EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES PROJECT DEVELOPMENT PHASE

SPRINT 1

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Team ID	PNT2022TMID33633
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)
              X Y month
                             day FFMC DMC
                                                  DC
                                                        ISI temp
                                                                   RH
                                                                        wind rain
Out[6]:
                                                                                    area
                                                                          6.7
             7 5
                                    86.2
                                          26.2
                                                 94.3
                                                                    51
                                                                               0.0
                                                                                     0.0
           0
                               fri
                                                        5.1
                                                               8.2
                        mar
           1 7 4
                                    90.6
                                          35.4
                                                669.1
                                                        6.7
                                                              18.0
                                                                    33
                                                                          0.9
                                                                               0.0
                                                                                     0.0
                        oct
                              tue
                                    90.6
                                                686.9
                                                                               0.0
                                                                                     0.0
           2 7 4
                        oct
                              sat
                                          43.7
                                                        6.7
                                                              14.6
                                                                    33
                                                                          1.3
              8 6
                               fri
                                    91.7
                                           33.3
                                                 77.5
                                                        9.0
                                                               8.3
                                                                    97
                                                                          4.0
                                                                               0.2
                                                                                     0.0
                        mar
                                          51.3 102.2
                                                                                     0.0
           4
              8 6
                                    89.3
                                                        9.6
                                                              11.4
                                                                    99
                                                                          1.8
                                                                               0.0
                       mar
                             sun
           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
                                                        8.5
                                                              24.1
                                                                    27
                                                                          3.1
                                                                               0.0
                                                                                     0.0
           6
                             mon
                        aug
           7
                                                608.2
                                                       10.7
                                                                    86
                                                                          2.2
              8 6
                             mon
                                    91.5
                                          145.4
                                                               8.0
                                                                               0.0
                                                                                     0.0
                        aug
           8
              8 6
                                    91.0
                                         129.5
                                                692.6
                                                        7.0
                                                              13.1
                                                                    63
                                                                          5.4
                                                                               0.0
                                                                                     0.0
                        sep
                              tue
           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
                                    92.5
                                          88.0
                                                698.6
                                                        7.1
                                                              17.8
                                                                    51
                                                                          7.2
                                                                               0.0
                                                                                     0.0
                        sep
                              sat
          11
             7 5
                        sep
                              sat
                                    92.8
                                          73.2 713.0
                                                       22.6
                                                              19.3
                                                                    38
                                                                          4.0
                                                                               0.0
                                                                                     0.0
                                          70.8 665.3
                                                                                     0.0
          12 6 5
                               fri
                                    63.5
                                                        8.0
                                                              17.0
                                                                    72
                                                                          6.7
                                                                               0.0
                        aug
          13 6 5
                                    90.9 126.5 686.5
                        sep
                             mon
                                                        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
          fires.shape
In [7]:
          (517, 13)
Out[7]:
In [8]:
         #show the last 10 instances of dataset
          fires.tail(15)
```

In [4]:

import matplotlib.pyplot as plt

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

	Х	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	area
50	2 4	4	aug	tue	96.1	181.1	671.2	14.3	20.7	69	4.9	0.4	0.00
50	3 2	4	aug	wed	94.5	139.4	689.1	20.0	29.2	30	4.9	0.0	1.95
50	4 4	3	aug	wed	94.5	139.4	689.1	20.0	28.9	29	4.9	0.0	49.59
50	5 1	2	aug	thu	91.0	163.2	744.4	10.1	26.7	35	1.8	0.0	5.80
50	6 1	2	aug	fri	91.0	166.9	752.6	7.1	18.5	73	8.5	0.0	0.00
50	7 2	4	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
50	8 1	2	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
50	9 5	4	aug	fri	91.0	166.9	752.6	7.1	21.1	71	7.6	1.4	2.17
51	0 6	5	aug	fri	91.0	166.9	752.6	7.1	18.2	62	5.4	0.0	0.43
51	1 8	6	aug	sun	81.6	56.7	665.6	1.9	27.8	35	2.7	0.0	0.00
51	2 4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	6.44
51	3 2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	54.29
51	4 7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	11.16
51	5 1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.00
51	6 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
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	sta	min	25%	30%	15%	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]:

```
Υ
                                            FFMC
                                                       DMC
                                                                   DC
                                                                             ISI
                                                                                                  RH
                                                                                                           wind
Out[12]:
                                                                                     temp
                    1.000000
                              0.539548
                                        -0.021039
                                                  -0.048384
                                                             -0.085916
                                                                        0.006210
                                                                                  -0.051258
                                                                                             0.085223
                                                                                                       0.018798
                                                                                                                0.065
                    0.539548
                              1.000000
                                        -0.046308
                                                   0.007782
                                                             -0.101178
                                                                       -0.024488
                                                                                  -0.024103
                                                                                             0.062221
                                                                                                      -0.020341
                                                                                                                 0.033
             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 -0.105342 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
                                                                                            -0.527390 -0.227116 0.069
             temp -0.051258
                             -0.024103 0.431532
                                                   0.469594
                                                              0.496208
                                                                        0.394287
                                                                                  1.000000
              RH
                    0.085223
                              0.062221 -0.300995
                                                   0.073795
                                                             -0.039192
                                                                       -0.132517
                                                                                  -0.527390
                                                                                             1.000000
                                                                                                       0.069410 0.099
             wind
                    0.018798
                             -0.020341
                                        -0.028485
                                                  -0.105342
                                                             -0.203466
                                                                        0.106826
                                                                                  -0.227116
                                                                                             0.069410
                                                                                                       1.000000
                                                                                                                0.061
              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
                                                                                                       0.055702
                                                                                                                 0.025
           output
                                                                                  0.076047
                                                                                            -0.035587
           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()



