EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES PROJECT DEVELOPMENT PHASE

SPRINT 1

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Project Name	Emerging Methods For Early Detection Of Forest Fires
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```
from sklearn import metrics
          from sklearn.metrics import classification report,confusion matrix
In [5]:
         import warnings
          warnings.filterwarnings(action="ignore")
          %matplotlib inline
          sns.set_style('darkgrid')
          pd.set option("display.max rows",1000)
          pd.set option("display.max columns",1000)
         fires = pd.read_csv(r"C:\Users\dhine\Downloads\forestfires.csv\forestfires.csv")
In [6]:
          #show the first 15 instance of dataset
          fires.head(15)
Out[6]:
              X Y month
                             day
                                  FFMC
                                          DMC
                                                  DC
                                                        ISI temp
                                                                   RH
                                                                        wind
                                                                              rain
                                                                                    area
             7 5
                                    86.2
                                          26.2
                       mar
                              fri
                                                 94.3
                                                        5.1
                                                               8.2
                                                                    51
                                                                          6.7
                                                                               0.0
                                                                                     0.0
           1 7 4
                                    90.6
                                          35.4
                                                669.1
                                                        6.7
                                                              18.0
                                                                    33
                                                                          0.9
                                                                               0.0
                                                                                     0.0
                              tue
                        oct
           2 7 4
                        oct
                              sat
                                    90.6
                                          43.7
                                                686.9
                                                        6.7
                                                              14.6
                                                                    33
                                                                          1.3
                                                                               0.0
                                                                                     0.0
                                    91.7
           3 8 6
                              fri
                                          33.3
                                                 77.5
                                                        9.0
                                                              8.3
                                                                    97
                                                                          4.0
                                                                               0.2
                                                                                     0.0
                       mar
                                          51.3 102.2
           4
              8 6
                       mar
                             sun
                                    89.3
                                                        9.6
                                                              11.4
                                                                    99
                                                                          1.8
                                                                               0.0
                                                                                     0.0
           5 8 6
                                    92.3
                                          85.3 488.0
                                                       14.7
                                                              22.2
                                                                    29
                                                                          5.4
                                                                               0.0
                                                                                     0.0
                       aug
                             sun
              8 6
                                    92.3
                                          88.9
                                                495.6
                                                                    27
                       aug
                             mon
                                                        8.5
                                                              24.1
                                                                          3.1
                                                                               0.0
                                                                                     0.0
           7
              8 6
                            mon
                                    91.5 145.4
                                                608.2
                                                       10.7
                                                              8.0
                                                                    86
                                                                          2.2
                                                                               0.0
                                                                                     0.0
                       aug
                                                692.6
                                                        7.0
           8
              8 6
                                    91.0 129.5
                                                              13.1
                                                                    63
                                                                          5.4
                                                                               0.0
                                                                                     0.0
                        sep
                              tue
           9
             7 5
                                    92.5
                                          88.0
                                                698.6
                                                        7.1
                                                              22.8
                                                                    40
                                                                          4.0
                                                                               0.0
                                                                                     0.0
                        sep
                              sat
                                                698.6
          10 7 5
                                    92.5
                                          0.88
                                                        7.1
                                                              17.8
                                                                    51
                                                                          7.2
                                                                               0.0
                                                                                     0.0
                        sep
                              sat
          11 7 5
                                    92.8
                                          73.2 713.0
                                                       22.6
                                                              19.3
                                                                    38
                                                                          4.0
                                                                               0.0
                                                                                     0.0
                        sep
                              sat
                                          70.8 665.3
                                                                               0.0
          12 6 5
                       aug
                              fri
                                    63.5
                                                        8.0
                                                              17.0
                                                                    72
                                                                          6.7
                                                                                     0.0
          13 6 5
                                    90.9 126.5 686.5
                                                        7.0
                                                              21.3
                                                                    42
                                                                          2.2
                                                                               0.0
                                                                                     0.0
                        sep
                             mon
          14 6 5
                                    92.9
                                         133.3 699.6
                                                        9.2
                                                                    21
                                                                          4.5
                                                                               0.0
                                                                                     0.0
                        sep
                             wed
                                                              26.4
In [7]:
          fires.shape
          (517, 13)
Out[7]:
```

import matplotlib.pyplot as plt

#show the last 10 instances of dataset

fires.tail(15)

In [8]:

import numpy as np
import pandas as pd
import seaborn as sns

In [4]:

		Х	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	area
	504	4	4	aug	tue	96.1	181.1	671.2	14.3	20.7	69	4.9	0.4	0.00
	503	2	4	aug	wed	94.5	139.4	689.1	20.0	29.2	30	4.9	0.0	1.95
		4	3	aug	wed	94.5	139.4	689.1	20.0	28.9	29	4.9	0.0	49.59
	505	1	2	aug	thu	91.0	163.2	744.4	10.1	26.7	35	1.8	0.0	5.80
	506	1	2	aug	fri	91.0	166.9	752.6	7.1	18.5	73	8.5	0.0	0.00
	507	2	4	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
	508	1	2	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
509	5	4	aug	fri	91.0	166.9	752.6	7.1	21.1	71	7.6	1.4	2.17	
	510	6	5	aug	fri	91.0	166.9	752.6	7.1	18.2	62	5.4	0.0	0.43
	511	8	6	aug	sun	81.6	56.7	665.6	1.9	27.8	35	2.7	0.0	0.00
	512	4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	6.44
	513	2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	54.29
	514	7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	11.16
	515	1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.00
	516	6	3	nov	tue	79.5	3.0	106.7	1.1	11.8	31	4.5	0.0	0.00

In [9]: fires.info()

Out[8]:

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 517 entries, 0 to 516
Data columns (total 13 columns):
Column Non-Null Count Dtype

#	Column	Non-Null Count	Dtype
0	Χ	517 non-null	int64
1	Υ	517 non-null	int64
2	month	517 non-null	object
3	day	517 non-null	object
4	FFMC	517 non-null	float64
5	DMC	517 non-null	float64
6	DC	517 non-null	float64
7	ISI	517 non-null	float64
8	temp	517 non-null	float64
9	RH	517 non-null	int64
10	wind	517 non-null	float64
11	rain	517 non-null	float64
12	area	517 non-null	float64

dtypes: float64(8), int64(3), object(2)

memory usage: 52.6+ KB

In [10]: #generate descriptive statistics of each attribute
 fires.describe().T

	count	mean	std	mın	25%	50%	75%	max
Х	517.0	4.669246	2.313778	1.0	3.0	4.00	7.00	9.00
Y	517.0	4.299807	1.229900	2.0	4.0	4.00	5.00	9.00
FFMC	517.0	90.644681	5.520111	18.7	90.2	91.60	92.90	96.20
DMC	517.0	110.872340	64.046482	1.1	68.6	108.30	142.40	291.30
DC	517.0	547.940039	248.066192	7.9	437.7	664.20	713.90	860.60
ISI	517.0	9.021663	4.559477	0.0	6.5	8.40	10.80	56.10
temp	517.0	18.889168	5.806625	2.2	15.5	19.30	22.80	33.30
RH	517.0	44.288201	16.317469	15.0	33.0	42.00	53.00	100.00
wind	517.0	4.017602	1.791653	0.4	2.7	4.00	4.90	9.40
rain	517.0	0.021663	0.295959	0.0	0.0	0.00	0.00	6.40
area	517.0	12.847292	63.655818	0.0	0.0	0.52	6.57	1090.84

In [11]: fires['area'].values[fires['area'].values >0] = 1
#renaming the area attribute to output for clear understanding
fires = fires.rename(columns={'area': 'output'})
fires.head(10)

Out[11]:		X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
	0	7	5	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
	1	7	4	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
	2	7	4	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
	3	8	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
	4	8	6	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0
	5	8	6	aug	sun	92.3	85.3	488.0	14.7	22.2	29	5.4	0.0	0.0
	6	8	6	aug	mon	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
	7	8	6	aug	mon	91.5	145.4	608.2	10.7	8.0	86	2.2	0.0	0.0
	8	8	6	sep	tue	91.0	129.5	692.6	7.0	13.1	63	5.4	0.0	0.0
	9	7	5	sep	sat	92.5	88.0	698.6	7.1	22.8	40	4.0	0.0	0.0

In [12]: fires.corr()

Out[10]:

```
X
                                           FFMC
                                                      DMC
                                                                  DC
                                                                            ISI
                                                                                    temp
                                                                                                 RH
                                                                                                         wind
Out[12]:
                    1.000000
                Х
                              0.539548
                                       -0.021039 -0.048384
                                                            -0.085916
                                                                       0.006210
                                                                                -0.051258
                                                                                           0.085223
                                                                                                      0.018798 0.065
                    0.539548
                                                            -0.101178
                                                                      -0.024488
                                                                                                               0.033
                              1.000000
                                       -0.046308
                                                  0.007782
                                                                                 -0.024103
                                                                                           0.062221
                                                                                                     -0.020341
                                                                       0.531805
            FFMC -0.021039
                                        1.000000
                                                  0.382619
                                                             0.330512
                                                                                                     -0.028485 0.056
                             -0.046308
                                                                                 0.431532
                                                                                          -0.300995
             DMC -0.048384
                              0.007782
                                        0.382619
                                                  1.000000
                                                             0.682192
                                                                       0.305128
                                                                                 0.469594
                                                                                           0.073795
                                                                                                    -0.105342 0.074
               DC -0.085916
                             -0.101178
                                        0.330512
                                                  0.682192
                                                             1.000000
                                                                       0.229154
                                                                                 0.496208 -0.039192 -0.203466 0.035
                    0.006210
                             -0.024488
                                        0.531805
                                                  0.305128
                                                             0.229154
                                                                       1.000000
                                                                                 0.394287
                                                                                           -0.132517
                                                                                                      0.106826 0.067
             temp -0.051258
                             -0.024103 0.431532
                                                  0.469594
                                                             0.496208
                                                                       0.394287
                                                                                 1.000000
                                                                                          -0.527390 -0.227116 0.069
              RH
                    0.085223
                              0.062221 -0.300995
                                                  0.073795
                                                            -0.039192
                                                                      -0.132517
                                                                                -0.527390
                                                                                           1.000000
                                                                                                      0.069410 0.099
                    0.018798
                             -0.020341
                                       -0.028485 -0.105342 -0.203466
                                                                       0.106826
                                                                                -0.227116
                                                                                           0.069410
                                                                                                      1.000000 0.061
            wind
              rain
                    0.065387
                              0.033234
                                        0.056702
                                                  0.074790
                                                             0.035861
                                                                       0.067668
                                                                                 0.069491
                                                                                           0.099751
                                                                                                      0.061119
                                                                                                              1.000
                    0.062491
                              0.056892
                                        0.073823
                                                  0.062672
                                                             0.096724
                                                                       0.035663
                                                                                 0.076047 -0.035587
                                                                                                      0.055702 0.025
           output
           numerical feature = fires.describe(include=["int", "float"]).columns
In [15]:
           # Print it in list type ...
           print(list(numerical_feature))
           ['X', 'Y', 'FFMC', 'DMC', 'DC', 'ISI', 'temp', 'RH', 'wind', 'rain', 'output']
In [16]:
           sns.set_style('darkgrid')
           # Find the relation
           # plt.subplot(fires)
           sns.pairplot(fires[["temp", "wind", "rain", "DC"]])
```

plt.show()

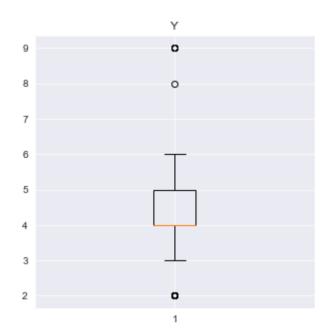


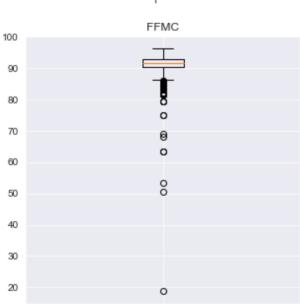
```
In [17]: for idx, col in enumerate(numerical_feature, 1):
    plt.figure(figsize=(5,5))

