```
&fuel_scalars                          ! scalar fuel constants
cmbcnst  = 17.433e+06,                 ! J/kg combustion heat dry fuel
hfgl     = 17.e4 ,                     ! W/m^2 heat flux to ignite canopy
fuelmc_g = 0.05,                       ! ground fuel moisture, set = 0 for
dry
fuelmc_g_lh = .30,                     ! ground live herb fuel moisture,
set = 0 for dry
fuelmc_c = 1.00,                       ! canopy fuel moisture, set = 0 for
dry
nfuelcats = 54,                        ! number of fuel categories used
no_fuel_cat = 14                       ! extra category for no fuel
/

&fuel_categories
 fuel_name =
'1: Short grass (1 ft)',
'2: Timber (grass and understory)',
'3: Tall grass (2.5 ft)',
'4: Chaparral (6 ft)',
'5: Brush (2 ft) ',
'6: Dormant brush, hardwood slash',
'7: Southern rough',
'8: Closed timber litter',
'9: Hardwood litter',
'10: Timber (litter + understory)',
'11: Light logging slash',
'12: Medium logging slash',
'13: Heavy logging slash',
'14: no fuel',
'15: Short, Sparse Dry Climate Grass (Dynamic) [GR1 (101)]',
'16: Low Load, Dry Climate Grass (Dynamic) GR2 (102)',
'17: Low Load, Very Coarse, Humid Climate Grass (Dynamic) [GR3
(103)]',
'18: Moderate Load, Dry Climate Grass (Dynamic) [GR4 (104)]',
'19: Low Load, Humid Climate Grass (Dynamic) [GR5 (105)]',
'20: Moderate Load, Humid Climate Grass (Dynamic) [GR6 (106)]',
'21: High Load, Dry Climate Grass (Dynamic) [GR7 (107)]',
'22: High Load, Very Coarse, Humid Climate Grass (Dynamic) [GR8
(108)]',
'23: Very High Load, Humid Climate Grass (Dynamic) [GR9 (109)]',
'24: Low Load, Dry Climate Grass–Shrub (Dynamic) [GS1 (121)]',
'25: Moderate Load, Dry Climate Grass–Shrub (Dynamic) [GS2 (122)]',
'26: Moderate Load, Humid Climate Grass–Shrub (Dynamic) [GS3 (123)]',
'27: High Load, Humid Climate Grass–Shrub (Dynamic) [GS4 (124)]',
'28: Low Load Dry Climate Shrub (Dynamic) [SH1 (141)]',
'29: Moderate Load Dry Climate Shrub [SH2 (142)]',
'30: Moderate Load, Humid Climate Shrub [SH3 (143)]',
'31: Low Load, Humid Climate Timber–Shrub [SH4 (144)]',
'32: High Load, Dry Climate Shrub [SH5 (145)]',
'33: Low Load, Humid Climate Shrub [SH6 (146)]',
```

'34: Very High Load, Dry Climate Shrub [SH7 (147)]',
'35: High Load, Humid Climate Shrub [SH8 (148)]',
'36: Very High Load, Humid Climate Shrub (Dynamic) [SH9 (149)]',
'37: Low Load Dry Climate Timber–Grass–Shrub (Dynamic) [TU1 (161)]',
'38: Moderate Load, Humid Climate Timber–Shrub [TU2 (162)]',
'39: Moderate Load, Humid Climate Timber–Grass–Shrub (Dynamic) [TU3 (163)]',
'40: Dwarf Conifer With Understory [TU4 (164)]',
'41: Very High Load, Dry Climate Timber–Shrub [TU5 (165)]',
'42: Low Load Compact Conifer Litter [TL1 (181)]',
'43: Low Load Broadleaf Litter [TL2 (182)]',
'44: Moderate Load Conifer Litter [TL3 (183)]',
'45: Small downed logs [TL4 (184)]',
'46: High Load Conifer Litter [TL5 (185)]',
'47: Moderate Load Broadleaf Litter [TL6 (186)]',
'48: Large Downed Logs [TL7 (187)]',
'49: Long–Needle Litter [TL8 (188)]',
'50: Very High Load Broadleaf Litter [TL9 (189)]',
'51: Low Load Activity Fuel [SB1 (201)]',
'52: Moderate Load Activity Fuel or Low Load Blowdown [SB2 (202)]',
'53: High Load Activity Fuel or Moderate Load Blowdown [SB3 (203)]',
'54: High Load Blowdown [SB4 (204)]'
 fgi = 0.1660, 0.8960, 0.6740, 3.5910, 0.7840, 1.3440, 1.0910, 1.1200, 0.7800, 2.6920, 2.5820, 7.7490, 13.0240, 1.e-7,
      0.0224, 0.0224, 0.1121, 0.0560, 0.0897, 0.0224, 0.2242, 0.3363, 0.4483,
      0.0448, 0.2242, 0.1233, 0.5156,
      0.1121, 1.0088, 0.7734, 0.4932, 1.2778, 0.9751, 2.4659, 1.4123, 1.5580,
      0.5828, 0.8967, 0.3363, 1.0088, 2.4659,
      1.5244, 1.3226, 1.2329, 1.3899, 1.8046, 1.0760, 2.1969, 1.8606, 3.1608,
