

**Rule** Number 1

If the season is early storms, and  
the days since last rain is less than or equal to 3  
Then the available biomass is negligible

X

## Rule Number 2

If the season is early storms, and  
the days since last rain is greater than 3, and  
the grass biomass is X  
Then the available biomass is X

## Rule Number 100

If the season is early storms, and  
the days since last rain is greater than 3, and  
the litter mass is X  
Then the available biomass is X

## Rule Number 3

If the season is monsoon, and  
the years since fire is greater than 1, and  
the days since last rain is less than 3  
Then the available biomass is negligible

## Rule Number 4

If the season is monsoon, and  
the years since fire is less than or equal to 1  
Then the available biomass is negligible

## Rule Number 5

If the season is one of [cool,cold,hot], and  
the grass biomass is X  
Then the available biomass is X

## Rule Number 101

If the season is one of [cool,cold,hot], and  
the litter mass is X  
Then the available biomass is X

## Rule Number 99

If the season is hot  
Then the degree of curing is 100

## Rule Number 6

If the season is monsoon, and  
the years since fire is less than 1  
Then the fire danger is negligible

## Rule Number 7

If the season is monsoon, and  
the years since fire is greater than or equal to 1, and  
the days since last rain is less than 3  
Then the fire danger is negligible

## Rule Number 8

If the season is cold, and  
the 3pm humidity is less than 40, and  
the wind strength is high  
Then the fire danger is very high

## Rule Number 9

If the season is cold, and  
the 3pm humidity is less than 40, and  
the wind strength is calm  
Then the fire danger is low

## Rule Number 10

If the season is cold, and  
the 3pm humidity is greater than or equal to 40, and  
the wind strength is calm  
Then the fire danger is low

## Rule Number 11

If the season is cold, and  
the 3pm humidity is greater than or equal to 40, and  
the wind strength is moderate  
Then

the fire danger is moderate

Rule Number 12

If the season is cold, and  
the 3pm humidity is greater than or equal to 40, and  
the wind strength is high  
Then the fire danger is high



Rule Number 13

If the season is hot, and  
the wind strength is calm  
Then the fire danger is moderate

Rule Number 14

If the season is hot, and  
the wind strength is moderate  
Then the fire danger is very high

Rule Number 15

If the season is hot, and  
the wind strength is high  
Then the fire danger is extreme

Rule Number 16

If the season is cool, and  
the degree of curing is less than 60  
Then the fire danger is negligible

Rule Number 17

If the season is cool, and  
the degree of curing is greater than or equal to 60, and  
the degree of curing is less than 100  
Then the fire danger is low

Rule Number 18

If the season is cold, and  
the 3pm humidity is less than 40, and  
the wind strength is moderate  
Then

the fire danger is high

Rule Number 19

If the season is cool, and  
the 3pm humidity is greater than or equal to 40, and  
the wind strength is low, and  
the degree of curing is 100  
Then  
the fire danger is low

Rule Number 20

If the season is hot, and  
the wind strength is low  
Then  
the fire danger is high

Rule Number 21

If the season is early storms, and  
the days since last rain is less than or equal to 3  
Then  
the fire danger is negligible

Rule Number 22

If the season is knock em down storms  
Then  
the fire danger is negligible

Rule Number 23

If the season is early storms, and  
the wind strength is calm, and  
the days since last rain is greater than 3  
Then  
the fire danger is low

Rule Number 24

If the season is early storms, and  
the wind strength is low, and  
the days since last rain is greater than 3  
Then  
the fire danger is low

Rule Number 25

If the season is cold, and  
the 3pm humidity is greater than or equal to 40, and  
the wind strength is low

Then  
the fire danger is low

Rule Number 26

If the season is cold, and  
the 3pm humidity is less than 40, and  
the wind strength is low

Then  
the fire danger is moderate

Rule Number 27

If the season is cool, and  
the 3pm humidity is less than 40, and  
the wind strength is moderate, and  
the degree of curing is 100

Then  
the fire danger is moderate

Rule Number 28

If the season is early storms, and  
the 3pm humidity is less than 40, and  
the wind strength is moderate, and  
the days since last rain is greater than 3

Then  
the fire danger is moderate

Rule Number 29

If the season is early storms, and  
the 3pm humidity is less than 40, and  
the wind strength is high, and  
the days since last rain is greater than 3