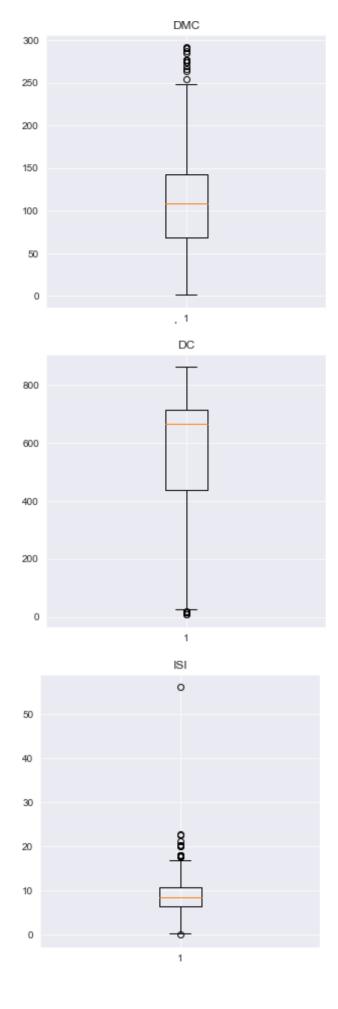
#    plt.subplot(len(numerical_feature) // 2, 3, idx)
    plt.boxplot(fires[col])

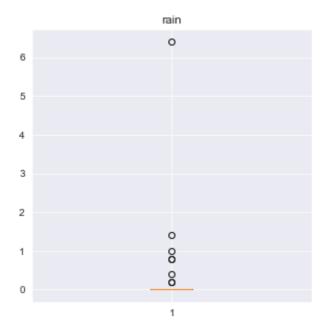
    plt.title(col)
    #    plt.hist(fires[col])

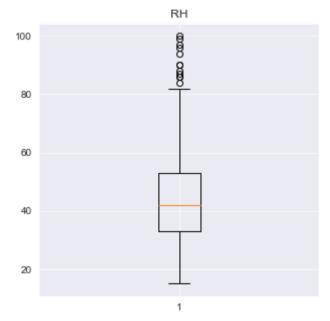
plt.tight_layout()
    plt.show(plt)
```

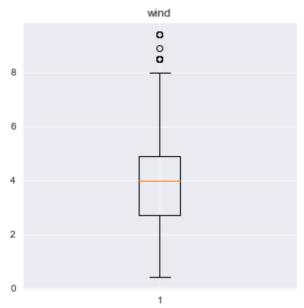


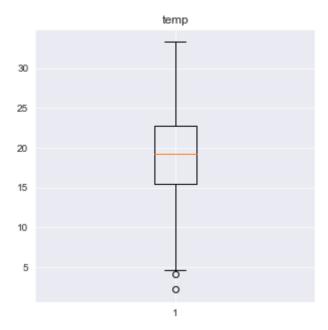


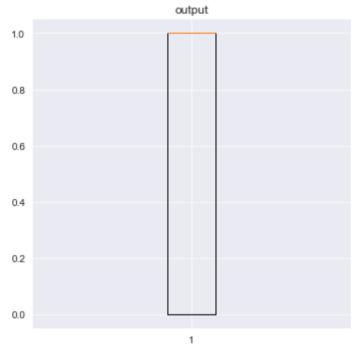




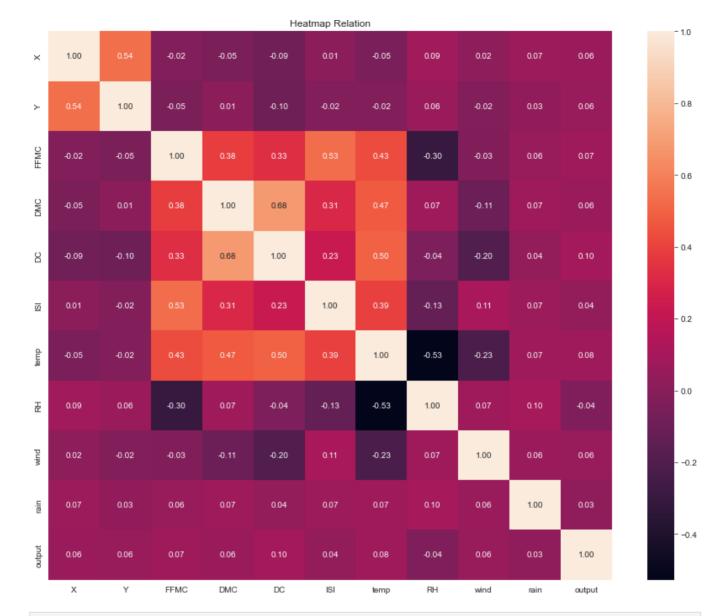








```
In [18]: plt.figure(figsize=(15, 12))
    plt.title("Heatmap Relation")
    sns.heatmap(fires[numerical_feature].corr(), annot=True, fmt='.2f');
```



In [19]: highest_rain = fires.sort_values(by='rain', ascending=False)[['month', 'day', 'rain']].head()
highest_rain

```
Out[19]:
                 month day
                               rain
           499
                    aug
                          tue
                                6.4
           509
                           fri
                                1.4
                    aug
           243
                                1.0
                    aug
                          sun
           500
                                8.0
                    aug
                          tue
           501
                          tue
                                8.0
                    aug
```

```
In [20]: highest_temp = fires.sort_values(by='temp', ascending=False)[['month', 'day', 'temp']].head()
    plt.figure(figsize=(9, 6))

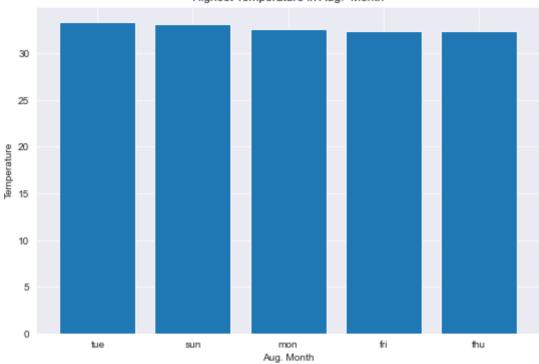
plt.title("Highest Temperature in Aug. Month")

plt.bar(highest_temp['day'], highest_temp['temp'])

plt.xlabel("Day")
    plt.xlabel("Aug. Month")

plt.ylabel("Temperature")
    plt.show()
```





```
In [21]: lowest_temp = fires.sort_values(by='temp', ascending=True)[['month', 'day', 'temp']].head()
    plt.figure(figsize=(9, 6))

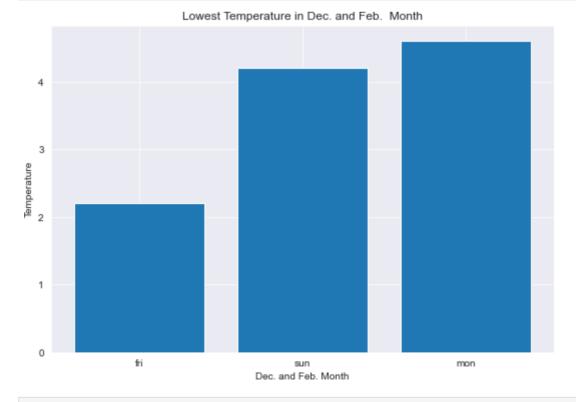
plt.title("Lowest Temperature in Dec. and Feb. Month")

plt.bar(lowest_temp['day'], lowest_temp['temp'])

plt.xlabel("Day")
    plt.xlabel("Dec. and Feb. Month")

plt.ylabel("Temperature")

