## **SPRINT 4**

19.11.20	Date
PNT2022TMID208	Team ID
Emerging Methods for Early Detection of	Project Name
ForestFires	

```
In [4]: import matplotlib.pyplot as plt
import numpy as np import pandas
as pd import seaborn as sns
from sklearn import metrics from sklearn.metrics import
classification_report,confusion_matrix
```

In [6]: fires = pd.read\_csv(r"C:\Users\badari\Downloads\forestfires.csv\forestfires.csv")
#show the first 15 instance of dataset fires.head(15)

Out[6]:			ΧΥr	nonth	day	FFMC	DMC	DC		ISI tem	p RH	wind ra	in area	1
	0		75	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		74	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		86	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		86	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		86	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
0.0	<b>14</b> 6		5	se	р	wed	92.9 13	33.3 699	.6 9.2	26	.4	21	4.5	

In [7]: fires.shape

(517, 13)

Out[7]:

In [8]: #show the last 10 instances of dataset fires.tail(1!)

Out[8]:		X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	area
	502	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
	504	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()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 517 entries, 0 to 516 Data
columns (total 13 columns):

# Column Non-Null Count Dtype

<sup>0</sup> X 517 non-null int64

<sup>1</sup> Y 517 non-null int64

<sup>2</sup> month 517 non-null object

<sup>3</sup> day 517 non-null object

<sup>4</sup> FFMC 517 non-null float64 5 DMC 517 non-null float64

<sup>6</sup> DC 517 non-null float64

<sup>7</sup> ISI 517 non-null float64

<sup>8</sup> temp 517 non-null float64

<sup>9</sup> RH 517 non-null int64

<sup>10</sup> 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]:
Out[10]:

 $\#generate\ descriptive\ statistics\ of\ each\ attribute\ fires.describe().T$ 

count

X	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

```
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)
    ISI 517.0
                 9.021663
                           4.559477
                                     0.0
                                              6.5
                                                    8.40
                                                           10.80
                                                                    56.10
       517.0
               18.889168
                           5.806625
                                       2.2
                                            15.5
                                                  19.30
                                                          22.80
                                                                   33.30
temp
    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]:

Out[11]: X Y month day FFMC DMC DC ISI temp RH wind rain output

```
7
                    5
                           mar fri oct
                                          86.2
                                                 26.2
                                                        94.3
                                                                5.1
                                                                        8.2
                                                                              51
                                                                                     6.7
                                                                                           0.0
                                                                                                     0.0
                    4
                                                                       18.0
                                          90.6
                                                                              33
                                                                                                    0.0
                           tue oct sat
                                                 35.4 669.1
                                                                                     0.9
                                                                                           0.0
                                                                6.7
                    4
                           mar fri mar
                                          90.6
                                                                       14.6
                                                                              33
                                                                                     1.3
                                                                                           0.0
                                                                                                    0.0
                                                 43.7 686.9
                                                                6.7
                    6
                                                                              97
                                                                                                    0.0
                           sun
                                  aug
                                          91.7
                                                                        8.3
                                                                                     4.0
                                                                                           0.2
                                                 33.3 77.5
                                                                9.0
                    6
8
                                                                              99
                                                                                           0.0
                                                                                                    0.0
                                          89.3
                                                                       11.4
                                                                                     1.8
                           sun
                                                 51.3 102.2
                                                                9.6
                    6
                           aug
                                 mon
                                          92.3
                                                                       22.2
                                                                              29
                                                                                     5.4
                                                                                           0.0
                                                                                                    0.0
                                                 85.3 488.0 14.7
8
                                 mon
                           aug
                    6
                                                                       24.1
                                                                              27
                                                                                     3.1
                                                                                           0.0
                                                                                                    0.0
                                          92.3
                                                 88.9 495.6
                                                                8.5
                           sep
                                  tue
8
                           sep sat
                    6
                                                                        8.0
                                                                              86
                                                                                     2.2
                                                                                           0.0
                                                                                                    0.0
                                          91.5 145.4 608.2 10.7
                    6
                                                                       13.1
                                                                              63
                                                                                     5.4
                                                                                           0.0
                                                                                                    0.0
                                          91.0 129.5 692.6
                                                                7.0
                    5
                                                                       22.8
                                                                              40
                                                                                     4.0
                                                                                           0.0
                                                                                                    0.0
                                          92.5
                                                 88.0 698.6 7.1
```

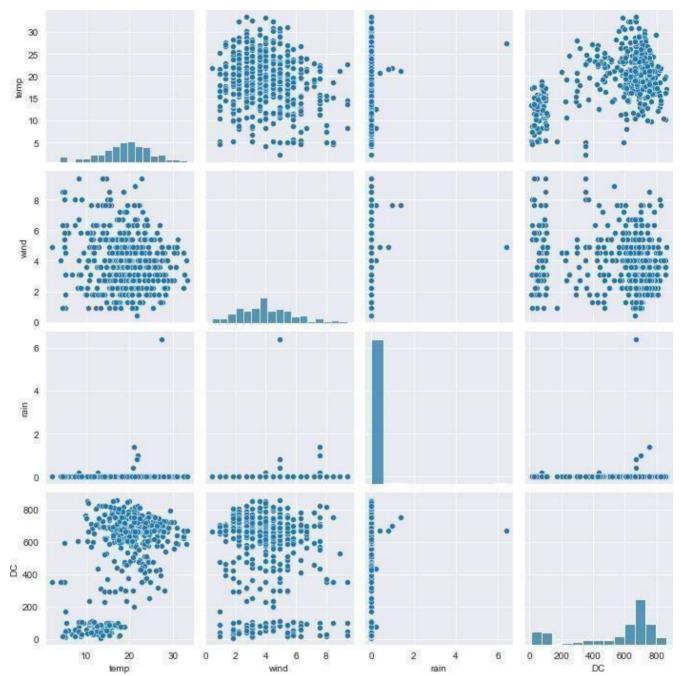
7

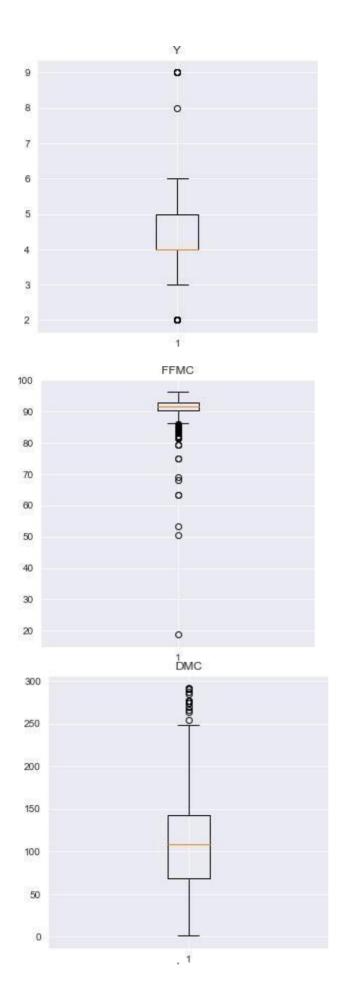
```
In [12]:
           fires.corr()
Out[12]:
                                     FFMC
                                              DMC
                                                          DC
    X
                            Y
                                                                      ISI
                                                                                temp
                                                                                           RH
                                                                                                      wind
                 X
                       1.000000 0.539548 -0.021039
                                                     -0.048384 -0.085916
                                                                            0.006210 -0.051258
                                                                                                 0.085223
                                                                                                            0.018798 0.065
                       0.539548 1.000000
                                                                  -0.10117 -0.024488
                                                                                                              -0.02034 0.033
                                          -0.046308
                                                      0.007782
                                                                                      -0.024103
                                                                                                 0.062221
              FFMC -0.021039
                               -0.046308
                                           1.000000
                                                      0.382619
                                                                0.330512
                                                                           0.531805
                                                                                      0.431532
                                                                                                -0.300995 -0.028485 0.056
              DMC -0.048384
                                0.007782
                                           0.382619
                                                      1.000000
                                                                 0.682192
                                                                            0.305128
                                                                                       0.469594
                                                                                                 0.073795
                                                                                                              -0.10534 0.074
                DC -0.085916
                              -0.101178
                                                                 1.000000
                                                                            0.229154
                                                                                                 -0.039192 -0.203466 0.035
                                          0.330512
                                                      0.682192
                                                                                      0.496208
                ISI
                       0.006210-0.024488
                                           0.531805
                                                      0.305128
                                                                 0.229154
                                                                            1.000000
                                                                                      0.394287
                                                                                                 -0.132517
                                                                                                               0.10682 0.067
              temp -0.051258 -0.024103
                                                      0.469594
                                                                0.496208
                                                                            0.394287
                                                                                      1.000000
                                                                                                 -0.527390 -0.227116 0.069
                                           0.431532
               RH
                       0.085223 0.062221
                                          -0.300995
                                                      0.073795
                                                                  -0.03919 -0.132517
                                                                                      -0.527390
                                                                                                  1.000000
                                                                                                               0.06941 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
                                                                                                               0.06111 1.000
                     0.062491 0.056892
                                           0.073823
                                                                 0.096724
                                                                            0.035663
                                                                                       0.076047 -0.035587
                                                                                                              0.055702 0.025
            output
                                                      0.062672
```

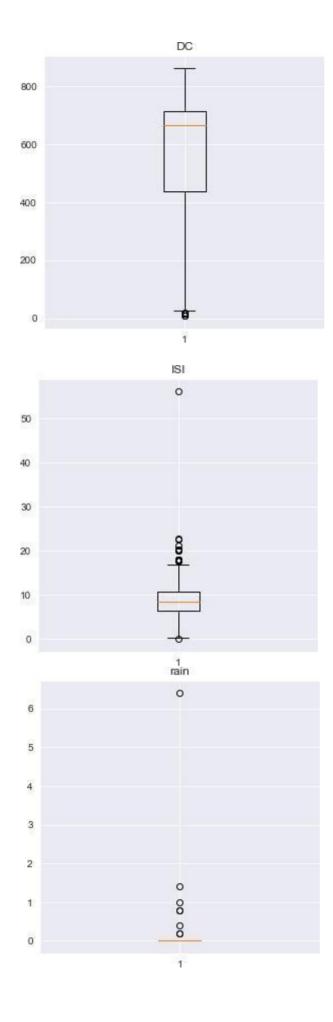
```
In [15]: numerical_feature = fires.describe(include=["int", "float"]).columns