Then  
the fire danger is high

Rule Number 30

If the season is early storms, and  
the 3pm humidity is greater than or equal to 40, and  
the days since last rain is greater than 3

Then  
the fire danger is low

Rule Number 31

If the season is cool, and  
the 3pm humidity is less than 40, and  
the wind strength is less than moderate, and  
the degree of curing is 100

Then  
the fire danger is low

## Rule Number 32

If the season is cool, and  
the 3pm humidity is less than 40, and  
the wind strength is high, and  
the degree of curing is 100

Then  
the fire danger is high

## Rule Number 33

If the grass flame is none

Then  
the fire duration is 0 mins

## Rule Number 34

If the litter density is greater than 60

Then there is strong evidence that  
the fire duration is 1-2 mins

## Rule Number 35

If the litter density is less than 25

Then there is strong evidence that  
the fire duration is 0-30 secs

## Rule Number 36

If the litter density is greater than or equal to 25, and  
the litter density is less than or equal to 60

Then there is strong evidence that  
the fire duration is 30secs - 1min

## Rule Number 37

If the season is knock em down storms

Then  
the grass flame is none

## Rule Number 38

If the season is monsoon, and  
the years since fire is less than 1

Then  
the grass flame is none

## Rule Number 39

If the season is monsoon, and  
the years since fire is greater than or equal to 1, and  
the days since last rain is less than 3

Then  
the grass flame is none

Rule Number 40

If the season is early storms, and  
the days since last rain is less than 3

Then  
the grass flame is none

Rule Number 41

If the litter density is greater than 50

Then  
the grass flame is none

Rule Number 42

If the fire danger is negligible

Then  
the grass flame is none

Rule Number 43

If the available biomass is negligible

Then  
the grass flame is none

Rule Number 44

If the season is knock em down storms

Then  
the grass flame is none

Rule Number 45

If the degree of curing is less than or equal to 60

Then  
the grass flame is none

Rule Number 46

If the fire danger is high, and  
the grass type is annual, and  
the grass biomass is low  
Then there is strong evidence that  
the grass flame is 1500-2000 mm

use avail biomass  
for illasmi

#

Rule Number 47

If the fire danger is very high, and  
the grass type is annual, and  
the grass biomass is low  
Then there is strong evidence that  
the grass flame is 2000-2500 mm

Rule Number 48

If the fire danger is extreme, and  
the grass type is annual, and  
the grass biomass is low  
Then there is strong evidence that  
the grass flame is > 2500 mm

Rule Number 49

If the fire danger is moderate, and  
the grass type is annual, and  
the grass biomass is low  
Then there is strong evidence that  
the grass flame is 1200-1500 mm

Rule Number 50

If the fire danger is moderate, and  
the grass type is annual, and  
the grass biomass is high  
Then there is strong evidence that  
the grass flame is 2000-2500 mm

Rule Number 51

If the fire danger is low, and  
the grass type is annual  
Then there is strong evidence that  
the grass flame is < 1000 mm

Rule Number 52

If the fire danger is very high, and  
the grass type is annual, and  
the grass biomass is high  
Then there is strong evidence that  
the grass flame is 3000-3500 mm

Rule Number 53

If the fire danger is very high, and  
the grass type is annual, and  
the grass biomass is moderate  
Then there is strong evidence that



the grass flame is 2500-3000 mm

Rule Number 54

If the fire danger is high, and  
the grass type is annual, and  
the grass biomass is high  
Then there is strong evidence that  
the grass flame is 2500-3000 mm

Rule Number 55

If the fire danger is extreme, and  
the grass type is annual, and  
the grass biomass is high  
Then there is strong evidence that  
the grass flame is > 3500 mm

Rule Number 56

If the fire danger is extreme, and  
the grass type is annual, and  
the grass biomass is moderate  
Then there is strong evidence that  
the grass flame is > 3000 mm

Rule Number 57

If the fire danger is high, and  
the grass type is annual, and  
the grass biomass is moderate  
Then there is strong evidence that  
the grass flame is 2000-2500 mm

Rule Number 58

If the fire danger is moderate, and  
the grass type is annual, and  
the grass biomass is moderate  
Then there is strong evidence that  
the grass flame is 1500-2000 mm

Rule Number 59

If the years since fire is less than 1  
Then there is strong evidence that  
the litter density is 0