plt.show()
```



In [22]: fires

Out[22]:		X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
	0	7	5	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
	1	7	4	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
	2	7	4	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
	3	8	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
	4	8	6	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0
	5	8	6	aug	sun	92.3	85.3	488.0	14.7	22.2	29	5.4	0.0	0.0
	6	8	6	aug	mon	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
	7	8	6	aug	mon	91.5	145.4	608.2	10.7	8.0	86	2.2	0.0	0.0
	8	8	6	sep	tue	91.0	129.5	692.6	7.0	13.1	63	5.4	0.0	0.0
	9	7	5	sep	sat	92.5	88.0	698.6	7.1	22.8	40	4.0	0.0	0.0
	10	7	5	sep	sat	92.5	88.0	698.6	7.1	17.8	51	7.2	0.0	0.0
	11	7	5	sep	sat	92.8	73.2	713.0	22.6	19.3	38	4.0	0.0	0.0
	12	6	5	aug	fri	63.5	70.8	665.3	8.0	17.0	72	6.7	0.0	0.0
	13	6	5	sep	mon	90.9	126.5	686.5	7.0	21.3	42	2.2	0.0	0.0
	14	6	5	sep	wed	92.9	133.3	699.6	9.2	26.4	21	4.5	0.0	0.0
	15	6	5	sep	fri	93.3	141.2	713.9	13.9	22.9	44	5.4	0.0	0.0
	16	5	5	mar	sat	91.7	35.8	8.08	7.8	15.1	27	5.4	0.0	0.0
	17	8	5	oct	mon	84.9	32.8	664.2	3.0	16.7	47	4.9	0.0	0.0
	18	6	4	mar	wed	89.2	27.9	70.8	6.3	15.9	35	4.0	0.0	0.0
	19	6	4	apr	sat	86.3	27.4	97.1	5.1	9.3	44	4.5	0.0	0.0
	20	6	4	sep	tue	91.0	129.5	692.6	7.0	18.3	40	2.7	0.0	0.0
	21	5	4	sep	mon	91.8	78.5	724.3	9.2	19.1	38	2.7	0.0	0.0
	22	7	4	jun	sun	94.3	96.3	200.0	56.1	21.0	44	4.5	0.0	0.0
	23	7	4	aug	sat	90.2	110.9	537.4	6.2	19.5	43	5.8	0.0	0.0
	24	7	4	aug	sat	93.5	139.4	594.2	20.3	23.7	32	5.8	0.0	0.0
	25	7	4	aug	sun	91.4	142.4	601.4	10.6	16.3	60	5.4	0.0	0.0
	26	7	4	sep	fri	92.4	117.9	668.0	12.2	19.0	34	5.8	0.0	0.0
	27	7	4	sep	mon	90.9	126.5	686.5	7.0	19.4	48	1.3	0.0	0.0
	28	6	3	sep	sat	93.4	145.4	721.4	8.1	30.2	24	2.7	0.0	0.0
	29	6	3	sep	sun	93.5	149.3	728.6	8.1	22.8	39	3.6	0.0	0.0
	30	6	3	sep	fri	94.3	85.1	692.3	15.9	25.4	24	3.6	0.0	0.0
	31		3	sep	mon	88.6	91.8	709.9	7.1	11.2	78	7.6	0.0	0.0
	32	6	3	sep	fri	88.6	69.7	706.8	5.8	20.6	37	1.8	0.0	0.0
	33	6	3	sep	sun	91.7	75.6	718.3	7.8	17.7	39	3.6	0.0	0.0
	34	6	3	sep	mon	91.8	78.5	724.3	9.2	21.2	32	2.7	0.0	0.0
	35	6	3	sep	tue	90.3	80.7	730.2	6.3	18.2	62	4.5	0.0	0.0
	36	6	3	oct	tue	90.6	35.4	669.1	6.7	21.7	24	4.5	0.0	0.0

37 7 4 oct fri 90.0 41.5 682.6 8.7 11.3 60 5.4 0.0 0.0 38 7 3 oct sat 90.6 43.7 686.9 6.7 17.8 27 4.0 0.0 0.0 39 4 4 mar tue 88.1 25.7 67.6 3.8 14.1 43 2.7 0.0 0.0 40 4 4 jul tue 79.5 60.6 366.7 1.5 23.3 37 3.1 0.0 0.0 41 4 4 aug sat 90.2 96.9 624.2 8.9 18.4 42 6.7 0.0 0.0 43 4 sep sat 92.5 88.0 698.6 7.1 19.6 48 2.7 0.0 0.0 44 5 sep wed 91.3 85.1 69.2 15.9 24 4.0 0.0 0.0 45 5 <		X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
39 4 4 mar tue 88.1 25.7 67.6 3.8 14.1 43 2.7 0.0 0.0 40 4 4 jul tue 79.5 60.6 366.7 1.5 23.3 37 3.1 0.0 0.0 41 4 4 aug sat 90.2 96.9 624.2 8.9 18.4 42 6.7 0.0 0.0 43 4 4 sep sat 92.5 88.0 698.6 7.1 19.6 48 2.7 0.0 0.0 44 4 4 sep wed 90.1 82.9 735.7 6.2 12.9 74 4.9 0.0 0.0 45 5 6 sep wed 94.3 85.1 692.3 15.9 25.9 24 4.0 0.0 0.0 46 5 6 jul mon 94.2 62.3 44.9 11.0 26.5 18.1 18.0 19.0	37	7	4	oct	fri	90.0	41.5	682.6	8.7	11.3	60	5.4	0.0	0.0
40 4 4	38	7	3	oct	sat	90.6	43.7	686.9	6.7	17.8	27	4.0	0.0	0.0
41 4 4 aug sat 90.2 96.9 624.2 8.9 18.4 42 6.7 0.0 0.0 42 4 4 aug tue 94.8 108.3 647.1 17.0 16.6 54 5.4 0.0 0.0 43 4 4 sep sat 92.5 88.0 698.6 7.1 19.6 48 2.7 0.0 0.0 44 4 4 sep wed 90.1 82.9 735.7 6.2 12.9 74 4.9 0.0 0.0 45 5 6 sep wed 94.3 85.1 692.3 15.9 25.9 24 4.0 0.0 0.0 46 5 6 sep mon 87.2 23.9 64.7 4.1 11.8 35 18 0.0 0.0 48 4 4 mar mon 87.2 23.9 64.7 4.1 11.8 35 18 0.0 <th< td=""><th>39</th><td>4</td><td>4</td><td>mar</td><td>tue</td><td>88.1</td><td>25.7</td><td>67.6</td><td>3.8</td><td>14.1</td><td>43</td><td>2.7</td><td>0.0</td><td>0.0</td></th<>	39	4	4	mar	tue	88.1	25.7	67.6	3.8	14.1	43	2.7	0.0	0.0
42 4 4 aug tue 94.8 108.3 647.1 17.0 16.6 54 5.4 0.0 0.0 43 4 4 sep sat 92.5 88.0 698.6 7.1 19.6 48 2.7 0.0 0.0 44 4 4 sep wed 90.1 82.9 735.7 6.2 12.9 74 4.9 0.0 0.0 45 5 6 sep wed 94.3 85.1 692.3 15.9 25.9 24 4.0 0.0 0.0 46 5 6 sep mon 90.2 262.3 442.9 11.0 23.0 36 3.1 0.0 0.0 48 4 4 mar mon 87.2 23.9 64.7 4.1 11.8 35 1.8 0.0 0.0 50 4 4 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug wed 92.1 </td <th>40</th> <td>4</td> <td>4</td> <td>jul</td> <td>tue</td> <td>79.5</td> <td>60.6</td> <td>366.7</td> <td>1.5</td> <td>23.3</td> <td>37</td> <td>3.1</td> <td>0.0</td> <td>0.0</td>	40	4	4	jul	tue	79.5	60.6	366.7	1.5	23.3	37	3.1	0.0	0.0
43 4 4 sep sat 92.5 88.0 698.6 7.1 19.6 48 2.7 0.0 0.0 44 4 4 4 sep wed 90.1 82.9 735.7 6.2 12.9 74 4.9 0.0 0.0 45 5 6 sep wed 94.3 85.1 692.3 15.9 25.9 24 4.0 0.0 0.0 46 5 6 sep mon 90.9 126.5 686.5 7.0 14.7 70 3.6 0.0 0.0 47 6 6 jul mon 94.2 62.3 442.9 11.0 23.0 36 3.1 0.0 0.0 48 4 4 mar mon 87.2 23.9 64.7 4.1 11.8 35 1.8 0.0 0.0 49 4 4 mar mon 87.6 52.2 103.8 5.0 11.0 46 5.8 0.0 0.0 50 4 4 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 6.3 21.5 34 2.2 0.0 0.0 52 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 53 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 56 4 3 sep thu 93.0 80.7 730.2 6.3 17.8 63 4.9 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb mon 84.0 9.3 34.0 2.1 13.9 40 5.4 0.0 0.0 59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 10.2 9.6 11.5 39 5.8 0.0 0.0 61 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 62 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug thu 91.7 114.3 661.3 6.3 18.6 44 4.5 0.0 0.0 64 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 66 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 6.3 0.0 0.0 68 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 6.3 0.0 0.0 69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0 71 4 5 sep fri 94.3 85.1 692.3 15.9 17.7 37 3.6 0.0 0.0	41	4	4	aug	sat	90.2	96.9	624.2	8.9	18.4	42	6.7	0.0	0.0
44 4 4 sep wed 90.1 82.9 735.7 6.2 12.9 74 4.9 0.0 0.0 45 5 6 sep wed 94.3 85.1 692.3 15.9 25.9 24 4.0 0.0 0.0 46 5 6 sep mon 90.9 126.5 686.5 7.0 14.7 70 3.6 0.0 0.0 48 4 4 mar mon 87.2 23.9 64.7 4.1 11.8 35 1.8 0.0 0.0 50 4 5 8 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 63.2 21.5 34 2.2 0.0 0.0 53 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 53 4 3 aug thu 91.7<	42	4	4	aug	tue	94.8	108.3	647.1	17.0	16.6	54	5.4	0.0	0.0
45 5 6 sep wed 94.3 85.1 692.3 15.9 25.9 24 4.0 0.0 0.0 46 5 6 sep mon 90.9 126.5 686.5 7.0 14.7 70 3.6 0.0 0.0 47 6 jul mon 94.2 62.3 442.9 11.0 23.0 36 3.1 0.0 0.0 48 4 mar mon 87.6 52.2 103.8 5.0 11.0 46 5.8 0.0 0.0 50 4 4 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 63.2 15.5 34 2.2 0.0 0.0 52 4 3 aug bull 92.1 111.2 654.1 9.6	43	4	4	sep	sat	92.5	88.0	698.6	7.1	19.6	48	2.7	0.0	0.0
46 5 6 sep mon 90.9 126.5 686.5 7.0 14.7 70 3.6 0.0 0.0 47 6 6 jul mon 94.2 62.3 442.9 11.0 23.0 36 3.1 0.0 0.0 48 4 4 mar mon 87.6 52.2 103.8 5.0 11.0 46 5.8 0.0 0.0 50 4 5 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 6.3 21.5 34 2.2 0.0 0.0 52 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 53 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 54 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2	44	4	4	sep	wed	90.1	82.9	735.7	6.2	12.9	74	4.9	0.0	0.0
47 6 6 jul mon 94.2 62.3 442.9 11.0 23.0 36 3.1 0.0 0.0 48 4 4 mar mon 87.2 23.9 64.7 4.1 11.8 35 1.8 0.0 0.0 49 4 4 mar mon 87.6 52.2 103.8 5.0 11.0 46 5.8 0.0 0.0 50 4 4 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 6.3 21.5 34 2.2 0.0 0.0 53 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 53 4 3 sep tue 90.3 80.7 730.2 6.3 17.6 45 3.6 0.0 0.0 55 4 3 oct	45	5	6	sep	wed	94.3	85.1	692.3	15.9	25.9	24	4.0	0.0	0.0
48 4 4 mar mon 87.2 23.9 64.7 4.1 11.8 35 1.8 0.0 0.0 49 4 4 mar mon 87.6 52.2 103.8 5.0 11.0 46 5.8 0.0 0.0 50 4 4 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 6.3 21.5 34 2.2 0.0 0.0 52 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 53 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 55 4 3 sep tue 90.3 80.7 730.2 6.3 17.8 63 4.9 0.0 0.0 55 4 3 sep tue 90.3 80.7 730.2 6.3 17.8 63 4.9 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb mon 84.0 9.3 34.0 2.1 13.9 40 5.4 0.0 0.0 59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 102.2 9.6 11.5 39 5.8 0.0 0.0 61 2 2 mar sun 89.3 51.3 102.2 9.6 11.5 39 5.8 0.0 0.0 62 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug sun 90.2 99.6 631.2 6.3 20.8 33 2.7 0.0 0.0 64 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 sep fri 92.4 117.9 668.0 12.2 23.0 37 4.5 0.0 0.0 66 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 68 2 5 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0	46	5	6	sep	mon	90.9	126.5	686.5	7.0	14.7	70	3.6	0.0	0.0
49 4 4 mar mon 87.6 52.2 103.8 5.0 11.0 46 5.8 0.0 0.0 50 4 4 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 6.3 21.5 34 2.2 0.0 0.0 53 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 54 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 56 4 3 sep twe 90.3 80.7 730.2 6.3 17.8 63 4.9 0.0	47	6	6	jul	mon	94.2	62.3	442.9	11.0	23.0	36	3.1	0.0	0.0
50 4 4 sep thu 92.9 137.0 706.4 9.2 20.8 17 1.3 0.0 0.0 51 4 3 aug sun 90.2 99.6 631.2 6.3 21.5 34 2.2 0.0 0.0 52 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 54 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 56 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb fri 86.6 </th <th>48</th> <th>4</th> <th>4</th> <th>mar</th> <th>mon</th> <th>87.2</th> <th>23.9</th> <th>64.7</th> <th>4.1</th> <th>11.8</th> <th>35</th> <th>1.8</th> <th>0.0</th> <th>0.0</th>	48	4	4	mar	mon	87.2	23.9	64.7	4.1	11.8	35	1.8	0.0	0.0
51 4 3 aug sun 90.2 99.6 631.2 6.3 21.5 34 2.2 0.0 0.0 52 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 53 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 54 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 56 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 59 2 2 feb fri 86.6 <th>49</th> <td>4</td> <td>4</td> <td>mar</td> <td>mon</td> <td>87.6</td> <td>52.2</td> <td>103.8</td> <td>5.0</td> <td>11.0</td> <td>46</td> <td>5.8</td> <td>0.0</td> <td>0.0</td>	49	4	4	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	0.0
52 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 53 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 54 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 56 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 <th>50</th> <td>4</td> <td>4</td> <td>sep</td> <td>thu</td> <td>92.9</td> <td>137.0</td> <td>706.4</td> <td>9.2</td> <td>20.8</td> <td>17</td> <td>1.3</td> <td>0.0</td> <td>0.0</td>	50	4	4	sep	thu	92.9	137.0	706.4	9.2	20.8	17	1.3	0.0	0.0
53 4 3 aug wed 92.1 111.2 654.1 9.6 20.4 42 4.9 0.0 0.0 54 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 56 4 3 sep tue 90.3 80.7 730.2 6.3 17.8 63 4.9 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0	51	4	3	aug	sun	90.2	99.6	631.2	6.3	21.5	34	2.2	0.0	0.0
