## Project Development Phase SPRINT 1

Date	16.11.2022
Team ID	PNT2022TMID20837
Project Name	Emerging Methods For Early Detection Of Forest Fires

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

In [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)

Out[6]:

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

	X Y mo	onth	day	FFMC I	омс	DC		ISI tem	p RH ν	wind ra	in area	<b>a</b>
0	75	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
1	74	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
2	74	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
3	86	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
4	86	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0
5	86	aug	sun	92.3	85.3	488.0	14.7	22.2	29	5.4	0.0	0.0
6	86	aug	mon	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
7	86	aug	mon	91.5	145.4	608.2	10.7	8.0	86	2.2	0.0	0.0
8	86	sep	tue	91.0	129.5	692.6	7.0	13.1	63	5.4	0.0	0.0
9	75	sep	sat	92.5	88.0	698.6	7.1	22.8	40	4.0	0.0	0.0
10	75	sep	sat	92.5	88.0	698.6	7.1	17.8	51	7.2	0.0	0.0
11	75	sep	sat	92.8	73.2	713.0	22.6	19.3	38	4.0	0.0	0.0
12	65	aug	fri	63.5	70.8	665.3	0.8	17.0	72	6.7	0.0	0.0
13	65	sep	mon	90.9	126.5	686.5	7.0	21.3	42	2.2	0.0	0.0

14 5 92.9 133.3 699.6 9.2 26.4 21 wed sep 4.5 0.0 0.0 In [7]: fires.shape (517, 13) Out[7]: In [8]: Out[8]: #show the last 10 instances of dataset fires.tail(15) X Y month day FFMC DMC DC ISI temp RH wind rain area 502 181.1 671.2 14.3 20.7 69 4.9 0.4 0.00 44 96.1 aug tue 503 20.0 29.2 0.0 1.95 24 aug wed 94.5 139.4 689.1 30 4.9 504 20.0 28.9 29 49.59 43 94.5 139.4 689.1 4.9 0.0 aug wed 505 0.0 5.80 12 aug thu 91.0 163.2 744.4 10.1 26.7 35 1.8 506 166.9 752.6 7.1 18.5 73 8.5 0.0 0.00 12 aug fri 91.0 507 24 aug fri 91.0 166.9 752.6 7.1 25.9 41 3.6 0.0 0.00 508 166.9 752.6 25.9 41 0.0 0.00 12 aug fri 91.0 7.1 3.6 509 54 aug fri 91.0 166.9 752.6 7.1 21.1 71 7.6 1.4 2.17 510 166.9 752.6 7.1 18.2 62 5.4 0.0 0.43 65 aug fri 91.0 511 0.00 86 aug sun 81.6 56.7 665.6 1.9 27.8 35 2.7 0.0 512 6.44 43 81.6 56.7 665.6 1.9 27.8 32 2.7 0.0 aug sun 513 665.6 1.9 21.9 0.0 54.29 24 aug sun 81.6 56.7 71 5.8 514 74 81.6 56.7 665.6 1.9 21.2 70 6.7 0.0 11.16 aug sun 515 146.0 25.6 0.0 0.00 14 aug sat 94.4 614.7 11.3 42 4.0 516 6 3 nov tue 79.5 3.0 106.7 1.1 11.8 31 4.5 0.0 0.00 In [9]: fires.info()

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

# Column Non-Null Count Dtype

0 X 517 non-null int64

```
Υ
              517 non-null
                              int64
 1
 2
     month
              517 non-null
                              object
              517 non-null
                              object
 3
     day
 4
     FFMC
              517 non-null
                              float64
 5
     DMC
              517 non-null
                              float64
                              float64
 6
     DC
              517 non-null
 7
     ISI
              517 non-null
                              float64
                              float64
 8
     temp
              517 non-null
 9
              517 non-null
                              int64
     RH
  10 wind
              517 non-null
                              float64
  11 rain
              517 non-null
                              float64
              517 non-null
                              float64
  12 area
dtypes: float64(8), int64(3), object(2) memory
usage: 52.6+ KB
```

In [10]: #generate descriptive statistics of each attribute fires.describe().T Out[10]: X 517.0 4.669246 2.313778 1.0 3.0 4.00 7.00 9.00 Υ 4.299807 4.0 4.00 5.00 9.00 517.0 1.229900 2.0 **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

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 56.10 517.0 18.889168 5.806625 2.2 15.5 19.30 22.80 33.30 temp 517.0 44.288201 16.317469 15.0 33.0 42.00 53.00 100.00 517.0 4.017602 1.791653 2.7 4.00 4.90 9.40 wind 0.4 rain 517.0 0.021663 0.295959 0.0 0.0 0.00 0.00 6.40 517.0 12.847292 63.655818 0.0 0.0 0.52 6.57 1090.84 area

