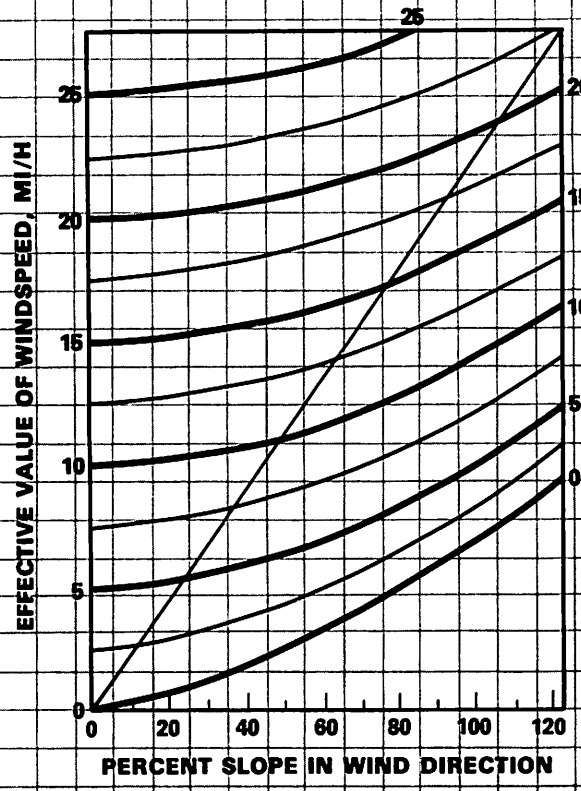


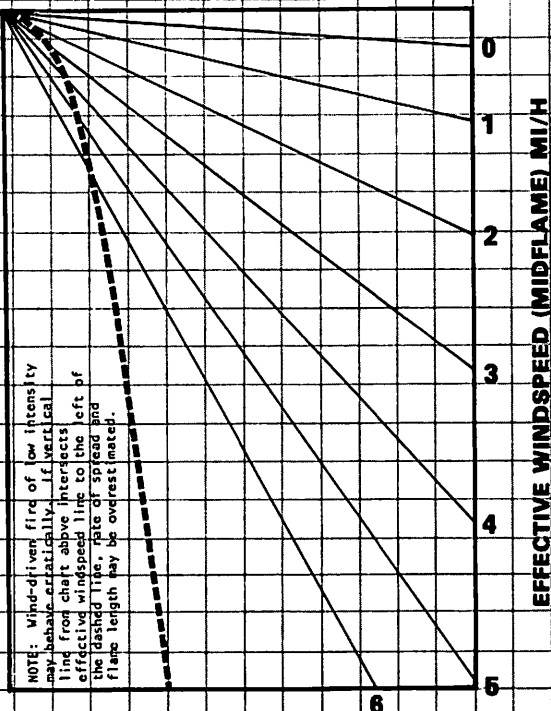
Fuel model 6 – low windspeeds

6. DORMANT BRUSH, HARDWOOD SLASH – LOW WINDSPEEDS



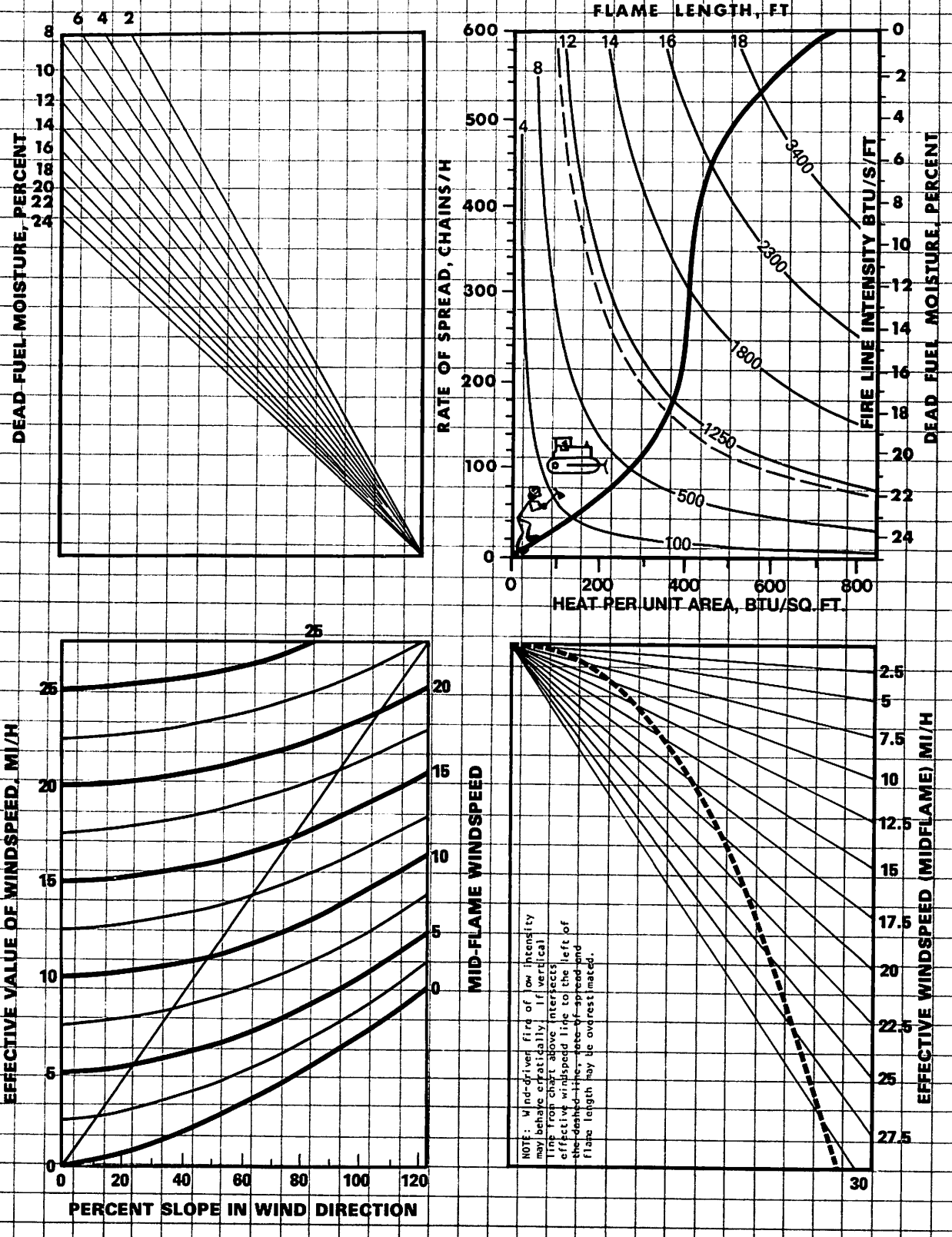




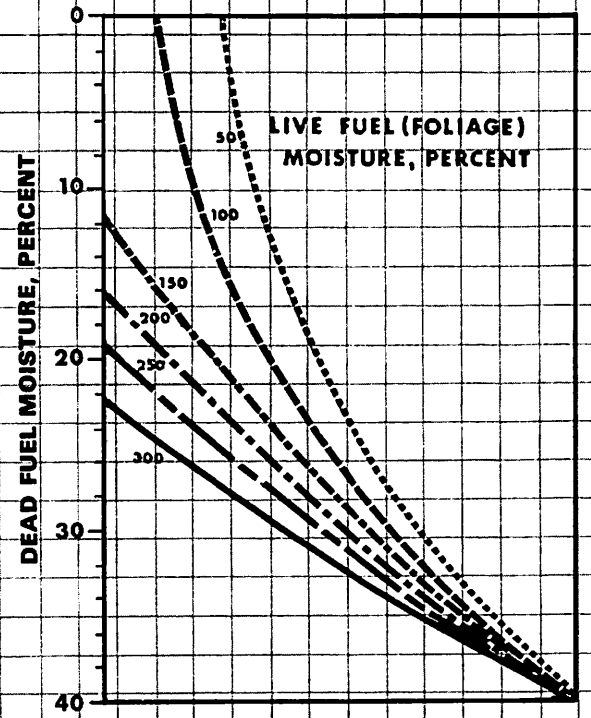


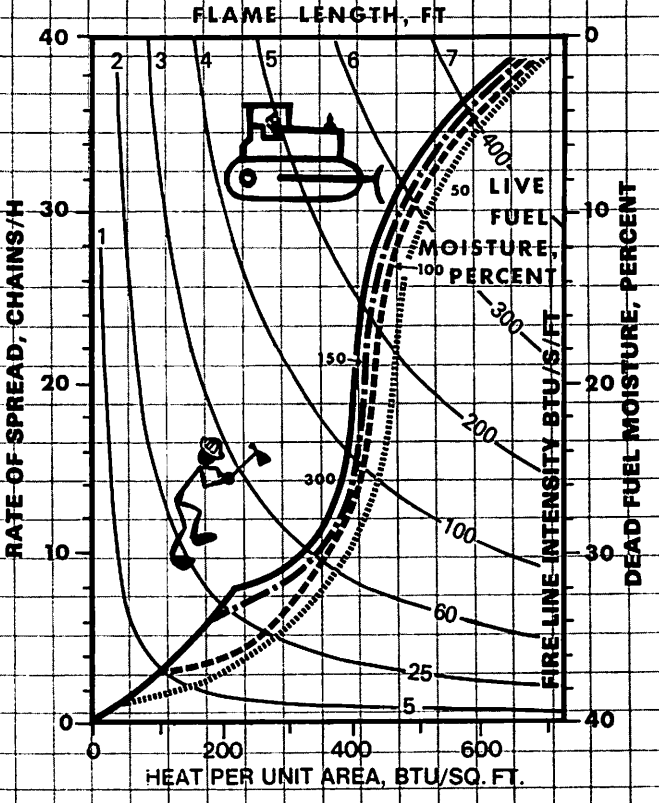
Fuel model 6 – high windspeeds

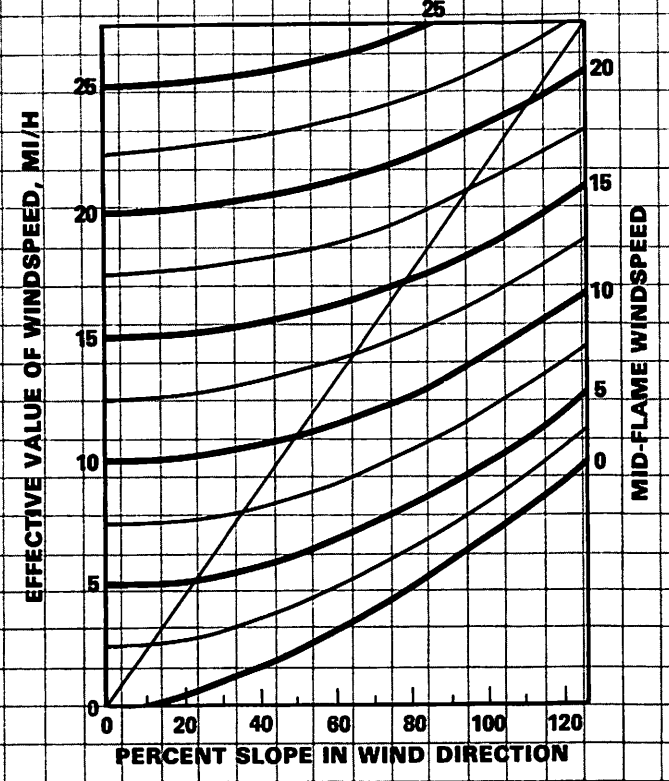
6. DORMANT BRUSH, HARDWOOD SLASH–HIGH WINDSPEEDS