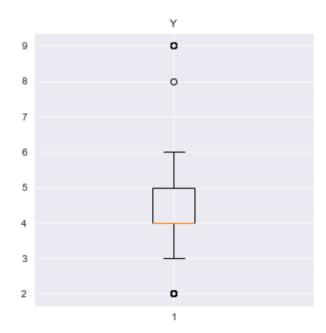
30

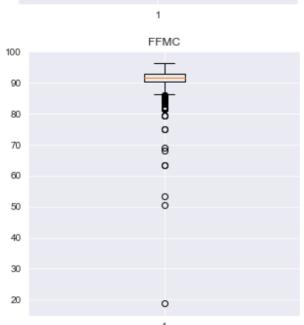
```
In [17]: for idx, col in enumerate(numerical_feature, 1):
    plt.figure(figsize=(5,5))

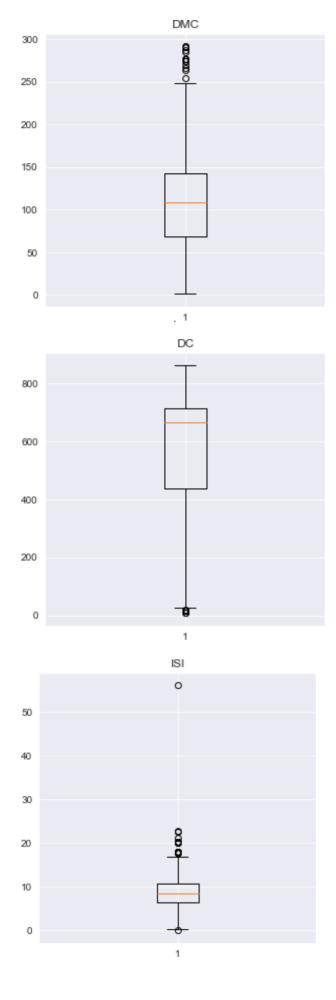
#     plt.subplot(len(numerical_feature) // 2, 3, idx)
    plt.boxplot(fires[col])

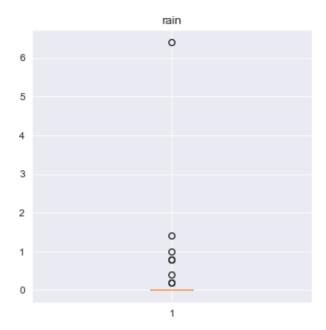
    plt.title(col)
    #     plt.hist(fires[col])

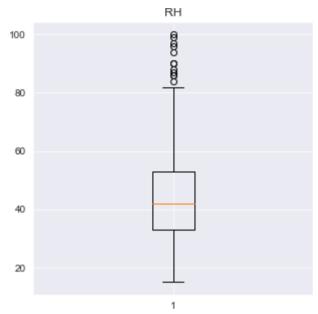
plt.hist(fires[col])
```

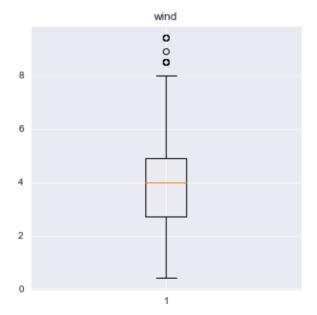


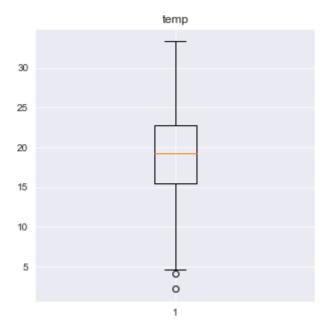


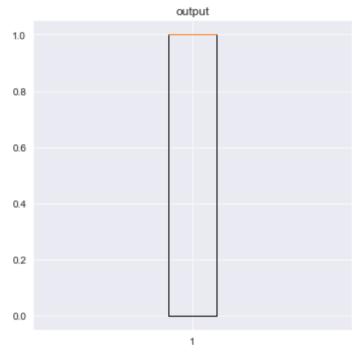




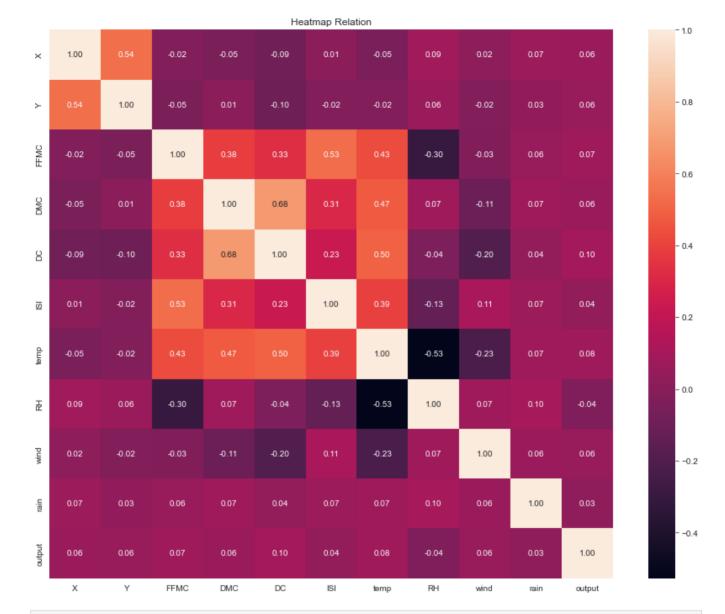








```
In [18]: plt.figure(figsize=(15, 12))
    plt.title("Heatmap Relation")
    sns.heatmap(fires[numerical_feature].corr(), annot=True, fmt='.2f');
```