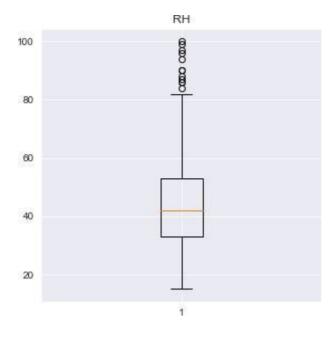
# Print it in list type ..
print(list(numerical_feature))

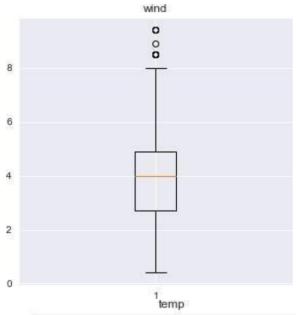
['X', 'Y', 'FFMC', 'DMC', 'DC', 'ISI', 'temp', 'RH', 'wind', 'rain', 'output']
```

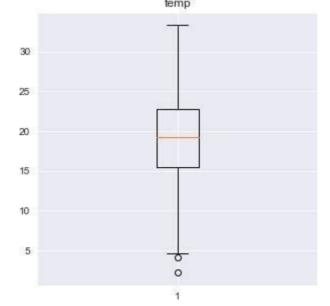


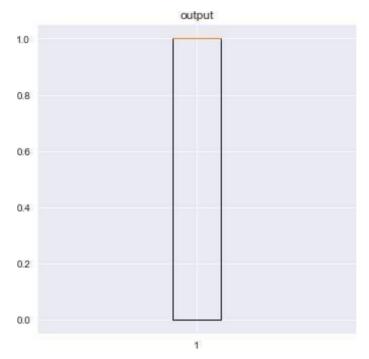












```
In [18]: plt.figure(figsize=(15, 12)) plt.title("Heatmap Relation")
    sns.heatmap(fires[numerical_feature].corr(), annot=True, fmt='.2f');
```

- 0.8

- 0.6

- 0.4

- 0.2

- 0.0

- -0.2

- -0.4

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

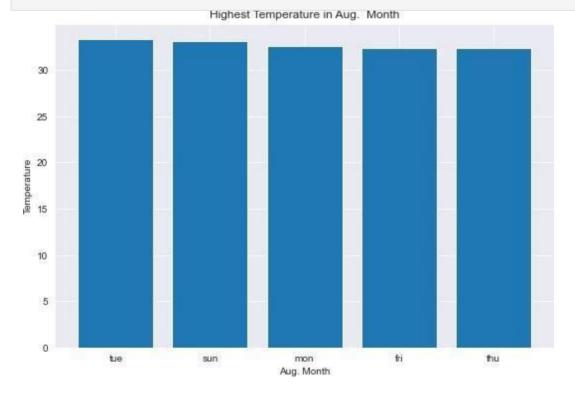
## Out[19]: month day rain

```
499
                     6.4
        aug
              tue
509
                fri
                     1.4
        aug
243
                     1.0
        aug
              sun
500
                     0.8
         aug
              tue
501
              tue
                     0.8
        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'])

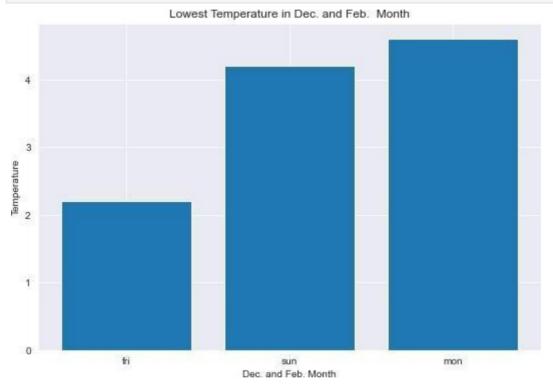
plt.xlabel("Day") plt.xlabel("Aug.
    Month")

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

		X	Υ	month	day	FFMC I	DMC	DC	ISI	temp		RH wir	nd rain	output
	<b>0</b> 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
	<b>2</b> 7		4	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
	3	В	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
	<b>4</b> 8		6	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0
	5	В	6	aug	sun	92.3	85.3	488.0	14.7	22.2	29	5.4	0.0	0.0
	<b>6</b> 8		6	aug	mon	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
	7	В	6	aug	mon	91.5	145.4	608.2	10.7	8.0	86	2.2	0.0	0.0
	<b>8</b> 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	0.8	17.0	72	6.7	0.0	0.0
	13	5	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	5	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	80.8	7.8	15.1	27	5.4	0.0	0.0
,	17	В	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	5	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
2	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

Out[22]:

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
36	6	3	oct	tue	90.6	35.4	669.1	6.7	21.7	24	4.5		0.0
35	6	3	sep	tue	90.3	80.7	730.2	6.3	18.2	62	4.5	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
33	6	3	sep	sun	91.7	75.6	718.3	7.8	17.7	39	3.6	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
31	6	3	sep	mon	88.6	91.8	709.9	7.1	11.2	78	7.6	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
29	6	3	sep	sun	93.5	149.3	728.6	8.1	22.8	39	3.6	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