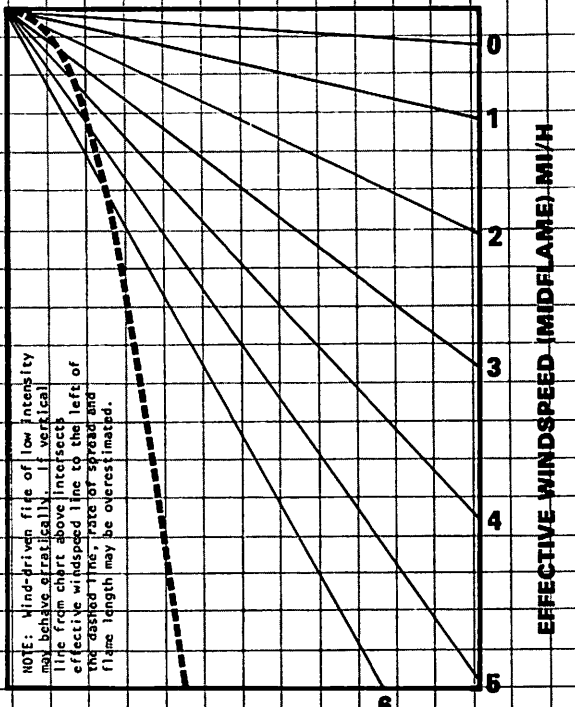


7. SOUTHERN ROUGH - LOW WINDSPEEDS



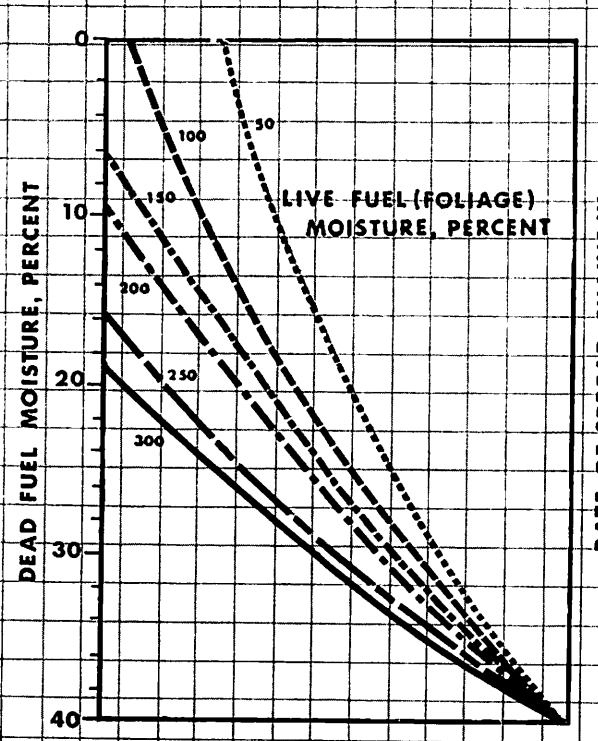


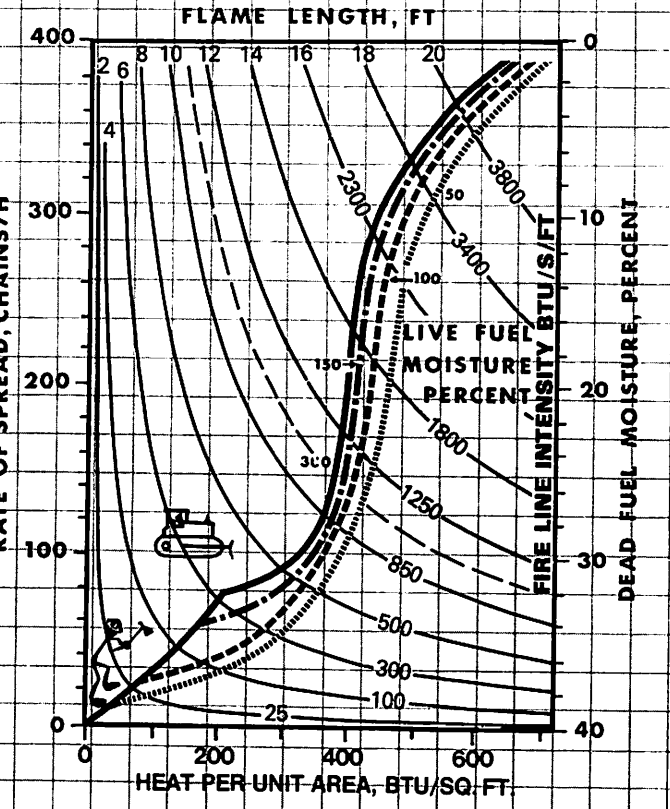


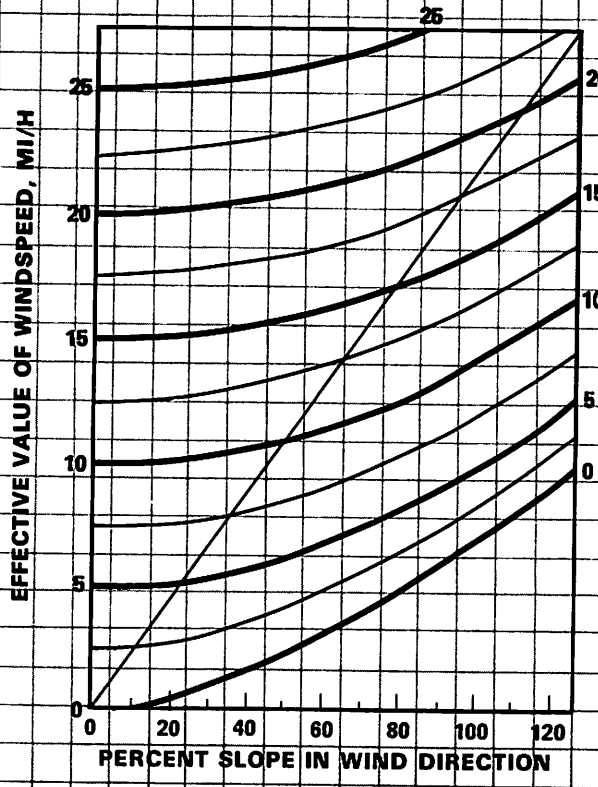


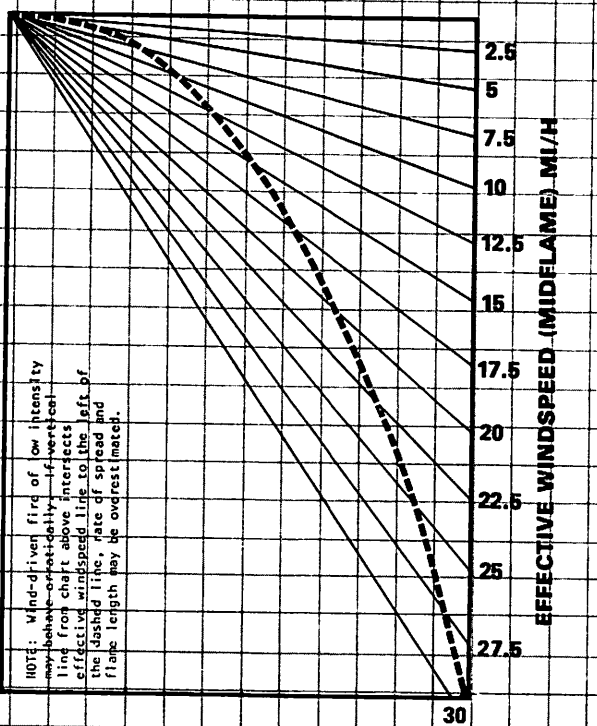
Fuel model 7 – high windspeeds

7. SOUTHERN ROUGH -HIGH WINDSPEEDS



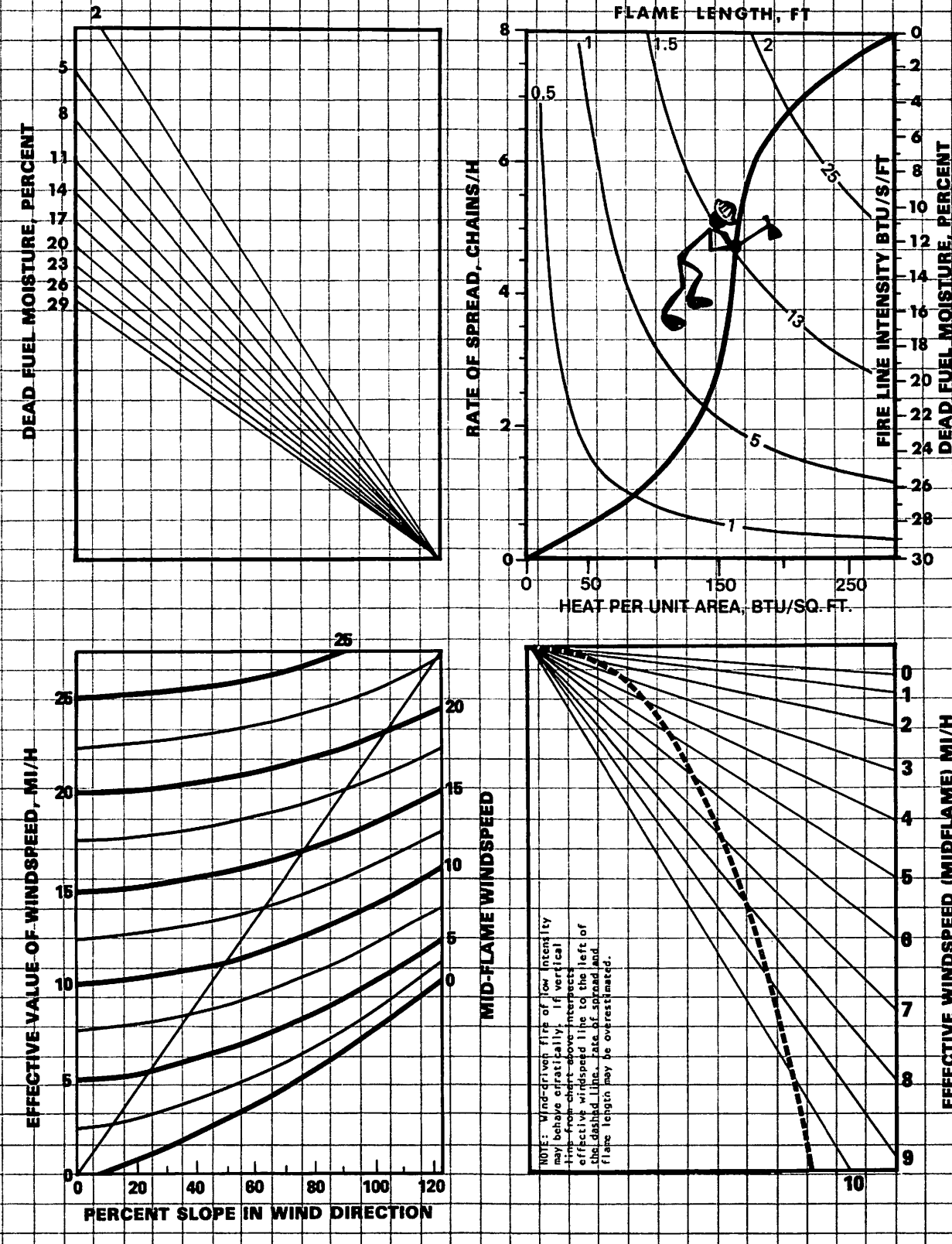






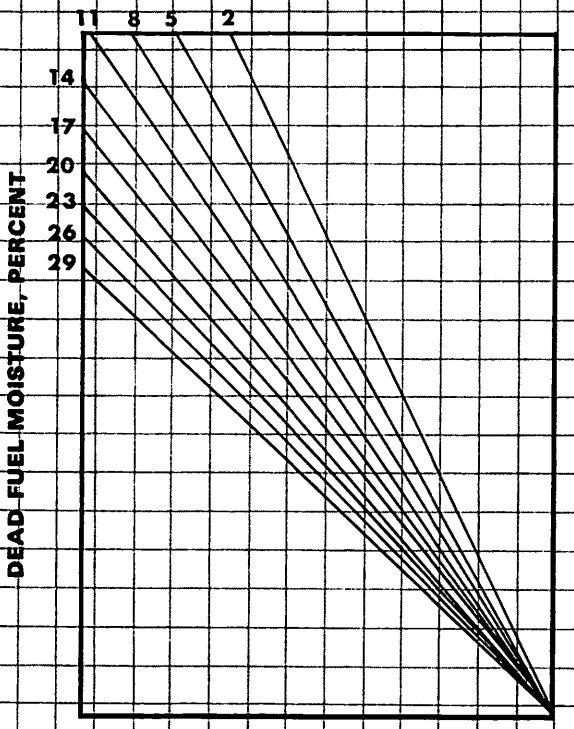
Fuel model 8 – low windspeeds

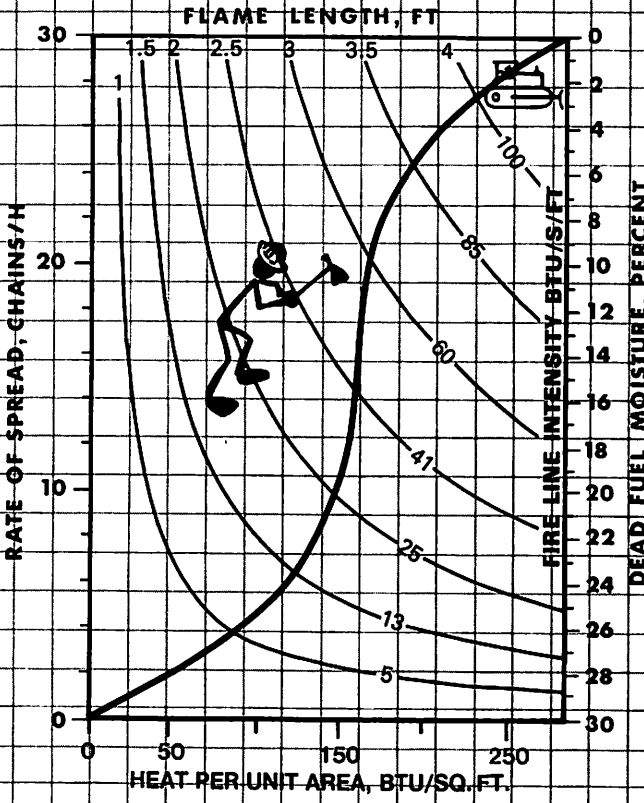
8. CLOSED TIMBER LITTER – LOW WINDSPEEDS