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

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

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

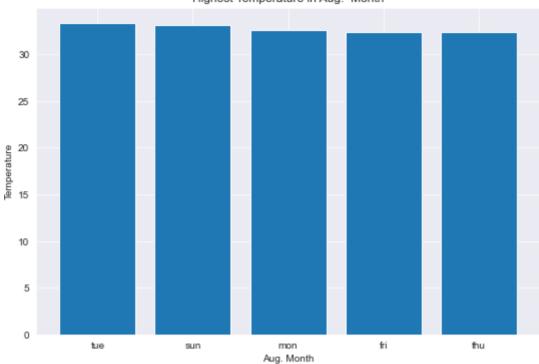
plt.title("Highest Temperature in Aug. Month")

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))

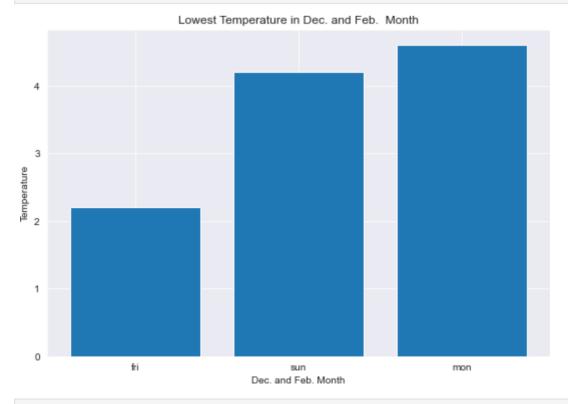
plt.title("Lowest Temperature in Dec. and Feb. Month")

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	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	0.8	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	80.8	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	6	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

Out[22]:

X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
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
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	90.9	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
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	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	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	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
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		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		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		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 o	utput
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	0.0	1.0
247	2	4	aug	wed	92.2	91.6	503.6	9.6	20.7	70	2.2	0.0	1.0
248	8	6	aug	wed	93.1	157.3	666.7	13.5	28.7	28	2.7	0.0	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	0.0	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	0.0	1.0
257	4	3	aug	sat	94.2	117.2	581.1	11.0	21.4	44	2.7	0.0	1.0
258	3	4	aug	sat	91.8	170.9	692.3	13.7	20.6	59	0.9	0.0	0.0