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
3	<b>7</b> 7	4	oct	fri	90.0	41.5	682.6	8.7	11.3	60	5.4	0.0	0.0
38	<b>8</b> 7	3	oct	sat	90.6	43.7	686.9	6.7	17.8	27	4.0	0.0	0.0
3	<b>9</b> 4	4	mar	tue	88.1	25.7	67.6	3.8	14.1	43	2.7	0.0	0.0
4	0 4	4	jul	tue	79.5	60.6	366.7	1.5	23.3	37	3.1	0.0	0.0
4	1 4	4	aug	sat	90.2	96.9	624.2	8.9	18.4	42	6.7	0.0	0.0
4	<b>2</b> 4	4	aug	tue	94.8	108.3	647.1	17.0	16.6	54	5.4	0.0	0.0
4	<b>3</b> 4	4	sep	sat	92.5	88.0	698.6	7.1	19.6	48	2.7	0.0	0.0
4	<b>4</b> 4	4	sep	wed	90.1	82.9	735.7	6.2	12.9	74	4.9	0.0	0.0
4	<b>5</b> 5	6	sep	wed	94.3	85.1	692.3	15.9	25.9	24	4.0	0.0	0.0
4	<b>6</b> 5	6	sep	mon	90.9	126.5	686.5	7.0	14.7	70	3.6	0.0	0.0
4	<b>7</b> 6	6	jul	mon	94.2	62.3	442.9	11.0	23.0	36	3.1	0.0	0.0
4	<b>8</b> 4	4	mar	mon	87.2	23.9	64.7	4.1	11.8	35	1.8	0.0	0.0
49	<b>9</b> 4	4	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	0.0
5	0 4	4	sep	thu	92.9	137.0	706.4	9.2	20.8	17	1.3	0.0	0.0
5	1 4	3	aug	sun	90.2	99.6	631.2	6.3	21.5	34	2.2	0.0	0.0
5	<b>2</b> 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
5	<b>3</b> 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
5	<b>4</b> 4	3	aug	thu	91.7	114.3	661.3	6.3	17.6	45	3.6	0.0	0.0
5	<b>5</b> 4	3	sep	thu	92.9	137.0	706.4	9.2	27.7	24	2.2	0.0	0.0
5	<b>6</b> 4	3	sep	tue	90.3	80.7	730.2	6.3	17.8	63	4.9	0.0	0.0
5	<b>7</b> 4	3	oct	sun	92.6	46.5	691.8	8.8	13.8	50	2.7	0.0	0.0

<b>58</b> 2	2	feb	mon	84.0	9.3	34.0	2.1	13.9	40	5.4	0.0	0.0
<b>59</b> 2	2	feb	fri	86.6	13.2	43.0	5.3	12.3	51	0.9	0.0	0.0
<b>60</b> 2	2	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	0.0
<b>61</b> 2	2	mar	sun	89.3	51.3	102.2	9.6	5.5	59	6.3	0.0	0.0
<b>62</b> 2	2	aug	thu	93.0	75.3	466.6	7.7	18.8	35	4.9	0.0	0.0
<b>63</b> 2	2	aug	sun	90.2	99.6	631.2	6.3	20.8	33	2.7	0.0	0.0
<b>64</b> 2	2	aug	mon	91.1	103.2	638.8	5.8	23.1	31	3.1	0.0	0.0
<b>65</b> 2	2	aug	thu	91.7	114.3	661.3	6.3	18.6	44	4.5	0.0	0.0
<b>66</b> 2	2	sep	fri	92.4	117.9	668.0	12.2	23.0	37	4.5	0.0	0.0
<b>67</b> 2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	5.4	0.0	0.0
<b>68</b> 2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	6.3	0.0	0.0
<b>69</b> 4	5	mar	fri	91.7	33.3	77.5	9.0	17.2	26	4.5	0.0	0.0
<b>70</b> 4	5	mar	fri	91.2	48.3	97.8	12.5	15.8	27	7.6	0.0	0.0
<b>71</b> 4	5	sep	fri	94.3	85.1	692.3	15.9	17.7	37	3.6	0.0	0.0
<b>72</b> 5	4	mar	fri	91.7	33.3	77.5	9.0	15.6	25	6.3	0.0	0.0
<b>73</b> 5	4	aug	tue	88.8	147.3	614.5	9.0	17.3	43	4.5	0.0	0.0
74	54	sep	fri	93.3	141.2	713.9	13.9	27.6	30	1.3	0.0	0.0
75	99	feb	thu	84.2	6.8	26.6	7.7	6.7	79	3.1	0.0	0.0
76	99	feb	fri	86.6	13.2	43.0	5.3	15.7	43	3.1	0.0	0.0
77	13	mar	mon	87.6	52.2	103.8	5.0	8.3	72	3.1	0.0	0.0
78	12	aug	fri	90.1	108.0	529.8	12.5	14.7	66	2.7	0.0	0.0
79	12	aug	tue	91.0	121.2	561.6	7.0	21.6	19	6.7	0.0	0.0
80	12	aug	sun	91.4	142.4	601.4	10.6	19.5	39	6.3	0.0	0.0
81	12	aug	sun	90.2	99.6	631.2	6.3	17.9	44	2.2	0.0	0.0
82	12	aug	tue	94.8	108.3	647.1	17.0	18.6	51	4.5	0.0	0.0
83	12	aug	wed	92.1	111.2	654.1	9.6	16.6	47	0.9	0.0	0.0
84	12	aug	thu	91.7	114.3	661.3	6.3	20.2	45	3.6	0.0	0.0
85	12	sep	thu	92.9	137.0	706.4	9.2	21.5	15	0.9	0.0	0.0
86	12	sep	thu	92.9	137.0	706.4	9.2	25.4	27	2.2	0.0	0.0
87	12	sep	thu	92.9	137.0	706.4	9.2	22.4	34	2.2	0.0	0.0
88	12	sep	sun	93.5	149.3	728.6	8.1	25.3	36	3.6	0.0	0.0
89	65	mar	sat	91.7	35.8	80.8	7.8	17.4	25	4.9	0.0	0.0
90	65	aug	sat	90.2	96.9	624.2	8.9	14.7	59	5.8	0.0	0.0
91	86	mar	fri	91.7	35.8	80.8	7.8	17.4	24	5.4	0.0	0.0
92	86	aug	sun	92.3	85.3	488.0	14.7	20.8	32	6.3	0.0	0.0

93	86	aug	sun	91.4	142.4	601.4	10.6	18.2	43	4.9	0.0	0.0
94	86	aug	mon	91.1	103.2	638.8	5.8	23.4	22	2.7	0.0	0.0
95	44	sep	sun	89.7	90.0	704.4	4.8	17.8	64	1.3	0.0	0.0
96	34	feb	sat	83.9	8.0	30.2	2.6	12.7	48	1.8	0.0	0.0
97	34	mar	sat	69.0	2.4	15.5	0.7	17.4	24	5.4	0.0	0.0
98	34	aug	sun	91.4	142.4	601.4	10.6	11.6	87	4.5	0.0	0.0
99	34	aug	sun	91.4	142.4	601.4	10.6	19.8	39	5.4	0.0	0.0
<b>100</b> 3	4	aug	sun	91.4	142.4	601.4	10.6	19.8	39	5.4	0.0	0.0
<b>101</b> 3	4	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	0.0
<b>102</b> 2	4	aug	tue	94.8	108.3	647.1	17.0	20.1	40	4.0	0.0	0.0
<b>103</b> 2	4	sep	sat	92.5	121.1	674.4	8.6	24.1	29	4.5	0.0	0.0
<b>104</b> 2	4	jan	sat	82.1	3.7	9.3	2.9	5.3	78	3.1	0.0	0.0
<b>105</b> 4	5	mar	fri	85.9	19.5	57.3	2.8	12.7	52	6.3	0.0	0.0
<b>106</b> 4	5	mar	thu	91.4	30.7	74.3	7.5	18.2	29	3.1	0.0	0.0
<b>107</b> 4	5	aug	sun	90.2	99.6	631.2	6.3	21.4	33	3.1	0.0	0.0
<b>108</b> 4	5	sep	sat	92.5	88.0	698.6	7.1	20.3	45	3.1	0.0	0.0
<b>109</b> 4	5	sep	mon	88.6	91.8	709.9	7.1	17.4	56	5.4	0.0	0.0
<b>110</b> 4	4	mar	fri	85.9	19.5	57.3	2.8	13.7	43	5.8		0.0