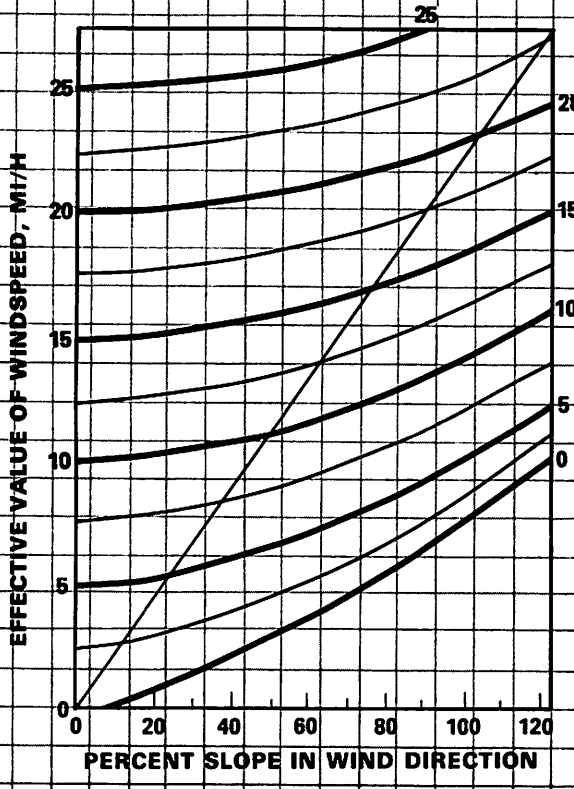


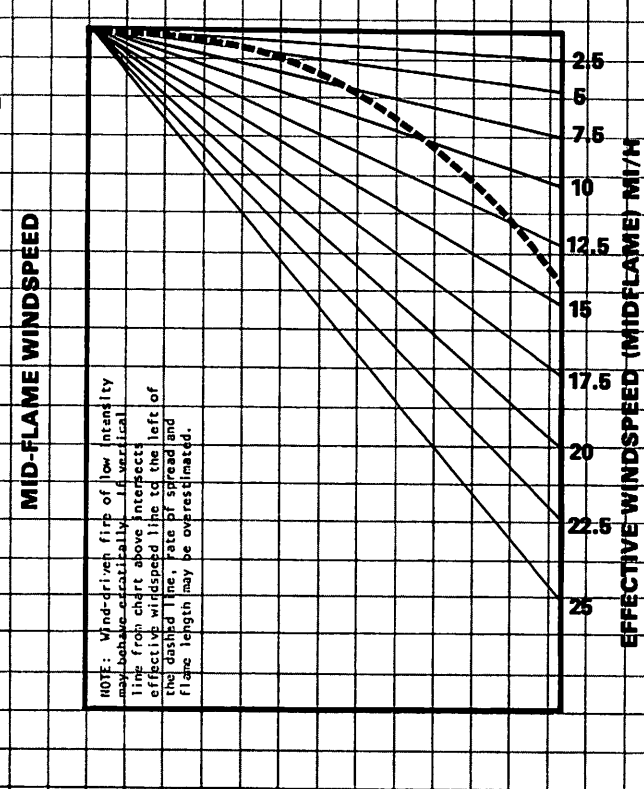
Fuel model 8 – high windspeeds

8. CLOSED TIMBER LITTER – HIGH WINDSPEEDS



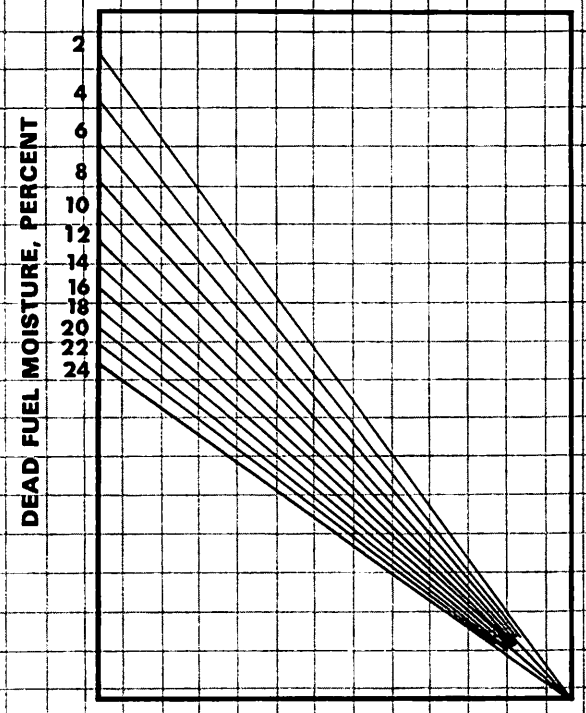


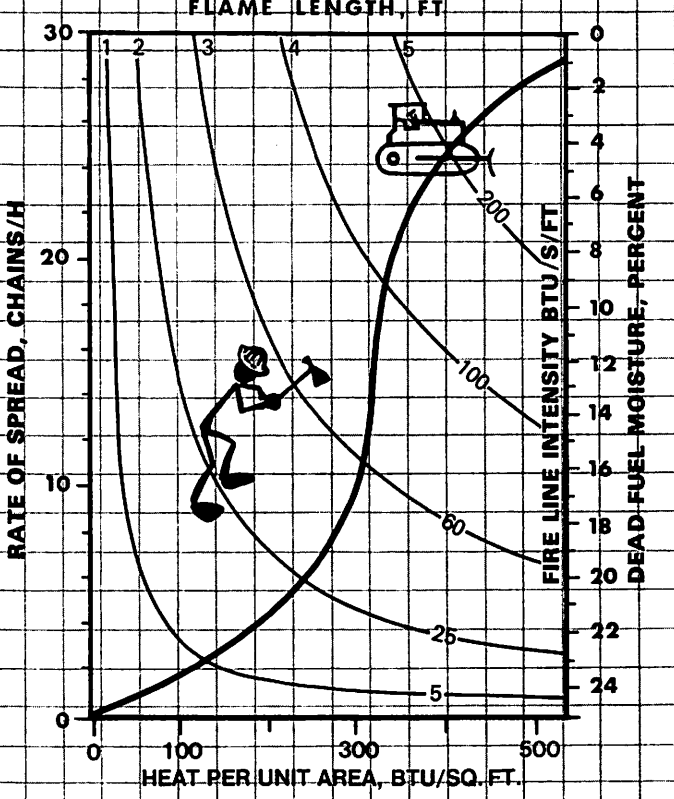


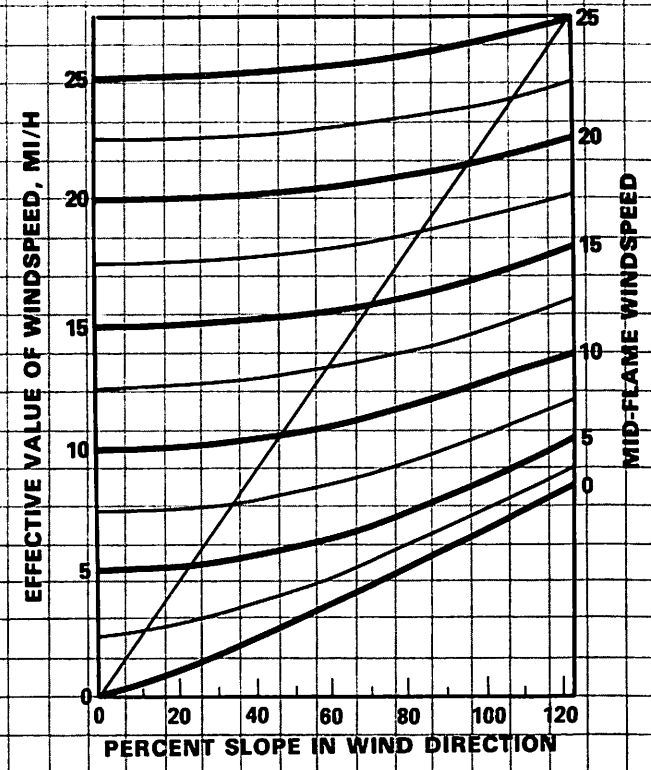


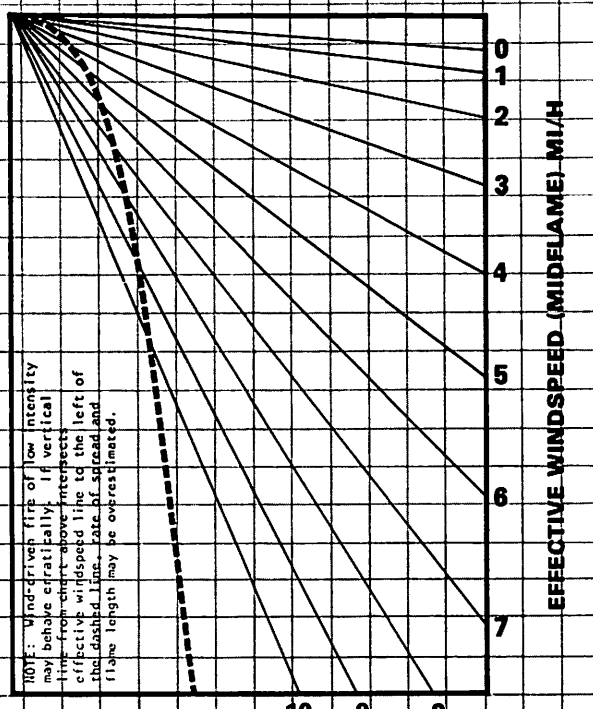