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 94.3 131.7 607.1 22.7 19.4 55 4.0 0.0 1.0 265 5 aug tue 92.1 152.6 658.2 14.3 21.0 32 3.1 0.0 0.0 267 2 2 aug tue 92.1 152.6 658.2 14.3 21.0 32 3.1 0.0		X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain o	output
281 3 4 aug fri 91.6 112.4 573.0 8.9 11.2 84 7.6 0.0 1.0 282 2 4 aug fri 91.6 112.4 573.0 8.9 21.4 42 3.1 0.0 1.0 286 4 aug fri 94.3 167.6 684.4 13.0 21.8 53 3.1 0.0 1.0 265 4 aug tue 93.7 102.2 550.3 14.6 22.1 54 7.6 0.0 1.0 267 2 2 aug tue 92.1 152.6 658.2 14.3 23.7 24 3.1 0.0 0.0 267 2 2 aug tue 92.1 152.6 658.2 14.3 21.3 27 0.0 1.0 270 2 2 aug tue 92.1 152.6 658.2 14.3 20.	259	7	4	aug	sat	91.8	170.9	692.3	13.7	23.7	40	1.8	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 aug fri 94.3 167.6 684.4 13.0 21.8 53 3.1 0.0 1.0 265 4 4 aug tue 94.3 131.7 607.1 22.7 19.4 55 4.0 0.0 1.0 266 5 aug tue 92.1 152.6 658.2 14.3 21.0 32 3.1 0.0 0.0 267 2 2 aug tue 92.1 152.6 658.2 14.3 21.0 32 3.1 0.0 1.0 277 8 6 aug tue 92.1 152.6 658.2 14.3	260	2	4	aug	mon	93.6	97.9	542.0	14.4	28.3	32	4.0	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 92.1 152.6 658.2 14.3 23.7 24 3.1 0.0 0.0 266 3 4 aug tue 92.1 152.6 658.2 14.3 21.0 32 3.1 0.0 0.0 267 4 4 aug tue 92.1 152.6 658.2 14.3 29.1 53 2.7 0.0 1.0 277 8 6 aug tue 92.1 152.6	261	3	4	aug	fri	91.6	112.4	573.0	8.9	11.2	84	7.6	0.0	1.0
264 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 21.0 32 3.1 0.0 0.0 269 4 4 aug tue 92.1 152.6 658.2 14.3 21.8 56 3.1 0.0 1.0 270 2 2 aug tue 92.1 152.6 658.2 14.3 20.1 58 4.5 0.0 1.0 271 8 6 dec sun 84.4 27.2 353.5 </th <th>262</th> <th>2</th> <th>4</th> <th>aug</th> <th>fri</th> <th>91.6</th> <th>112.4</th> <th>573.0</th> <th>8.9</th> <th>21.4</th> <th>42</th> <th>3.1</th> <th>0.0</th> <th>1.0</th>	262	2	4	aug	fri	91.6	112.4	573.0	8.9	21.4	42	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 21.0 32 3.1 0.0 0.0 267 2 2 aug tue 92.1 152.6 658.2 14.3 19.1 53 2.7 0.0 1.0 267 2 2 aug tue 92.1 152.6 658.2 14.3 20.1 58 4.5 0.0 1.0 277 8 6 dec sun 84.4 27.2 353.5 6.8 4.8 57 8.5 0.0 1.0 277 4 6 dec thu 84.6 26.4	263	6	3	aug	fri	91.1	141.1	629.1	7.1	19.3	39	3.6	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 21.0 32 3.1 0.0 1.0 270 2 2 aug tue 92.1 152.6 658.2 14.3 20.1 58 4.5 0.0 1.0 271 8 6 aug tue 92.1 152.6 658.2 14.3 20.2 47 4.0 0.0 1.0 272 4 6 dec sun 84.4 27.2	264	4	4	aug	fri	94.3	167.6	684.4	13.0	21.8	53	3.1	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 21.0 32 3.1 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 20.1 58 4.5 0.0 1.0 273 4 dec sun 84.0 27.2 353.5 </th <th>265</th> <th>4</th> <th>4</th> <th>aug</th> <th>tue</th> <th>93.7</th> <th>102.2</th> <th>550.3</th> <th>14.6</th> <th>22.1</th> <th>54</th> <th>7.6</th> <th>0.0</th> <th>1.0</th>	265	4	4	aug	tue	93.7	102.2	550.3	14.6	22.1	54	7.6	0.0	1.0
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 21.0 58 4.5 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 4 dec mon 85.4 25.4 349.7	266	6	5	aug	tue	94.3	131.7	607.1	22.7	19.4	55	4.0	0.0	1.0
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 two 84.6 26.4 352.0 2.0 5.1 61 4.9 0.0 1.0 275 4 4 dec mon 85.4 25.4	267	2	2	aug	tue	92.1	152.6	658.2	14.3	23.7	24	3.1	0.0	0.0
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 1.0 275 4 6 dec thu 84.6 26.4 352.0 2.0 5.1 61 8.0 0.0 1.0 277 3 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 277 4 4 dec mon 85.4 25.4 <	268	3	4	aug	tue	92.1	152.6	658.2	14.3	21.0	32	3.1	0.0	0.0
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 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mo	269	4	4	aug	tue	92.1	152.6	658.2	14.3	19.1	53	2.7	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 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 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 1.0 281 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 0.0 282 7 dec 8 5 4 feb fri 85.2 4.9 15.8 6.3 7.5 46 8.0 0.0 1.0 282 7 dec 8 5 jul sun 93.9 169.7 411.8 12.3 23.4 40 6.3 0.0 0.0 282 7 dec 8 5 jul sat 91.6 104.2 474.9 9.0 24.2 32 18 0.0 0.0 282 7 dec 8 5 jul sat 91.6 104.2 474.9 9.0 24.2 32 18 0.0 0.0 282 7 dec 8 5 jul sat 91.6 104.2 474.9 9.0 24.3 30 1.8 0.0 0.0 229 7 dec 9 4 jul sat 91.6 104.2 474.9 9.0 24.3 30 1.8 0.0 0.0 229 7 dec 9 4 jul sat 91.6 104.2 474.9 9.0 24.3 30 1.8 0.0 0.0 229 7 dec 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 dec 9 5 jul sat 91.6 104.2	270	2	2	aug	tue	92.1	152.6	658.2	14.3	21.8	56	3.1	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 1.0 279 4 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 279 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 1.0 281 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 0.0 282 6 3 feb med 86.9 6.6 18.7 3.2 8.8 35 3.1 0.0 1.0 282 6 5 jul sun 93.9 169.7 411.8 12.3 23.4 40 6.3 0.0 0.0 1.0 282 7 4 jul sat 91.6 104.2 474.9 9.0 22.1 49 2.7 0.0 0.0 282 7 4 jul sat 91.6 104.2 474.9 9.0 24.3 30 1.8 0.0 0.0 282 7 4 jul sat 91.6 104.2 474.9 9.0 24.3 30 1.8 0.0 0.0 229 7 5 jul sat 91.6 104.2 474.9 9.0 24.3 30 1.8 0.0 0.0 229 7 5 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 7 7 6 jul tue 93.1 180.4 4	271	8	6	aug	tue	92.1	152.6	658.2	14.3	20.1	58	4.5	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 1.0 279 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 1.0 281 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 0.0 282 6 3 feb wed 86.9 6.6 18.7 3.2 8.8 35 3.1 0.0 1.0 283 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 7 6 jul wed 91.2 183.1 437.7 12.5 12.6 90 7.6 0.2 0.0 286 7 6 jul wed 91.2 183.1 437.7 12.5 12.6 90 7.6 0.2 0.0 286 7 4 jul sat 91.6 104.2 474.9 9.0 24.2 32 1.8 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 0.