Rule Number 60

If the tree canopy cover is greater than or equal to 40, and  
the years since fire is 2

Then there is strong evidence that  
the litter density is 45

Litter Density

Rule Number 61

If the tree canopy cover is greater than or equal to 40, and  
the years since fire is greater than or equal to 3  
Then there is strong evidence that  
the litter density is 60

Rule Number 62

If the tree canopy cover is greater than or equal to 40, and  
the years since fire is 1  
Then there is strong evidence that  
the litter density is 25

Rule Number 63

If the tree canopy cover is less than 40  
Then there is strong evidence that  
the litter density is 0

Rule Number 64

If the litter density is less than or equal to 50  
Then the litter flame is none

Rule Number 65

If the season is monsoon, and  
the years since fire is less than 1  
Then the litter flame is none

Rule Number 66

If the season is monsoon, and  
the years since fire is greater than or equal to 1, and  
the days since last rain is less than 3  
Then the litter flame is none

Rule Number 67

If the fire danger is extreme, and  
the litter mass is high, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is > 12000 mm

Rule Number 68

If the fire danger is extreme, and  
the litter mass is moderate, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 6000-12000 mm

Rule Number 69

If the fire danger is extreme, and  
the litter mass is low, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 3000-6000 mm

Rule Number 70

If the fire danger is very high, and  
the litter mass is high, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 6000-12000 mm

Rule Number 71

If the fire danger is very high, and  
the litter mass is moderate, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 3000-6000 mm

Rule Number 72

If the fire danger is high, and  
the litter mass is moderate, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 1500-3000 mm

Rule Number 73

If the fire danger is high, and  
the litter mass is low, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 1000-1500 mm

Rule Number 74

If the fire danger is moderate, and  
the litter mass is high, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 1000-1500 mm

If the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 1500-3000 mm

Rule Number 75

If the fire danger is moderate, and  
the litter mass is moderate, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 1000-1500 mm

Rule Number 76

If the fire danger is moderate, and  
the litter mass is low, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 500-1000 mm

Rule Number 77

If the fire danger is low, and  
the litter mass is high, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is < 1500 mm

Rule Number 78

If the fire danger is low, and  
the litter mass is moderate, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is < 1000 mm

Rule Number 79

If the fire danger is low, and  
the litter mass is low, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is < 500 mm

Rule Number 80

If the fire danger is high, and  
the litter mass is high, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 3000-6000 mm

Rule Number 81

Scorch Height

If the fire danger is very high, and  
the litter mass is low, and  
the litter density is greater than 50  
Then there is strong evidence that  
the litter flame is 1500-3000 mm

Rule Number 82

If the grass flame is none, and  
the litter flame is none  
Then the scorch height is none

Rule Number 83

If the litter flame is > 12000 mm  
Then the scorch height is > 48 m

Rule Number 84

If the litter flame is 6000-12000 mm  
Then the scorch height is 24-48 m

Rule Number 85

If the litter flame is 3000-6000 mm  
Then the scorch height is 12-24 m

Rule Number 86

If the litter flame is 500-1000 mm  
Then the scorch height is 2-4 m

Rule Number 87

If the litter flame is < 500 mm  
Then the scorch height is < 2 m

Rule Number 88

If the litter flame is 1500-3000 mm  
Then the scorch height is 6-12 m

the available biomass is ^

Rule Number 89

If the litter flame is 1000-1500 mm  
Then the scorch height is 4-6 m

Rule Number 90

If the grass flame is < 1000 mm  
Then the scorch height is < 4 m

Rule Number 91

If the grass flame is 1200-1500 mm  
Then the scorch height is 4-6 m

Rule Number 92

If the grass flame is 1500-2000 mm  
Then the scorch height is 6-8 m

Rule Number 93

If the grass flame is 2000-2500 mm  
Then the scorch height is 8-10 m

Rule Number 94

If the grass flame is 2500-3000 mm  
Then the scorch height is 10-12 m

Rule Number 95

If the grass flame is 3000-3500 mm  
Then the scorch height is 12-14 m

Rule Number 96

If the grass flame is > 2500 mm  
Then the scorch height is > 10 m

Rule Number 97

If the grass flame is > 3000 mm  
Then the scorch height is > 12 m

Rule Number 98

If the grass flame is > 3500 mm  
Then the scorch height is > 14 m

no  
?-