Fuel model 9 — low windspeeds

9. HARDWOOD LITTER - LOW WINDSPEEDS



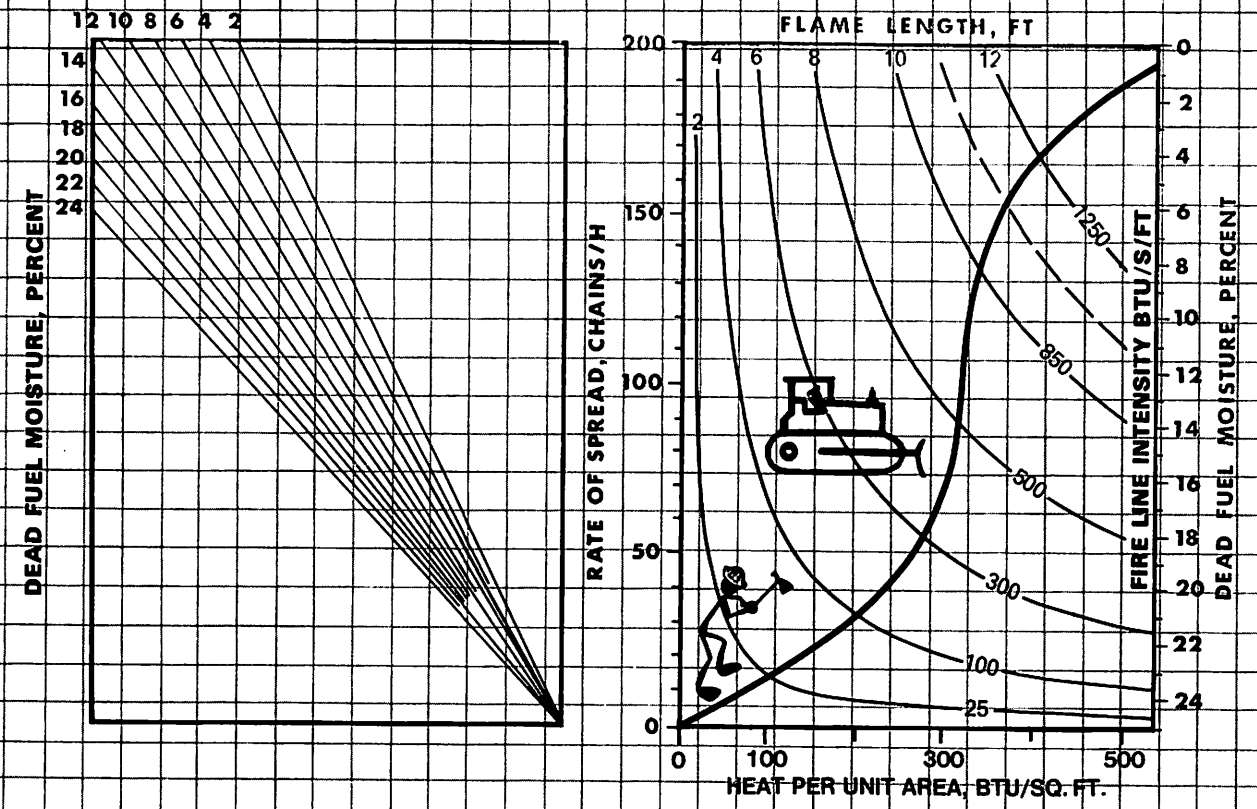


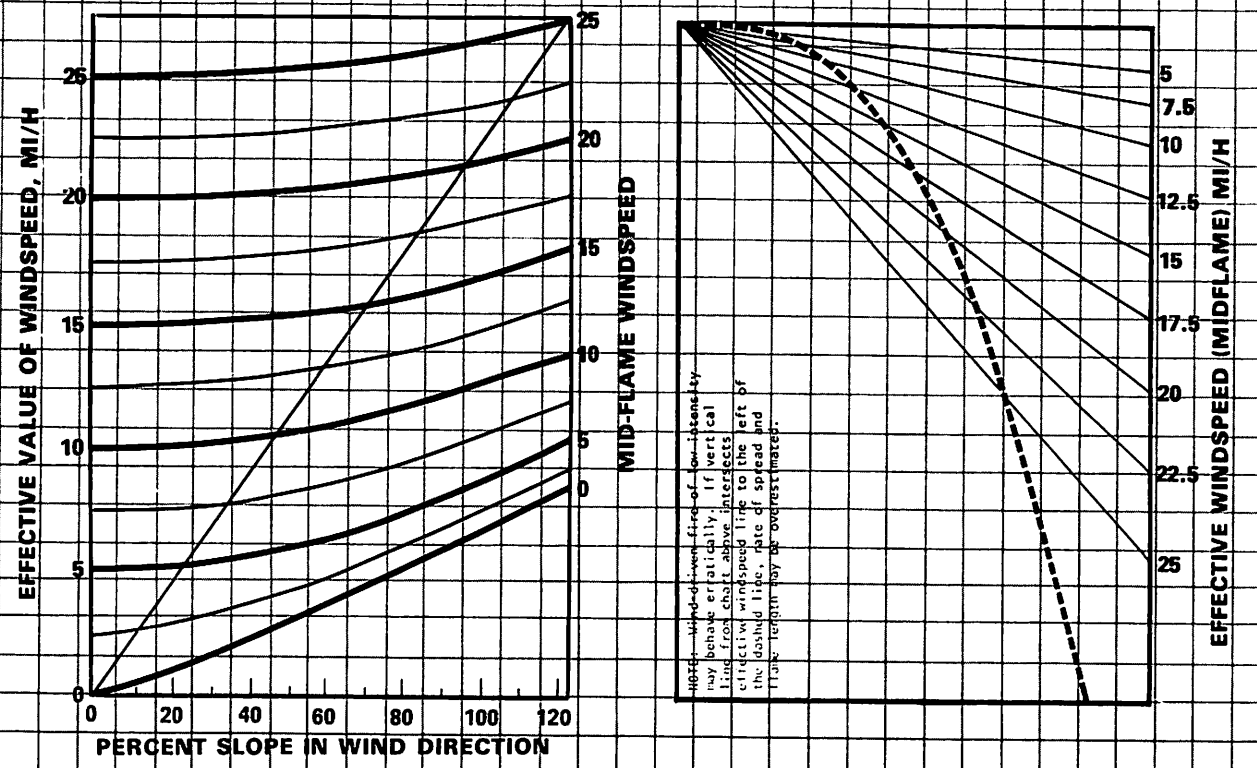




Fuel model 9 – high windspeeds

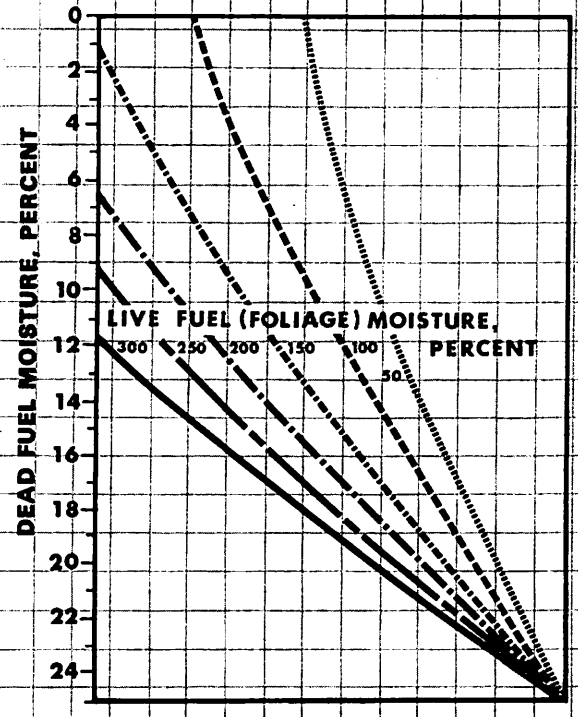
9. HARDWOOD LITTER - HIGH WINDSPEEDS

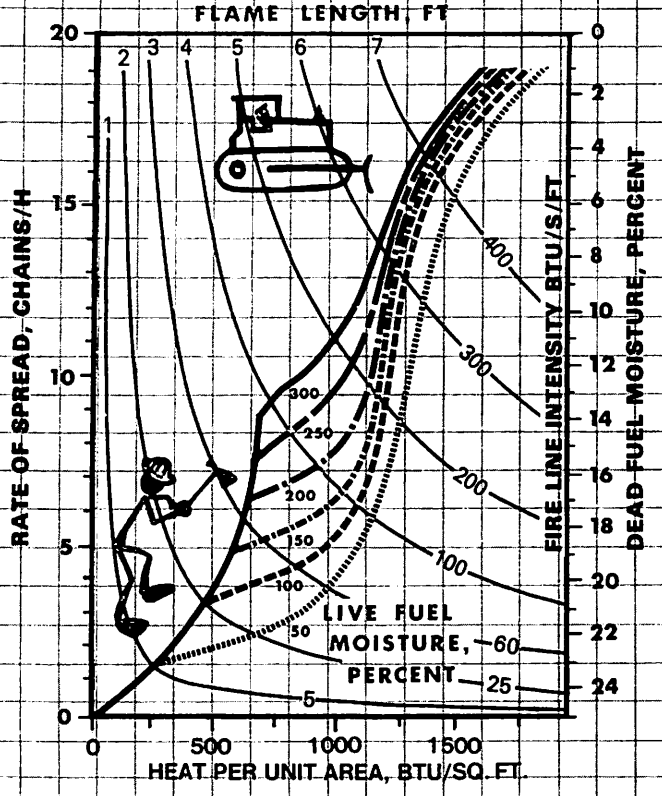


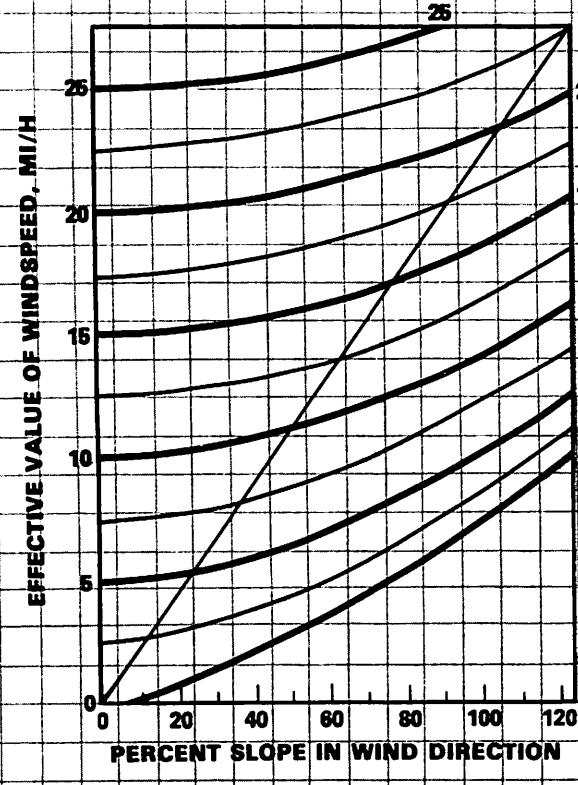