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 229 1 9 4 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 20 29 1 9 4 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 1 9 4 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 229 1 9 4 10 10 10 20 10 20 10 20 10 20 10 20 20 20 20 20 20 20 20 20 20 20 20 20	272	2	5	aug	tue	92.1	152.6	658.2	14.3	20.2	47	4.0	0.0	1.0
275	273	4	6	dec	sun	84.4	27.2	353.5	6.8	4.8	57	8.5	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 1.0 280 4 6 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 281 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.	274	8	6	dec	wed	84.0	27.8	354.6	5.3	5.1	61	8.0	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 1.0 281 6 3 feb sun 84.9 27.5 353.5 3.4 4.2 51 4.0 0.0 0.0 282 6 fri 85.2 4.9 15.8 6.3 7.5<	275	4	6	dec	thu	84.6	26.4	352.0	2.0	5.1	61	4.9	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 jul sun 93.9 169.7 411.8 12.	276	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
2779 4 4 dec mon 85.4 25.4 349.7 2.6 4.6 21 8.5 0.0 1.0 2880 4 6 dec fri 84.7 26.7 352.6 4.1 2.2 59 4.9 0.0 1.0 2881 6 5 dec tue 85.4 25.4 349.7 2.6 5.1 24 8.5 0.0 1.0 2882 6 3 feb sun 84.9 27.5 353.5 3.4 4.2 51 4.0 0.0 0.0 2883 3 4 feb wed 86.9 6.6 18.7 3.2 8.8 35 3.1 0.0 1.0 2884 5 4 feb fri 85.2 4.9 15.8 6.3 7.5 46 8.0 0.0 1.0 2885 2 5 jul wed 91.2 183.1 43	277	3	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<	278	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	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	279	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	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 2290 2 5 jul sat 91.6 104.2 474.9 9.0 18.7 53 1.8 0.0 0.0 2291 9 4 jul sat 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 2292 4 5 jul fri 91.6 104.2 474.9 9.0 25.3 39 0.9 0.0 1.0 2292 4 5 jul fri 91.6 100.2 466.3 6.3 22.9 40 1.3 0.0 1.0 2293 7 6 jul tue 93.1 180.4 430.8 11.0 26.9 28 5.4 0.0 1.0 2294 8 6 jul tue 92.3 88.8 440.9 8.5 17.1 67 3.6 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
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	281	6	5	dec	tue	85.4	25.4	349.7	2.6	5.1	24	8.5	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	282	6	3	feb	sun	84.9	27.5	353.5	3.4	4.2	51	4.0	0.0	0.0
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 0.0 289 7 4 jul sat 91.6 104.2 474.9 9.0 24.2 32 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 91.6 104.2 474.9 9.0 25.3 39 0.9 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	283	3	4	feb	wed	86.9	6.6	18.7	3.2	8.8	35	3.1	0.0	1.0
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	284	5	4	feb	fri	85.2	4.9	15.8	6.3	7.5	46	8.0	0.0	1.0
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	285	2	5	jul	sun	93.9	169.7	411.8	12.3	23.4	40	6.3	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	286	7	6	jul	wed	91.2	183.1	437.7			90	7.6	0.2	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	287		4	-	sat	91.6	104.2		9.0	22.1	49	2.7	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	288			-	sat									
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	289			-	sat									
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	290			-	sat									
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	291			-										
294 8 6 jul tue 92.3 88.8 440.9 8.5 17.1 67 3.6 0.0 1.0	292			-										
•				-										
295 7 5 jun sun 93.1 180.4 430.8 11.0 22.2 48 1.3 0.0 0.0														
	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 o	utput
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	0.0	1.0
320	6	3	sep	thu	92.8	119.0	783.5	7.5	18.9	34	7.2	0.0	1.0
321	1	4	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
322	6	5	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
323	3	5	sep	thu	90.7	136.9	822.8	6.8	12.9	39	2.7	0.0	1.0
324	6	5	sep	thu	88.1	53.3	726.9	5.4	13.7	56	1.8	0.0	1.0
325	1	4	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	0.0
326	5	4	sep	sat	92.2	102.3	751.5	8.4	24.1	27	3.1	0.0	0.0
327	6	5	sep	sat	92.2	102.3	751.5	8.4	21.2	32	2.2	0.0	0.0
328	6	5	sep	sat	92.2	102.3	751.5	8.4	19.7	35	1.8	0.0	0.0
329	4	3	sep	sat	92.2	102.3	751.5	8.4	23.5	27	4.0	0.0	1.0
330	3	3	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	1.0
331	7	4	sep	sat	91.2	124.4	795.3	8.5	21.5	28	4.5	0.0	1.0
332	4	4	sep	sat	91.2	124.4	795.3	8.5	17.1	41	2.2	0.0	1.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain c	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		1.0
367	4	5	sep	tue	91.1	132.3	812.1	12.5	16.4	27	3.6		0.0
368	6	5	sep	sat	91.2	94.3	744.4	8.4	16.8	47	4.9		1.0