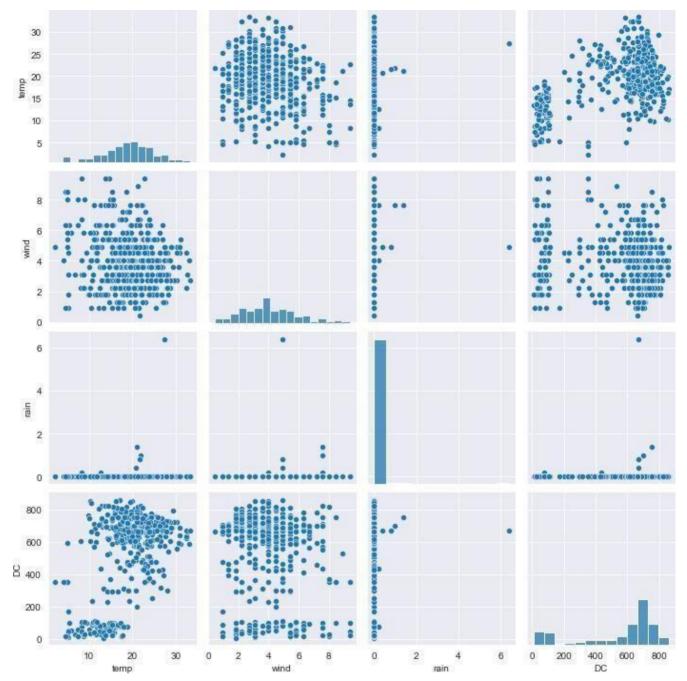
In [11]: fires['area'].values[fires['area'].values >0] = 1
#renaming the area attribute to output for clear understanding
fires = fires.rename(columns={'area': 'output'}) fires.head(10)

Ou	t[11	]:	ХҮ	month	day	FFMC	DMC	DC	ISI temp	RH wind	l 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

```
89.3
                                                          9.6
                                                                                           0.0
4
   8
        6
                mar
                         sun
                                         51.3 102.2
                                                                  11.4
                                                                          99
                                                                                   1.8
                                                                                                   0.0
                                 92.3
                                         85.3 488.0 14.7 22.2
                                                                  29
                                                                          5.4
                                                                                   0.0
                                                                                           0.0
   8
        6
                aug
                         sun
   8
        6
                                 92.3
                                         88.9 495.6
                                                          8.5
                                                                  24.1
                                                                           27
                                                                                   3.1
                                                                                           0.0
                                                                                                   0.0
6
                aug mon
   8
        6
                                 91.5 145.4 608.2 10.7
                                                          8.0
                                                                  86
                                                                           2.2
                                                                                   0.0
                                                                                           0.0
                aug mon
        6
                                 91.0 129.5 692.6
                                                          7.0
                                                                  13.1
                                                                                                   0.0
8
   8
                                                                           63
                                                                                   5.4
                                                                                           0.0
                sep
                         tue
   7
        5
                                 92.5
                                         88.0 698.6
                                                          7.1
                                                                  22.8
                                                                          40
                                                                                   4.0
                                                                                           0.0
                                                                                                   0.0
                sep
                         sat
 In [12]:
              fires.corr()
Out[12]:
                       1.000000
                                  0.539548
                                             -0.021039
                                                        -0.048384
                                                                   -0.085916
                                                                                0.006210
                                                                                          -0.051258
                                                                                                      0.085223
                                                                                                                 0.018798
                                                                                                                           0.065
                   X
                       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
                  ISI
                       0.006210
                                  -0.024488
                                              0.531805
                                                         0.305128
                                                                    0.229154
                                                                                1.000000
                                                                                           0.394287
                                                                                                      -0.132517
                                                                                                                 0.106826
                                                                                                                            0.067
                      -0.051258
                                  -0.024103
                                              0.431532
                                                         0.469594
                                                                    0.496208
                                                                                0.394287
                                                                                           1.000000
                                                                                                     -0.527390
                                                                                                                -0.227116
                                                                                                                            0.069
                temp
                 RH
                       0.085223
                                   0.062221
                                             -0.300995
                                                         0.073795
                                                                   -0.039192
                                                                               -0.132517
                                                                                          -0.527390
                                                                                                      1.000000
                                                                                                                 0.069410
                                                                                                                            0.0995
                       0.018798
                                  -0.020341
                                             -0.028485
                                                        -0.105342
                                                                   -0.203466
                                                                                0.106826
                                                                                          -0.227116
                                                                                                      0.069410
                                                                                                                 1.000000
                                                                                                                            0.061
               wind
                       0.065387
                                   0.033234
                                              0.056702
                                                         0.074790
                                                                    0.035861
                                                                                0.067668
                                                                                           0.069491
                                                                                                      0.099751
                                                                                                                 0.061119
                                                                                                                          1.000
                rain
              numerical feature = fires.describe(include=["int", "float"]).columns
 In [15]:
              # Print it in list type ...
              print(list(numerical_feature))
              sns.set_style('darkgrid')
              # Find the relation
              # plt.subplot(fires)
              sns.pairplot(fires[["temp", "wind", "rain", "DC"]])
              plt.show()
```