      3.4746, 2.8582, 2.5219, 3.1384
 fgi_lh = 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000,
          0.0673, 0.2242, 0.3363, 0.4259, 0.5604, 0.7622, 1.2105, 1.6364, 2.0175,
          0.1121, 0.1345, 0.3250, 0.7622,
          0.0336, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.3475,
          0.0448, 0.0000, 0.1457, 0.0000, 0.0000,
          0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000, 0.0000,
          0.0000, 0.0000, 0.0000, 0.0000
 fueldepthm= 0.3050, 0.3050, 0.7620, 1.8290, 0.6100, 0.7620, 0.7620, 0.0610, 0.0610, 0.3050, 0.3050, 0.7010, 0.9140, 0.3050,
            0.1219, 0.3048, 0.6096, 0.6096, 0.4572, 0.4572, 0.9144, 1.2192, 1.5240,
            0.2743, 0.4572, 0.5486, 0.6401,
            0.3048, 0.3048, 0.7315, 0.9144, 1.8288, 0.6096, 1.8288,

```
0.9144, 1.3411,
              0.1829, 0.3048, 0.3962, 0.1524, 0.3048,
              0.0610, 0.0610, 0.0914, 0.1219, 0.1829, 0.0914, 0.1219,
0.0914, 0.1829,
              0.3048, 0.3048, 0.3658, 0.8230
 savr = 3500., 2784., 1500., 1739., 1683., 1564., 1562., 1889., 2484.,
1764., 1182., 1145., 1159., 3500.,
              2200., 2000., 1500., 2000., 1800., 2200., 2000., 1500.,
1800.,
              2000., 2000., 1800., 1800.,
              2000., 2000., 1600., 2000., 750., 750., 750., 750.,
750.,
              2000., 2000., 1800., 2300., 1500.,
              2000., 2000., 2000., 2000., 2000., 2000., 2000., 1800.,
1800.,
              2000., 2000., 2000., 2000.
 fuelmce = 0.12, 0.15, 0.25, 0.20, 0.20, 0.25, 0.40, 0.30, 0.25, 0.25,
0.15, 0.20, 0.25, 0.12,
              0.15, 0.15, 0.30, 0.15, 0.40, 0.40, 0.15, 0.30, 0.40,
              0.15, 0.15, 0.40, 0.40,
              0.15, 0.15, 0.40, 0.30, 0.15, 0.30, 0.15, 0.40, 0.40,
              0.20, 0.30, 0.30, 0.12, 0.25,
              0.30, 0.25, 0.20, 0.25, 0.25, 0.25, 0.25, 0.35, 0.35,
              0.25, 0.25, 0.25, 0.25
 fueldens = 32., 32., 32., 32., 32., 32., 32., 32., 32., 32., 32.,
32., 32., 32., ! 32 if solid, 19 if rotten
              32., 32., 32., 32., 32., 32., 32., 32., 32.,
              32., 32., 32., 32.,
              32., 32., 32., 32., 32., 32., 32., 32., 32.,
              32., 32., 32., 32., 32.,
              32., 32., 32., 32., 32., 32., 32., 32., 32.,
              32., 32., 32., 32.
 st = 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555,
0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555,
      0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555,
0.0555,
      0.0555, 0.0555, 0.0555, 0.0555,
      0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555,
0.0555,
      0.0555, 0.0555, 0.0555, 0.0555, 0.0555,
      0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555, 0.0555,
0.0555,
      0.0555, 0.0555, 0.0555, 0.0555
 se = 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010,
0.010, 0.010, 0.010, 0.010, 0.010,
      0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010,
      0.010, 0.010, 0.010, 0.010,
      0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010,
      0.010, 0.010, 0.010, 0.010, 0.010,
      0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010, 0.010,
```

```
      0.010, 0.010, 0.010, 0.010
 ! ----- Notes on weight: (4) - best fit of Latham data; (5)-(7) could
be 60-120; (8)-(10) could be 300-1600; (11)-(13) could be 300-1600
 weight = 7., 7., 7., 180., 100., 100., 100., 900., 900., 900., 900.,
900., 900., 7.,
           7., 7., 7., 7., 7., 7., 7., 7., 7.,
           7., 7., 7., 7.,
           100., 100., 100., 100., 180., 100., 180., 100., 100.,
           900., 900., 900., 900., 900.,
           900., 900., 900., 900., 900., 900., 900., 900., 900.,
           900., 900., 900., 900.
 /
```