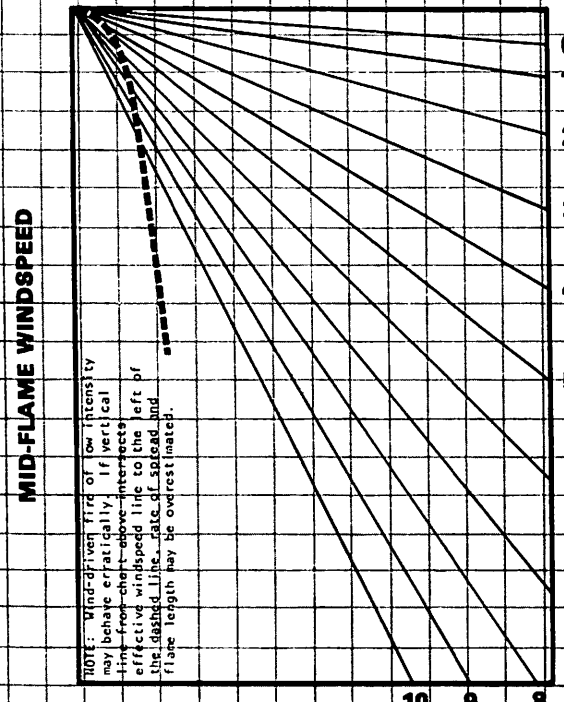
Fuel model 10 – low windspeeds

10. TIMBER (LITTER & UNDERSTORY) – LOW WINDSPEEDS



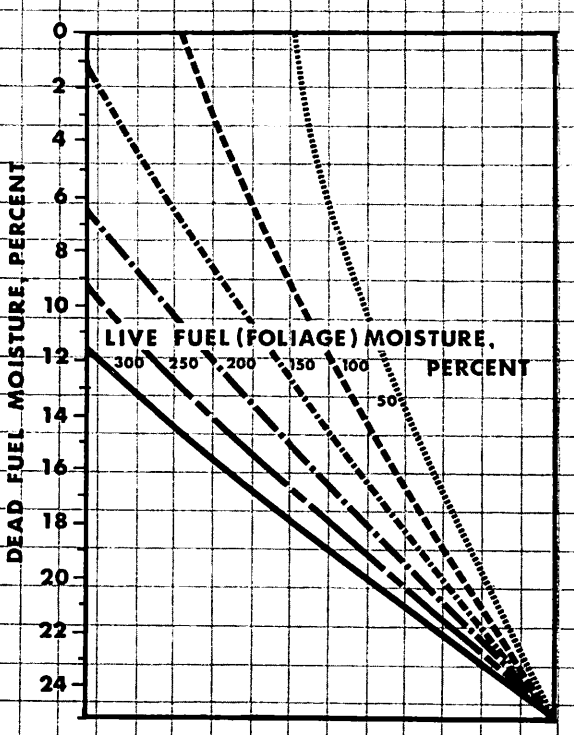


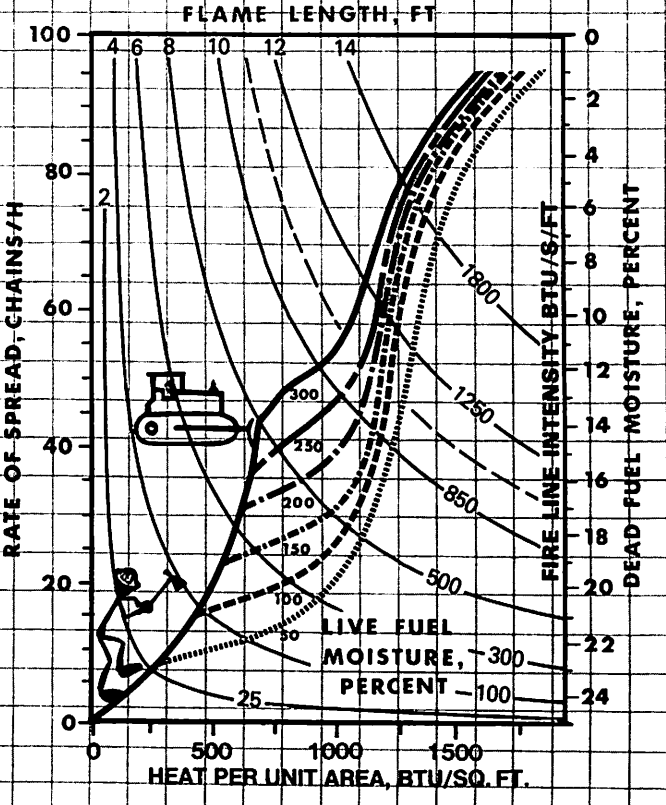


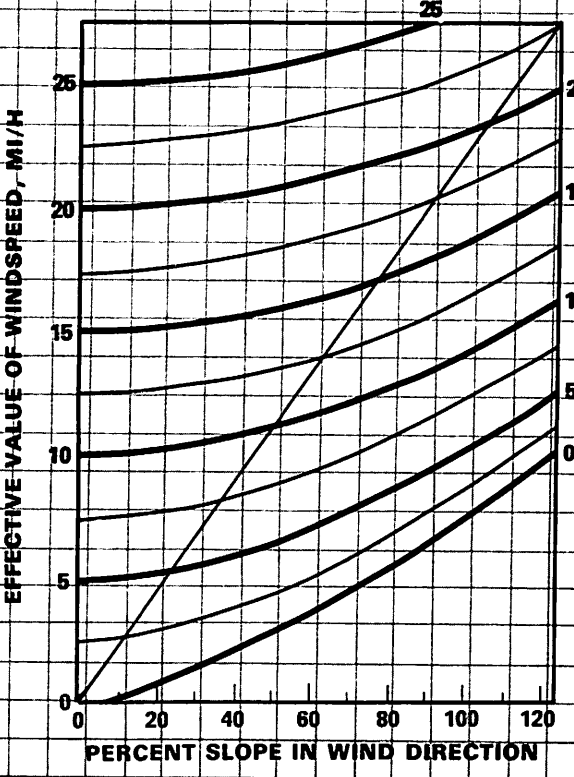


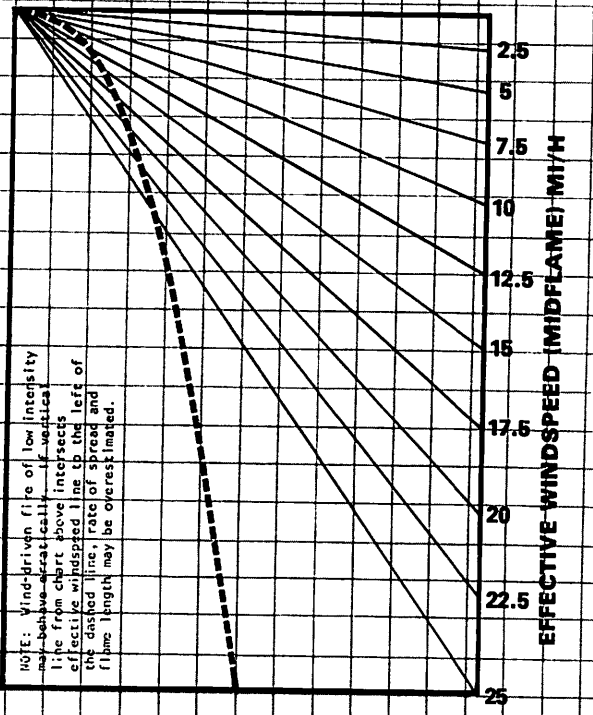
Fuel model 10 – high windspeeds