369	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 0.0 371 3 4 jul wed 91.9 133.6 520.5 8.0 14.2 58 4.0 0.0 372 4 5 aug stu 92.0 203.2 664.5 8.1 10.4 75 0.9 0.0 374 6 5 sep fri 90.3 290.0 855.3 7.4 10.3 78 40 0.0 376 6 5 sep sat 91.2 207.0 672.6 8.2 21.1 54 2.2 0.0 377 2 2 aug sat 91.2 207.0 672.6 8.2 21.1 54 2.2 0.0 377 4 5 nar thu 90.9 18.9 30.6 8.0 8.7 51 5.8 0.0 <th></th> <th>x</th> <th>Y</th> <th>month</th> <th>day</th> <th>FFMC</th> <th>DMC</th> <th>DC</th> <th>ISI</th> <th>temp</th> <th>RH w</th> <th>ivididrai</th> <th>rainutr</th> <th>utput</th>		x	Y	month	day	FFMC	DMC	DC	ISI	temp	RH w	ivid idrai	rai n ut r	utput
372 4 5 aug sun 92.0 203.2 664.5 8.1 10.4 75 0.9 0.0 373 5 4 aug thu 94.8 222.4 698.6 13.9 20.3 42 2.7 0.0 374 6 5 sep fri 90.3 290.0 855.3 7.4 10.3 78 4.0 0.0 375 6 5 sep sat 91.2 90.0 672.6 8.2 21.1 54 2.2 0.0 377 2 2 aug sat 93.7 231.1 715.1 8.4 21.9 42 2.2 0.0 378 6 5 mar thu 90.9 18.9 30.6 8.0 8.7 51 5.8 0.0 379 4 5u jan sun 18.7 1.1 17.4 0.0 52.2 100 0.9 <	370	7	4	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	1.0
373 5 4 aug thu 94.8 222.4 69.6 13.9 20.3 42 2.7 0.0 374 6 5 sep fri 90.3 290.0 855.3 7.4 10.3 78 4.0 0.0 375 6 5 sep sat 91.2 94.3 744.4 8.4 15.4 57 4.9 0.0 376 8 6 aug mor 92.1 207.0 672.6 8.2 21.1 54 2.2 0.0 377 2 2 aug sat 93.7 231.1 715.1 8.4 21.9 42 2.2 0.0 378 6 5 jan sun 18.7 1.1 171.4 0.0 52.2 100 0.9 0.0 380 6 aug thu 90.7 194.1 643.0 68.2 16.2 18.0 0.0 381	371	3	4	jul	wed	91.9	133.6	520.5	8.0	14.2	58	4.0	0.0	0.0
374 6 5 sep fri 90.3 290.0 855.3 7.4 10.3 78 4.0 0.0 375 6 5 sep sat 91.2 94.3 744.4 8.4 15.4 57 4.9 0.0 377 2 2 aug sat 93.7 23.1 715.1 8.4 21.9 42 2.2 0.0 378 6 5 mar thu 90.9 18.9 30.6 8.0 8.7 51 5.8 0.0 379 4 5 jan sun 18.7 1.1 171.4 0.0 52 100 0.9 0.0 381 8 6 aug thu 90.7 194.1 643.0 6.3 16.2 63 2.7 0.0 382 8 4 aug stu 91.6 248.4 753.8 819.1 7.7 21.3 44 4.5 <	372	4	5	aug	sun	92.0	203.2	664.5	8.1	10.4	75	0.9	0.0	0.0
375 6 5 sep sat 91.2 94.3 744.4 8.4 15.4 57 4.9 0.0 376 8 6 aug mon 92.1 207.0 672.6 8.2 21.1 54 2.2 0.0 377 2 2 aug sat 93.7 231.1 715.1 8.4 21.9 42 2.2 0.0 378 6 5 mar thu 90.9 18.9 30.6 8.0 8.7 51 5.8 0.0 380 5 jan sun 18.7 11.1 171.4 0.0 52.2 100 0.0 381 8 6 aug thu 90.7 194.1 643.0 6.8 16.2 63 2.7 0.0 382 8 4 aug stu 91.6 28.8 753.8 6.3 20.5 58 2.7 0.0 383	373	5	4	aug	thu	94.8	222.4	698.6	13.9	20.3	42	2.7	0.0	0.0
376 8 6 aug mon 92.1 207.0 672.6 8.2 21.1 54 2.2 0.0 377 2 2 aug sat 93.7 231.1 715.1 8.4 21.9 42 2.2 0.0 378 6 5 mar thu 90.9 18.9 30.6 8.0 8.7 51 5.8 0.0 380 5 jun sun 18.7 1.1 171.4 0.0 5.2 100 0.9 0.0 381 8 6 aug thu 90.7 194.1 643.0 6.8 16.2 63 2.7 0.0 383 9 6 aug thu 91.0 248.4 753.8 6.3 20.5 58 2.7 0.0 384 8 4 aug sun 90.5 96.7 750.5 11.4 20.6 55 5.4 0.0	374	6	5	sep	fri	90.3	290.0	855.3	7.4	10.3	78	4.0	0.0	1.0
377 2 2 mag sat 93.7 231.1 715.1 8.4 21.9 42 2.2 0.0 378 6 5 mar thu 90.9 18.9 30.6 8.0 8.7 51 5.8 0.0 379 4 5 jan sun 18.7 1.1 171.4 0.0 5.2 100 0.9 0.0 380 5 jul wed 93.7 101.3 458.8 11.9 19.3 39 7.2 0.0 381 8 6 aug thu 90.7 194.1 643.0 6.8 16.2 63 2.7 0.0 383 9 6 aug thu 91.6 273.8 191.1 7.7 21.3 44 45.5 0.0 384 4 aug stn 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 385	375	6	5	sep	sat	91.2	94.3	744.4	8.4	15.4	57	4.9	0.0	1.0
378 6 5 mar thu 90.9 18.9 30.6 8.0 8.7 51 5.8 0.0 379 4 5 jan sun 18.7 1.1 171.4 0.0 5.2 100 0.9 0.0 380 5 4 jul wed 93.7 101.3 458.8 11.9 19.3 39 7.2 0.0 381 8 6 aug thu 90.7 194.1 643.0 6.8 16.2 63 2.7 0.0 383 9 6 aug thu 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 384 8 4 aug sat 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 385 5 mar thu 90.5 96.7 750.5 11.4 20.6 55 5.4 0.0	376	8	6	aug	mon	92.1	207.0	672.6	8.2	21.1	54	2.2	0.0	0.0
379 4 5 jan sun 18.7 1.1 171.4 0.0 5.2 100 0.9 0.0 380 5 4 jul wed 93.7 101.3 458.8 11.9 19.3 39 7.2 0.0 381 8 6 aug thu 90.7 194.1 643.0 6.8 16.2 63 2.7 0.0 383 8 6 aug thu 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 384 8 4 aug sat 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 385 2 4 aug sat 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 386 3 4 sep sun 90.5 96.7 750.5 11.4 20.6 55 5.4 0.0	377	2	2	aug	sat	93.7	231.1	715.1	8.4	21.9	42	2.2	0.0	1.0
380 5 4 jul wed 93.7 101.3 458.8 11.9 19.3 39 7.2 0.0 381 8 6 aug thu 90.7 194.1 643.0 6.8 16.2 63 2.7 0.0 383 9 6 aug thu 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 384 8 4 aug sta 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 385 2 4 aug sta 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 387 5 mar thu 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 388 6 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 389	378	6	5	mar	thu	90.9	18.9	30.6	8.0	8.7	51	5.8	0.0	0.0
381 8 6 aug thu 90.7 194.1 643.0 6.8 16.2 63 2.7 0.0 382 8 6 aug thu 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 384 8 4 aug sat 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 385 2 4 aug sat 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 386 3 4 sap sun 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 387 5 mar thu 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 388 6 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0	379	4	5	jan	sun	18.7	1.1	171.4	0.0	5.2	100	0.9	0.0	0.0