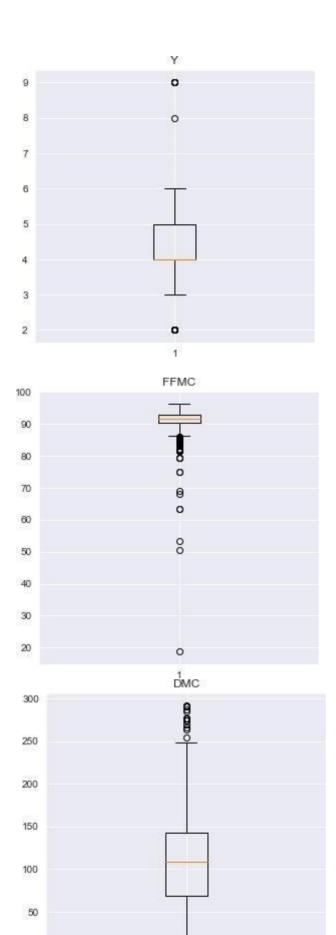
['X', 'Y', 'FFMC', 'DMC', 'DC', 'ISI', 'temp', 'RH', 'wind', 'rain', 'output']

In [16]:



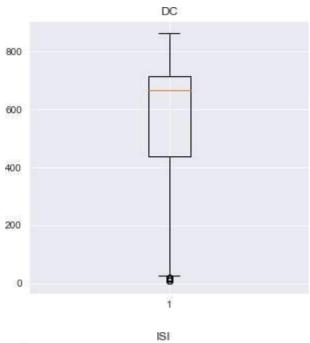
```
In [17]: for idx, col in enumerate(numerical_feature, 1):
    plt.figure(figsize=(5,5))

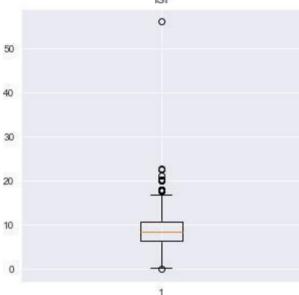
# plt.subplot(len(numerical_feature) // 2, 3, idx) plt.boxplot(fires[col])
    plt.title(col)
# plt.hist(fires[col])
    plt.tight_layout()
    plt.show(plt)
```

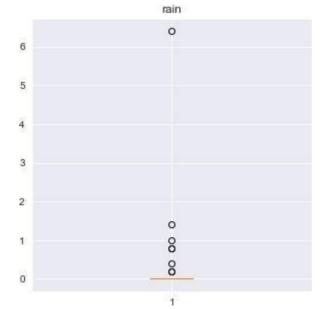


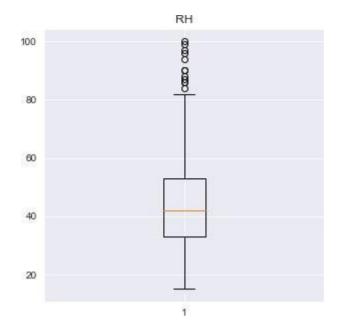
. 1

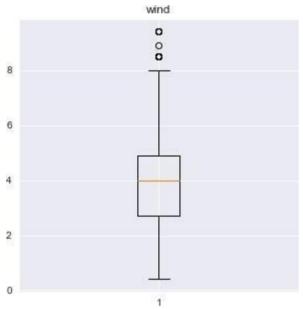
0

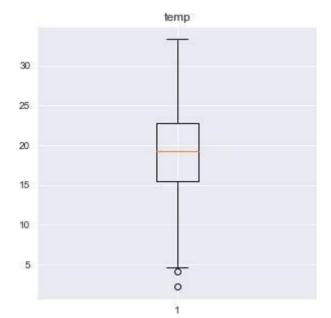


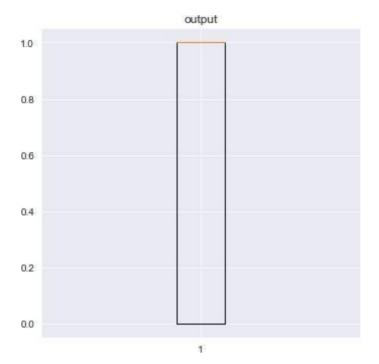












```
In [18]:
    plt.figure(figsize=(15, 12))    plt.title("Heatmap Relation")
    sns.heatmap(fires[numerical_feature].corr(), annot=True, fmt='.2f');
```



highest\_rain = fires.sort\_values(by='rain', ascending=False)[['month', 'day', 'rain']].head() In [19]: highest\_rain

499	aug	tue	6.4
509	aug	fri	1.4

243

Out[19]:

1.0 aug 500 aug tue 8.0

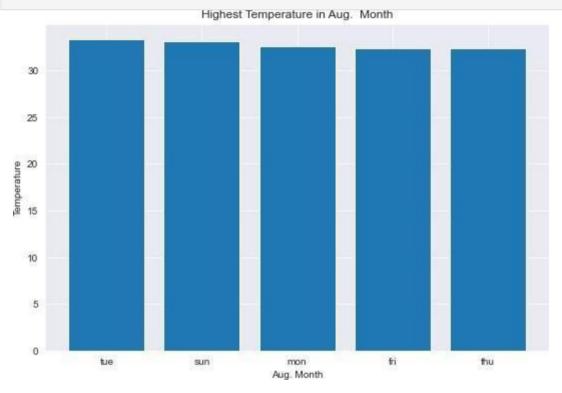
month day rain

sun

```
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'])

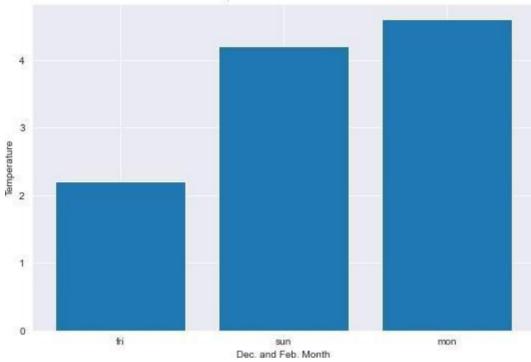
plt.xlabel("Day") plt.xlabel("Aug.
    Month")

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()
```

Lowest Temperature in Dec. and Feb. Month



In [22]: fires

Out[22]: X Y month day FFMC DMC DC ISI temp RH wind rain output

<b>0</b> 7	5	mar	fri	86.2	26.2	94.3	5.1	8.2	51	6.7	0.0	0.0
<b>1</b> 7	4	oct	tue	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
<b>2</b> 7	4	oct	sat	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
<b>3</b> 8	6	mar	fri	91.7	33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
<b>4</b> 8	6	mar	sun	89.3	51.3	102.2	9.6	11.4	99	1.8	0.0	0.0
<b>5</b> 8	6	aug	sun	92.3	85.3	488.0	14.7	22.2	29	5.4	0.0	0.0
<b>6</b> 8	6	aug	mon	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
<b>7</b> 8	6	aug	mon	91.5	145.4	608.2	10.7	8.0	86	2.2	0.0	0.0
<b>8</b> 8	6	sep	tue	91.0	129.5	692.6	7.0	13.1	63	5.4	0.0	0.0
<b>9</b> 7	5	sep	sat	92.5	88.0	698.6	7.1	22.8	40	4.0	0.0	0.0
<b>10</b> 7	5	sep	sat	92.5	88.0	698.6	7.1	17.8	51	7.2	0.0	0.0
<b>11</b> 7	5	sep	sat	92.8	73.2	713.0	22.6	19.3	38	4.0	0.0	0.0
<b>12</b> 6	5	aug	fri	63.5	70.8	665.3	0.8	17.0	72	6.7	0.0	0.0
<b>13</b> 6	5	sep	mon	90.9	126.5	686.5	7.0	21.3	42	2.2	0.0	0.0
<b>14</b> 6	5	sep	wed	92.9	133.3	699.6	9.2	26.4	21	4.5	0.0	0.0
<b>15</b> 6	5	sep	fri	93.3	141.2	713.9	13.9	22.9	44	5.4	0.0	0.0
<b>16</b> 5	5	mar	sat	91.7	35.8	80.8	7.8	15.1	27	5.4	0.0	0.0
<b>17</b> 8	5	oct	mon	84.9	32.8	664.2	3.0	16.7	47	4.9	0.0	0.0
<b>18</b> 6	4	mar	wed	89.2	27.9	70.8	6.3	15.9	35	4.0	0.0	0.0
<b>19</b> 6	4	apr	sat	86.3	27.4	97.1	5.1	9.3	44	4.5	0.0	0.0
<b>20</b> 6	4	sep	tue	91.0	129.5	692.6	7.0	18.3	40	2.7	0.0	0.0
<b>21</b> 5	4	sep	mon	91.8	78.5	724.3	9.2	19.1	38	2.7	0.0	0.0
<b>22</b> 7	4	jun	sun	94.3	96.3	200.0	56.1	21.0	44	4.5	0.0	0.0
<b>23</b> 7	4	aug	sat	90.2	110.9	537.4	6.2	19.5	43	5.8	0.0	0.0
<b>24</b> 7	4	aug	sat	93.5	139.4	594.2	20.3	23.7	32	5.8	0.0	0.0
<b>25</b> 7	4	aug	sun	91.4	142.4	601.4	10.6	16.3	60	5.4	0.0	0.0
<b>26</b> 7	4	sep	fri	92.4	117.9	668.0	12.2	19.0	34	5.8	0.0	0.0
<b>27</b> 7	4	sep	mon	90.9	126.5	686.5	7.0	19.4	48	1.3	0.0	0.0
											0.0	

<b>28</b> 6	3	sep	sat	93.4	145.4	721.4	8.1	30.2	24	2.7	0.0	0.0
<b>29</b> 6	3	sep	sun	93.5	149.3	728.6	8.1	22.8	39	3.6	0.0	0.0
<b>30</b> 6	3	sep	fri	94.3	85.1	692.3	15.9	25.4	24	3.6	0.0	0.0
<b>31</b> 6	3	sep	mon	88.6	91.8	709.9	7.1	11.2	78	7.6	0.0	0.0
<b>32</b> 6	3	sep	fri	88.6	69.7	706.8	5.8	20.6	37	1.8	0.0	0.0
<b>33</b> 6	3	sep	sun	91.7	75.6	718.3	7.8	17.7	39	3.6	0.0	0.0
<b>34</b> 6	3	sep	mon	91.8	78.5	724.3	9.2	21.2	32	2.7	0.0	0.0
<b>35</b> 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
	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