									RH	wind ra	in ou	tput
<b>111</b> 3	4	mar	fri	91.7	33.3	77.5	9.0	18.8	18	4.5	0.0	0.0
<b>112</b> 3	4	sep	sun	89.7	90.0	704.4	4.8	22.8	39	3.6	0.0	0.0
<b>113</b> 3	4	sep	mon	91.8	78.5	724.3	9.2	18.9	35	2.7	0.0	0.0
<b>114</b> 3	4	mar	tue	88.1	25.7	67.6	3.8	15.8	27	7.6	0.0	0.0
<b>115</b> 3	5	mar	tue	88.1	25.7	67.6	3.8	15.5	27	6.3	0.0	0.0
<b>116</b> 3	4	mar	sat	91.7	35.8	80.8	7.8	11.6	30	6.3	0.0	0.0
<b>117</b> 3	4	mar	cat	91.7	35.8	80.8	7.8	15.2	27	4.9	0.0	0.0
<b>117</b> 3 <b>118</b> 3	4	mar mar	sat mon	90.1	39.7	86.6	6.2	10.6	30	4.9	0.0	0.0
<b>119</b> 3 <b>120</b> 3	4	aug	thu mon	93.0 91.5	75.3 145.4	466.6 608.2	7.7 10.7	19.6 10.3	36 74	3.1 2.2	0.0	0.0
120 5	4	aug	mon	91.5	145.4	000.2	10.7	10.5	74	2.2	0.0	0.0
<b>121</b> 3	4	aug	mon	91.5	145.4	608.2	10.7	17.1	43	5.4	0.0	0.0
<b>122</b> 3	4	sep	sun	92.4	124.1	680.7	8.5	22.5	42	5.4	0.0	0.0
<b>123</b> 3	4	sep	tue	84.4	73.4	671.9	3.2	17.9	45	3.1	0.0	0.0
<b>124</b> 3	4	sep	fri	94.3	85.1	692.3	15.9	19.8	50	5.4	0.0	0.0
<b>125</b> 3	4	oct	sun	92.6	46.5	691.8	8.8	20.6	24	5.4	0.0	0.0
<b>126</b> 3	5	mar	mon	87.6	52.2	103.8	5.0	9.0	49	2.2	0.0	0.0
<b>127</b> 3	5	sep	fri	93.5	149.3	728.6	8.1	17.2	43	3.1	0.0	0.0
<b>128</b> 3	5	oct	wed	91.4	37.9	673.8	5.2	15.9	46	3.6	0.0	0.0
<b>129</b> 2	5	oct	sun	92.6	46.5	691.8	8.8	15.4	35	0.9	0.0	0.0
<b>130</b> 4	6	feb	sat	68.2	21.5	87.2	0.8	15.4	40	2.7	0.0	0.0
<b>131</b> 4	6	mar	mon	87.2	23.9	64.7	4.1	14.0	39	3.1	0.0	0.0
<b>132</b> 4	6	mar	sun	89.3	51.3	102.2	9.6	10.6	46	4.9	0.0	0.0
<b>133</b> 4	C		<b>4</b> la	02.7	00.0	COF 2	17.0	17.6	42	2.1	0.0	0.0
<b>133</b> 4	6 5	sep mar	thu tue	93.7 88.1	80.9 25.7	685.2 67.6	17.9 3.8	17.6 14.9	42 38	3.1 2.7	0.0	0.0
<b>135</b> 3	5	aug	sat	93.5	139.4	594.2	20.3	17.6	52	5.8	0.0	0.0
<b>136</b> 3	6	sep	sun	92.4	124.1	680.7	8.5	17.2	58	1.3	0.0	0.0
	Ŭ	SCP	Jan	J		000.1	3.3		50	1.5	0.0	0.0
<b>137</b> 3	6	sep	mon	90.9	126.5	686.5	7.0	15.6	66	3.1	0.0	0.0
<b>138</b> 9	9	jul	tue	85.8	48.3	313.4	3.9	18.0	42	2.7	0.0	1.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp				
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
		_			0.7.0	10.1 -			a				
145 146		5	aug mar	thu	95.2 90.1	131.7 39.7	578.8 86.6	10.4	27.4 13.2	22 40	4.0 5.4	0.0	1.0 1.0
140	,		mai	111011	30.1	33.1							
147 148		3	sep aug	tue tue	84.4 94.8	73.4 108.3	671.9 647.1	3.2 17.0	24.2 17.4	28 43	3.6 6.7	0.0	1.0 1.0
149		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

<b>174</b> 1	4	aug	sat	90.2	96.9	624.2	8.9	14.2	53	1.8	0.0	1.0
<b>175</b> 1	4	aug	sat	90.2	96.9	624.2	8.9	20.3	39	4.9	0.0	1.0
<b>176</b> 6	5	apr	thu	81.5	9.1	55.2	2.7	5.8	54	5.8	0.0	1.0
<b>177</b> 2	5	aug	sun	90.2	99.6	631.2	6.3	19.2	44	2.7	0.0	1.0
<b>178</b> 2	5	sep	wed	90.1	82.9	735.7	6.2	18.3	45	2.2	0.0	1.0
<b>179</b> 8	6	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	1.0
<b>180</b> 1	3	sep	sun	92.4	124.1	680.7	8.5	23.9	32	6.7	0.0	1.0
<b>181</b> 8	6	oct	mon	84.9	32.8	664.2	3.0	19.1	32	4.0	0.0	1.0
<b>182</b> 5	4	feb	sun	86.8	15.6	48.3	3.9	12.4	53	2.2	0.0	1.0
<b>183</b> 7	4	oct	mon	91.7	48.5	696.1	11.1	16.8	45	4.5	0.0	1.0
184	8 4.9	6 1.0	au <b>RH win</b>	_	ri <b>outpu</b>	93.9 <b>t</b>	135.7	586.	7 1	5.1	20.8	34
<b>185</b> 2	5	sep	tue	91.0	129.5	692.6	7.0	17.6	46	3.1	0.0	1.0
<b>186</b> 8	6	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	1.0
<b>187</b> 1	5	sep	mon	90.9	126.5	686.5	7.0	21.0	42	2.2	0.0	1.0
<b>188</b> 6	4	mar	sat	90.8	41.9	89.4	7.9	13.3	42	0.9	0.0	1.0
<b>189</b> 7	4	mar	sun	90.7	44.0	92.4	5.5	11.5	60	4.0	0.0	1.0
<b>190</b> 6	5	mar	fri	91.2	48.3	97.8	12.5	11.7	33	4.0	0.0	1.0
<b>191</b> 2	5	aug	thu	95.2	131.7	578.8	10.4	24.2	28	2.7	0.0	1.0
<b>192</b> 2	2	aug	tue	94.8	108.3	647.1	17.0	24.6	22	4.5	0.0	1.0
<b>193</b> 4	5	sep	wed	92 9	133 3	699.6	92	24.3	25	4.0	0.0	1.0
<b>194</b> 2	2	aug	tue	94.8	108.3		17.0	24.6	22	4.5	0.0	1.0
<b>195</b> 2	5	aug	fri	93.9	135.7	586.7	15.1	23.5	36	5.4	0.0	1.0
<b>195</b> 2	5	aug	thu	81.5	9.1	55.2	2.7	5.8	54	5.8	0.0	1.0
		- 1-										
<b>197</b> 4	5	sep	thu	92.9	137.0	706.4	9.2	21.5	15	0.9	0.0	1.0
<b>198</b> 3	4	sep	tue	91.0	129.5	692.6	7.0	13.9	59	6.3	0.0	1.0
<b>199</b> 2	4	sep	mon	63.5	70.8	665.3	0.8	22.6	38	3.6	0.0	1.0
<b>200</b> 1	5	sep	tue	91.0	129.5	692.6	7.0	21.6	33	2.2	0.0	1.0
<b>201</b> 6	5	mar	sun	90.1	37.6	83.7	7.2	12.4	54	3.6	0.0	1.0
<b>202</b> 7	4	feb	sun	83.9	8.7	32.1	2.1	8.8	68	2.2	0.0	1.0
<b>203</b> 8	6	oct	wed	91.4	37.9	673.8	5.2	20.2	37	2.7	0.0	1.0
<b>204</b> 5	6	mar	sat	90.6	50.1	100.4	7.8	15.1	64	4.0	0.0	1.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp				
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