382 8 6 aug wed 95.2 217.7 690.0 18.0 28.2 29 1.8 0.0 383 9 6 aug thu 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 384 8 4 aug sat 91.6 273.8 819.1 7.7 21.3 44 4.5 0.0 385 2 4 aug sun 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 386 3 4 sep sun 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 387 5 mar thu 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 389 7 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0	380	5	4	jul	wed	93.7	101.3	458.8	11.9	19.3	39	7.2	0.0	1.0
383 9 6 aug thu 91.6 248.4 753.8 6.3 20.5 58 2.7 0.0 384 8 4 aug sat 91.6 273.8 819.1 7.7 21.3 44 4.5 0.0 385 2 4 aug sun 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 386 3 4 sep sun 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 388 6 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 389 7 4 feb mon 84.7 92.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.1 91.3 738.1 7.2 20.7 46 2.7 0.0 <th>381</th> <th>8</th> <th>6</th> <th>aug</th> <th>thu</th> <th>90.7</th> <th>194.1</th> <th>643.0</th> <th>6.8</th> <th>16.2</th> <th>63</th> <th>2.7</th> <th>0.0</th> <th>1.0</th>	381	8	6	aug	thu	90.7	194.1	643.0	6.8	16.2	63	2.7	0.0	1.0
384 8 4 aug sat 91.6 273.8 819.1 7.7 21.3 44 4.5 0.0 385 2 4 aug sun 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 386 3 4 sep sun 90.5 96.7 750.5 11.4 20.6 55 5.4 0.0 387 5 mar thu 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 389 7 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 feb mon 84.7 9.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0	382	8	6	aug	wed	95.2	217.7	690.0	18.0	28.2	29	1.8	0.0	1.0
385 2 4 aug sun 91.6 181.3 613.0 7.6 20.9 50 2.2 0.0 386 3 4 sep sun 90.5 96.7 750.5 11.4 20.6 55 5.4 0.0 387 5 5 mar thu 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 388 6 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 feb mon 84.7 9.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 <th>383</th> <td>9</td> <td>6</td> <td>aug</td> <td>thu</td> <td>91.6</td> <td>248.4</td> <td>753.8</td> <td>6.3</td> <td>20.5</td> <td>58</td> <td>2.7</td> <td>0.0</td> <td>1.0</td>	383	9	6	aug	thu	91.6	248.4	753.8	6.3	20.5	58	2.7	0.0	1.0
386 3 4 sep sun 90.5 96.7 750.5 11.4 20.6 55 5.4 0.0 387 5 5 mar thu 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 388 6 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 feb mon 84.7 9.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 392 1 3 sep sun 84.1 4.6 46.7 2.2 5.3 68 1.8 0.0	384	8	4	aug	sat	91.6	273.8	819.1	7.7	21.3	44	4.5	0.0	1.0
387 5 5 mar thu 90.9 18.9 30.6 8.0 11.6 48 5.4 0.0 388 6 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 feb mon 84.7 9.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.1 91.3 738.1 7.2 20.7 46 2.7 0.0 392 1 3 sep sun 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 393 2 4 mar tue 93.4 15.0 25.6 11.4 15.2 19 7.6 0.0 394 6 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0	385	2	4	aug	sun	91.6	181.3	613.0	7.6	20.9	50	2.2	0.0	1.0
388 6 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 389 7 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 feb mon 84.7 9.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.1 91.3 738.1 7.2 20.7 46 2.7 0.0 392 1 3 sep sun 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 393 2 4 mar tue 93.4 15.0 25.6 11.4 15.2 19 7.6 0.0 394 6 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0	386	3	4	sep	sun	90.5	96.7	750.5	11.4	20.6	55	5.4	0.0	1.0
389 7 4 aug fri 94.8 227.0 706.7 12.0 23.3 34 3.1 0.0 390 7 4 feb mon 84.7 9.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.1 91.3 738.1 7.2 20.7 46 2.7 0.0 392 1 3 sep sun 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 393 2 4 mar tue 93.4 15.0 25.6 11.4 15.2 19 7.6 0.0 394 6 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0 395 4 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0	387	5	5	mar	thu	90.9	18.9	30.6	8.0	11.6	48	5.4	0.0	0.0
390 7 4 feb mon 84.7 9.5 58.3 4.1 7.5 71 6.3 0.0 391 8 6 sep fri 91.1 91.3 738.1 7.2 20.7 46 2.7 0.0 392 1 3 sep sun 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 393 2 4 mar tue 93.4 15.0 25.6 11.4 15.2 19 7.6 0.0 394 6 5 feb mon 84.1 4.6 46.7 2.2 5.3 68 1.8 0.0 395 4 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0 397 5 6 aug sun 91.6 181.3 613.0 7.6 24.3 33 3.6 0.0 <t< th=""><th>388</th><td>6</td><td>4</td><td>aug</td><td>fri</td><td>94.8</td><td>227.0</td><td>706.7</td><td>12.0</td><td>23.3</td><td>34</td><td>3.1</td><td>0.0</td><td>1.0</td></t<>	388	6	4	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	1.0
391 8 6 sep fri 91.1 91.3 738.1 7.2 20.7 46 2.7 0.0 392 1 3 sep sun 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 393 2 4 mar tue 93.4 15.0 25.6 11.4 15.2 19 7.6 0.0 394 6 5 feb mon 84.1 4.6 46.7 2.2 5.3 68 1.8 0.0 395 4 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0 396 4 3 sep sun 90.5 96.7 750.5 11.4 20.4 55 4.9 0.0 397 5 6 aug sun 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0	389	7	4	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	0.0
392 1 3 sep sun 91.0 276.3 825.1 7.1 21.9 43 4.0 0.0 393 2 4 mar tue 93.4 15.0 25.6 11.4 15.2 19 7.6 0.0 394 6 5 feb mon 84.1 4.6 46.7 2.2 5.3 68 1.8 0.0 395 4 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0 396 4 3 sep sun 90.5 96.7 750.5 11.4 20.4 55 4.9 0.0 397 5 6 aug sun 91.6 181.3 613.0 7.6 24.3 33 3.6 0.0 398 1 2 aug sat 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0	390	7	4	feb	mon	84.7	9.5	58.3	4.1	7.5	71	6.3	0.0	1.0