												0.0	
51			aug	sun	90.2	99.6	631.2	6.3	21.5	34	2.2	0.0	0.0
52	2 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
53	8 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
54	<b>l</b> 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	<b>5</b> 4	3	sep	tue	90.3	80.7	730.2	6.3	17.8	63	4.9	0.0	0.0
57	<b>7</b> 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	1 2	2	mar	sun	89.3	51.3	102.2	9.6	5.5	59	6.3	0.0	0.0
62	2 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	5 2	2	aug	thu	91.7	114.3	661.3	6.3	18.6	44	4.5	0.0	0.0
66	5 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	l 4	5	sep	fri	94.3	85.1	692.3	15.9	17.7	37	3.6	0.0	0.0
72	2 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
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

												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

		X Y	Y Y month	day (	day FF	MC DMC	DCDC		ISI ptemp	RH F		nd wind	rair
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	8.0	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

2 0.0 1.0

148	2	aug	tue	94.8	108.3	647.1	17.0	17.4	43	6.7		
149	86	sep	thu	93.7	80.9	685.2	17.9	23.7	25	4.5	0.0	1.0
150	65	jun	fri	92.5	56.4	433.3	7.1	23.2	39	5.4	0.0	1.0
151	99	jul	sun	90.1	68.6	355.2	7.2	24.8	29	2.2	0.0	1.0
152	34	jul	sat	90.1	51.2	424.1	6.2	24.6	43	1.8	0.0	1.0
153	54	sep	fri	94.3	85.1	692.3	15.9	20.1	47	4.9	0.0	1.0
154	15	sep	sat	93.4	145.4	721.4	8.1	29.6	27	2.7	0.0	1.0
155	74	aug	sun	94.8	108.3	647.1	17.0	16.4	47	1.3	0.0	1.0
156	24	sep	sat	93.4	145.4	721.4	8.1	28.6	27	2.2	0.0	1.0
157	22	aug	wed	92.1	111.2	654.1	9.6	18.4	45	3.6	0.0	1.0
158	24	aug	wed	92.1	111.2	654.1	9.6	20.5	35	4.0	0.0	1.0
159	74	sep	fri	92.4	117.9	668.0	12.2	19.0	34	5.8	0.0	1.0
160	74	mar	mon	90.1	39.7	86.6	6.2	16.1	29	3.1	0.0	1.0
161	64	aug	thu	95.2	131.7	578.8	10.4	20.3	41	4.0	0.0	1.0
162	63	mar	sat	90.6	50.1	100.4	7.8	15.2	31	8.5	0.0	1.0
163	86	sep	sat	92.5	121.1	674.4	8.6	17.8	56	1.8	0.0	1.0
164	85	sep	sun	89.7	90.0	704.4	4.8	17.8	67	2.2	0.0	1.0
165	65	mar	thu	84.9	18.2	55.0	3.0	5.3	70	4.5	0.0	1.0
166	65	aug	wed	92.1	111.2	654.1	9.6	16.6	47	0.9	0.0	1.0
167	65	aug	wed	96.0	127.1	570.5	16.5	23.4	33	4.5	0.0	1.0
168	65	mar	fri	91.2	48.3	97.8	12.5	14.6	26	9.4	0.0	1.0
169	86	aug	thu	95.2	131.7	578.8	10.4	20.7	45	2.2	0.0	1.0
170	54	sep	wed	92.9	133.3	699.6	9.2	21.9	35	1.8	0.0	1.0
171	86	aug	wed	85.6	90.4	609.6	6.6	17.4	50	4.0	0.0	1.0

172	74	aug	sun	91.4	142.4	601.4	10.6	20.1	39	5.4	0.0	1.0
173	44	sep	mon	90.9	126.5	686.5	7.0	17.7	39	2.2	0.0	1.0
174	14	aug	sat	90.2	96.9	624.2	8.9	14.2	53	1.8	0.0	1.0
175	14	aug	sat	90.2	96.9	624.2	8.9	20.3	39	4.9	0.0	1.0
176	65	apr	thu	81.5	9.1	55.2	2.7	5.8	54	5.8	0.0	1.0
177	25	aug	sun	90.2	99.6	631.2	6.3	19.2	44	2.7	0.0	1.0
178	25	sep	wed	90.1	82.9	735.7	6.2	18.3	45	2.2	0.0	1.0
179	86	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	1.0
180	13	sep	sun	92.4	124.1	680.7	8.5	23.9	32	6.7	0.0	1.0
181	86	oct	mon	84.9	32.8	664.2	3.0	19.1	32	4.0	0.0	1.0
182	54	feb	sun	86.8	15.6	48.3	3.9	12.4	53	2.2	0.0	1.0
183	74	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		1.0