10. TIMBER (LITTER & UNDERSTORY)–HIGH WINDSPEEDS



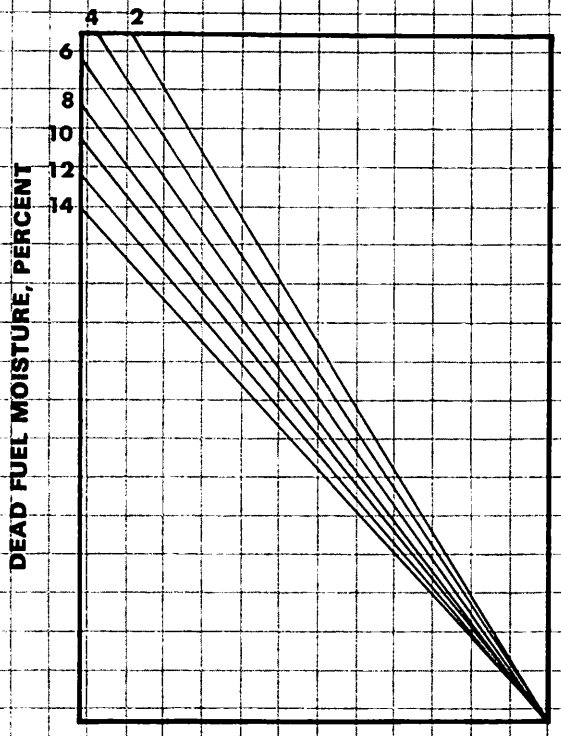


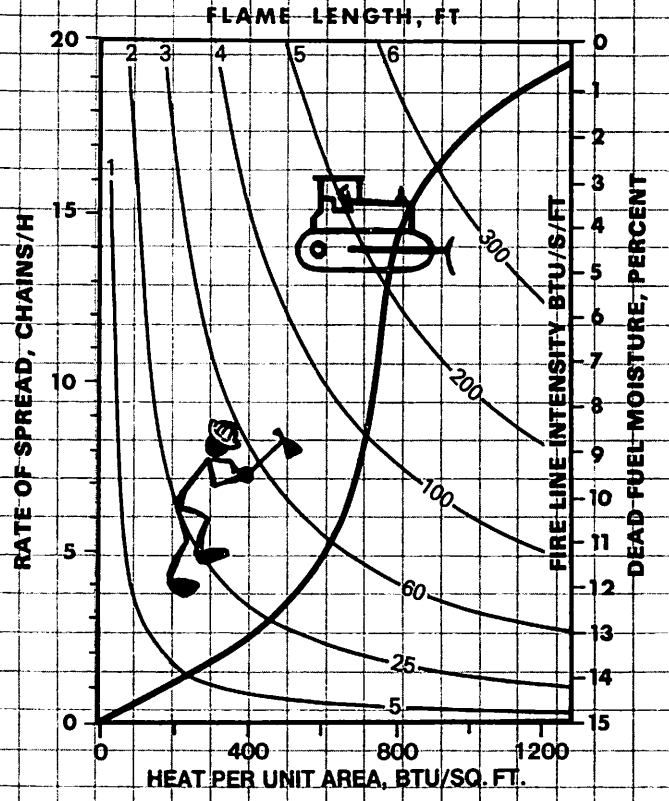


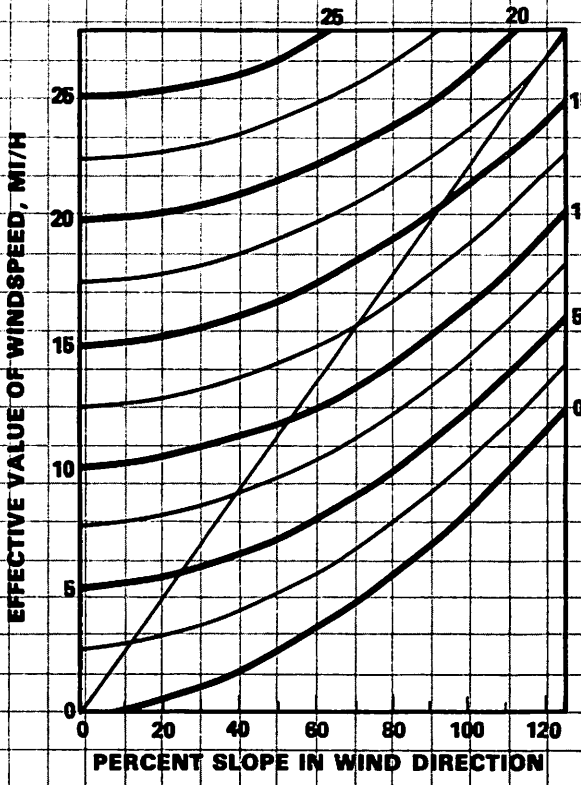


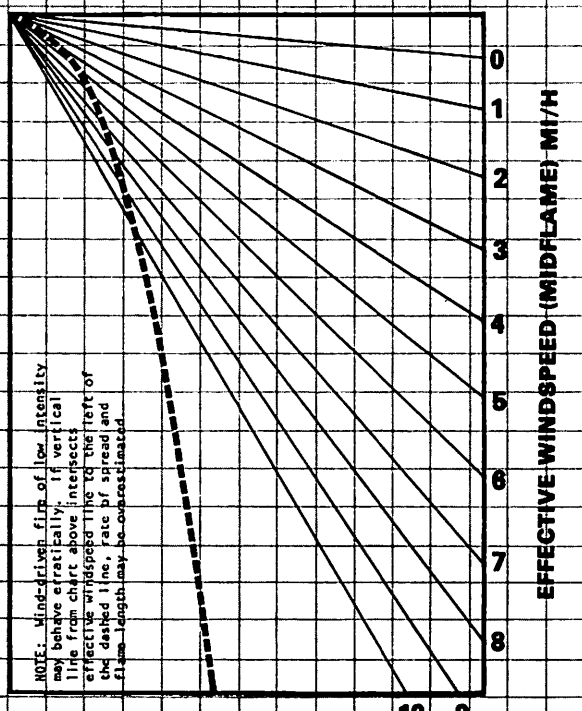
Fuel model 11 – low windspeeds

11. LIGHT LOGGING SLASH–LOW WINDSPEEDS



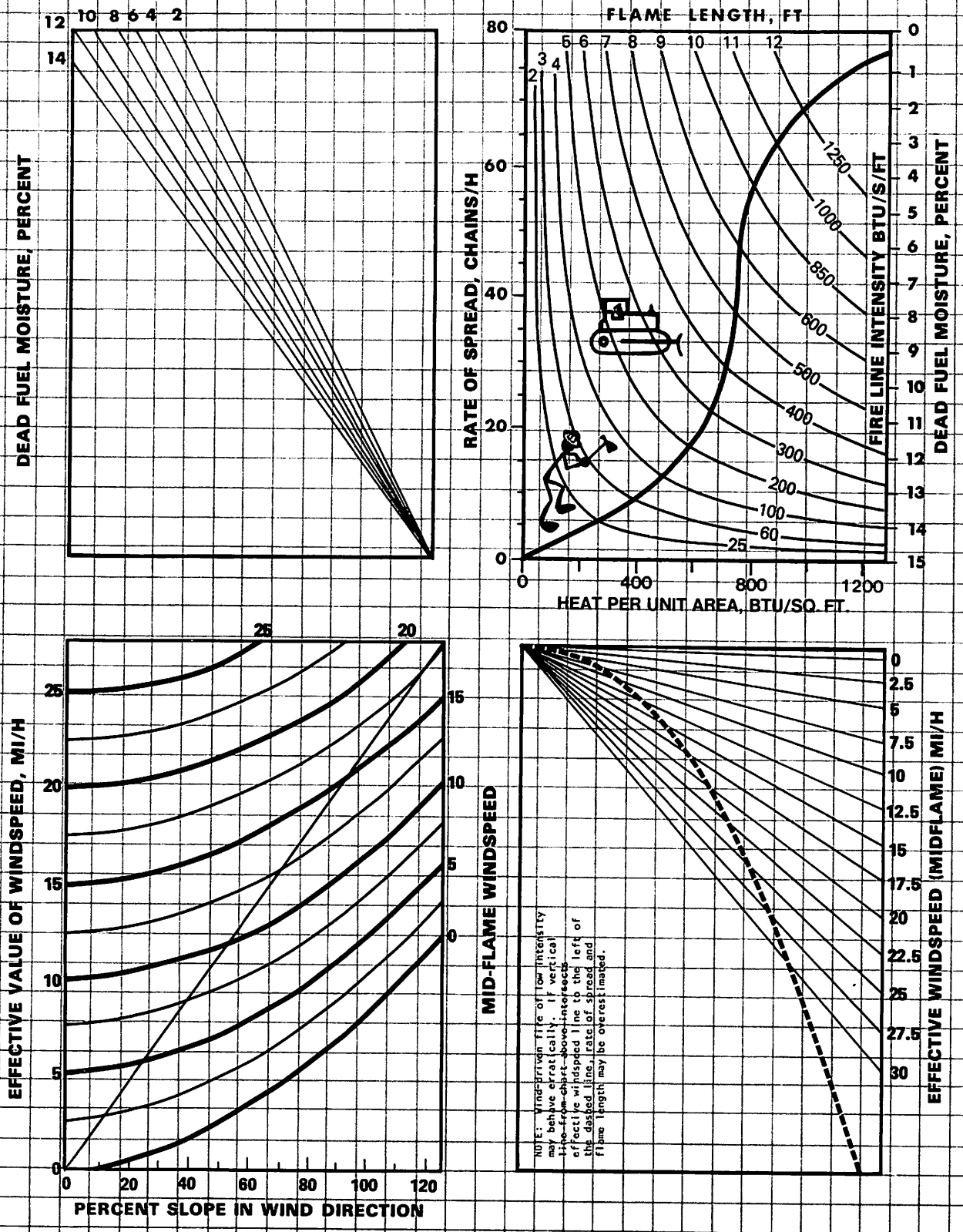