54 4 3 aug thu 91.7 114.3 661.3 6.3 17.6 45 3.6 0.0 0.0 55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 56 4 3 sep tue 90.3 80.7 730.2 6.3 17.8 63 4.9 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 102.2 9.6 5.5 59 6.3 0.0 <th< td=""><th>52</th><td>4</td><td>3</td><td>aug</td><td>wed</td><td>92.1</td><td>111.2</td><td>654.1</td><td>9.6</td><td>20.4</td><td>42</td><td>4.9</td><td>0.0</td><td>0.0</td></th<>	52	4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
55 4 3 sep thu 92.9 137.0 706.4 9.2 27.7 24 2.2 0.0 0.0 56 4 3 sep tue 90.3 80.7 730.2 6.3 17.8 63 4.9 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb mon 84.0 9.3 34.0 2.1 13.9 40 5.4 0.0 0.0 59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 102.2 9.6 5.5 59 6.3 0.0 0.0 61 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0	53	4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
56 4 3 sep tue 90.3 80.7 730.2 6.3 17.8 63 4.9 0.0 0.0 57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb mon 84.0 9.3 34.0 2.1 13.9 40 5.4 0.0 0.0 69 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 102.2 9.6 11.5 39 5.8 0.0 0.0 61 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug thu 91.7 114.3 661.2 6.3 </td <th>54</th> <td>4</td> <td>3</td> <td>aug</td> <td>thu</td> <td>91.7</td> <td>114.3</td> <td>661.3</td> <td>6.3</td> <td>17.6</td> <td>45</td> <td>3.6</td> <td>0.0</td> <td>0.0</td>	54	4	3	aug	thu	91.7	114.3	661.3	6.3	17.6	45	3.6	0.0	0.0
57 4 3 oct sun 92.6 46.5 691.8 8.8 13.8 50 2.7 0.0 0.0 58 2 2 feb mon 84.0 9.3 34.0 2.1 13.9 40 5.4 0.0 0.0 59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 102.2 9.6 11.5 39 5.8 0.0 0.0 61 2 2 mar sun 89.3 51.3 102.2 9.6 5.5 59 6.3 0.0 0.0 62 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0	55	4	3	sep	thu	92.9	137.0	706.4	9.2	27.7	24	2.2	0.0	0.0
58 2 feb mon 84.0 9.3 34.0 2.1 13.9 40 5.4 0.0 0.0 59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 102.2 9.6 11.5 39 5.8 0.0 0.0 61 2 2 mar sun 89.3 51.3 102.2 9.6 5.5 59 6.3 0.0 0.0 62 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug sun 90.2 99.6 631.2 6.3 20.8 33 2.7 0.0 0.0 64 2 2 aug thu 91.7 114.3 661.3 6.3 <th>56</th> <td>4</td> <td>3</td> <td>sep</td> <td>tue</td> <td>90.3</td> <td>80.7</td> <td>730.2</td> <td>6.3</td> <td>17.8</td> <td>63</td> <td>4.9</td> <td>0.0</td> <td>0.0</td>	56	4	3	sep	tue	90.3	80.7	730.2	6.3	17.8	63	4.9	0.0	0.0
59 2 2 feb fri 86.6 13.2 43.0 5.3 12.3 51 0.9 0.0 0.0 60 2 2 mar sun 89.3 51.3 102.2 9.6 11.5 39 5.8 0.0 0.0 61 2 2 mar sun 89.3 51.3 102.2 9.6 5.5 59 6.3 0.0 0.0 62 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug sun 90.2 99.6 631.2 6.3 20.8 33 2.7 0.0 0.0 64 2 2 aug thu 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 sep fri 92.4 117.9 668.0 12.	57	4	3	oct	sun	92.6	46.5	691.8	8.8	13.8	50	2.7	0.0	0.0
60 2 2 mar sun 89.3 51.3 102.2 9.6 11.5 39 5.8 0.0 0.0 61 2 2 mar sun 89.3 51.3 102.2 9.6 5.5 59 6.3 0.0 0.0 62 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug sun 90.2 99.6 631.2 6.3 20.8 33 2.7 0.0 0.0 64 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 aug thu 91.7 114.3 661.3 6.3 18.6 44 4.5 0.0 0.0 67 2 sep fri 92.4 117.9 668.0 1	58	2	2	feb	mon	84.0	9.3	34.0	2.1	13.9	40	5.4	0.0	0.0
61 2 2 mar sun 89.3 51.3 102.2 9.6 5.5 59 6.3 0.0 0.0 62 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug sun 90.2 99.6 631.2 6.3 20.8 33 2.7 0.0 0.0 64 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 aug thu 91.7 114.3 661.3 6.3 18.6 44 4.5 0.0 0.0 66 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 68 2 2 sep fri 91.7 33.3 77.5	59	2	2	feb	fri	86.6	13.2	43.0	5.3	12.3	51	0.9	0.0	0.0
62 2 2 aug thu 93.0 75.3 466.6 7.7 18.8 35 4.9 0.0 0.0 63 2 2 aug sun 90.2 99.6 631.2 6.3 20.8 33 2.7 0.0 0.0 64 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 aug thu 91.7 114.3 661.3 6.3 18.6 44 4.5 0.0 0.0 66 2 2 sep fri 92.4 117.9 668.0 12.2 23.0 37 4.5 0.0 0.0 67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 69 4 5 mar fri 91.7 33.3 7	60	2	2	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	0.0
63 2 2 aug sun 90.2 99.6 631.2 6.3 20.8 33 2.7 0.0 0.0 64 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 aug thu 91.7 114.3 661.3 6.3 18.6 44 4.5 0.0 0.0 66 2 2 sep fri 92.4 117.9 668.0 12.2 23.0 37 4.5 0.0 0.0 67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 68 2 2 sep fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97	61	2	2	mar	sun	89.3	51.3	102.2	9.6	5.5	59	6.3	0.0	0.0
64 2 2 aug mon 91.1 103.2 638.8 5.8 23.1 31 3.1 0.0 0.0 65 2 2 aug thu 91.7 114.3 661.3 6.3 18.6 44 4.5 0.0 0.0 66 2 2 sep fri 92.4 117.9 668.0 12.2 23.0 37 4.5 0.0 0.0 67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 68 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0	62	2	2	aug	thu	93.0	75.3	466.6	7.7	18.8	35	4.9	0.0	0.0
65 2 2 aug thu 91.7 114.3 661.3 6.3 18.6 44 4.5 0.0 0.0 66 2 2 sep fri 92.4 117.9 668.0 12.2 23.0 37 4.5 0.0 0.0 67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 68 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0 71 4 5 sep fri 94.3 85.1 6	63	2	2	aug	sun	90.2	99.6	631.2	6.3	20.8	33	2.7	0.0	0.0
66 2 2 sep fri 92.4 117.9 668.0 12.2 23.0 37 4.5 0.0 0.0 67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 68 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 6.3 0.0 0.0 69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0 71 4 5 sep fri 94.3 85.1 692.3 15.9 17.7 37 3.6 0.0 0.0 72 5 4 mar fri 91.7 33.3 77.5 9.0 15.6 25 6.3 0.0 0.0	64	2	2	aug	mon	91.1	103.2	638.8	5.8	23.1	31	3.1	0.0	0.0
67 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 5.4 0.0 0.0 68 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 6.3 0.0 0.0 69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0 71 4 5 sep fri 94.3 85.1 692.3 15.9 17.7 37 3.6 0.0 0.0 72 5 4 mar fri 91.7 33.3 77.5 9.0 15.6 25 6.3 0.0 0.0	65	2	2	aug	thu	91.7	114.3	661.3	6.3	18.6	44	4.5	0.0	0.0
68 2 2 sep fri 92.4 117.9 668.0 12.2 19.6 33 6.3 0.0 0.0 69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0 71 4 5 sep fri 94.3 85.1 692.3 15.9 17.7 37 3.6 0.0 0.0 72 5 4 mar fri 91.7 33.3 77.5 9.0 15.6 25 6.3 0.0 0.0	66	2	2	sep	fri	92.4	117.9	668.0	12.2	23.0	37	4.5	0.0	0.0
69 4 5 mar fri 91.7 33.3 77.5 9.0 17.2 26 4.5 0.0 0.0 70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0 71 4 5 sep fri 94.3 85.1 692.3 15.9 17.7 37 3.6 0.0 0.0 72 5 4 mar fri 91.7 33.3 77.5 9.0 15.6 25 6.3 0.0 0.0	67	2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	5.4	0.0	0.0
70 4 5 mar fri 91.2 48.3 97.8 12.5 15.8 27 7.6 0.0 0.0 71 4 5 sep fri 94.3 85.1 692.3 15.9 17.7 37 3.6 0.0 0.0 72 5 4 mar fri 91.7 33.3 77.5 9.0 15.6 25 6.3 0.0 0.0	68	2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	6.3	0.0	0.0
71 4 5 sep fri 94.3 85.1 692.3 15.9 17.7 37 3.6 0.0 0.0 72 5 4 mar fri 91.7 33.3 77.5 9.0 15.6 25 6.3 0.0 0.0	69	4	5	mar	fri	91.7	33.3	77.5	9.0	17.2	26	4.5	0.0	0.0
72 5 4 mar fri 91.7 33.3 77.5 9.0 15.6 25 6.3 0.0 0.0	70	4	5	mar	fri	91.2	48.3	97.8	12.5	15.8	27	7.6	0.0	0.0
	71	4	5	sep	fri	94.3	85.1	692.3	15.9	17.7	37	3.6	0.0	0.0
73 5 4 aug tue 88.8 147.3 614.5 9.0 17.3 43 4.5 0.0 0.0	72	5	4	mar	fri	91.7	33.3	77.5	9.0	15.6	25	6.3	0.0	0.0
	73	5	4	aug	tue	88.8	147.3	614.5	9.0	17.3	43	4.5	0.0	0.0

74	5	4	sep	fri	93.3	141.2	713.9	13.9	27.6	30	1.3	0.0	0.0
75	9	9	feb	thu	84.2	6.8	26.6	7.7	6.7	79	3.1	0.0	0.0
76	9	9	feb	fri	86.6	13.2	43.0	5.3	15.7	43	3.1	0.0	0.0
77	1	3	mar	mon	87.6	52.2	103.8	5.0	8.3	72	3.1	0.0	0.0
78	1	2	aug	fri	90.1	108.0	529.8	12.5	14.7	66	2.7	0.0	0.0
79	1	2	aug	tue	91.0	121.2	561.6	7.0	21.6	19	6.7	0.0	0.0
80	1	2	aug	sun	91.4	142.4	601.4	10.6	19.5	39	6.3	0.0	0.0
81	1	2	aug	sun	90.2	99.6	631.2	6.3	17.9	44	2.2	0.0	0.0
82	1	2	aug	tue	94.8	108.3	647.1	17.0	18.6	51	4.5	0.0	0.0
83	1	2	aug	wed	92.1	111.2	654.1	9.6	16.6	47	0.9	0.0	0.0
84	1	2	aug	thu	91.7	114.3	661.3	6.3	20.2	45	3.6	0.0	0.0
85	1	2	sep	thu	92.9	137.0	706.4	9.2	21.5	15	0.9	0.0	0.0
86	1	2	sep	thu	92.9	137.0	706.4	9.2	25.4	27	2.2	0.0	0.0
87	1	2	sep	thu	92.9	137.0	706.4	9.2	22.4	34	2.2	0.0	0.0
88	1	2	sep	sun	93.5	149.3	728.6	8.1	25.3	36	3.6	0.0	0.0
89	6	5	mar	sat	91.7	35.8	80.8	7.8	17.4	25	4.9	0.0	0.0
90	6	5	aug	sat	90.2	96.9	624.2	8.9	14.7	59	5.8	0.0	0.0
91	8	6	mar	fri	91.7	35.8	80.8	7.8	17.4	24	5.4	0.0	0.0
92	8	6	aug	sun	92.3	85.3	488.0	14.7	20.8	32	6.3	0.0	0.0
93	8	6	aug	sun	91.4	142.4	601.4	10.6	18.2	43	4.9	0.0	0.0
94	8	6	aug	mon	91.1	103.2	638.8	5.8	23.4	22	2.7	0.0	0.0
95	4	4	sep	sun	89.7	90.0	704.4	4.8	17.8	64	1.3	0.0	0.0
96	3	4	feb	sat	83.9	8.0	30.2	2.6	12.7	48	1.8	0.0	0.0
97	3	4	mar	sat	69.0	2.4	15.5	0.7	17.4	24	5.4	0.0	0.0
98	3	4	aug	sun	91.4	142.4	601.4	10.6	11.6	87	4.5	0.0	0.0
99	3	4	aug	sun	91.4	142.4	601.4	10.6	19.8	39	5.4	0.0	0.0
100	3	4	aug	sun	91.4	142.4	601.4	10.6	19.8	39	5.4	0.0	0.0
101	3	4	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	0.0
102	2	4	aug	tue	94.8	108.3	647.1	17.0	20.1	40	4.0	0.0	0.0
103	2	4	sep	sat	92.5	121.1	674.4	8.6	24.1	29	4.5	0.0	0.0
104	2	4	jan	sat	82.1	3.7	9.3	2.9	5.3	78	3.1	0.0	0.0
105	4	5	mar	fri	85.9	19.5	57.3	2.8	12.7	52	6.3	0.0	0.0
106	4	5	mar	thu	91.4	30.7	74.3	7.5	18.2	29	3.1	0.0	0.0
107	4	5	aug	sun	90.2	99.6	631.2	6.3	21.4	33	3.1	0.0	0.0
108	4	5	sep	sat	92.5	88.0	698.6	7.1	20.3	45	3.1	0.0	0.0
109	4	5	sep	mon	88.6	91.8	709.9	7.1	17.4	56	5.4	0.0	0.0
110	4	4	mar	fri	85.9	19.5	57.3	2.8	13.7	43	5.8	0.0	0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
111	3	4	mar	fri	91.7	33.3	77.5	9.0	18.8	18	4.5	0.0	0.0
112	3	4	sep	sun	89.7	90.0	704.4	4.8	22.8	39	3.6	0.0	0.0
113	3	4	sep	mon	91.8	78.5	724.3	9.2	18.9	35	2.7	0.0	0.0
114	3	4	mar	tue	88.1	25.7	67.6	3.8	15.8	27	7.6	0.0	0.0
115	3	5	mar	tue	88.1	25.7	67.6	3.8	15.5	27	6.3	0.0	0.0
116	3	4	mar	sat	91.7	35.8	80.8	7.8	11.6	30	6.3	0.0	0.0
117	3	4	mar	sat	91.7	35.8	80.8	7.8	15.2	27	4.9	0.0	0.0
118	3	4	mar	mon	90.1	39.7	86.6	6.2	10.6	30	4.0	0.0	0.0
119	3	4	aug	thu	93.0	75.3	466.6	7.7	19.6	36	3.1	0.0	0.0
120	3	4	aug	mon	91.5	145.4	608.2	10.7	10.3	74	2.2	0.0	0.0
121	3	4	aug	mon	91.5	145.4	608.2	10.7	17.1	43	5.4	0.0	0.0
122	3	4	sep	sun	92.4	124.1	680.7	8.5	22.5	42	5.4	0.0	0.0
123	3	4	sep	tue	84.4	73.4	671.9	3.2	17.9	45	3.1	0.0	0.0
124	3	4	sep	fri	94.3	85.1	692.3	15.9	19.8	50	5.4	0.0	0.0
125	3	4	oct	sun	92.6	46.5	691.8	8.8	20.6	24	5.4	0.0	0.0
126	3	5	mar	mon	87.6	52.2	103.8	5.0	9.0	49	2.2	0.0	0.0
127	3	5	sep	fri	93.5	149.3	728.6	8.1	17.2	43	3.1	0.0	0.0
128	3	5	oct	wed	91.4	37.9	673.8	5.2	15.9	46	3.6	0.0	0.0
129	2	5	oct	sun	92.6	46.5	691.8	8.8	15.4	35	0.9	0.0	0.0
130	4	6	feb	sat	68.2	21.5	87.2	0.8	15.4	40	2.7	0.0	0.0
131	4	6	mar	mon	87.2	23.9	64.7	4.1	14.0	39	3.1	0.0	0.0
132	4	6	mar	sun	89.3	51.3	102.2	9.6	10.6	46	4.9	0.0	0.0
133	4	6	sep	thu	93.7	80.9	685.2	17.9	17.6	42	3.1	0.0	0.0
134	3	5	mar	tue	88.1	25.7	67.6	3.8	14.9	38	2.7	0.0	0.0
135	3	5	aug	sat	93.5	139.4	594.2	20.3	17.6	52	5.8	0.0	0.0
136	3	6	sep	sun	92.4	124.1	680.7	8.5	17.2	58	1.3	0.0	0.0
137	3	6	sep	mon	90.9	126.5	686.5	7.0	15.6	66	3.1	0.0	0.0
138	9	9	jul	tue	85.8	48.3	313.4	3.9	18.0	42	2.7	0.0	1.0
139	1	4	sep	tue	91.0	129.5	692.6	7.0	21.7	38	2.2	0.0	1.0
140	2	5	sep	mon	90.9	126.5	686.5	7.0	21.9	39	1.8	0.0	1.0
141	1	2	aug	wed	95.5	99.9	513.3	13.2	23.3	31	4.5	0.0	1.0
142	8	6	aug	fri	90.1	108.0	529.8	12.5	21.2	51	8.9	0.0	1.0
143	1	2	jul	sat	90.0	51.3	296.3	8.7	16.6	53	5.4	0.0	1.0