	X			onthmo		MCDM	DCDC		ISI nptemp			d wind	
185	2		sep	tue	91.0	129.5	692.6	7.0	17.6	46	3.1	0.0	1.0
186	8 <b>X</b>	Ý	nomth	Sday	FFMC	₽₩Ģ	102 <b>52</b> C	PSP	temp <sup>5</sup>	<sup>39</sup> RH	5√n :	l <sup>O</sup> rain	output
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	1.0.0
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
222		3	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8		
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

	ΧY	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
	6										0.0	1.0
255	25	aug	thu	87.5	77.0	694.8	5.0	22.3	46	4.0	0.0	0.0
256	86	aug	sat	94.2	117.2	581.1	11.0	23.9	41	2.2	0.0	1.0
257	43	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

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

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
	8											0.0	1.0
292	4	5	jul	fri	91.6	100.2	466.3	6.3	22.9	40	1.3	0.0	1.0
293	7	6	jul 	tue	93.1	180.4	430.8	11.0	26.9	28	5.4	0.0	1.0
294	8	6	jul	tue	92.3	88.8	440.9	8.5	17.1	67	3.6	0.0	1.0
295	7	5	jun	sun	93.1	180.4	430.8	11.0	22.2	48	1.3	0.0	0.0
296 297		86	jun jun	sun sun	90.4 90.4	89.5 89.5	290.8 290.8	6.4 6.4	14.3 15.4	46 45	1.8 2.2	0.0	0.0
298		86	jun	wed	91.2	147.8	377.2	12.7	19.6	43	4.9	0.0	0.0
299		65	jun	sat	53.4	71.0	233.8	0.4	10.6	90	2.7	0.0	0.0
300		65	jun	mon	90.4	93.3	298.1	7.5	20.7	25	4.9	0.0	0.0
301		65	jun	mon	90.4	93.3	298.1	7.5	19.1	39	5.4	0.0	1.0
302		36	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0
303		36	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0
304		65	may	sat	85.1	28.0	113.8	3.5	11.3	94	4.9	0.0	0.0
305		14	sep	sun	89.6	84.1	714.3	5.7	19.0	52	2.2	0.0	0.0
306		74	sep	sun	89.6	84.1	714.3	5.7	17.1	53	5.4	0.0	1.0
307		34	sep	sun	89.6	84.1	714.3	5.7	23.8	35	3.6	0.0	1.0
308		24	sep	sun	92.4	105.8	758.1	9.9	16.0	45	1.8	0.0	0.0
309		24	sep	sun	92.4	105.8	758.1	9.9	24.9	27	2.2	0.0	0.0
310		74	sep	sun	92.4	105.8	758.1	9.9	25.3	27	2.7	0.0	0.0
311		63	sep	sun	92.4	105.8	758.1	9.9	24.8	28	1.8	0.0	1.0
312		24	sep	sun	50.4	46.2	706.6	0.4	12.2	78	6.3	0.0	0.0
313		65	sep	wed	92.6	115.4	777.1	8.8	24.3	27	4.9	0.0	0.0
314		44	sep	wed	92.6	115.4	777.1	8.8	19.7	41	1.8	0.0	1.0
315		34	sep	wed	91.2	134.7	817.5	7.2	18.5	30	2.7	0.0	0.0
316		45	sep	thu	92.4	96.2	739.4	8.6	18.6	24	5.8	0.0	0.0
317		44	sep	thu	92.4	96.2	739.4	8.6	19.2	24	4.9	0.0	1.0
318		65	sep	thu	92.8	119.0	783.5	7.5	21.6	27	2.2	0.0	0.0
319		54	sep	thu	92.8	119.0	783.5	7.5	21.6	28	6.3	0.0	1.0
320		63	sep	thu	92.8	119.0	783.5	7.5	18.9	34	7.2	0.0	1.0
321		14	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
322		65	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
323		35	sep	thu	90.7	136.9	822.8	6.8	12.9	39	2.7	0.0	1.0
324		65	sep	thu	88.1	53.3	726.9	5.4	13.7	56	1.8	0.0	1.0
325		14	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
326		54	sep	sat	92.2	102.3	751.5	8.4	24.1	27	3.1	0.0	0.0
327		65	sep	sat	92.2	102.3	751.5	8.4	21.2	32	2.2	0.0	0.0
328		65	sep	sat	92.2	102.3	751.5	8.4	19.7	35	1.8	0.0	0.0
329		43	sep	sat	92.2	102.3	751.5	8.4	23.5	27	4.0	0.0	1.0
330		33	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	1.0
331		74	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		1.0
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