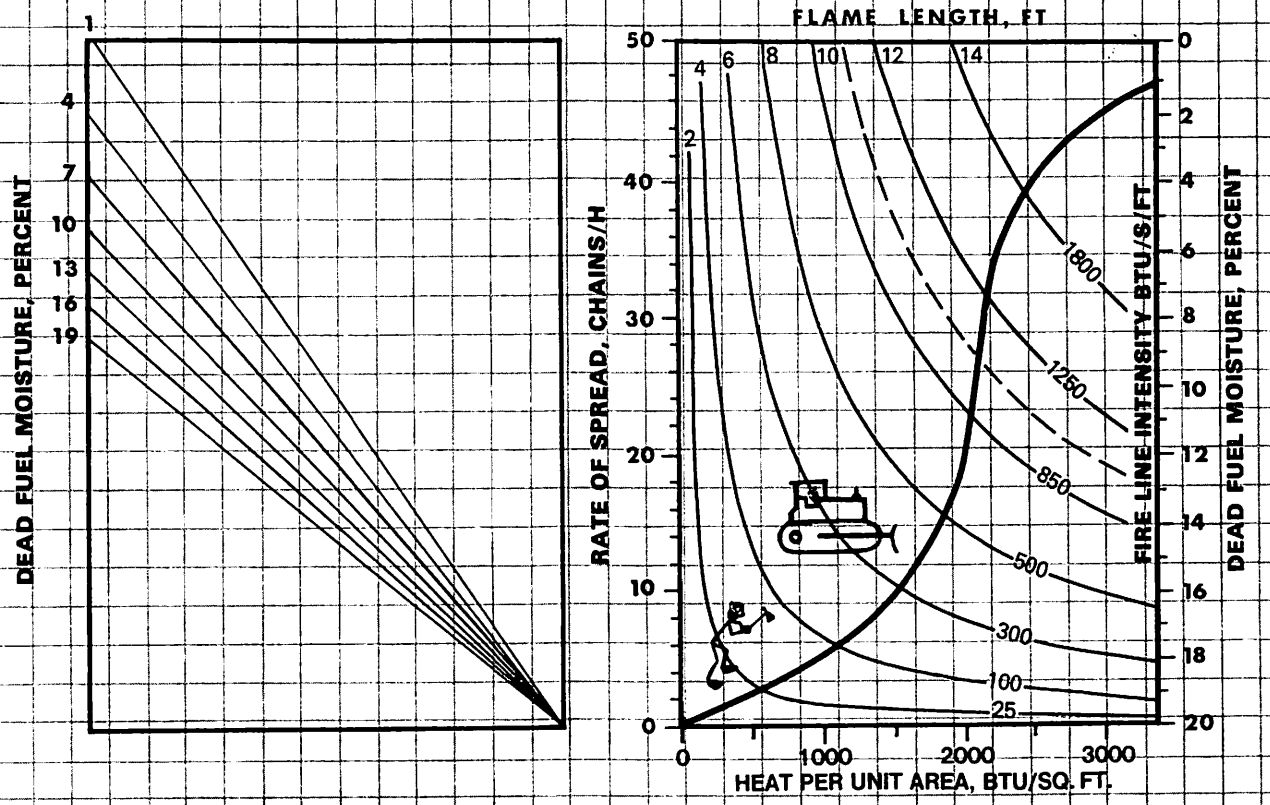
Fuel model 11 – high windspeeds

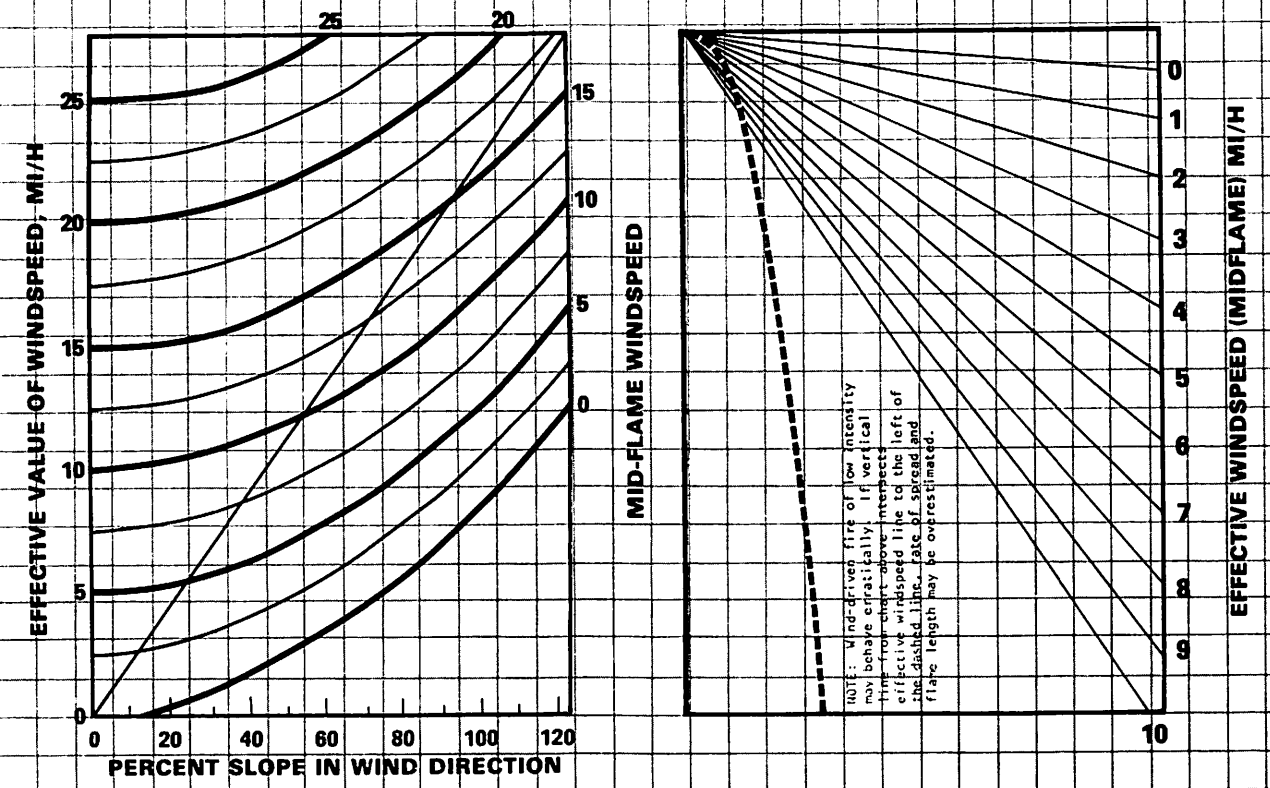
11. LIGHT LOGGING SLASH–HIGH WINDSPEEDS



Fuel model 12 – low windspeeds

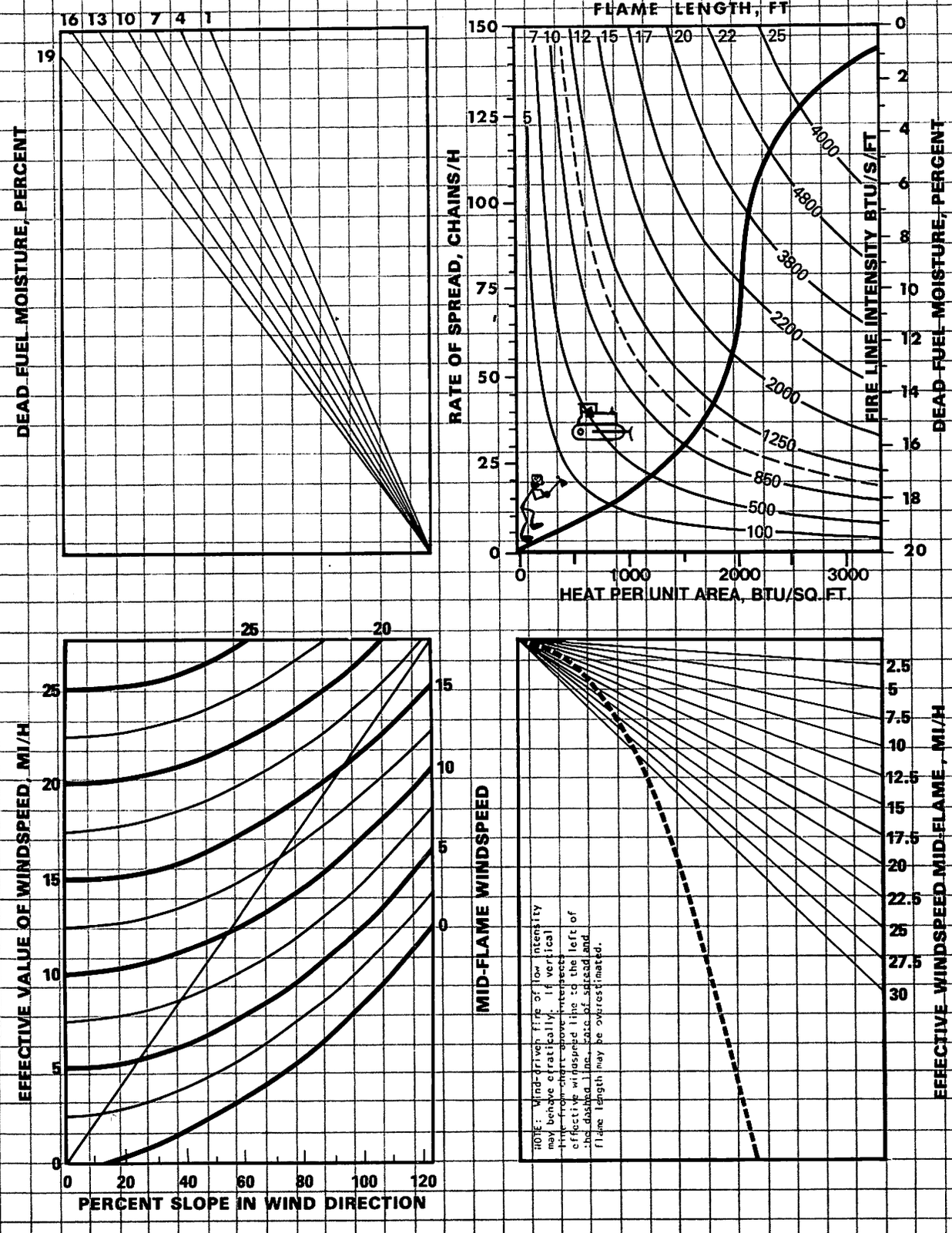
12. MEDIUM LOGGING SLASH – LOW WINDSPEEDS





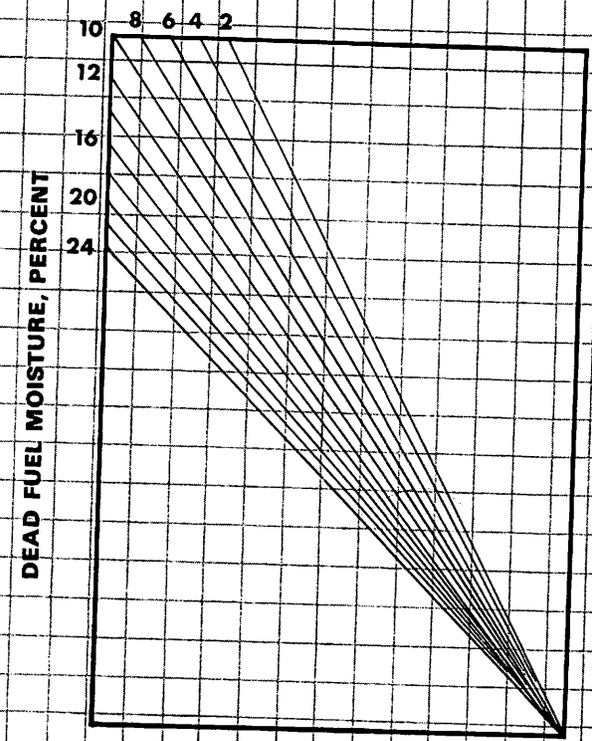