393 2 4 mar tue 93.4 15.0 25.6 11.4 15.2 19 7.6 0.0 394 6 5 feb mon 84.1 4.6 46.7 2.2 5.3 68 1.8 0.0 395 4 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0 396 4 3 sep sun 90.5 96.7 750.5 11.4 20.4 55 4.9 0.0 397 5 6 aug sun 91.6 181.3 613.0 7.6 24.3 33 3.6 0.0 398 1 2 aug sat 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0 399 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 <th< th=""><th>391</th><td>8</td><td>6</td><td>sep</td><td>fri</td><td>91.1</td><td></td><td>738.1</td><td>7.2</td><td></td><td>46</td><td>2.7</td><td></td><td>1.0</td></th<>	391	8	6	sep	fri	91.1		738.1	7.2		46	2.7		1.0
394 6 5 feb mon 84.1 4.6 46.7 2.2 5.3 68 1.8 0.0 395 4 5 feb sun 85.0 90.7 750.5 11.4 20.4 55 4.9 0.0 396 4 3 sep sun 90.5 96.7 750.5 11.4 20.4 55 4.9 0.0 397 5 6 aug sun 91.6 181.3 613.0 7.6 24.3 33 3.6 0.0 398 1 2 aug sat 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0 399 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 <th>392</th> <td></td> <td>3</td> <td>sep</td> <td>sun</td> <td>91.0</td> <td>276.3</td> <td>825.1</td> <td>7.1</td> <td>21.9</td> <td>43</td> <td>4.0</td> <td>0.0</td> <td>1.0</td>	392		3	sep	sun	91.0	276.3	825.1	7.1	21.9	43	4.0	0.0	1.0
395 4 5 feb sun 85.0 9.0 56.9 3.5 10.1 62 1.8 0.0 396 4 3 sep sun 90.5 96.7 750.5 11.4 20.4 55 4.9 0.0 397 5 6 aug sun 91.6 181.3 613.0 7.6 24.3 33 3.6 0.0 398 1 2 aug sat 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0 399 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 400 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 <th></th> <th>0.0</th>														0.0
396 4 3 sep sun 90.5 96.7 750.5 11.4 20.4 55 4.9 0.0 397 5 6 aug sun 91.6 181.3 613.0 7.6 24.3 33 3.6 0.0 398 1 2 aug sat 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0 399 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 400 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 402 9 9 aug fri 94.8 227.0 706.7 12.0 25.0 36 4.0 0.0					mon						68			0.0
397 5 6 aug sun 91.6 181.3 613.0 7.6 24.3 33 3.6 0.0 398 1 2 aug sat 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0 399 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 400 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 402 9 9 aug fri 94.8 227.0 706.7 12.0 25.0 36 4.0 0.0 403 8 6 aug thu 90.7 194.1 643.0 6.8 21.3 41 3.6 0.0														1.0
398 1 2 aug sat 93.7 231.1 715.1 8.4 25.9 32 3.1 0.0 399 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 400 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 402 9 9 aug fri 94.8 227.0 706.7 12.0 25.0 36 4.0 0.0 403 8 6 aug thu 90.7 194.1 643.0 6.8 21.3 41 3.6 0.0				-										1.0
399 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 400 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 402 9 9 aug fri 94.8 227.0 706.7 12.0 25.0 36 4.0 0.0 403 8 6 aug thu 90.7 194.1 643.0 6.8 21.3 41 3.6 0.0														1.0
400 9 5 jun wed 93.3 49.5 297.7 14.0 28.0 34 4.5 0.0 401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 402 9 9 aug fri 94.8 227.0 706.7 12.0 25.0 36 4.0 0.0 403 8 6 aug thu 90.7 194.1 643.0 6.8 21.3 41 3.6 0.0														0.0
401 3 4 sep thu 91.1 88.2 731.7 8.3 22.8 46 4.0 0.0 402 9 9 aug fri 94.8 227.0 706.7 12.0 25.0 36 4.0 0.0 403 8 6 aug thu 90.7 194.1 643.0 6.8 21.3 41 3.6 0.0				-										0.0
402 9 9 aug fri 94.8 227.0 706.7 12.0 25.0 36 4.0 0.0 403 8 6 aug thu 90.7 194.1 643.0 6.8 21.3 41 3.6 0.0				-										1.0
403 8 6 aug thu 90.7 194.1 643.0 6.8 21.3 41 3.6 0.0				•										1.0
				_										0.0
4 SPI WELL O/M A/A //31 3/ //X 4/ // // ///				_										0.0
·				sep										0.0
405 2 2 aug tue 94.6 212.1 680.9 9.5 27.9 27 2.2 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 w	iviid idrai	raiAut r	utput
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
479 480	7 a	4 a	jul	mon	89.2	103.9	431.6	6.4	22.6	57 25	4.9	0.0	1.0
4 ŏ U	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]: $x_{train}=train_datagen.flow_from_directory(r'C:\Users\dhine\Downloads\archive\Dataset\Datas$ 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

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

```
14/14 [=============================] -84s 6s/step-loss: 4.2334 - accuracy: 0.5619 - val
        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
        14/14 [============================] - 129s 10s/step - loss: 0.1918 - accuracy: 0.9151 - va
        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
                   0.1073 - val accuracy: 0.96699/10
        Epoch
        - 77s 6s/step
                                                        - loss: 0.1480
                                                                      - accuracy: 0.9427
                                     ====1
                                                                                        - val
                  0.0754 - val accuracy: 0.983510/10
         Epoch [=============
                                     ====]
         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]:
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")
        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