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	RH	wind	rain	output
	10											0.0	1.0
353	7	4	sep	fri	92.1	99.0	745.3	9.6	19.8	47	2.7	0.0	1.0
354	7	4	sep	fri	92.1	99.0	745.3	9.6	18.7	50	2.2	0.0	1.0
355	4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0
356	4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0
357	6	3	sep	fri	92.5	122.0	789.7	10.2	15.9	55	3.6	0.0	0.0
358	6	3	sep	fri	92.5	122.0	789.7	10.2	19.7	39	2.7	0.0	0.0
359	1	4	sep	fri	92.5	122.0	789.7	10.2	21.1	39	2.2	0.0	1.0
360	6	5	sep	fri	92.5	122.0	789.7	10.2	18.4	42	2.2	0.0	1.0
361	4	3	sep	fri	92.5	122.0	789.7	10.2	17.3	45	4.0	0.0	1.0
362	7	4	sep	fri	88.2	55.2	732.3	11.6	15.2	64	3.1	0.0	1.0
363	4	3	sep	tue	91.9	111.7	770.3	6.5	15.9	53	2.2	0.0	1.0
364	6	5	sep	tue	91.9	111.7	770.3	6.5	21.1	35	2.7	0.0	1.0
365	6	5	sep	tue	91.9	111.7	770.3	6.5	19.6	45	3.1	0.0	1.0
366	4	5	sep	tue	91.1	132.3	812.1	12.5	15.9	38	5.4	0.0	1.0
367	4	5	sep	tue	91.1	132.3	812.1	12.5	16.4	27	3.6	0.0	0.0
368	6	5	sep	sat	91.2	94.3	744.4	8.4	16.8	47	4.9	0.0	1.0
369	4	5	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	0.0

X Y day FFMC ISI output
X Y monthmonth day FFMC DMCDMC DCDC ISI temptemp RHRH wind wind rain rain output

370	7 4	sep	sun	91.0	276.3	825.1	7.1	13.8	77	7.6	0.0	1.0
371	34	jul	wed	91.9	133.6	520.5	8.0	14.2	58	4.0	0.0	0.0
372	4 5	aug	sun	92.0	203.2	664.5	8.1	10.4	75	0.9	0.0	0.0
373	54	aug	thu	94.8	222.4	698.6	13.9	20.3	42	2.7	0.0	0.0
374	6 5	sep	fri	90.3	290.0	855.3	7.4	10.3	78	4.0	0.0	1.0
375	6 5	sep	sat	91.2	94.3	744.4	8.4	15.4	57	4.9	0.0	1.0
376	8 6	aug n	non	92.1	207.0	672.6	8.2	21.1	54	2.2	0.0	0.0
377	22	aug	sat	93.7	231.1	715.1	8.4	21.9	42	2.2	0.0	1.0
378	6 5	mar	thu	90.9	18.9	30.6	8.0	8.7	51	5.8	0.0	0.0
379	4 5	jan	sun	18.7	1.1	171.4	0.0	5.2	100	0.9	0.0	0.0
380	5 4	jul	wed	93.7	101.3	458.8	11.9	19.3	39	7.2	0.0	1.0
381	86	aug	thu	90.7	194.1	643.0	6.8	16.2	63	2.7	0.0	1.0
382	8 6	aug	wed	95.2	217.7	690.0	18.0	28.2	29	1.8	0.0	1.0
383	9 6	aug	thu	91.6	248.4	753.8	6.3	20.5	58	2.7	0.0	1.0
384	8 4	aug	sat	91.6	273.8	819.1	7.7	21.3	44	4.5	0.0	1.0
385	24	aug	sun	91.6	181.3	613.0	7.6	20.9	50	2.2	0.0	1.0
386	3 4	sep	sun	90.5	96.7	750.5	11.4	20.6	55	5.4	0.0	1.0
387	5 5	mar	thu	90.9	18.9	30.6	8.0	11.6	48	5.4	0.0	0.0
388	6 4	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	1.0
389	74	aug	fri	94.8	227.0	706.7	12.0	23.3	34	3.1	0.0	0.0
390	7 4	feb n	non	84.7	9.5	58.3	4.1	7.5	71	6.3	0.0	1.0
391	8 6	sep	fri	91.1	91.3	738.1	7.2	20.7	46	2.7	0.0	1.0
392	1 3	sep	sun	91.0	276.3	825.1	7.1	21.9	43	4.0	0.0	1.0
393	24	mar	tue	93.4	15.0	25.6	11.4	15.2	19	7.6	0.0	0.0
394	6 5	feb n	non	84.1	4.6	46.7	2.2	5.3	68	1.8	0.0	0.0
395	4 5	feb	sun	85.0	9.0	56.9	3.5	10.1	62	1.8	0.0	1.0
396	4 3	sep	sun	90.5	96.7	750.5	11.4	20.4	55	4.9	0.0	1.0
397	56	aug	sun	91.6	181.3	613.0	7.6	24.3	33	3.6	0.0	1.0
398	1 2	aug	sat	93.7	231.1	715.1	8.4	25.9	32	3.1	0.0	0.0

399	9	5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	0.0
400	9	5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	1.0
401		34	sep	thu	91.1	88.2	731.7	8.3	22.8	46	4.0	0.0	1.0
402	9	9	aug	fri	94.8	227.0	706.7	12.0	25.0	36	4.0	0.0	0.0
403	8	6	aug	thu	90.7	194.1	643.0	6.8	21.3	41	3.6	0.0	0.0
404	2	4	sep	wed	87.9	84.8	725.1	3.7	21.8	34	2.2	0.0	1.0
405		22	aug	tue	94.6	212.1	680.9	9.5	27.9	27	2.2	0.0	0.0