х	Y	month	day	FFMC	DMC	DC	ISI	temp	R	H wind	l rain	output
<b>222</b> 4	3	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	1.0
<b>223</b> 2	2	jul	fri	88.3	150.3	309.9	6.8	13.4	79	3.6	0.0	1.0
<b>224</b> 7	4	sep	wed	90.1	82.9	735.7	6.2	15.4	57	4.5	0.0	1.0
<b>225</b> 4	4	sep	sun	93.5	149.3	728.6	8.1	22.9	39	4.9	0.0	1.0
<b>226</b> 7	5	oct	mon	91.7	48.5	696.1	11.1	16.1	44	4.0	0.0	1.0
<b>227</b> 8	6	aug	sat	92.2	81.8	480.8	11.9	20.1	34	4.5	0.0	1.0
<b>228</b> 4	6	sep	sun	93.5	149.3	728.6	8.1	28.3	26	3.1	0.0	1.0
<b>229</b> 8	6	aug	sat	92.2	81.8	480.8	11.9	16.4	43	4.0	0.0	1.0
<b>230</b> 4	4	sep	wed	92.9	133.3	699.6	9.2	26.4	21	4.5	0.0	1.0
<b>231</b> 1	5	sep	sun	93.5	149.3	728.6	8.1	27.8	27	3.1	0.0	1.0
<b>232</b> 6	4	sep	tue	91.0	129.5	692.6	7.0	18.7	43	2.7	0.0	1.0
<b>233</b> 9	4	sep	tue	84.4	73.4	671.9	3.2	24.3	36	3.1	0.0	1.0
<b>234</b> 4	5	sep	sat	92.5	121.1	674.4	8.6	17.7	25	3.1	0.0	1.0
<b>235</b> 8	6	aug	sun	91.4	142.4	601.4	10.6	19.6	41	5.8	0.0	1.0
<b>236</b> 2	2	sep	sat	92.5	121.1	674.4	8.6	18.2	46	1.8	0.0	1.0
<b>237</b> 1	2	sep	tue	91.0	129.5	692.6	7.0	18.8	40	2.2	0.0	1.0
<b>238</b> 6	5	sep	sat	92.5	121.1	674.4	8.6	25.1	27	4.0	0.0	1.0
<b>239</b> 7	5	apr	sun	81.9	3.0	7.9	3.5	13.4	75	1.8	0.0	0.0
<b>240</b> 6	3	apr	wed	88.0	17.2	43.5	3.8	15.2	51	2.7	0.0	0.0
<b>241</b> 4	4	apr	fri	83.0	23.3	85.3	2.3	16.7	20	3.1	0.0	0.0
<b>242</b> 2	4	aug	sun	94.2	122.3	589.9	12.9	15.4	66	4.0	0.0	1.0
<b>243</b> 7	4	aug	sun	91.8	175.1	700.7	13.8	21.9	73	7.6	1.0	0.0
<b>244</b> 2	4	aug	sun	91.8	175.1	700.7	13.8	22.4	54	7.6	0.0	1.0
<b>245</b> 3	4	aug	sun	91.8	175.1	700.7	13.8	26.8	38	6.3	0.0	1.0
<b>246</b> 5	4	aug	sun	91.8	175.1	700.7	13.8	25.7	39	5.4	0.0	1.0
<b>247</b> 2	4	aug	wed	92.2	91.6	503.6	9.6	20.7	70	2.2	0.0	1.0
<b>248</b> 8	6	aug	wed	93.1	157.3	666.7	13.5	28.7	28	2.7	0.0	0.0

sat 0.0

х	Y	month	day	FFMC	DMC	DC	ISI	temp	R	H wind	l rain	output
<b>249</b> 3	4	aug	wed	93.1	157.3	666.7	13.5	21.7	40	0.4	0.0	1.0
<b>250</b> 8	5	aug	wed	93.1	157.3	666.7	13.5	26.8	25	3.1	0.0	1.0
<b>251</b> 8	5	aug	wed	93.1	157.3	666.7	13.5	24.0	36	3.1	0.0	1.0
<b>252</b> 6	5	aug	wed	93.1	157.3	666.7	13.5	22.1	37	3.6	0.0	1.0
<b>253</b> 7	4	aug	thu	91.9	109.2	565.5	8.0	21.4	38	2.7	0.0	1.0
<b>254</b> 6	3	aug	thu	91.6	138.1	621.7	6.3	18.9	41	3.1	0.0	1.0
<b>255</b> 2	5	aug	thu	87.5	77.0	694.8	5.0	22.3	46	4.0	0.0	0.0
<b>256</b> 8	6	aug	sat	94.2	117.2	581.1	11.0	23.9	41	2.2	0.0	1.0
<b>257</b> 4	3	aug	sat	94.2	117.2	581.1	11.0	21.4	44	2.7	0.0	1.0
<b>258</b> 3	4	aug		91.8	170.9	692.3	13.7	20.6	59	0.9		0.0
<b>259</b> 7	4	aug	sat	91.8	170.9	692.3	13.7	23.7	40	1.8	0.0	1.0
<b>260</b> 2	4	aug	mon	93.6	97.9	542.0	14.4	28.3	32	4.0	0.0	1.0
<b>261</b> 3	4	aug	fri	91.6	112.4	573.0	8.9	11.2	84	7.6	0.0	1.0
<b>262</b> 2	4	aug	fri	91.6	112.4	573.0	8.9	21.4	42	3.1	0.0	1.0
<b>263</b> 6	3	aug	fri	91.1	141.1	629.1	7.1	19.3	39	3.6	0.0	1.0
<b>264</b> 4	4	aug	fri	94.3	167.6	684.4	13.0	21.8	53	3.1	0.0	1.0
<b>265</b> 4	4	aug	tue	93.7	102.2	550.3	14.6	22.1	54	7.6	0.0	1.0
<b>266</b> 6	5	aug	tue	94.3	131.7	607.1	22.7	19.4	55	4.0	0.0	1.0
<b>267</b> 2	2	aug	tue	92.1	152.6	658.2	14.3	23.7	24	3.1	0.0	0.0
<b>268</b> 3	4	aug	tue	92.1	152.6	658.2	14.3	21.0	32	3.1	0.0	0.0
<b>269</b> 4	4	aug	tue	92.1	152.6	658.2	14.3	19.1	53	2.7	0.0	1.0
<b>270</b> 2	2	aug	tue	92.1	152.6	658.2	14.3	21.8	56	3.1	0.0	1.0
<b>271</b> 8	6	aug	tue	92.1	152.6	658.2	14.3	20.1	58	4.5	0.0	1.0
<b>272</b> 2	5	aug	tue	92.1	152.6	658.2	14.3	20.2	47	4.0	0.0	1.0
<b>273</b> 4	6	dec	sun	84.4	27.2	353.5	6.8	4.8	57	8.5	0.0	1.0
<b>274</b> 8	6	dec	wed	84.0	27.8	354.6	5.3	5.1	61	8.0	0.0	1.0
<b>275</b> 4	6	dec	thu	84.6	26.4	352.0	2.0	5.1	61	4.9	0.0	1.0