144	2	5	aug	wed	95.5	99.9	513.3	13.2	23.8	32	5.4	0.0	1.0
145	6	5	aug	thu	95.2	131.7	578.8	10.4	27.4	22	4.0	0.0	1.0
146	5	4	mar	mon	90.1	39.7	86.6	6.2	13.2	40	5.4	0.0	1.0
147	8	3	sep	tue	84.4	73.4	671.9	3.2	24.2	28	3.6	0.0	1.0

148	2	2	aug	tue	94.8	108.3	647.1	17.0	17.4	43	6.7	0.0	1.0
149	8	6	sep	thu	93.7	80.9	685.2	17.9	23.7	25	4.5	0.0	1.0
150	6	5	jun	fri	92.5	56.4	433.3	7.1	23.2	39	5.4	0.0	1.0
151	9	9	jul	sun	90.1	68.6	355.2	7.2	24.8	29	2.2	0.0	1.0
152	3	4	jul	sat	90.1	51.2	424.1	6.2	24.6	43	1.8	0.0	1.0
153	5	4	sep	fri	94.3	85.1	692.3	15.9	20.1	47	4.9	0.0	1.0
154	1	5	sep	sat	93.4	145.4	721.4	8.1	29.6	27	2.7	0.0	1.0
155	7	4	aug	sun	94.8	108.3	647.1	17.0	16.4	47	1.3	0.0	1.0
156	2	4	sep	sat	93.4	145.4	721.4	8.1	28.6	27	2.2	0.0	1.0
157	2	2	aug	wed	92.1	111.2	654.1	9.6	18.4	45	3.6	0.0	1.0
158	2	4	aug	wed	92.1	111.2	654.1	9.6	20.5	35	4.0	0.0	1.0
159	7	4	sep	fri	92.4	117.9	668.0	12.2	19.0	34	5.8	0.0	1.0
160	7	4	mar	mon	90.1	39.7	86.6	6.2	16.1	29	3.1	0.0	1.0
161	6	4	aug	thu	95.2	131.7	578.8	10.4	20.3	41	4.0	0.0	1.0
162	6	3	mar	sat	90.6	50.1	100.4	7.8	15.2	31	8.5	0.0	1.0
163	8	6	sep	sat	92.5	121.1	674.4	8.6	17.8	56	1.8	0.0	1.0
164	8	5	sep	sun	89.7	90.0	704.4	4.8	17.8	67	2.2	0.0	1.0
165	6	5	mar	thu	84.9	18.2	55.0	3.0	5.3	70	4.5	0.0	1.0
166	6	5	aug	wed	92.1	111.2	654.1	9.6	16.6	47	0.9	0.0	1.0
167	6	5	aug	wed	96.0	127.1	570.5	16.5	23.4	33	4.5	0.0	1.0
168	6	5	mar	fri	91.2	48.3	97.8	12.5	14.6	26	9.4	0.0	1.0
169	8	6	aug	thu	95.2	131.7	578.8	10.4	20.7	45	2.2	0.0	1.0
170	5	4	sep	wed	92.9	133.3	699.6	9.2	21.9	35	1.8	0.0	1.0
171	8	6	aug	wed	85.6	90.4	609.6	6.6	17.4	50	4.0	0.0	1.0
172	7	4	aug	sun	91.4	142.4	601.4	10.6	20.1	39	5.4	0.0	1.0
173	4	4	sep	mon	90.9	126.5	686.5	7.0	17.7	39	2.2	0.0	1.0
174	1	4	aug	sat	90.2	96.9	624.2	8.9	14.2	53	1.8	0.0	1.0
175	1	4	aug	sat	90.2	96.9	624.2	8.9	20.3	39	4.9	0.0	1.0
176	6	5	apr	thu	81.5	9.1	55.2	2.7	5.8	54	5.8	0.0	1.0
177	2	5	aug	sun	90.2	99.6	631.2	6.3	19.2	44	2.7	0.0	1.0
178	2	5	sep	wed	90.1	82.9	735.7	6.2	18.3	45	2.2	0.0	1.0
179	8	6	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	1.0
180	1	3	sep	sun	92.4	124.1	680.7	8.5	23.9	32	6.7	0.0	1.0
181	8	6	oct	mon	84.9	32.8	664.2	3.0	19.1	32	4.0	0.0	1.0
182	5	4	feb	sun	86.8	15.6	48.3	3.9	12.4	53	2.2	0.0	1.0
183	7	4	oct	mon	91.7	48.5	696.1	11.1	16.8	45	4.5	0.0	1.0
184	8	6	aug	fri	93.9	135.7	586.7	15.1	20.8	34	4.9	0.0	1.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
185	2	5	sep	tue	91.0	129.5	692.6	7.0	17.6	46	3.1	0.0	1.0
186	8	6	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	1.0
187	1	5	sep	mon	90.9	126.5	686.5	7.0	21.0	42	2.2	0.0	1.0
188	6	4	mar	sat	90.8	41.9	89.4	7.9	13.3	42	0.9	0.0	1.0
189	7	4	mar	sun	90.7	44.0	92.4	5.5	11.5	60	4.0	0.0	1.0
190	6	5	mar	fri	91.2	48.3	97.8	12.5	11.7	33	4.0	0.0	1.0
191	2	5	aug	thu	95.2	131.7	578.8	10.4	24.2	28	2.7	0.0	1.0
192	2	2	aug	tue	94.8	108.3	647.1	17.0	24.6	22	4.5	0.0	1.0
193	4	5	sep	wed	92.9	133.3	699.6	9.2	24.3	25	4.0	0.0	1.0
194	2	2	aug	tue	94.8	108.3	647.1	17.0	24.6	22	4.5	0.0	1.0
195	2	5	aug	fri	93.9	135.7	586.7	15.1	23.5	36	5.4	0.0	1.0
196	6	5	apr	thu	81.5	9.1	55.2	2.7	5.8	54	5.8	0.0	1.0
197	4	5	sep	thu	92.9	137.0	706.4	9.2	21.5	15	0.9	0.0	1.0
198	3	4	sep	tue	91.0	129.5	692.6	7.0	13.9	59	6.3	0.0	1.0
199	2	4	sep	mon	63.5	70.8	665.3	0.8	22.6	38	3.6	0.0	1.0
200	1	5	sep	tue	91.0	129.5	692.6	7.0	21.6	33	2.2	0.0	1.0
201	6	5	mar	sun	90.1	37.6	83.7	7.2	12.4	54	3.6	0.0	1.0
202	7	4	feb	sun	83.9	8.7	32.1	2.1	8.8	68	2.2	0.0	1.0
203	8	6	oct	wed	91.4	37.9	673.8	5.2	20.2	37	2.7	0.0	1.0
204	5	6	mar	sat	90.6	50.1	100.4	7.8	15.1	64	4.0	0.0	1.0
205	4	5	sep	thu	92.9	137.0	706.4	9.2	22.1	34	1.8	0.0	1.0
206	2	2	aug	sat	93.5	139.4	594.2	20.3	22.9	31	7.2	0.0	1.0
207	7	5	sep	tue	91.0	129.5	692.6	7.0	20.7	37	2.2	0.0	1.0
208	6	5	sep	fri	92.4	117.9	668.0	12.2	19.6	33	6.3	0.0	1.0
209	8	3	sep	thu	93.7	80.9	685.2	17.9	23.2	26	4.9	0.0	1.0
210	4	4	oct	sat	90.6	43.7	686.9	6.7	18.4	25	3.1	0.0	1.0
211	7	4	aug	sat	93.5	139.4	594.2	20.3	5.1	96	5.8	0.0	1.0
212	7	4	sep	fri	94.3	85.1	692.3	15.9	20.1	47	4.9	0.0	1.0
213	7	3	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	1.0
214	4	4	mar	sat	91.7	35.8	80.8	7.8	17.0	27	4.9	0.0	1.0
215	4	4	mar	sat	91.7	35.8	80.8	7.8	17.0	27	4.9	0.0	1.0
216	4	4	sep	sun	92.4	124.1	680.7	8.5	16.9	60	1.3	0.0	1.0
217	1	3	sep	mon	88.6	91.8	709.9	7.1	12.4	73	6.3	0.0	1.0
218	4	5	sep	wed	92.9	133.3	699.6	9.2	19.4	19	1.3	0.0	1.0
219	6	5	mar	mon	90.1	39.7	86.6	6.2	15.2	27	3.1	0.0	1.0
220	8	6	aug	sun	90.2	99.6	631.2	6.3	16.2	59	3.1	0.0	1.0
221	3	4	sep	fri	93.3	141.2	713.9	13.9	18.6	49	3.6	0.0	1.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
222	4	3	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	1.0
223	2	2	jul	fri	88.3	150.3	309.9	6.8	13.4	79	3.6	0.0	1.0
224	7	4	sep	wed	90.1	82.9	735.7	6.2	15.4	57	4.5	0.0	1.0
225	4	4	sep	sun	93.5	149.3	728.6	8.1	22.9	39	4.9	0.0	1.0
226	7	5	oct	mon	91.7	48.5	696.1	11.1	16.1	44	4.0	0.0	1.0
227	8	6	aug	sat	92.2	81.8	480.8	11.9	20.1	34	4.5	0.0	1.0
228	4	6	sep	sun	93.5	149.3	728.6	8.1	28.3	26	3.1	0.0	1.0
229	8	6	aug	sat	92.2	81.8	480.8	11.9	16.4	43	4.0	0.0	1.0
230	4	4	sep	wed	92.9	133.3	699.6	9.2	26.4	21	4.5	0.0	1.0
231	1	5	sep	sun	93.5	149.3	728.6	8.1	27.8	27	3.1	0.0	1.0
232	6	4	sep	tue	91.0	129.5	692.6	7.0	18.7	43	2.7	0.0	1.0
233	9	4	sep	tue	84.4	73.4	671.9	3.2	24.3	36	3.1	0.0	1.0
234	4	5	sep	sat	92.5	121.1	674.4	8.6	17.7	25	3.1	0.0	1.0
235	8	6	aug	sun	91.4	142.4	601.4	10.6	19.6	41	5.8	0.0	1.0
236	2	2	sep	sat	92.5	121.1	674.4	8.6	18.2	46	1.8	0.0	1.0
237	1	2	sep	tue	91.0	129.5	692.6	7.0	18.8	40	2.2	0.0	1.0
238	6	5	sep	sat	92.5	121.1	674.4	8.6	25.1	27	4.0	0.0	1.0
239	7	5	apr	sun	81.9	3.0	7.9	3.5	13.4	75	1.8	0.0	0.0
240	6	3	apr	wed	88.0	17.2	43.5	3.8	15.2	51	2.7	0.0	0.0
241	4	4	apr	fri	83.0	23.3	85.3	2.3	16.7	20	3.1	0.0	0.0
242	2	4	aug	sun	94.2	122.3	589.9	12.9	15.4	66	4.0	0.0	1.0
243	7	4	aug	sun	91.8	175.1	700.7	13.8	21.9	73	7.6	1.0	0.0
244	2	4	aug	sun	91.8	175.1	700.7	13.8	22.4	54	7.6	0.0	1.0
245	3	4	aug	sun	91.8	175.1	700.7	13.8	26.8	38	6.3	0.0	1.0
246	5	4	aug	sun	91.8	175.1	700.7	13.8	25.7	39	5.4		1.0
247	2	4	aug	wed	92.2	91.6	503.6	9.6	20.7	70	2.2		1.0
248	8	6	aug	wed	93.1	157.3	666.7	13.5	28.7	28	2.7		0.0
249	3	4	aug	wed	93.1	157.3	666.7	13.5	21.7	40	0.4	0.0	1.0
250	8	5	aug	wed	93.1	157.3	666.7	13.5	26.8	25	3.1	0.0	1.0
251	8	5	aug	wed	93.1	157.3	666.7	13.5	24.0	36	3.1	0.0	1.0
252	6	5	aug	wed	93.1	157.3	666.7	13.5	22.1	37	3.6	0.0	1.0
253	7	4	aug	thu	91.9	109.2	565.5	8.0	21.4	38	2.7		1.0
254	6	3	aug	thu	91.6	138.1	621.7	6.3	18.9	41	3.1	0.0	1.0
255	2	5	aug	thu	87.5	77.0	694.8	5.0	22.3	46	4.0	0.0	0.0
256	8	6	aug	sat	94.2	117.2	581.1	11.0	23.9	41	2.2		1.0
257	4	3	aug	sat	94.2	117.2	581.1	11.0 13.7	21.4	44 50	2.7	0.0	1.0
258	3	4	aug	sat	91.8	170.9	692.3	13./	20.6	59	0.9	0.0	0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
259	7	4	aug	sat	91.8	170.9	692.3	13.7	23.7	40	1.8	0.0	1.0
260	2	4	aug	mon	93.6	97.9	542.0	14.4	28.3	32	4.0	0.0	1.0
261	3	4	aug	fri	91.6	112.4	573.0	8.9	11.2	84	7.6	0.0	1.0
262	2	4	aug	fri	91.6	112.4	573.0	8.9	21.4	42	3.1	0.0	1.0
263	6	3	aug	fri	91.1	141.1	629.1	7.1	19.3	39	3.6	0.0	1.0
264	4	4	aug	fri	94.3	167.6	684.4	13.0	21.8	53	3.1	0.0	1.0
265	4	4	aug	tue	93.7	102.2	550.3	14.6	22.1	54	7.6	0.0	1.0
266	6	5	aug	tue	94.3	131.7	607.1	22.7	19.4	55	4.0	0.0	1.0
267	2	2	aug	tue	92.1	152.6	658.2	14.3	23.7	24	3.1	0.0	0.0
268	3	4	aug	tue	92.1	152.6	658.2	14.3	21.0	32	3.1	0.0	0.0
269	4	4	aug	tue	92.1	152.6	658.2	14.3	19.1	53	2.7	0.0	1.0
270	2	2	aug	tue	92.1	152.6	658.2	14.3	21.8	56	3.1	0.0	1.0
271	8	6	aug	tue	92.1	152.6	658.2	14.3	20.1	58	4.5	0.0	1.0
272	2	5	aug	tue	92.1	152.6	658.2	14.3	20.2	47	4.0	0.0	1.0
273	4	6	dec	sun	84.4	27.2	353.5	6.8	4.8	57	8.5	0.0	1.0
274	8	6	dec	wed	84.0	27.8	354.6	5.3	5.1	61	8.0	0.0	1.0
275	4	6	dec	thu	84.6	26.4	352.0	2.0	5.1	61	4.9	0.0	1.0
276	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
277	3	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
278	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
279	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
280	4	6	dec	fri	84.7	26.7	352.6	4.1	2.2	59	4.9	0.0	1.0
281	6	5	dec	tue	85.4	25.4	349.7	2.6	5.1	24	8.5	0.0	1.0
282	6	3	feb	sun	84.9	27.5	353.5	3.4	4.2	51	4.0	0.0	0.0
283	3	4	feb	wed	86.9	6.6	18.7	3.2	8.8	35	3.1	0.0	1.0
284	5	4	feb	fri	85.2	4.9	15.8	6.3	7.5	46	8.0	0.0	1.0
285	2	5	jul	sun	93.9	169.7	411.8	12.3	23.4	40	6.3	0.0	0.0
286	7	6	jul	wed	91.2	183.1	437.7	12.5	12.6	90	7.6	0.2	0.0
287	7	4	jul	sat	91.6	104.2	474.9	9.0	22.1	49	2.7	0.0	0.0
288	7	4	jul	sat	91.6	104.2	474.9	9.0	24.2	32	1.8	0.0	0.0
289	7	4	jul	sat	91.6	104.2	474.9	9.0	24.3	30	1.8	0.0	0.0
290	2	5	jul	sat	91.6	104.2	474.9	9.0	18.7	53	1.8	0.0	0.0
291	9	4	jul	sat	91.6	104.2	474.9	9.0	25.3	39	0.9	0.0	1.0
292	4	5	jul	fri	91.6	100.2	466.3	6.3	22.9	40	1.3	0.0	1.0
293	7	6	jul	tue	93.1	180.4	430.8	11.0	26.9	28	5.4	0.0	1.0
294	8	6	jul	tue	92.3	88.8	440.9	8.5	17.1	67	3.6	0.0	1.0
295	7	5	jun	sun	93.1	180.4	430.8	11.0	22.2	48	1.3	0.0	0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
296	6	4	jun	sun	90.4	89.5	290.8	6.4	14.3	46	1.8	0.0	1.0
297	8	6	jun	sun	90.4	89.5	290.8	6.4	15.4	45	2.2	0.0	0.0
298	8	6	jun	wed	91.2	147.8	377.2	12.7	19.6	43	4.9	0.0	0.0
299	6	5	jun	sat	53.4	71.0	233.8	0.4	10.6	90	2.7	0.0	0.0
300	6	5	jun	mon	90.4	93.3	298.1	7.5	20.7	25	4.9	0.0	0.0
301	6	5	jun	mon	90.4	93.3	298.1	7.5	19.1	39	5.4	0.0	1.0
302	3	6	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0
303	3	6	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0
304	6	5	may	sat	85.1	28.0	113.8	3.5	11.3	94	4.9	0.0	0.0
305	1	4	sep	sun	89.6	84.1	714.3	5.7	19.0	52	2.2	0.0	0.0
306	7	4	sep	sun	89.6	84.1	714.3	5.7	17.1	53	5.4	0.0	1.0
307	3	4	sep	sun	89.6	84.1	714.3	5.7	23.8	35	3.6	0.0	1.0
308	2	4	sep	sun	92.4	105.8	758.1	9.9	16.0	45	1.8	0.0	0.0
309	2	4	sep	sun	92.4	105.8	758.1	9.9	24.9	27	2.2	0.0	0.0
310	7	4	sep	sun	92.4	105.8	758.1	9.9	25.3	27	2.7	0.0	0.0
311	6	3	sep	sun	92.4	105.8	758.1	9.9	24.8	28	1.8	0.0	1.0
312	2	4	sep	sun	50.4	46.2	706.6	0.4	12.2	78	6.3	0.0	0.0
313	6	5	sep	wed	92.6	115.4	777.1	8.8	24.3	27	4.9	0.0	0.0
314	4	4	sep	wed	92.6	115.4	777.1	8.8	19.7	41	1.8	0.0	1.0
315	3	4	sep	wed	91.2	134.7	817.5	7.2	18.5	30	2.7	0.0	0.0
316	4	5	sep	thu	92.4	96.2	739.4	8.6	18.6	24	5.8	0.0	0.0
317	4	4	sep	thu	92.4	96.2	739.4	8.6	19.2	24	4.9	0.0	1.0
318	6	5	sep	thu	92.8	119.0	783.5	7.5	21.6	27	2.2	0.0	0.0
319	5	4	sep	thu	92.8	119.0	783.5	7.5	21.6	28	6.3		
320	6	3	sep	thu	92.8	119.0	783.5	7.5	18.9	34	7.2		
321	1	4	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0		
322	6	5	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0		
323	3	5	sep	thu	90.7	136.9	822.8	6.8	12.9	39	2.7		
324	6	5	sep	thu	88.1	53.3	726.9	5.4	13.7	56	1.8		
325	1	4	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1		
326	5	4	sep	sat	92.2	102.3	751.5	8.4	24.1	27	3.1		
327	6	5	sep	sat	92.2	102.3	751.5	8.4	21.2	32	2.2		
328	6	5	sep	sat	92.2	102.3	751.5	8.4	19.7	35	1.8		
329	4	3	sep	sat	92.2	102.3	751.5	8.4	23.5	27	4.0		
330	3	3	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1		
331 332	7	4	sep	sat	91.2 91.2	124.4 124.4	795.3 795.3	8.5 8.5	21.5 17.1	28 41	4.5 2.2		
J3 2	4	4	seh	ડતા	31.4	124.4	133.3	0.5	17.1	41	۷.۷	0.0	1.0

		Y	month	aay	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
333	1	4	sep	mon	92.1	87.7	721.1	9.5	18.1	54	3.1	0.0	1.0
334	2	3	sep	mon	91.6	108.4	764.0	6.2	18.0	51	5.4	0.0	0.0
335	4	3	sep	mon	91.6	108.4	764.0	6.2	9.8	86	1.8	0.0	0.0
336	7	4	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	0.0
337	6	3	sep	mon	91.6	108.4	764.0	6.2	23.0	34	2.2	0.0	1.0
338	8	6	sep	mon	91.6	108.4	764.0	6.2	22.7	35	2.2	0.0	1.0
339	2	4	sep	mon	91.6	108.4	764.0	6.2	20.4	41	1.8	0.0	1.0
340	2	5	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	1.0
341	8	6	sep	mon	91.9	111.7	770.3	6.5	15.7	51	2.2	0.0	0.0
342	6	3	sep	mon	91.5	130.1	807.1	7.5	20.6	37	1.8	0.0	0.0
343	8	6	sep	mon	91.5	130.1	807.1	7.5	15.9	51	4.5	0.0	1.0
344	6	3	sep	mon	91.5	130.1	807.1	7.5	12.2	66	4.9	0.0	1.0
345	2	2	sep	mon	91.5	130.1	807.1	7.5	16.8	43	3.1	0.0	1.0
346	1	4	sep	mon	91.5	130.1	807.1	7.5	21.3	35	2.2	0.0	1.0
347	5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	0.0
348	3	4	sep	fri	92.1	99.0	745.3	9.6	17.4	57	4.5	0.0	0.0
349	5	4	sep	fri	92.1	99.0	745.3	9.6	12.8	64	3.6	0.0	1.0
350	5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	1.0
351	4	4	sep	fri	92.1	99.0	745.3	9.6	15.4	53	6.3	0.0	1.0
352	7	4	sep	fri	92.1	99.0	745.3	9.6	20.6	43	3.6	0.0	1.0
353	7	4	sep	fri	92.1	99.0	745.3	9.6	19.8	47	2.7	0.0	1.0
354	7	4	sep	fri	92.1	99.0	745.3	9.6	18.7	50	2.2	0.0	1.0
355	4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0
356	4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0
357	6	3	sep	fri	92.5	122.0	789.7	10.2	15.9	55	3.6	0.0	0.0
358	6	3	sep	fri	92.5	122.0	789.7	10.2	19.7	39	2.7	0.0	0.0
359	1	4	sep	fri	92.5	122.0	789.7	10.2	21.1	39	2.2	0.0	1.0
360	6	5	sep	fri	92.5	122.0	789.7	10.2	18.4	42	2.2	0.0	1.0
361	4	3	sep	fri	92.5	122.0	789.7	10.2	17.3	45	4.0	0.0	1.0
362	7	4	sep	fri	88.2	55.2	732.3	11.6	15.2	64	3.1	0.0	1.0
363	4	3	sep	tue	91.9	111.7	770.3	6.5	15.9	53	2.2	0.0	1.0
364	6	5	sep	tue	91.9	111.7	770.3	6.5	21.1	35	2.7	0.0	1.0
365	6	5	sep	tue	91.9	111.7	770.3	6.5	19.6	45	3.1	0.0	1.0
366	4	5	sep	tue	91.1	132.3	812.1	12.5	15.9	38	5.4	0.0	1.0
367	4	5	sep	tue	91.1	132.3	812.1	12.5	16.4	27	3.6	0.0	0.0
368	6	5	sep	sat	91.2	94.3	744.4	8.4	16.8	47	4.9	0.0	1.0
369	4	5	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH wiwieldrainainutputput			
370	7	4	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	1.0
371	3	4	jul	wed	91.9	133.6	520.5	8.0	14.2	58	4.0	0.0	0.0
372	4	5	aug	sun	92.0	203.2	664.5	8.1	10.4	75	0.9	0.0	0.0
373	5	4	aug	thu	94.8	222.4	698.6	13.9	20.3	42	2.7	0.0	0.0
374	6	5	sep	fri	90.3	290.0	855.3	7.4	10.3	78	4.0	0.0	1.0
375	6	5	sep	sat	91.2	94.3	744.4	8.4	15.4	57	4.9	0.0	1.0
376	8	6	aug	mon	92.1	207.0	672.6	8.2	21.1	54	2.2	0.0	0.0
377	2	2	aug	sat	93.7	231.1	715.1	8.4	21.9	42	2.2	0.0	1.0
378	6	5	mar	thu	90.9	18.9	30.6	8.0	8.7	51	5.8	0.0	0.0
379	4	5	jan	sun	18.7	1.1	171.4	0.0	5.2	100	0.9	0.0	0.0
380	5	4	jul	wed	93.7	101.3	458.8	11.9	19.3	39	7.2	0.0	1.0
381	8	6	aug	thu	90.7	194.1	643.0	6.8	16.2	63	2.7	0.0	1.0
382	8	6	aug	wed	95.2	217.7	690.0	18.0	28.2	29	1.8	0.0	1.0
383	9	6	aug	thu	91.6	248.4	753.8	6.3	20.5	58	2.7	0.0	1.0
384	8	4	aug	sat	91.6	273.8	819.1	7.7	21.3	44	4.5	0.0	1.0
385	2	4	aug	sun	91.6	181.3	613.0	7.6	20.9	50	2.2	0.0	1.0
386	3	4	sep	sun	90.5	96.7	750.5	11.4	20.6	55	5.4	0.0	1.0
387	5	5	mar	thu	90.9	18.9	30.6	8.0	11.6	48	5.4	0.0	0.0
388	6	4	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	1.0
389	7	4	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	0.0
390	7	4	feb	mon	84.7	9.5	58.3	4.1	7.5	71	6.3	0.0	1.0
391	8	6	sep	fri	91.1	91.3	738.1	7.2	20.7	46	2.7	0.0	1.0
392	1	3	sep	sun	91.0	276.3	825.1	7.1	21.9	43	4.0	0.0	1.0
393	2	4	mar	tue	93.4	15.0	25.6	11.4	15.2	19	7.6	0.0	0.0
394	6	5	feb	mon	84.1	4.6	46.7	2.2	5.3	68	1.8	0.0	0.0
395	4	5	feb	sun	85.0	9.0	56.9	3.5	10.1	62	1.8	0.0	1.0
396	4	3	sep	sun	90.5	96.7	750.5	11.4	20.4	55	4.9	0.0	1.0
397	5	6	aug	sun	91.6	181.3	613.0	7.6	24.3	33	3.6	0.0	1.0
398	1	2	aug	sat	93.7	231.1	715.1	8.4	25.9	32	3.1	0.0	0.0
399	9	5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	0.0
400	9	5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	1.0
401	3	4	sep	thu	91.1	88.2	731.7	8.3	22.8	46	4.0	0.0	1.0
402	9	9	aug	fri	94.8	227.0	706.7	12.0	25.0	36	4.0	0.0	0.0
403	8	6	aug	thu	90.7	194.1	643.0	6.8	21.3	41	3.6	0.0	0.0
404	2	4	sep	wed	87.9	84.8	725.1	3.7	21.8	34	2.2	0.0	1.0
405	2	2	aug	tue	94.6	212.1	680.9	9.5	27.9	27	2.2	0.0	0.0
406	6	5	sep	sat	87.1	291.3	860.6	4.0	17.0	67	4.9	0.0	1.0

407	4	5	feb	sat	84.7	8.2	55.0	2.9	14.2	46	4.0	0.0	0.0
408	4	3	sep	fri	90.3	290.0	855.3	7.4	19.9	44	3.1	0.0	1.0
409	1	4	jul	tue	92.3	96.2	450.2	12.1	23.4	31	5.4	0.0	0.0
410	6	3	feb	fri	84.1	7.3	52.8	2.7	14.7	42	2.7	0.0	0.0
411	7	4	feb	fri	84.6	3.2	43.6	3.3	8.2	53	9.4	0.0	1.0
412	9	4	jul	mon	92.3	92.1	442.1	9.8	22.8	27	4.5	0.0	1.0
413	7	5	aug	sat	93.7	231.1	715.1	8.4	26.4	33	3.6	0.0	0.0
414	5	4	aug	sun	93.6	235.1	723.1	10.1	24.1	50	4.0	0.0	0.0
415	8	6	aug	thu	94.8	222.4	698.6	13.9	27.5	27	4.9	0.0	1.0
416	6	3	jul	tue	92.7	164.1	575.8	8.9	26.3	39	3.1	0.0	1.0
417	6	5	mar	wed	93.4	17.3	28.3	9.9	13.8	24	5.8	0.0	0.0
418	2	4	aug	sun	92.0	203.2	664.5	8.1	24.9	42	5.4	0.0	1.0
419	2	5	aug	sun	91.6	181.3	613.0	7.6	24.8	36	4.0	0.0	1.0
420	8	8	aug	wed	91.7	191.4	635.9	7.8	26.2	36	4.5	0.0	1.0
421	2	4	aug	wed	95.2	217.7	690.0	18.0	30.8	19	4.5	0.0	0.0
422	8	6	jul	sun	88.9	263.1	795.9	5.2	29.3	27	3.6	0.0	1.0
423	1	3	sep	sat	91.2	94.3	744.4	8.4	22.3	48	4.0	0.0	1.0
424	8	6	aug	sat	93.7	231.1	715.1	8.4	26.9	31	3.6	0.0	1.0
425	2	2	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
426	8	6	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
427	2	4	aug	mon	92.1	207.0	672.6	8.2	27.9	33	2.2	0.0	1.0
428	1	3	aug	thu	94.8	222.4	698.6	13.9	26.2	34	5.8	0.0	0.0
429	3	4	aug	sun	91.6	181.3	613.0	7.6	24.6	44	4.0	0.0	1.0
430	7	4	sep	thu	89.7	287.2	849.3	6.8	19.4	45	3.6	0.0	0.0
431	1	3	aug	sat	92.1	178.0	605.3	9.6	23.3	40	4.0	0.0	1.0
432	8	6	aug	thu	94.8	222.4	698.6	13.9	23.9	38	6.7	0.0	0.0
433	2	4	aug	sun	93.6	235.1	723.1	10.1	20.9	66	4.9	0.0	1.0
434	1	4	aug	fri	90.6	269.8	811.2	5.5	22.2	45	3.6	0.0	0.0
435	2	5	jul	sat	90.8	84.7	376.6	5.6	23.8	51	1.8	0.0	0.0
436	8	6	aug	mon	92.1	207.0	672.6	8.2	26.8	35	1.3	0.0	1.0
437	8	6	aug	sat	89.4	253.6	768.4	9.7	14.2	73	2.7	0.0	0.0
438	2	5	aug	sat	93.7	231.1	715.1	8.4	23.6	53	4.0	0.0	1.0
439	1	3	sep	fri	91.1	91.3	738.1	7.2	19.1	46	2.2	0.0	1.0
440	5	4	sep	fri	90.3	290.0	855.3	7.4	16.2	58	3.6	0.0	0.0
441	8	6	aug	mon	92.1	207.0	672.6	8.2	25.5	29	1.8	0.0	1.0
442	6	5	apr	mon	87.9	24.9	41.6	3.7	10.9	64	3.1	0.0	1.0
443	1	2	jul	fri	90.7	80.9	368.3	16.8	14.8	78	8.0	0.0	0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH wiwind drainain utput put			
444	2	5	sep	fri	90.3	290.0	855.3	7.4	16.2	58	3.6	0.0	1.0
445	5	5	aug	sun	94.0	47.9	100.7	10.7	17.3	80	4.5	0.0	0.0
446	6	5	aug	sun	92.0	203.2	664.5	8.1	19.1	70	2.2	0.0	0.0
447	3	4	mar	wed	93.4	17.3	28.3	9.9	8.9	35	8.0	0.0	0.0
448	7	4	sep	wed	89.7	284.9	844.0	10.1	10.5	77	4.0	0.0	0.0
449	7	4	aug	sun	91.6	181.3	613.0	7.6	19.3	61	4.9	0.0	0.0
450	4	5	aug	wed	95.2	217.7	690.0	18.0	23.4	49	5.4	0.0	1.0
451	1	4	aug	fri	90.5	196.8	649.9	16.3	11.8	88	4.9	0.0	1.0
452	7	4	aug	mon	91.5	238.2	730.6	7.5	17.7	65	4.0	0.0	0.0
453	4	5	aug	thu	89.4	266.2	803.3	5.6	17.4	54	3.1	0.0	0.0
454	3	4	aug	thu	91.6	248.4	753.8	6.3	16.8	56	3.1	0.0	0.0
455	3	4	jul	mon	94.6	160.0	567.2	16.7	17.9	48	2.7	0.0	0.0
456	2	4	aug	thu	91.6	248.4	753.8	6.3	16.6	59	2.7	0.0	0.0
457	1	4	aug	wed	91.7	191.4	635.9	7.8	19.9	50	4.0	0.0	1.0
458	8	6	aug	sat	93.7	231.1	715.1	8.4	18.9	64	4.9	0.0	1.0
459	7	4	aug	sat	91.6	273.8	819.1	7.7	15.5	72	8.0	0.0	1.0
460	2	5	aug	sat	93.7	231.1	715.1	8.4	18.9	64	4.9	0.0	0.0
461	8	6	aug	sat	93.7	231.1	715.1	8.4	18.9	64	4.9	0.0	0.0
462	1	4	sep	sun	91.0	276.3	825.1	7.1	14.5	76	7.6	0.0	1.0
463	6	5	feb	tue	75.1	4.4	16.2	1.9	4.6	82	6.3	0.0	1.0
464	6	4	feb	tue	75.1	4.4	16.2	1.9	5.1	77	5.4	0.0	1.0
465	2	2	feb	sat	79.5	3.6	15.3	1.8	4.6	59	0.9	0.0	1.0
466	6	5	mar	mon	87.2	15.1	36.9	7.1	10.2	45	5.8	0.0	1.0
467	3	4	mar	wed	90.2	18.5	41.1	7.3	11.2	41	5.4	0.0	1.0
468	6	5	mar	thu	91.3	20.6	43.5	8.5	13.3	27	3.6	0.0	1.0
469	6	3	apr	sun	91.0	14.6	25.6	12.3	13.7	33	9.4	0.0	1.0
470	5	4	apr	sun	91.0	14.6	25.6	12.3	17.6	27	5.8	0.0	0.0
471	4	3	may	fri	89.6	25.4	73.7	5.7	18.0	40	4.0	0.0	1.0
472	8	3	jun	mon	88.2	96.2	229.0	4.7	14.3	79	4.0	0.0	1.0
473	9	4	jun	sat	90.5	61.1	252.6	9.4	24.5	50	3.1	0.0	1.0
474	4	3	jun	thu	93.0	103.8	316.7	10.8	26.4	35	2.7	0.0	1.0
475	2	5	jun	thu	93.7	121.7	350.2	18.0	22.7	40	9.4	0.0	1.0
476	4	3	jul	thu	93.5	85.3	395.0	9.9	27.2	28	1.3	0.0	1.0
477	4	3	jul	sun	93.7	101.3	423.4	14.7	26.1	45	4.0	0.0	1.0
478	7	4	jul	sun	93.7	101.3	423.4	14.7	18.2	82	4.5	0.0	1.0
479	7	4	jul	mon	89.2	103.9	431.6	6.4	22.6	57	4.9	0.0	1.0
480	9	9	jul	thu	93.2	114.4	560.0	9.5	30.2	25	4.5	0.0	1.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
481	4	3	jul	thu	93.2	114.4	560.0	9.5	30.2	22	4.9	0.0	0.0
482	3	4	aug	sun	94.9	130.3	587.1	14.1	23.4	40	5.8	0.0	1.0
483	8	6	aug	sun	94.9	130.3	587.1	14.1	31.0	27	5.4	0.0	0.0
484	2	5	aug	sun	94.9	130.3	587.1	14.1	33.1	25	4.0	0.0	1.0
485	2	4	aug	mon	95.0	135.5	596.3	21.3	30.6	28	3.6	0.0	1.0
486	5	4	aug	tue	95.1	141.3	605.8	17.7	24.1	43	6.3	0.0	1.0
487	5	4	aug	tue	95.1	141.3	605.8	17.7	26.4	34	3.6	0.0	1.0
488	4	4	aug	tue	95.1	141.3	605.8	17.7	19.4	71	7.6	0.0	1.0
489	4	4	aug	wed	95.1	141.3	605.8	17.7	20.6	58	1.3	0.0	0.0
490	4	4	aug	wed	95.1	141.3	605.8	17.7	28.7	33	4.0	0.0	0.0
491	4	4	aug	thu	95.8	152.0	624.1	13.8	32.4	21	4.5	0.0	0.0
492	1	3	aug	fri	95.9	158.0	633.6	11.3	32.4	27	2.2	0.0	0.0
493	1	3	aug	fri	95.9	158.0	633.6	11.3	27.5	29	4.5	0.0	1.0
494	6	6	aug	sat	96.0	164.0	643.0	14.0	30.8	30	4.9	0.0	1.0
495	6	6	aug	mon	96.2	175.5	661.8	16.8	23.9	42	2.2	0.0	0.0
496	4	5	aug	mon	96.2	175.5	661.8	16.8	32.6	26	3.1	0.0	1.0
497	3	4	aug	tue	96.1	181.1	671.2	14.3	32.3	27	2.2	0.0	1.0
498	6	5	aug	tue	96.1	181.1	671.2	14.3	33.3	26	2.7	0.0	1.0
499	7	5	aug	tue	96.1	181.1	671.2	14.3	27.3	63	4.9	6.4	1.0
500	8	6	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	8.0	0.0
501	7	5	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	8.0	0.0
502	4	4	aug	tue	96.1	181.1	671.2	14.3	20.7	69	4.9	0.4	0.0
503	2	4	aug	wed	94.5	139.4	689.1	20.0	29.2	30	4.9	0.0	1.0
504	4	3	aug	wed	94.5	139.4	689.1	20.0	28.9	29	4.9	0.0	1.0
505	1	2	aug	thu	91.0	163.2	744.4	10.1	26.7	35	1.8	0.0	1.0
506	1	2	aug	fri	91.0	166.9	752.6	7.1	18.5	73	8.5	0.0	0.0
507	2	4	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.0
508	1	2	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.0
509	5	4	aug	fri	91.0	166.9	752.6	7.1	21.1	71	7.6	1.4	1.0
510	6	5	aug	fri	91.0	166.9	752.6	7.1	18.2	62	5.4	0.0	1.0
511	8	6	aug	sun	81.6	56.7	665.6	1.9	27.8	35	2.7	0.0	0.0
512	4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	1.0
513	2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	1.0
514	7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	1.0
515	1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.0
516	6	3	nov	tue	79.5	3.0	106.7	1.1	11.8	31	4.5	0.0	0.0

```
In [1]:
                        import keras
                        from keras.preprocessing.image import ImageDataGenerator
                         #Define the parameters/arguments for ImageDataGenerator class
In [2]:
                        train_datagen=ImageDataGenerator(rescale=1,/255,shear_range=0.2,rotation_range=180,zoom_range
                        test_datagen=ImageDataGenerator(rescale=1./255)
                         #Applying ImageDataGenerator functionality to trainset
In [3]:
                         x\_train=train\_datagen.flow\_from\_directory(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset\Dataset
                                                                                                                                              target_size=(128,128),batch_size=32,
                                                                                                                                              class_mode='binary')
                       Found 436 images belonging to 2 classes.
                         #Applying ImageDataGenerator functionality to testset
In [4]:
                        x test=test datagen.flow from directory(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\te
                                                                                                                                        target_size=(128,128),batch_size=32,
                                                                                                                                         class_mode='binary')
                       Found 121 images belonging to 2 classes.
                        #importmodelbuilding libraries
        In [5]:
                         #Todefine Linearinitialisation import Sequential
                        from keras.models import Sequential
                         #To add layers import Dense
                        from keras.layers import Dense
                         #Tocreate Convolutionkernelimport Convolution2D
                        from keras.layers import Convolution2D
                         #import Maxpooling layer
                        from keras.layers import MaxPooling2D
                         #import flatten layer
                        from keras.layers import Flatten import
                        warnings warnings.filterwarnings('ignore')
        In [7]:
                        #initializing the model
                        model=Sequential()
                        #add convolutional layer
        In [8]:
                        model.add(Convolution2D(32,(3,3),input_shape=(128,128,3),activation='relu')) #add
                        maxpooling layer
                        model.add(MaxPooling2D(pool_size=(2,2)))
                         #add flatten layer
                        model.add(Flatten())
        In [9]:
                        #add hidden layer
                        model.add(Dense(150,activation='relu')) #add output
```

layer model.add(Dense(1,activation='sigmoid'))

In [10]: #configure the learning process
model.compile(loss='binary_crossentropy',optimizer="adam",metrics=["accuracy"])

In [11]: #Training the model model.fit_generator(x_train,steps_per_epoch=14,epochs=10,validation_data=x_test,validation_st

```
loss: 1.3686 - val_accuracy: 0.5950Epoch 2/10
       loss: 0.2423 - val accuracy: 0.8926Epoch 3/10
       _loss: 0.1323 - val_accuracy: 0.9669Epoch 4/10
       loss:0.1082 - val_accuracy: 0.9669Epoch 5/10
       I loss: 0.1145 - val accuracy: 0.9669Epoch 6/10
       loss: 0.1030 - val accuracy: 0.9669
        Epoch
                                  7/10
        -88s 6s/step
                                                  - loss: 0.1756
                                                               - accuracy: 0.9312
                                                                               - val
                                 ====1
        loss:
              0.0831 - val accuracy: 0.97528/10
       Epoch
        -86s 6s/step - loss: 0.1564 - accuracy: 0.9404
                                                                              - val
                                 ====1
                0.1073 - val accuracy: 0.96699/10
       Epoch
       14/14 [===============
                                       - 77s 6s/step
                                                  - loss: 0.1480
                                                              - accuracy: 0.9427
                                                                              - val
                                 ====1
               0.0754 - val_accuracy: 0.983510/10
        loss:
       ====]
       14/14
                                       - 81s 6s/step
                                                  - loss: 0.1641
                                                               - accuracy: 0.9289
                                                                               - val
         loss:
                   0.0601 - val_accuracy: 0.9835
       <keras.callbacks.History at 0x2546507bf10>
Out[11]:
       model.save("forest1.h5")
In [12]:
       #import load_model from keras.modelfrom
In [13]:
       keras.models import load_model #import
       image class from keras
       from tensorflow.keras.preprocessing import image
       #import numpy
       import numpy as np
       #import cv2 import
In [15]:
       #load the saved model
       model = load_model("forest1.h5")
       img=image.load\_img(r'C:\Users\dhine\Downloads\archive\Dataset\test\_set\with\ fire\skynx=image.img\_to\_array(img)
In [16]:
       res = cv2.resize(x, dsize=(128, 128), interpolation=cv2.INTER_CUBIC)
       #expand the image shape
       x=np.expand_dims(res,axis=0)
In [17]:
       pred=model.predict(x)
       1/1 [=======] - 5s 5s/step
       pred
```

Epoch 1/10