406	6	5	sep	sat	87.1	291.3	860.6	4.0	17.0	67	4.9	0.0	1.0
407	4	5	feb	sat	84.7	8.2	55.0	2.9	14.2	46	4.0	0.0	0.0
408	4	3	sep	fri	90.3	290.0	855.3	7.4	19.9	44	3.1	0.0	1.0
409	1	4	jul	tue	92.3	96.2	450.2	12.1	23.4	31	5.4	0.0	0.0
410	6	3	feb	fri	84.1	7.3	52.8	2.7	14.7	42	2.7	0.0	0.0
411	7	4	feb	fri	84.6	3.2	43.6	3.3	8.2	53	9.4	0.0	1.0
412	9	4	jul	mon	92.3	92.1	442.1	9.8	22.8	27	4.5	0.0	1.0
413	7	5	aug	sat	93.7	231.1	715.1	8.4	26.4	33	3.6	0.0	0.0
414	5	4	aug	sun	93.6	235.1	723.1	10.1	24.1	50	4.0	0.0	0.0
415	8	6	aug	thu	94.8	222.4	698.6	13.9	27.5	27	4.9	0.0	1.0
416	6	3	jul	tue	92.7	164.1	575.8	8.9	26.3	39	3.1	0.0	1.0

417	6	5	mar	wed	93.4	17.3	28.3	9.9	13.8	24	5.8	0.0	0.0
418	2	4	aug	sun	92.0	203.2	664.5	8.1	24.9	42	5.4	0.0	1.0
419	2	5	aug	sun	91.6	181.3	613.0	7.6	24.8	36	4.0	0.0	1.0
420	8	8	aug	wed	91.7	191.4	635.9	7.8	26.2	36	4.5	0.0	1.0
421	2	4	aug	wed	95.2	217.7	690.0	18.0	30.8	19	4.5	0.0	0.0
422	8	6	jul	sun	88.9	263.1	795.9	5.2	29.3	27	3.6	0.0	1.0
423	1	3	sep	sat	91.2	94.3	744.4	8.4	22.3	48	4.0	0.0	1.0
424	8	6	aug	sat	93.7	231.1	715.1	8.4	26.9	31	3.6	0.0	1.0
425	2	2	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
426	8	6	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
427	2	4	aug	mon	92.1	207.0	672.6	8.2	27.9	33	2.2	0.0	1.0
428	1	3	aug	thu	94.8	222.4	698.6	13.9	26.2	34	5.8	0.0	0.0
429	3	4	aug	sun	91.6	181.3	613.0	7.6	24.6	44	4.0	0.0	1.0
430	7	4	sep	thu	89.7	287.2	849.3	6.8	19.4	45	3.6	0.0	0.0
431	1	3	aug	sat	92.1	178.0	605.3	9.6	23.3	40	4.0	0.0	1.0
432	8	6	aug	thu	94.8	222.4	698.6	13.9	23.9	38	6.7	0.0	0.0
433	2	4	aug	sun	93.6	235.1	723.1	10.1	20.9	66	4.9	0.0	1.0
434	1	4	aug	fri	90.6	269.8	811.2	5.5	22.2	45	3.6	0.0	0.0
435	2	5	jul	sat	90.8	84.7	376.6	5.6	23.8	51	1.8	0.0	0.0
436	8	6	aug	mon	92.1	207.0	672.6	8.2	26.8	35	1.3	0.0	1.0
437	8	6	aug	sat	89.4	253.6	768.4	9.7	14.2	73	2.7	0.0	0.0
438	2	5	aug	sat	93.7	231.1	715.1	8.4	23.6	53	4.0	0.0	1.0
439	1	3	sep	fri	91.1	91.3	738.1	7.2	19.1	46	2.2	0.0	1.0
440	5	4	sep	fri	90.3	290.0	855.3	7.4	16.2	58	3.6	0.0	0.0
441	8	6	aug	mon	92.1	207.0	672.6	8.2	25.5	29	1.8	0.0	1.0

442	6	5	apr	mon	87.9	24.9	41.6	3.7	10.9	64	3.1	0.0	1.0
443	1	2	jul	fri	90.7	80.9	368.3	16.8	14.8	78	8.0	0.0	0.0

	X X Y Y monthmonth		day day FFMC FFMC DMCDMC			DCD	C ISI I	RHRH wind wind rain rain output					
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		jul	sun	93.7	101.3	423.4	14.7	26.1	45	4.0	0.0	1.0
	7		jul		93.7	101.3		14.7	18.2	82	4.5	0.0	1.0
410	1	4	jui	sun	<i>3</i> 3. <i>1</i>	101.5	423.4	14./	10.2	02	4.3	0.0	1.0

 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	0.8	0.0
501	7	5	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	0.8	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		4	aug	fri		166.9		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

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