X	Y	month	day	FFMC	DMC	DC	ISI	temp	R	RH wind	l rain	output
<b>276</b> 4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
<b>277</b> 3	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
<b>278</b> 4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
<b>279</b> 4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
<b>280</b> 4	6	dec	fri	84.7	26.7	352.6	4.1	2.2	59	4.9	0.0	1.0
<b>281</b> 6	5	dec	tue	85.4	25.4	349.7	2.6	5.1	24	8.5	0.0	1.0
<b>282</b> 6	3	feb	sun	84.9	27.5	353.5	3.4	4.2	51	4.0	0.0	0.0
<b>283</b> 3	4	feb	wed	86.9	6.6	18.7	3.2	8.8	35	3.1	0.0	1.0
<b>284</b> 5	4	feb	fri	85.2	4.9	15.8	6.3	7.5	46	8.0	0.0	1.0
<b>285</b> 2	5	jul	sun	93.9	169.7	411.8	12.3	23.4	40	6.3	0.0	0.0
<b>286</b> 7	6	jul	wed	91.2	183.1	437.7	12.5	12.6	90	7.6	0.2	0.0
<b>287</b> 7	4	jul	sat	91.6	104.2	474.9	9.0	22.1	49	2.7	0.0	0.0
<b>288</b> 7	4	jul	sat	91.6	104.2	474.9	9.0	24.2	32	1.8	0.0	0.0
<b>289</b> 7	4	jul	sat	91.6	104.2	474.9	9.0	24.3	30	1.8	0.0	0.0
<b>290</b> 2	5	jul	sat	91.6	104.2	474.9	9.0	18.7	53	1.8	0.0	0.0
<b>291</b> 9	4	jul	sat	91.6	104.2	474.9	9.0	25.3	39	0.9	0.0	1.0
<b>292</b> 4	5	jul	fri	91.6	100.2	466.3	6.3	22.9	40	1.3	0.0	1.0
<b>293</b> 7	6	jul	tue	93.1	180.4	430.8	11.0	26.9	28	5.4	0.0	1.0
<b>294</b> 8	6	jul	tue	92.3	88.8	440.9	8.5	17.1	67	3.6	0.0	1.0
<b>295</b> 7	5	jun	sun	93.1	180.4	430.8	11.0	22.2	48	1.3	0.0	0.0
<b>296</b> 6	4	jun	sun	90.4	89.5	290.8	6.4	14.3	46	1.8	0.0	1.0
<b>297</b> 8	6	jun	sun	90.4	89.5	290.8	6.4	15.4	45	2.2	0.0	0.0
<b>298</b> 8	6	jun	wed	91.2	147.8	377.2	12.7	19.6	43	4.9	0.0	0.0
<b>299</b> 6	5	jun	sat	53.4	71.0	233.8	0.4	10.6	90	2.7	0.0	0.0
<b>300</b> 6	5	jun	mon	90.4	93.3	298.1	7.5	20.7	25	4.9	0.0	0.0
<b>301</b> 6	5	jun	mon	90.4	93.3	298.1	7.5	19.1	39	5.4	0.0	1.0
<b>302</b> 3	6	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0

sat 0.0 1.0

Х	Y	month	day	FFMC	DMC	DC	ISI	temp	R	H wind	l rain	output
<b>303</b> 3	6	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0
<b>304</b> 6	5	may	sat	85.1	28.0	113.8	3.5	11.3	94	4.9	0.0	0.0
<b>305</b> 1	4	sep	sun	89.6	84.1	714.3	5.7	19.0	52	2.2	0.0	0.0
<b>306</b> 7	4	sep	sun	89.6	84.1	714.3	5.7	17.1	53	5.4	0.0	1.0
<b>307</b> 3	4	sep	sun	89.6	84.1	714.3	5.7	23.8	35	3.6	0.0	1.0
<b>308</b> 2	4	sep	sun	92.4	105.8	758.1	9.9	16.0	45	1.8	0.0	0.0
<b>309</b> 2	4	sep	sun	92.4	105.8	758.1	9.9	24.9	27	2.2	0.0	0.0
<b>310</b> 7	4	sep	sun	92.4	105.8	758.1	9.9	25.3	27	2.7	0.0	0.0
<b>311</b> 6	3	sep	sun	92.4	105.8	758.1	9.9	24.8	28	1.8	0.0	1.0
<b>312</b> 2	4	sep	sun	50.4	46.2	706.6	0.4	12.2	78	6.3	0.0	0.0
<b>313</b> 6	5	sep	wed	92.6	115.4	777.1	8.8	24.3	27	4.9	0.0	0.0
<b>314</b> 4	4	sep	wed	92.6	115.4	777.1	8.8	19.7	41	1.8	0.0	1.0
<b>315</b> 3	4	sep	wed	91.2	134.7	817.5	7.2	18.5	30	2.7	0.0	0.0
<b>316</b> 4	5	sep	thu	92.4	96.2	739.4	8.6	18.6	24	5.8	0.0	0.0
<b>317</b> 4	4	sep	thu	92.4	96.2	739.4	8.6	19.2	24	4.9	0.0	1.0
<b>318</b> 6	5	sep	thu	92.8	119.0	783.5	7.5	21.6	27	2.2	0.0	0.0
<b>319</b> 5	4	sep	thu	92.8	119.0	783.5	7.5	21.6	28	6.3	0.0	1.0
<b>320</b> 6	3	sep	thu	92.8	119.0	783.5	7.5	18.9	34	7.2	0.0	1.0
<b>321</b> 1	4	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
<b>322</b> 6	5	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
<b>323</b> 3	5	sep	thu	90.7	136.9	822.8	6.8	12.9	39	2.7	0.0	1.0
<b>324</b> 6	5	sep	thu	88.1	53.3	726.9	5.4	13.7	56	1.8	0.0	1.0
<b>325</b> 1	4	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	0.0
<b>326</b> 5	4	sep	sat	92.2	102.3	751.5	8.4	24.1	27	3.1	0.0	0.0
<b>327</b> 6	5	sep	sat	92.2	102.3	751.5	8.4	21.2	32	2.2	0.0	0.0
<b>328</b> 6	5	sep	sat	92.2	102.3	751.5	8.4	19.7	35	1.8	0.0	0.0
<b>329</b> 4	3	sep	sat	92.2	102.3	751.5	8.4	23.5	27	4.0	0.0	1.0