Fuel model 12 – high windspeeds

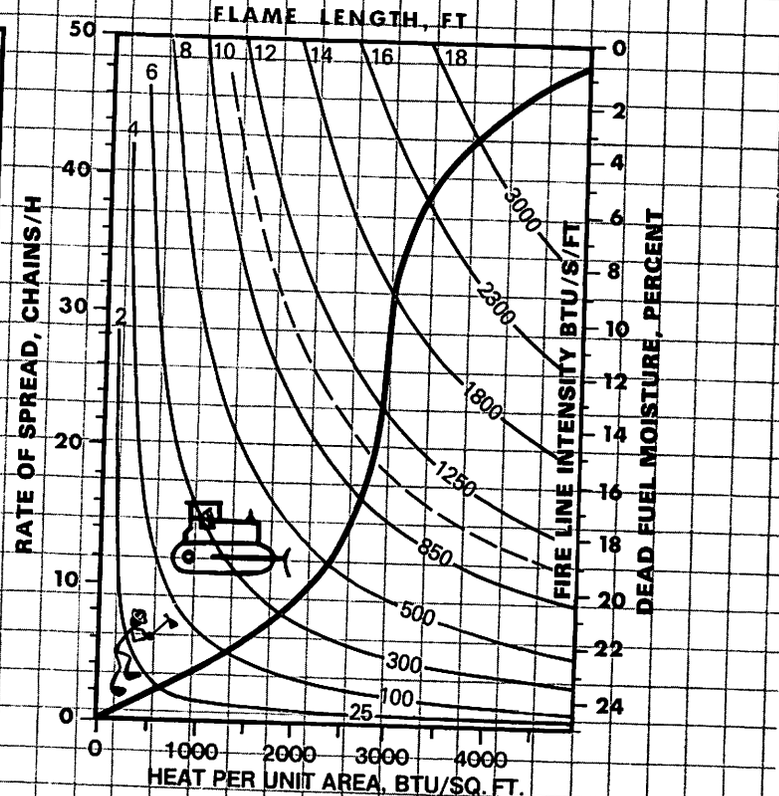
12. MEDIUM LOGGING SLASH-HIGH WINDSPEEDS

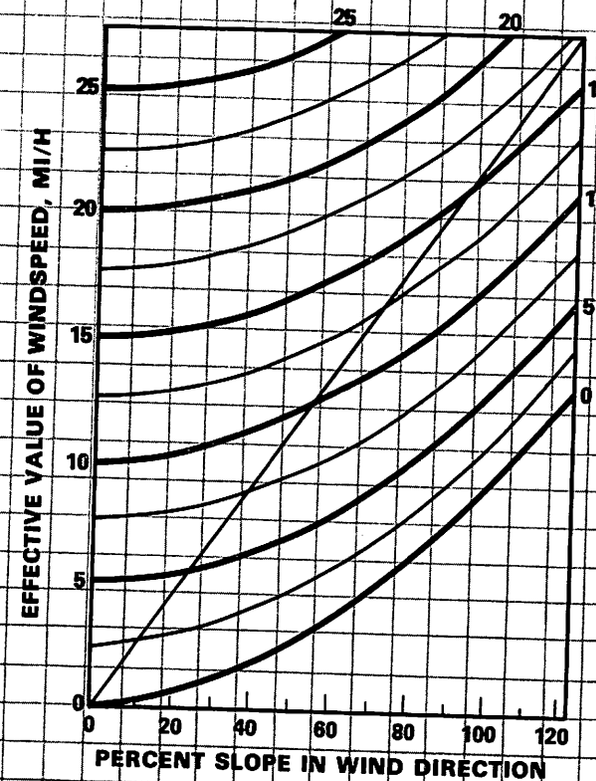


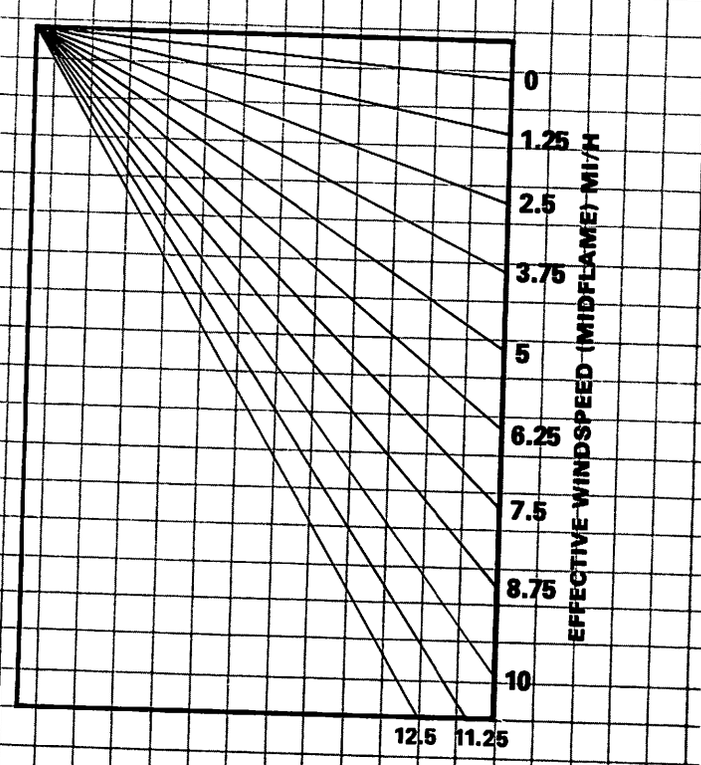
Fuel model 13 – low windspeeds

13. HEAVY LOGGING SLASH–LOW WINDSPEEDS









Fuel model 13 – high windspeeds

13. HEAVY LOGGING SLASH – HIGH WINDSPEEDS