X	Y	month	day	FFMC	DMC	DC	ISI	temp	R	RH wind	l rain	output
<b>330</b> 3	3	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	1.0
<b>331</b> 7	4	sep	sat	91.2	124.4	795.3	8.5	21.5	28	4.5	0.0	1.0
<b>332</b> 4	4	sep		91.2	124.4	795.3	8.5	17.1	41	2.2		
<b>333</b> 1	4	sep	mon	92.1	87.7	721.1	9.5	18.1	54	3.1	0.0	1.0
<b>334</b> 2	3	sep	mon	91.6	108.4	764.0	6.2	18.0	51	5.4	0.0	0.0
<b>335</b> 4	3	sep	mon	91.6	108.4	764.0	6.2	9.8	86	1.8	0.0	0.0
<b>336</b> 7	4	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	0.0
<b>337</b> 6	3	sep	mon	91.6	108.4	764.0	6.2	23.0	34	2.2	0.0	1.0
<b>338</b> 8	6	sep	mon	91.6	108.4	764.0	6.2	22.7	35	2.2	0.0	1.0
<b>339</b> 2	4	sep	mon	91.6	108.4	764.0	6.2	20.4	41	1.8	0.0	1.0
<b>340</b> 2	5	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	1.0
<b>341</b> 8	6	sep	mon	91.9	111.7	770.3	6.5	15.7	51	2.2	0.0	0.0
<b>342</b> 6	3	sep	mon	91.5	130.1	807.1	7.5	20.6	37	1.8	0.0	0.0
<b>343</b> 8	6	sep	mon	91.5	130.1	807.1	7.5	15.9	51	4.5	0.0	1.0
<b>344</b> 6	3	sep	mon	91.5	130.1	807.1	7.5	12.2	66	4.9	0.0	1.0
<b>345</b> 2	2	sep	mon	91.5	130.1	807.1	7.5	16.8	43	3.1	0.0	1.0
<b>346</b> 1	4	sep	mon	91.5	130.1	807.1	7.5	21.3	35	2.2	0.0	1.0
<b>347</b> 5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	0.0
<b>348</b> 3	4	sep	fri	92.1	99.0	745.3	9.6	17.4	57	4.5	0.0	0.0
<b>349</b> 5	4	sep	fri	92.1	99.0	745.3	9.6	12.8	64	3.6	0.0	1.0
<b>350</b> 5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	1.0
<b>351</b> 4	4	sep	fri	92.1	99.0	745.3	9.6	15.4	53	6.3	0.0	1.0
<b>352</b> 7	4	sep	fri	92.1	99.0	745.3	9.6	20.6	43	3.6	0.0	1.0
<b>353</b> 7	4	sep	fri	92.1	99.0	745.3	9.6	19.8	47	2.7	0.0	1.0
<b>354</b> 7	4	sep	fri	92.1	99.0	745.3	9.6	18.7	50	2.2	0.0	1.0
<b>355</b> 4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0
<b>356</b> 4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0

sat 0.0 1.0

Х	Y	month	day	FFMC	DMC	DC	ISI	temp	R	H wind	l rain	output
<b>357</b> 6	3	sep	fri	92.5	122.0	789.7	10.2	15.9	55	3.6	0.0	0.0
<b>358</b> 6	3	sep	fri	92.5	122.0	789.7	10.2	19.7	39	2.7	0.0	0.0
<b>359</b> 1	4	sep	fri	92.5	122.0	789.7	10.2	21.1	39	2.2	0.0	1.0
<b>360</b> 6	5	sep	fri	92.5	122.0	789.7	10.2	18.4	42	2.2	0.0	1.0
<b>361</b> 4	3	sep	fri	92.5	122.0	789.7	10.2	17.3	45	4.0	0.0	1.0
<b>362</b> 7	4	sep	fri	88.2	55.2	732.3	11.6	15.2	64	3.1	0.0	1.0
<b>363</b> 4	3	sep	tue	91.9	111.7	770.3	6.5	15.9	53	2.2	0.0	1.0
<b>364</b> 6	5	sep	tue	91.9	111.7	770.3	6.5	21.1	35	2.7	0.0	1.0
<b>365</b> 6	5	sep	tue	91.9	111.7	770.3	6.5	19.6	45	3.1	0.0	1.0
<b>366</b> 4	5	sep	tue	91.1	132.3	812.1	12.5	15.9	38	5.4	0.0	1.0
<b>367</b> 4	5	sep	tue	91.1	132.3	812.1	12.5	16.4	27	3.6	0.0	0.0
<b>368</b> 6	5	sep	sat	91.2	94.3	744.4	8.4	16.8	47	4.9	0.0	1.0
<b>369</b> 4	5	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	0.0

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	13	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

DMC

day FFMC

month

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ww in idn drair naion ut pout put

DC

ISI temp

RH

sat 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	12	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		87.1	291.3 8	360.6	4.0	17.0	67	4.9	0.0	
<b>407</b> 4	5	feb	sat	84.7	8.2	55.0	2.9	14.2	46	4.0	0.0	0.0
<b>408</b> 4	3	sep	fri	90.3	290.0	855.3	7.4	19.9	44	3.1	0.0	1.0
<b>409</b> 1	4	jul	tue	92.3	96.2	450.2	12.1	23.4	31	5.4	0.0	0.0
<b>410</b> 6	3	feb	fri	84.1	7.3	52.8	2.7	14.7	42	2.7	0.0	0.0
<b>411</b> 7	4	feb	fri	84.6	3.2	43.6	3.3	8.2	53	9.4	0.0	1.0
<b>412</b> 9	4	jul	mon	92.3	92.1	442.1	9.8	22.8	27	4.5	0.0	1.0
<b>413</b> 7	5	aug	sat	93.7	231.1	715.1	8.4	26.4	33	3.6	0.0	0.0
<b>414</b> 5	4	aug	sun	93.6	235.1	723.1	10.1	24.1	50	4.0	0.0	0.0
<b>415</b> 8	6	aug	thu	94.8	222.4	698.6	13.9	27.5	27	4.9	0.0	1.0
<b>416</b> 6	3	jul	tue	92.7	164.1	575.8	8.9	26.3	39	3.1	0.0	1.0
<b>417</b> 6	5	mar	wed	93.4	17.3	28.3	9.9	13.8	24	5.8	0.0	0.0
<b>418</b> 2	4	aug	sun	92.0	203.2	664.5	8.1	24.9	42	5.4	0.0	1.0
<b>419</b> 2	5	aug	sun	91.6	181.3	613.0	7.6	24.8	36	4.0	0.0	1.0
<b>420</b> 8	8	aug	wed	91.7	191.4	635.9	7.8	26.2	36	4.5	0.0	1.0
<b>421</b> 2	4	aug	wed	95.2	217.7	690.0	18.0	30.8	19	4.5	0.0	0.0
<b>422</b> 8	6	jul	sun	88.9	263.1	795.9	5.2	29.3	27	3.6	0.0	1.0

	<b>423</b> 1	3	sep	sat	91.2	94.3	744.4	8.4	22.3	48	4.0	0.0	1.0
	<b>424</b> 8	6	aug	sat	93.7	231.1	715.1	8.4	26.9	31	3.6	0.0	1.0
	<b>425</b> 2	2	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
	<b>426</b> 8	6	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
	<b>427</b> 2	4	aug	mon	92.1	207.0	672.6	8.2	27.9	33	2.2	0.0	1.0
	<b>428</b> 1	3	aug	thu	94.8	222.4	698.6	13.9	26.2	34	5.8	0.0	0.0
	<b>429</b> 3	4	aug	sun	91.6	181.3	613.0	7.6	24.6	44	4.0	0.0	1.0
	<b>430</b> 7	4	sep	thu	89.7	287.2	849.3	6.8	19.4	45	3.6	0.0	0.0
	<b>431</b> 1	3	aug	sat	92.1	178.0	605.3	9.6	23.3	40	4.0	0.0	1.0
	<b>432</b> 8	6	aug	thu	94.8	222.4	698.6	13.9	23.9	38	6.7	0.0	0.0
	<b>433</b> 2	4	aug	sun	93.6	235.1	723.1	10.1	20.9	66	4.9	0.0	1.0
	<b>434</b> 1	4	aug	fri	90.6	269.8	811.2	5.5	22.2	45	3.6	0.0	0.0
	<b>435</b> 2	5	jul	sat	90.8	84.7	376.6	5.6	23.8	51	1.8	0.0	0.0
	<b>436</b> 8	6	aug	mon	92.1	207.0	672.6	8.2	26.8	35	1.3	0.0	1.0
	<b>437</b> 8	6	aug	sat	89.4	253.6	768.4	9.7	14.2	73	2.7	0.0	0.0
	<b>438</b> 2	5	aug	sat	93.7	231.1	715.1	8.4	23.6	53	4.0	0.0	1.0
	<b>439</b> 1	3	sep	fri	91.1	91.3	738.1	7.2	19.1	46	2.2	0.0	1.0
	<b>440</b> 5	4	sep	fri	90.3	290.0	855.3	7.4	16.2	58	3.6	0.0	0.0
	<b>441</b> 8	6	aug	mon	92.1	207.0	672.6	8.2	25.5	29	1.8	0.0	1.0
	<b>442</b> 6	5	apr	mon	87.9	24.9	41.6	3.7	10.9	64	3.1	0.0	1.0
	<b>443</b> 1	2	jul	fri	90.7	80.9	368.3	16.8	14.8	78	8.0	0.0	0.0
wwinidndrairn			month	day	FFMC	DMC	DC	ISI	temp				RH
	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	14	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	24	aug	thu	91.6	248.4	753.8	6.3	16.6	59	2.7	0.0	0.0
457	14	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	14	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	22	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	83	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	43	jul	thu	93.5	85.3	395.0	9.9	27.2	28	1.3	0.0	1.0
477	43	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 <b>X Y</b>	jul <b>month</b>	thu <b>day</b>	93.2 <b>FFMC</b>	114.4 5 <b>DMC</b>	560.0 <b>DC</b>	9.5 <b>IS</b> I	30.2 <b>temp</b>	25	4.5 <b>RH wir</b>	0.0	output
48	<b>1</b> 4 3	jul	thu	93.2	114.4	560.0	9.5	30.2	22	4.9	0.0	0.0
482	<b>2</b> 3 4	aug	sun	94.9	130.3	587.1	14.1	23.4	40	5.8	0.0	1.0
483	<b>3</b> 86	aug	sun	94.9	130.3	587.1	14.1	31.0	27	5.4	0.0	0.0
484	<b>4</b> 2 5	aug	sun	94.9	130.3	587.1	14.1	33.1	25	4.0	0.0	1.0
48!	<b>5</b> 2 4	aug	mon	95.0	135.5	596.3	21.3	30.6	28	3.6	0.0	1.0
480	<b>6</b> 5 4	aug	tue	95.1	141.3	605.8	17.7	24.1	43	6.3	0.0	1.0
487	<b>7</b> 5 4	aug	tue	95.1	141.3	605.8	17.7	26.4	34	3.6	0.0	1.0
488	844	aug	tue	95.1	141.3	605.8	17.7	19.4	71	7.6	0.0	1.0
489	<b>9</b> 4 4	aug	wed	95.1	141.3	605.8	17.7	20.6	58	1.3	0.0	0.0
490	044	aug	wed	95.1	141.3	605.8	17.7	28.7	33	4.0	0.0	0.0
49	<b>1</b> 4 4	aug	thu	95.8	152.0	624.1	13.8	32.4	21	4.5	0.0	0.0
492	<b>2</b> 1 3	aug	fri	95.9	158.0	633.6	11.3	32.4	27	2.2	0.0	0.0
493	<b>3</b> 1 3	aug	fri	95.9	158.0	633.6	11.3	27.5	29	4.5	0.0	1.0
494	<b>4</b> 6 6	aug	sat	96.0	164.0	643.0	14.0	30.8	30	4.9	0.0	1.0
49	<b>5</b> 6 6	aug	mon	96.2	175.5	661.8	16.8	23.9	42	2.2	0.0	0.0
490	<b>6</b> 4 5	aug	mon	96.2	175.5	661.8	16.8	32.6	26	3.1	0.0	1.0
497	<b>7</b> 34	aug	tue	96.1	181.1	671.2	14.3	32.3	27	2.2	0.0	1.0
498	<b>8</b> 6 5	aug	tue	96.1	181.1	671.2	14.3	33.3	26	2.7	0.0	1.0
499	<b>9</b> 7 5	aug	tue	96.1	181.1	671.2	14.3	27.3	63	4.9	6.4	1.0
500	<b>0</b> 86	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	0.8	0.0
50	<b>1</b> 7 5	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	0.8	0.0
502	<b>2</b> 4 4	aug	tue	96.1	181.1	671.2	14.3	20.7	69	4.9	0.4	0.0

	<b>503</b> 2	4	aug	wed	94.5	139.4	689.1	20.0	29.2	30	4.9	0.0	1.0
	<b>504</b> 4	3	aug	wed	94.5	139.4	689.1	20.0	28.9	29	4.9	0.0	1.0
	<b>505</b> 1	2	aug	thu	91.0	163.2	744.4	10.1	26.7	35	1.8	0.0	1.0
	<b>506</b> 1	2	aug	fri	91.0	166.9	752.6	7.1	18.5	73	8.5	0.0	0.0
	<b>507</b> 2	4	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.0
	<b>508</b> 1	2	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.0
	<b>509</b> 5	4	aug	fri	91.0	166.9	752.6	7.1	21.1	71	7.6	1.4	1.0
	<b>510</b> 6	5	aug	fri	91.0	166.9	752.6	7.1	18.2	62	5.4	0.0	1.0
	<b>511</b> 8	6	aug	sun	81.6	56.7	665.6	1.9	27.8	35	2.7	0.0	0.0
	<b>512</b> 4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	1.0
	<b>513</b> 2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	1.0
	<b>514</b> 7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	1.0
	<b>515</b> 1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.0
	<b>516</b> 6	3	nov	tue	79.5	3.0	106.7	1.1	11.8	31	4.5	0.0	0.0

In [ ]:

## In [1]: **import** keras **from** keras.preprocessing.image **import** ImageDataGenerator

In [2]: #Define the parameters/arguments for ImageDataGenerator class train\_datagen=ImageDataGenerator(rescale=1./255,shear\_range=0.2,rotation\_range=180,zoom\_range

test\_datagen=ImageDataGenerator(rescale=1./255)

In [3]: #Applying ImageDataGenerator functionality to trainset

x\_train=train\_datagen.flow\_from\_directory(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\ target\_size=(128,128),batch\_size=32, class mode='binary')

Found 436 images belonging to 2 classes.

In [4]: #Applying ImageDataGenerator functionality to testset

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.

In [5]: #importmodelbuilding libraries

#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()

In [8]:

#add convolutional layer 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
In [10]: model.add(Dense(150,activation='relu')) #add output
In [11]: layer model.add(Dense(1,activation='sigmoid'))

#configure the learning process model.compile(loss='binary\_crossentropy',optimizer="adam",metrics=["accuracy"])

#Training the model model.fit\_generator(x\_train,steps\_per\_epoch=14,epochs=10,validation\_data=x\_test,validation\_st

```
Epoch 1/10
        1.3686 - val_accuracy: 0.5950Epoch 2/10
        0.2423 - val_accuracy: 0.8926Epoch 3/10
        0.1323 - val_accuracy: 0.9669Epoch 4/10
        0.1082 - val accuracy: 0.9669Epoch 5/10
        I_loss: 0.1145 - val_accuracy: 0.9669Epoch 6/10
        0.1030 - val_accuracy: 0.9669
    Epoch14/14 [==========7/10
                                                                     ====]
                               - val_ loss:
         - loss: 0.1756 - accuracy: 0.9312
- 88s 6s/step
                                         0.0831 - val_accuracy: 0.97528/10
        Epoch
    - 86s
                                     6s/step - loss: 0.1564 - accuracy: 0.9404 - val_
                                                                loss:
                                                                     ====1
                0.1073 - val_accuracy: 0.96699/10
        Epoch
        ===] - 77s 6s/step - loss: 0.1480 - accuracy: 0.9427 - val_ loss: 0.0754 - val_accuracy: 0.983510/10
                                                                       Epoch
====]
                                    - 81s 6s/step
        14/14
                                              - loss: 0.1641
                                                         - accuracy: 0.9289
                                                                       - val
                   0.0601 - val_accuracy: 0.9835
         loss:
        <keras.callbacks.History at 0x2546507bf10> Out[11]:
 In [12]:
        model.save("forest1.h5")
        #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")

	<pre>fire\skynx=image.img_to_array(img) res = cv2.resize(x, dsize=(128, 128), interpolation=cv2.INTER_CUBIC) #expand the image shape x=np.expand_dims(res,axis=0)</pre>								
In [17]:	pred=model.predict(x)								
	1/1 [===================================								
	pred								

 $img = image.load\_img(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\test\_set\with$ 

In [16]: