# EMERGING METHODS FOR EARLY DETECTION OF FOREST FIRES

### PROJECT DEVELOPMENT PHASE

## **SPRINT 2\_IMAGE PROCESSING**

Date	07.11.2022
Team ID	PNT2022TMID23181
Project Name	Emerging Methods For Early Detection Of Forest Fires
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Team Members	U Sakthi Malavika T Maha Priya S Yoga Pandeeswari R Suba Sri

In [4]: import matplotlib.pyplot as plt
import numpy as np import pandas
as pd import seaborn as sns
from sklearn import metrics from
classification\_report,confusion\_matrix

sklearn.metrics import

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

Out[6]:		X Y mo	onth	day I	FMC	DMC	DC		ISI tem	p RH	wind ra	in area			
	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		

<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 0.0	5	se	p y	wed	92.9 1	33.3 699	9.6 9.2	26	5.4	21	4.5	

In [7]: fires.shape

(517, 13)

Out[7]: In [8]:

#show the last 10 instances of dataset fires.tail(15)

Out[8]: X Y month da

0.0

lay	FFI	ИС	DMC		DC		ISI ten	np RH	wind	rain	area			
	502	4	4	aug	tue	96.1	181.1	671.2	14.3	20.7	69	4.9	0.4	0.00
	503	2	4	aug	wed	94.5	139.4	689.1	20.0	29.2	30	4.9	0.0	1.95
	504	4	3	aug	wed	94.5	139.4	689.1	20.0	28.9	29	4.9	0.0	49.59
	505	1	2	aug	thu	91.0	163.2	744.4	10.1	26.7	35	1.8	0.0	5.80
	506	1	2	aug	fri	91.0	166.9	752.6	7.1	18.5	73	8.5	0.0	0.00
	507	2	4	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
	508	1	2	aug	fri	91.0	166.9	752.6	7.1	25.9	41	3.6	0.0	0.00
	509	5	4	aug	fri	91.0	166.9	752.6	7.1	21.1	71	7.6	1.4	2.17
	510	6	5	aug	fri	91.0	166.9	752.6	7.1	18.2	62	5.4	0.0	0.43
	511	8	6	aug	sun	81.6	56.7	665.6	1.9	27.8	35	2.7	0.0	0.00
	512	4	3	aug	sun	81.6	56.7	665.6	1.9	27.8	32	2.7	0.0	6.44
	513	2	4	aug	sun	81.6	56.7	665.6	1.9	21.9	71	5.8	0.0	54.29
	514	7	4	aug	sun	81.6	56.7	665.6	1.9	21.2	70	6.7	0.0	11.16
	515	1	4	aug	sat	94.4	146.0	614.7	11.3	25.6	42	4.0	0.0	0.00
	516	6	3	nov	tue	79.5	3.0	106.7	1.1	11.8	31	4.5	0.0	0.00

In [9]: fires.info()

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

.... ----- ------

- 0 X 517 non-null int64
- 1 Y 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

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

In [10]: Out[10]:

count

	mean	sta	min	25%	50%	75%	max	
х	517.0	4.669246	2.313778	1.0	3.0	4.00	7.00	9.00
Y	517.0	4.299807	1.229900	2.0	4.0	4.00	5.00	9.00
FFMC	517.0	90.644681	5.520111	18.7	90.2	91.60	92.90	96.20

**DMC** 517.0 110.872340 64.046482 1.1 68.6 108.30 142.40 291.30 **DC** 517.0 547.940039 248.066192 7.9 437.7 664.20 713.90 860.60

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

ISI 517.0 9.021663 4.559477 0.0 6.5 8.40 10.80 56.10

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]:

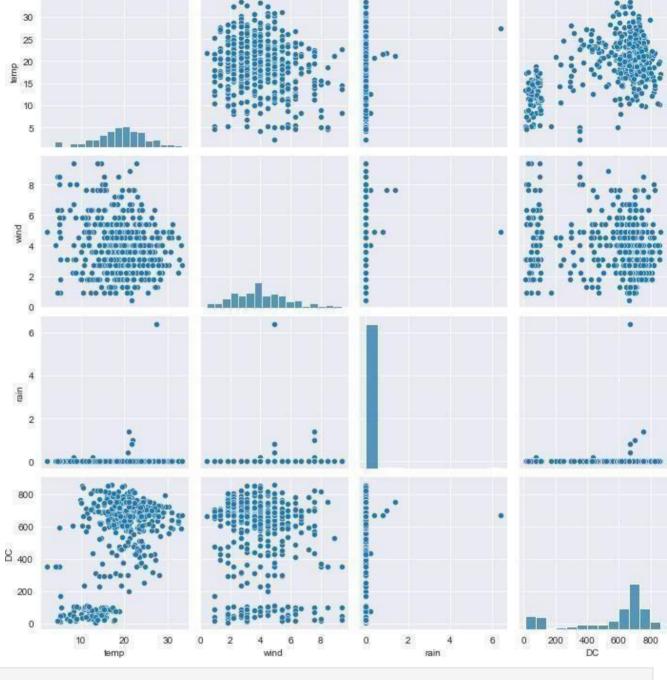
Οι	ut[11	1]:	X	Y mo	onth	day	FFMC	DMC	DC	ISI t	emp	RH	wind	rain	output
0	7	5	mar	fri oct	8	6.2	26.2	94.3	5.1	8.2	2	51	6.7	0.0	0.0
1	7			4	tue oc	t sat	90.6	35.4	669.1	6.7	18.0	33	0.9	0.0	0.0
				4	mar fr	i mar	90.6	43.7	686.9	6.7	14.6	33	1.3	0.0	0.0
2	1			6	sun	aug	91.7								
								33.3	77.5	9.0	8.3	97	4.0	0.2	0.0
3	8	6	sun	89.	3 5	1.3 1	02.2	9.6	11.4	99		1.8	0.0	0.0	)
4	8	85.3 48	38.0 1	6 4.7	aug 2 aug r	2.2	92.3 29	5.4	0.0	0.0	)				
				6	sep	tue	92.3	88.9	495.6	8.5	24.1	27	3.1	0.0	0.0
5	8	sep sat	91.5		608.2	10.7	8.0	86	2.2	0.0	)	0.0			
6	8	6	91.0	129.5	692.6		7.0	13.1	63	5.4	1	0.0	0.0		
_	0	02.5	00.0	5	-	4	22.0	40	4.0	0.0		0.0			
7	8	92.5	88.0	698.6	/	.1	22.8	40	4.0	0.0	)	0.0			

8 8

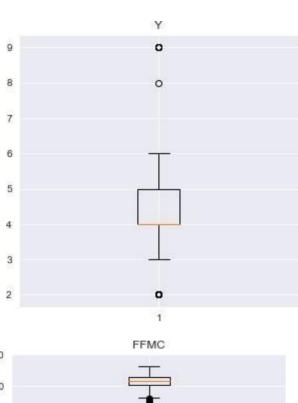
9 7

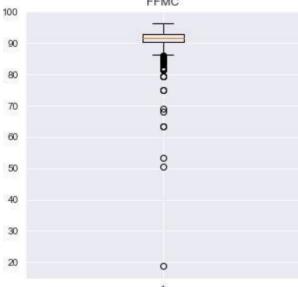
In [12]: Out[12]:	fires.com	r()									
Х		Y	FFMC	рмс рмс	DC	ISI	temp	RH	wind		
	х	1.000000 0.5	539548	-0.021039	-0.048384	-0.085916	0.006210	-0.051258	0.085223	0.018798	0.065

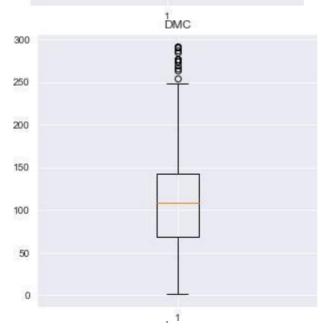
```
0.539548 1.000000
                                        -0.046308
                                                    0.007782 -0.101178 -0.024488
                                                                                  -0.024103
                                                                                               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
               ISI
                      0.006210 -0.024488
                                         0.531805
                                                    0.305128
                                                               0.229154
                                                                          1.000000
                                                                                    0.394287
                                                                                              -0.132517
                                                                                                          0.106826
                                                                                                                    0.067
             temp -0.051258 -0.024103
                                         0.431532
                                                    0.469594
                                                               0.496208
                                                                          0.394287
                                                                                    1.000000
                                                                                              -0.527390
                                                                                                         -0.227116
                                                                                                                   0.069
               RH
                       0.085223 0.062221
                                         -0.300995
                                                              -0.039192
                                                                         -0.132517
                                                                                   -0.527390
                                                                                               1.000000
                                                                                                         0.069410
                                                                                                                   0.099
                                                    0.073795
             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
           output
                    0.062491 0.056892
                                          0.073823
                                                    0.062672
                                                               0.096724
                                                                          0.035663
                                                                                     0.076047 -0.035587
                                                                                                            0.055702 0.025
In [15]:
           numerical_feature = fires.describe(include=["int", "float"]).columns
           # Print it in list type ..
           print(list(numerical_feature))
           ['X', 'Y', 'FFMC', 'DMC', 'DC', 'ISI', 'temp', 'RH', 'wind', 'rain', 'output']
In [16]:
           sns.set style('darkgrid')
           # Find the relation #
           plt.subplot(fires)
            sns.pairplot(fires[["temp", "wind",
           "rain","DC"]]) plt.show()
```

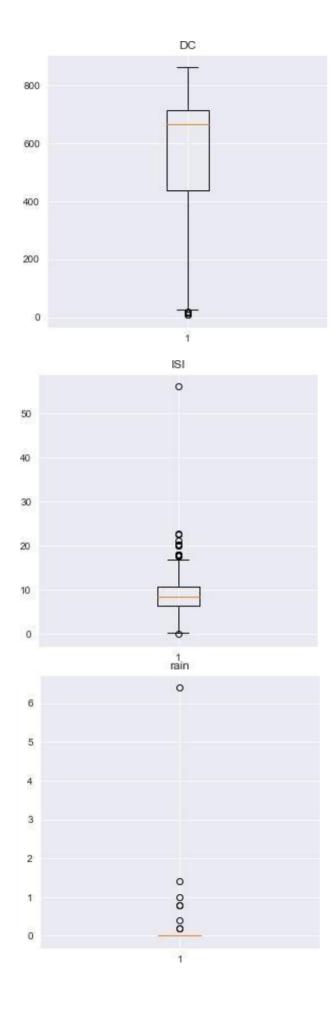


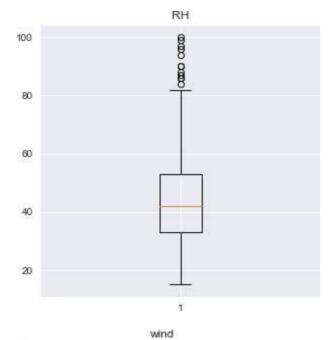
```
In [17]: for idx, col in enumerate(numerical_feature, 1):
        plt.figure(figsize=(5,5))
# plt.subplot(len(numerical_feature) // 2, 3, idx) plt.boxplot(fires[col])
plt.title(col)
# plt.hist(fires[col])
plt.tight_layout()
plt.show(plt)
```

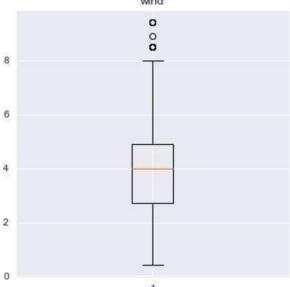


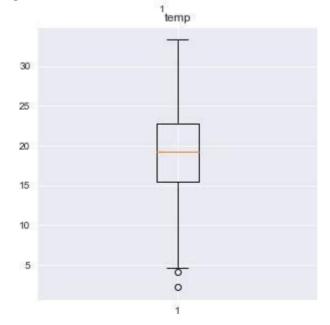


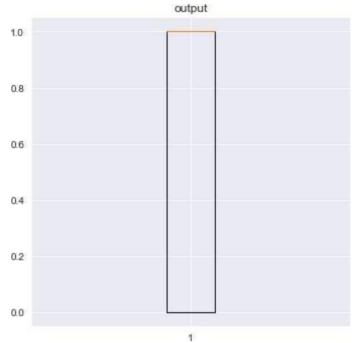












```
In [18]:
```

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

- 0.8

- 0.6

- 0.4

- 0.2

- 0.0

- -0.2

- -0.4

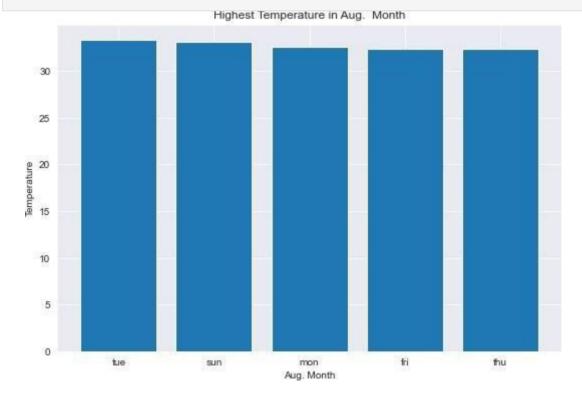
#### Out[19]: month day rain

499	aug tue	6.4
509	aug fri	1.4
243	aug sun	1.0
500	aug tue	0.8
501	aug tue	8.0

```
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'])

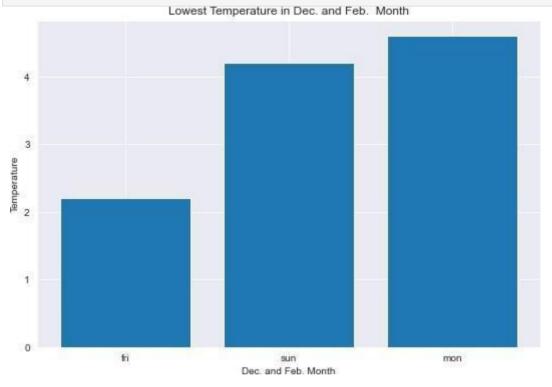
plt.xlabel("Day") plt.xlabel("Aug.
    Month")

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	рмс	DC	ISI	temp		RH wi	ind raii	n 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
1	<b>0</b> 7	5	sep	sat	92.5	88.0	698.6	7.1	17.8	51	7.2	0.0	0.0
1	<b>1</b> 7	5	sep	sat	92.8	73.2	713.0	22.6	19.3	38	4.0	0.0	0.0
1.	<b>2</b> 6	5	aug	fri	63.5	70.8	665.3	0.8	17.0	72	6.7	0.0	0.0
13	<b>3</b> 6	5	sep	mon	90.9	126.5	686.5	7.0	21.3	42	2.2	0.0	0.0
1.	<b>4</b> 6	5	sep	wed	92.9	133.3	699.6	9.2	26.4	21	4.5	0.0	0.0
1!	<b>5</b> 6	5	sep	fri	93.3	141.2	713.9	13.9	22.9	44	5.4	0.0	0.0
1	<b>6</b> 5	5	mar	sat	91.7	35.8	80.8	7.8	15.1	27	5.4	0.0	0.0
17	<b>7</b> 8	5	oct	mon	84.9	32.8	664.2	3.0	16.7	47	4.9	0.0	0.0
1	<b>8</b> 6	4	mar	wed	89.2	27.9	70.8	6.3	15.9	35	4.0	0.0	0.0
19	<b>9</b> 6	4	apr	sat	86.3	27.4	97.1	5.1	9.3	44	4.5	0.0	0.0

Out[22]:

<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
		3										
<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
<b>28</b> 6	2			02.4	145.4	701.4	0.1	20.2	24	2.7	0.0	0.0
	3	sep	sat	95.4	143.4	721.4	8.1	30.2	24	2.1	0.0	0.0
<b>29</b> 6	3	sep	sat	93.5	149.3	728.6	8.1	22.8	39	3.6	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>29</b> 6 <b>30</b> 6	3	sep	sun fri	93.5 94.3	149.3 85.1	728.6 692.3	8.1 15.9	22.8 25.4	39 24	3.6 3.6	0.0	0.0
29 6 30 6 31 6	3 3 3	sep sep	sun fri mon	93.5 94.3 88.6	149.3 85.1 91.8	728.6 692.3 709.9	8.1 15.9 7.1	22.8 25.4 11.2	39 24 78	3.6 3.6 7.6	0.0 0.0 0.0	0.0
29 6 30 6 31 6 32 6	3 3 3	sep sep sep	sun fri mon fri sun	93.5 94.3 88.6 88.6	149.3 85.1 91.8 69.7 75.6	728.6 692.3 709.9 706.8	8.1 15.9 7.1 5.8	22.8 25.4 11.2 20.6	<ul><li>39</li><li>24</li><li>78</li><li>37</li></ul>	3.6 3.6 7.6 1.8	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
29 6 30 6 31 6 32 6	3 3 3 3	sep sep sep sep sep	sun fri mon fri sun	93.5 94.3 88.6 88.6 91.7 91.8	149.3 85.1 91.8 69.7 75.6 78.5	728.6 692.3 709.9 706.8 718.3 724.3	8.1 15.9 7.1 5.8 7.8	22.8 25.4 11.2 20.6 17.7 21.2	<ul><li>39</li><li>24</li><li>78</li><li>37</li><li>39</li><li>32</li></ul>	3.6 3.6 7.6 1.8	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0

	ΧY	month	day F	FMC D	MC	DC	_	ISI t	emp l	RH win	d rain	output
<b>37</b> 7	4	oct	fri	90.0	41.5	682.6	8.7	11.3	60	5.4	0.0	0.0
<b>38</b> 7	3	oct	sat	90.6	43.7	686.9	6.7	17.8	27	4.0	0.0	0.0
<b>39</b> 4	4	mar	tue	88.1	25.7	67.6	3.8	14.1	43	2.7	0.0	0.0
<b>40</b> 4	4	jul	tue	79.5	60.6	366.7	1.5	23.3	37	3.1	0.0	0.0
<b>41</b> 4	4	aug	sat	90.2	96.9	624.2	8.9	18.4	42	6.7	0.0	0.0
<b>42</b> 4	4	aug	tue	94.8	108.3	647.1	17.0	16.6	54	5.4	0.0	0.0

<b>43</b> 4	4	sep	sat	92.5	88.0	698.6	7.1	19.6	48	2.7	0.0	0.0
<b>44</b> 4	4	sep	wed	90.1	82.9	735.7	6.2	12.9	74	4.9	0.0	0.0
<b>45</b> 5	6	sep	wed	94.3	85.1	692.3	15.9	25.9	24	4.0	0.0	0.0
<b>46</b> 5	6	sep	mon	90.9	126.5	686.5	7.0	14.7	70	3.6	0.0	0.0
<b>47</b> 6	6	jul	mon	94.2	62.3	442.9	11.0	23.0	36	3.1	0.0	0.0
<b>48</b> 4	4	mar	mon	87.2	23.9	64.7	4.1	11.8	35	1.8	0.0	0.0
<b>49</b> 4	4	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	0.0
<b>50</b> 4	4	sep	thu	92.9	137.0	706.4	9.2	20.8	17	1.3	0.0	0.0
<b>51</b> 4	3	aug	sun	90.2	99.6	631.2	6.3	21.5	34	2.2	0.0	0.0
<b>52</b> 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
<b>53</b> 4	3	aug	wed	92.1	111.2	654.1	9.6	20.4	42	4.9	0.0	0.0
<b>54</b> 4	3	aug	thu	91.7	114.3	661.3	6.3	17.6	45	3.6	0.0	0.0
<b>55</b> 4	3	sep	thu	92.9	137.0	706.4	9.2	27.7	24	2.2	0.0	0.0
<b>56</b> 4	3	sep	tue	90.3	80.7	730.2	6.3	17.8	63	4.9	0.0	0.0
<b>57</b> 4	3	oct	sun	92.6	46.5	691.8	8.8	13.8	50	2.7	0.0	0.0
<b>58</b> 2	2	feb	mon	84.0	9.3	34.0	2.1	13.9	40	5.4	0.0	0.0
<b>59</b> 2	2	feb	fri	86.6	13.2	43.0	5.3	12.3	51	0.9	0.0	0.0
<b>60</b> 2	2	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	0.0
<b>61</b> 2	2	mar	sun	89.3	51.3	102.2	9.6	5.5	59	6.3	0.0	0.0
<b>62</b> 2	2	aug	thu	93.0	75.3	466.6	7.7	18.8	35	4.9	0.0	0.0
<b>63</b> 2	2	aug	sun	90.2	99.6	631.2	6.3	20.8	33	2.7	0.0	0.0
<b>64</b> 2	2	aug	mon	91.1	103.2	638.8	5.8	23.1	31	3.1	0.0	0.0
<b>65</b> 2	2	aug	thu	91.7	114.3	661.3	6.3	18.6	44	4.5	0.0	0.0
<b>66</b> 2	2	sep	fri	92.4	117.9	668.0	12.2	23.0	37	4.5	0.0	0.0
<b>67</b> 2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	5.4	0.0	0.0
<b>68</b> 2	2	sep	fri	92.4	117.9	668.0	12.2	19.6	33	6.3	0.0	0.0
<b>69</b> 4	5	mar	fri	91.7	33.3	77.5	9.0	17.2	26	4.5	0.0	0.0

1	<b>70</b> 4	5	mar	fri	91.2	48.3	97.8	12.5	15.8	27	7.6	0.0	0.0
	<b>71</b> 4	5	sep	fri	94.3	85.1	692.3	15.9	17.7	37	3.6	0.0	0.0
	<b>72</b> 5	4	mar	fri	91.7	33.3	77.5	9.0	15.6	25	6.3	0.0	0.0
	<b>73</b> 5	4	aug	tue	88.8	147.3	614.5	9.0	17.3	43	4.5	0.0	0.0
74		5 4	sep	fri	93.3	141.2	713.9	13.9	27.6	30	1.3	0.0	0.0
75		99	feb	thu	84.2	6.8	26.6	7.7	6.7	79	3.1	0.0	0.0
76		99	feb	fri	86.6	13.2	43.0	5.3	15.7	43	3.1	0.0	0.0
77		13	mar	mon	87.6	52.2	103.8	5.0	8.3	72	3.1	0.0	0.0
78		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		44	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 wind rain out	4 tput	n	nar	fri	85.9	19.	.5 5	7.3	2.8	13.7	43	5.8	8	0.0 <b>RH</b>
	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		5	mar	mon	87.6	52.2	103.8	5.0	9.0	49	2.2	0.0	0.0
127		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		6	sep	thu	93.7	80.9	685.2		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	าดท	90.9	126.5	686.5	7.0	15.6	66	3.1	0.0	0.0
138		9	jul				313.4			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
4.0			month	_					-	20	1.0	0.0	1.0
140					90.9			7.0	21.9	39	1.8	0.0	1.0
141 142			_		95.5 90.1 10				23.3 5 21	31	4.5 8.9	0.0	1.0 1.0
143 144			•			9.9		96.3 8 13.3 13					1.0
			J										
145 146			aug mar r		<ul><li>95.2 13</li><li>90.1 3</li></ul>	1.7 9.7		8.8 10 86.6 6	).4 27. 5.2 13		4.0 5.4	0.0	1.0

<b>147</b> 8	3	sep	tue	84.4	73.4		671.	9 3	.2 2	4.2	28	3.6	0.0	1.0
<b>148</b> 2	2	aug	tue		108.3	647	7.1	17	'.0 1	7.4	43	6.7	0.0	1.0
<b>149</b> 8	6	sep	thu	93.7	80.9		685.2	2 17	.9 2	3.7	25	4.5	0.0	1.0
<b>150</b> 6	5	jun	fri	92.5	56.4		433.	3 7	'.1 2	3.2	39	5.4	0.0	1.0
<b>151</b> 9	9	jul	sun	90.1	68.6		355.2	2 7	'.2 2	4.8	29	2.2	0.0	1.0
<b>152</b> 3	4	jul	sat	90.1	51.2		424.	1 6	5.2 2	4.6	43	1.8	0.0	1.0
<b>153</b> 5	4	sep	fri	94.3	85.1		692.	3 15	.9 2	0.1	47	4.9	0.0	1.0
<b>154</b> 1	5	sep	sat	93.4	145.4		721.4	4 8	3.1 2	9.6	27	2.7	0.0	1.0
<b>155</b> 7	4	aug	sun	94.8	108.3		647.	1 17	.0 1	6.4	47	1.3	0.0	1.0
<b>156</b> 2	4	sep	sat	93.4	145.4		721.4	4 8	3.1 2	8.6	27	2.2	0.0	1.0
<b>157</b> 2	2	aug	wed	92.1	111.2		654.	1 9	.6 1	8.4	45	3.6	0.0	1.0
<b>158</b> 2	4	aug	wed	92.1	111.2		654.	1 9	.6 2	0.5	35	4.0	0.0	1.0
<b>159</b> 7	4	sep	fri	92.4	117.9		668.0	) 12	2 1	9.0	34	5.8	0.0	1.0
<b>160</b> 7	4	mar	mon	90.1	39.7		86.0	5 6	5.2 1	6.1	29	3.1	0.0	1.0
<b>161</b> 6	4	aug	thu	95.2	131.7		578.8	3 10	.4 2	0.3	41	4.0	0.0	1.0
<b>162</b> 6	3	mar	sat	90.6	50.1		100.4	4 7	'.8 1	5.2	31	8.5	0.0	1.0
<b>163</b> 8	6	sep	sat	92.5	121.1		674.4	4 8	3.6 1	7.8	56	1.8	0.0	1.0
<b>164</b> 8	5	sep	sun	89.7	90.0		704.4	4 4	.8 1	7.8	67	2.2	0.0	1.0
<b>165</b> 6	5	mar	thu	84.9	18.2		55.0	) 3	.0	5.3	70	4.5	0.0	1.0
<b>166</b> 6	5	aug	wed	92.1	111.2		654.	1 9	.6 1	6.6	47	0.9	0.0	1.0
<b>167</b> 6	5	aug	wed	96.0	127.1		570.	5 16	5.5 2	3.4	33	4.5	0.0	1.0
<b>168</b> 6	5	mar	fri	91.2	48.3		97.8	3 12	5 1	4.6	26	9.4	0.0	1.0
<b>169</b> 8	6	aug	thu	95.2	131.7		578.8	3 10	.4 2	0.7	45	2.2	0.0	1.0
<b>170</b> 5	4	sep	wed	92.9	133.3		699.	5 9	.2 2	1.9	35	1.8	0.0	1.0
<b>171</b> 8	6	aug	wed	85.6	90.4		609.	5 6	5.6 1	7.4	50	4.0	0.0	1.0
<b>172</b> 7	4	aug	sun	91.4	142.4		601.4	4 10	.6 2	0.1	39	5.4	0.0	1.0
<b>173</b> 4	4	sep	mon	90.9	126.5		686.	5 7	'.0 1	7.7	39	2.2	0.0	1.0
4=4.4	_						6040	0.0		_	2	4.0	0.0	4.5
<b>174</b> 1 <b>175</b> 1	4	aug	_					8.9 8.9	14.2 20.3	5 3	3 9	1.8 4.9	0.0	1.0
<b>176</b> 6	5					9.1		2.7	5.8		4	5.8	0.0	1.0
1/00	Э	apr	thu	Ö	1.5	J. I	55.2	۷.1	5.0	Э	+	٥.د	U.U	1.0

<b>177</b> 2	5	aug	sun	90.2	99.6	631.2	6.3	19.2	44	2.7	0.0	1.0
<b>178</b> 2	5	sep	wed	90.1	82.9	735.7	6.2	18.3	45	2.2	0.0	1.0
<b>179</b> 8	6	aug	tue	88.8	147.3	614.5	9.0	14.4	66	5.4	0.0	1.0
<b>180</b> 1	3	sep	sun	92.4	124.1	680.7	8.5	23.9	32	6.7	0.0	1.0
<b>181</b> 8	6	oct	mon	84.9	32.8	664.2	3.0	19.1	32	4.0	0.0	1.0
<b>182</b> 5	4	feb	sun	86.8	15.6	48.3	3.9	12.4	53	2.2	0.0	1.0
<b>183</b> 7	4	oct	mon	91.7	48.5	696.1	11.1	16.8	45	4.5	0.0	1.0
184	8	6	au	g f	ri	93.9	135.7	586.	7 1	5.1	20.8	34
	4.9	1.0	RH win	d rain	outpu	ıt						
<b>185</b> 2	5	sep	tue	91.0	129.5	692.6	7.0	17.6	46	3.1	0.0	1.0
<b>186</b> 8	6	mar	sun	89.3	51.3	102.2	9.6	11.5	39	5.8	0.0	1.0
<b>187</b> 1	5	sep	mon	90.9	126.5	686.5	7.0	21.0	42	2.2	0.0	1.0
<b>188</b> 6	4	mar	sat	90.8	41.9	89.4	7.9	13.3	42	0.9	0.0	1.0
<b>189</b> 7	4	mar	sun	90.7	44.0	92.4	5.5	11.5	60	4.0	0.0	1.0
<b>190</b> 6	5	mar	fri	91.2	48.3	97.8	12.5	11.7	33	4.0	0.0	1.0
<b>191</b> 2	5	aug	thu	95.2	131.7	578.8	10.4	24.2	28	2.7	0.0	1.0
<b>192</b> 2	2	aug	tue	94.8	108.3	647.1	17.0	24.6	22	4.5	0.0	1.0
<b>193</b> 4	5	sep	wed	92.9	133.3	699.6	9.2	24.3	25	4.0	0.0	1.0
<b>194</b> 2	2	aug	tue	94.8	108.3	647.1	17.0	24.6	22	4.5	0.0	1.0
<b>195</b> 2	5	aug	fri	93.9	135.7	586.7	15.1	23.5	36	5.4	0.0	1.0
<b>196</b> 6	5	apr	thu	81.5	9.1	55.2	2.7	5.8	54	5.8	0.0	1.0
<b>197</b> 4	5	sep	thu	92.9	137.0	706.4	9.2	21.5	15	0.9	0.0	1.0
<b>198</b> 3	4	sep	tue	91.0	129.5	692.6	7.0	13.9	59	6.3	0.0	1.0
<b>199</b> 2	4	sep	mon	63.5	70.8	665.3	0.8	22.6	38	3.6	0.0	1.0
<b>200</b> 1	5	sep	tue	91.0	129.5	692.6	7.0	21.6	33	2.2	0.0	1.0
<b>201</b> 6	5	mar	sun	90.1	37.6	83.7	7.2	12.4	54	3.6	0.0	1.0
<b>201</b> 0 <b>202</b> 7	4	feb	sun	83.9	8.7	32.1	2.1	8.8	68	2.2	0.0	1.0
	•		J	55.5	٥.,	J	'	5.5			2.3	

203	8	6	oct	wed	91.4	37.9	673.8	5.2	20.2	37	2.7	0.0	1.0
203	5	6	mar	sat	90.6	50.1	100.4	7.8	15.1	64	4.0	0.0	1.0
204	5	0	IIIai	Sat	90.6	50.1	100.4	7.0	15.1	04	4.0	0.0	1.0
	X	Y	month	day	FFMC	DMC	DC	ISI	temp				
205	4	5	sep	thu	92.9	137.0	706.4	9.2	22.1	34	1.8	0.0	1.0
206	2	2	aug	sat	93.5	139.4	594.2	20.3	22.9	31	7.2	0.0	1.0
207	7	5	sep	tue	91.0	129.5	692.6	7.0	20.7	37	2.2	0.0	1.0
208	6	5	sep	fri	92.4	117.9	668.0	12.2	19.6	33	6.3	0.0	1.0
209	8	3	sep	thu	93.7	80.9	685.2	17.9	23.2	26	4.9	0.0	1.0
210	4	4	oct	sat	90.6	43.7	686.9	6.7	18.4	25	3.1	0.0	1.0
211	7	4	aug	sat	93.5	139.4	594.2	20.3	5.1	96	5.8	0.0	1.0
212	7	4	sep	fri	94.3	85.1	692.3	15.9	20.1	47	4.9	0.0	1.0
213	7	3	mar	mon	87.6	52.2	103.8	5.0	11.0	46	5.8	0.0	1.0
214	4	4	mar	sat	91.7	35.8	80.8	7.8	17.0	27	4.9	0.0	1.0
215	4	4	mar	sat	91.7	35.8	80.8	7.8	17.0	27	4.9	0.0	1.0
216	4	4	sep	sun	92.4	124.1	680.7	8.5	16.9	60	1.3	0.0	1.0
217	1	3	sep	mon	88.6	91.8	709.9	7.1	12.4	73	6.3	0.0	1.0
218	4	5	sep	wed	92.9	133.3	699.6	9.2	19.4	19	1.3	0.0	1.0
219	6	5	mar	mon	90.1	39.7	86.6	6.2	15.2	27	3.1	0.0	1.0
220	8	6	aug	sun	90.2	99.6	631.2	6.3	16.2	59	3.1	0.0	1.0
221	3	4	sep	fri	93.3	141.2	713.9	13.9	18.6	49	3.6	0.0	1.0

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

X Y month

day FFMC DMC

DC

ISI temp

RH wind rain output

sat 0.0

x	Y	month	day	FFMC	DMC	DC	ISI	temp	R	H wind	l rain	output
<b>244</b> 2	4	aug	sun	91.8	175.1	700.7	13.8	22.4	54	7.6	0.0	1.0
<b>245</b> 3	4	aug	sun	91.8	175.1	700.7	13.8	26.8	38	6.3	0.0	1.0
<b>246</b> 5	4	aug	sun	91.8	175.1	700.7	13.8	25.7	39	5.4	0.0	1.0
<b>247</b> 2	4	aug	wed	92.2	91.6	503.6	9.6	20.7	70	2.2	0.0	1.0
<b>248</b> 8	6	aug	wed	93.1	1 157.3	666.7	13.5	28.7	28	2.7	0.0	0.0
<b>249</b> 3	4	aug	wed	93.1	1 157.3	666.7	13.5	21.7	40	0.4	0.0	1.0
<b>250</b> 8	5	aug	wed	93.1	157.3	666.7	13.5	26.8	25	3.1	0.0	1.0
<b>251</b> 8	5	aug	wed	93.1	157.3	666.7	13.5	24.0	36	3.1	0.0	1.0
<b>252</b> 6	5	aug	wed	93.1	157.3	666.7	13.5	22.1	37	3.6	0.0	1.0
<b>253</b> 7	4	aug	thu	91.9	109.2	565.5	8.0	21.4	38	2.7	0.0	1.0
<b>254</b> 6	3	aug	thu	91.6	138.1	621.7	6.3	18.9	41	3.1	0.0	1.0
<b>255</b> 2	5	aug	thu	87.5	77.0	694.8	5.0	22.3	46	4.0	0.0	0.0
<b>256</b> 8	6	aug	sat	94.2	117.2	581.1	11.0	23.9	41	2.2	0.0	1.0
<b>257</b> 4	3	aug	sat	94.2	117.2	581.1	11.0	21.4	44	2.7	0.0	1.0
<b>258</b> 3	4	aug		91.8	170.9	692.3	13.7	20.6	59	0.9		0.0
<b>259</b> 7	4	aug	sat	91.8	170.9	692.3	13.7	23.7	40	1.8	0.0	1.0
<b>260</b> 2	4	aug	mon	93.6	97.9	542.0	14.4	28.3	32	4.0	0.0	1.0
<b>261</b> 3	4	aug	fri	91.6	112.4	573.0	8.9	11.2	84	7.6	0.0	1.0
<b>262</b> 2	4	aug	fri	91.6	112.4	573.0	8.9	21.4	42	3.1	0.0	1.0
<b>263</b> 6	3	aug	fri	91.1	141.1	629.1	7.1	19.3	39	3.6	0.0	1.0
<b>264</b> 4	4	aug	fri	94.3	167.6	684.4	13.0	21.8	53	3.1	0.0	1.0
<b>265</b> 4	4	aug	tue	93.7	102.2	550.3	14.6	22.1	54	7.6	0.0	1.0
			sat								0.0	

sat 0.0

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	R	RH wind	l rain	output
266	5	5	aug	tue	94.3	131.7	607.1	22.7	19.4	55	4.0	0.0	1.0
267 2	2	2	aug	tue	92.1	152.6	658.2	14.3	23.7	24	3.1	0.0	0.0
<b>268</b> 3	3	4	aug	tue	92.1	152.6	658.2	14.3	21.0	32	3.1	0.0	0.0
269 4	4	4	aug	tue	92.1	152.6	658.2	14.3	19.1	53	2.7	0.0	1.0
270 2	2	2	aug	tue	92.1	152.6	658.2	14.3	21.8	56	3.1	0.0	1.0
<b>271</b> 8	3	6	aug	tue	92.1	152.6	658.2	14.3	20.1	58	4.5	0.0	1.0
272 2	2	5	aug	tue	92.1	152.6	658.2	14.3	20.2	47	4.0	0.0	1.0
273 4	1	6	dec	sun	84.4	27.2	353.5	6.8	4.8	57	8.5	0.0	1.0
274 8	3	6	dec	wed	84.0	27.8	354.6	5.3	5.1	61	8.0	0.0	1.0
275 4	4	6	dec	thu	84.6	26.4	352.0	2.0	5.1	61	4.9	0.0	1.0
276 4	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
<b>277</b> 3	3	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
278 4	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
279 4	4	4	dec	mon	85.4	25.4	349.7	2.6	4.6	21	8.5	0.0	1.0
280 4	4	6	dec	fri	84.7	26.7	352.6	4.1	2.2	59	4.9	0.0	1.0
281 6	5	5	dec	tue	85.4	25.4	349.7	2.6	5.1	24	8.5	0.0	1.0
282	5	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	5	4	feb	fri	85.2	4.9	15.8	6.3	7.5	46	8.0	0.0	1.0
285 2	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	7	4	jul	sat	91.6	104.2	474.9	9.0	24.3	30	1.8	0.0	0.0

х	Y	month	day	FFMC	DMC	DC	ISI	temp	R	H wind	l rain	output
<b>290</b> 2	5	jul	sat	91.6	104.2	474.9	9.0	18.7	53	1.8	0.0	0.0
<b>291</b> 9	4	jul	sat	91.6	104.2	474.9	9.0	25.3	39	0.9	0.0	1.0
<b>292</b> 4	5	jul	fri	91.6	100.2	466.3	6.3	22.9	40	1.3	0.0	1.0
<b>293</b> 7	6	jul	tue	93.1	180.4	430.8	11.0	26.9	28	5.4	0.0	1.0
<b>294</b> 8	6	jul	tue	92.3	88.8	440.9	8.5	17.1	67	3.6	0.0	1.0
<b>295</b> 7	5	jun	sun	93.1	180.4	430.8	11.0	22.2	48	1.3	0.0	0.0
<b>296</b> 6	4	jun	sun	90.4	89.5	290.8	6.4	14.3	46	1.8	0.0	1.0
<b>297</b> 8	6	jun	sun	90.4	89.5	290.8	6.4	15.4	45	2.2	0.0	0.0
<b>298</b> 8	6	jun	wed	91.2	147.8	377.2	12.7	19.6	43	4.9	0.0	0.0
<b>299</b> 6	5	jun	sat	53.4	71.0	233.8	0.4	10.6	90	2.7	0.0	0.0
<b>300</b> 6	5	jun	mon	90.4	93.3	298.1	7.5	20.7	25	4.9	0.0	0.0
<b>301</b> 6	5	jun	mon	90.4	93.3	298.1	7.5	19.1	39	5.4	0.0	1.0
<b>302</b> 3	6	jun	fri	91.1		232.1	7.1	19.2	38	4.5	0.0	0.0
												1.0
<b>303</b> 3	6	jun	fri	91.1	94.1	232.1	7.1	19.2	38	4.5	0.0	0.0
<b>304</b> 6	5	may	sat	85.1	28.0	113.8	3.5	11.3	94	4.9	0.0	0.0
<b>305</b> 1	4	sep	sun	89.6	84.1	714.3	5.7	19.0	52	2.2	0.0	0.0
<b>306</b> 7	4	sep	sun	89.6	84 1	714.3	5.7	17.1	53	5.4	0.0	1.0
		·										
<b>307</b> 3	4	sep	sun	89.6	84.1	714.3	5.7	23.8	35	3.6	0.0	1.0
<b>308</b> 2	4	sep	sun	92.4	105.8	758.1	9.9	16.0	45	1.8	0.0	0.0
<b>309</b> 2	4	sep	sun	92.4	105.8	758.1	9.9	24.9	27	2.2	0.0	0.0
<b>310</b> 7	4	sep	sun	92.4	105.8	758.1	9.9	25.3	27	2.7	0.0	0.0
<b>311</b> 6	3	sep	sun	92.4	105.8	758.1	9.9	24.8	28	1.8	0.0	1.0
<b>312</b> 2	4	sep	sun	50.4	46.2	706.6	0.4	12.2	78	6.3	0.0	0.0

sat 0.0

X	Y	month	day	FFMC	DMC	DC	ISI	temp	R	RH wind	l rain	output
<b>313</b> 6	5	sep	wed	92.6	115.4	777.1	8.8	24.3	27	4.9	0.0	0.0
<b>314</b> 4	4	sep	wed	92.6	115.4	777.1	8.8	19.7	41	1.8	0.0	1.0
<b>315</b> 3	4	sep	wed	91.2	134.7	817.5	7.2	18.5	30	2.7	0.0	0.0
<b>316</b> 4	5	sep	thu	92.4	96.2	739.4	8.6	18.6	24	5.8	0.0	0.0
<b>317</b> 4	4	sep	thu	92.4	96.2	739.4	8.6	19.2	24	4.9	0.0	1.0
<b>318</b> 6	5	sep	thu	92.8	119.0	783.5	7.5	21.6	27	2.2	0.0	0.0
<b>319</b> 5	4	sep	thu	92.8	119.0	783.5	7.5	21.6	28	6.3	0.0	1.0
<b>320</b> 6	3	sep	thu	92.8	119.0	783.5	7.5	18.9	34	7.2	0.0	1.0
<b>321</b> 1	4	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
<b>322</b> 6	5	sep	thu	92.8	119.0	783.5	7.5	16.8	28	4.0	0.0	1.0
<b>323</b> 3	5	sep	thu	90.7	136.9	822.8	6.8	12.9	39	2.7	0.0	1.0
<b>324</b> 6	5	sep	thu	88.1	53.3	726.9	5.4	13.7	56	1.8	0.0	1.0
<b>325</b> 1	4	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	0.0
<b>326</b> 5	4	sep	sat	92.2	102.3	751.5	8.4	24.1	27	3.1	0.0	0.0
<b>327</b> 6	5	sep	sat	92.2	102.3	751.5	8.4	21.2	32	2.2	0.0	0.0
<b>328</b> 6	5	sep	sat	92.2	102.3	751.5	8.4	19.7	35	1.8	0.0	0.0
<b>329</b> 4	3	sep	sat	92.2	102.3	751.5	8.4	23.5	27	4.0	0.0	1.0
<b>330</b> 3	3	sep	sat	92.2	102.3	751.5	8.4	24.2	27	3.1	0.0	1.0
<b>331</b> 7	4	sep	sat	91.2	124.4	795.3	8.5	21.5	28	4.5	0.0	1.0
<b>332</b> 4	4	sep		91.2	124.4	795.3	8.5	17.1	41	2.2		
<b>333</b> 1	4	sep	mon	92.1	87.7	721.1	9.5	18.1	54	3.1	0.0	1.0
<b>334</b> 2	3	sep	mon	91.6	108.4	764.0	6.2	18.0	51	5.4	0.0	0.0
<b>335</b> 4	3	sep	mon	91.6	108.4	764.0	6.2	9.8	86	1.8	0.0	0.0

X	Y	month	day	FFMC	DMC	DC	ISI	temp	F	RH wind	l rain	output
<b>336</b> 7	4	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	0.0
<b>337</b> 6	3	sep	mon	91.6	108.4	764.0	6.2	23.0	34	2.2	0.0	1.0
<b>338</b> 8	6	sep	mon	91.6	108.4	764.0	6.2	22.7	35	2.2	0.0	1.0
<b>339</b> 2	4	sep	mon	91.6	108.4	764.0	6.2	20.4	41	1.8	0.0	1.0
<b>340</b> 2	5	sep	mon	91.6	108.4	764.0	6.2	19.3	44	2.2	0.0	1.0
<b>341</b> 8	6	sep	mon	91.9	111.7	770.3	6.5	15.7	51	2.2	0.0	0.0
<b>342</b> 6	3	sep	mon	91.5	130.1	807.1	7.5	20.6	37	1.8	0.0	0.0
<b>343</b> 8	6	sep	mon	91.5	130.1	807.1	7.5	15.9	51	4.5	0.0	1.0
<b>344</b> 6	3	sep	mon	91.5	130.1	807.1	7.5	12.2	66	4.9	0.0	1.0
<b>345</b> 2	2	sep	mon	91.5	130.1	807.1	7.5	16.8	43	3.1	0.0	1.0
<b>346</b> 1	4	sep	mon	91.5	130.1	807.1	7.5	21.3	35	2.2	0.0	1.0
<b>347</b> 5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	0.0
<b>348</b> 3	4	sep	fri	92.1	99.0	745.3	9.6	17.4	57	4.5	0.0	0.0
<b>349</b> 5	4	sep	fri	92.1	99.0	745.3	9.6	12.8	64	3.6	0.0	1.0
<b>350</b> 5	4	sep	fri	92.1	99.0	745.3	9.6	10.1	75	3.6	0.0	1.0
<b>351</b> 4	4	sep	fri	92.1	99.0	745.3	9.6	15.4	53	6.3	0.0	1.0
<b>352</b> 7	4	sep	fri	92.1	99.0	745.3	9.6	20.6	43	3.6	0.0	1.0
<b>353</b> 7	4	sep	fri	92.1	99.0	745.3	9.6	19.8	47	2.7	0.0	1.0
<b>354</b> 7	4	sep	fri	92.1	99.0	745.3	9.6	18.7	50	2.2	0.0	1.0
<b>355</b> 4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0
<b>356</b> 4	4	sep	fri	92.1	99.0	745.3	9.6	20.8	35	4.9	0.0	1.0

sat

	X	Y	month	day	FFMC	DMC	DC	ISI	temp	R	RH wind	l rain	output
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

month DMC DC X Y day FFMC ISI temp RH wwinidndrairnaionutpoutput

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

392	13	sep	sun	91.0	276.3	825.1	7.1	21.9	43	4.0	0.0	1.0
393	2 4	mar	tue	93.4	15.0	25.6	11.4	15.2	19	7.6	0.0	0.0
394	6 5	feb	mon	84.1	4.6	46.7	2.2	5.3	68	1.8	0.0	0.0
395	4 5	feb	sun	85.0	9.0	56.9	3.5	10.1	62	1.8	0.0	1.0
			sat									
396	4 3	sep	sun	90.5	96.7	750.5	11.4	20.4	55	4.9	0.0	1.0
397	5 6	aug	sun	91.6	181.3	613.0	7.6	24.3	33	3.6	0.0	1.0
398	12	aug	sat	93.7	231.1	715.1	8.4	25.9	32	3.1	0.0	0.0
399	9 5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	0.0
400	9 5	jun	wed	93.3	49.5	297.7	14.0	28.0	34	4.5	0.0	1.0
401	3 4	sep	thu	91.1	88.2	731.7	8.3	22.8	46	4.0	0.0	1.0
402	9 9	aug	fri	94.8	227.0	706.7	12.0	25.0	36	4.0	0.0	0.0
403	8 6	aug	thu	90.7	194.1	643.0	6.8	21.3	41	3.6	0.0	0.0
404	2 4	sep	wed	87.9	84.8	725.1	3.7	21.8	34	2.2	0.0	1.0
405	2 2	aug	tue	94.6	212.1	680.9	9.5	27.9	27	2.2	0.0	0.0
406	6 5	sep		87.1	1 291.3 8	360.6	4.0	17.0	67	4.9	0.0	
<b>407</b> 4	5	feb	sat	84.7	8.2	55.0	2.9	14.2	46	4.0	0.0	0.0
<b>408</b> 4	3	sep	fri	90.3	290.0	855.3	7.4	19.9	44	3.1	0.0	1.0
<b>409</b> 1	4	jul	tue	92.3	96.2	450.2	12.1	23.4	31	5.4	0.0	0.0
<b>410</b> 6	3	feb	fri	84.1	7.3	52.8	2.7	14.7	42	2.7	0.0	0.0
<b>411</b> 7	4	feb	fri	84.6	3.2	43.6	3.3	8.2	53	9.4	0.0	1.0
<b>412</b> 9	4	jul	mon	92.3	92.1	442.1	9.8	22.8	27	4.5	0.0	1.0

<b>413</b> 7	5	aug	sat	93.7	231.1	715.1	8.4	26.4	33	3.6	0.0	0.0
<b>414</b> 5	4	aug	sun	93.6	235.1	723.1	10.1	24.1	50	4.0	0.0	0.0
<b>415</b> 8	6	aug	thu	94.8	222.4	698.6	13.9	27.5	27	4.9	0.0	1.0
<b>416</b> 6	3	jul	tue	92.7	164.1	575.8	8.9	26.3	39	3.1	0.0	1.0
<b>417</b> 6	5	mar	wed	93.4	17.3	28.3	9.9	13.8	24	5.8	0.0	0.0
<b>418</b> 2	4	aug	sun	92.0	203.2	664.5	8.1	24.9	42	5.4	0.0	1.0
<b>419</b> 2	5	aug	sun	91.6	181.3	613.0	7.6	24.8	36	4.0	0.0	1.0
<b>420</b> 8	8	aug	wed	91.7	191.4	635.9	7.8	26.2	36	4.5	0.0	1.0
<b>421</b> 2	4	aug	wed	95.2	217.7	690.0	18.0	30.8	19	4.5	0.0	0.0
<b>422</b> 8	6	jul	sun	88.9	263.1	795.9	5.2	29.3	27	3.6	0.0	1.0
<b>423</b> 1	3	sep	sat	91.2	94.3	744.4	8.4	22.3	48	4.0	0.0	1.0
<b>424</b> 8	6	aug	sat	93.7	231.1	715.1	8.4	26.9	31	3.6	0.0	1.0
<b>425</b> 2	2	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
<b>426</b> 8	6	aug	thu	91.6	248.4	753.8	6.3	20.4	56	2.2	0.0	0.0
<b>427</b> 2	4	aug	mon	92.1	207.0	672.6	8.2	27.9	33	2.2	0.0	1.0
<b>428</b> 1	3	aug	thu	94.8	222.4	698.6	13.9	26.2	34	5.8	0.0	0.0
<b>429</b> 3	4	aug	sun	91.6	181.3	613.0	7.6	24.6	44	4.0	0.0	1.0
<b>430</b> 7	4	sep	thu	89.7	287.2	849.3	6.8	19.4	45	3.6	0.0	0.0
<b>431</b> 1	3	aug	sat	92.1	178.0	605.3	9.6	23.3	40	4.0	0.0	1.0
<b>432</b> 8	6	aug	thu	94.8	222.4	698.6	13.9	23.9	38	6.7	0.0	0.0
<b>433</b> 2	4	aug	sun	93.6	235.1	723.1	10.1	20.9	66	4.9	0.0	1.0
<b>434</b> 1	4	aug	fri	90.6	269.8	811.2	5.5	22.2	45	3.6	0.0	0.0

	<b>435</b> 2	5	jul	sat	90.8	84.7	376.6	5.6	23.8	51	1.8	0.0	0.0
	<b>436</b> 8	6	aug	mon	92.1	207.0	672.6	8.2	26.8	35	1.3	0.0	1.0
	<b>437</b> 8	6	aug	sat	89.4	253.6	768.4	9.7	14.2	73	2.7	0.0	0.0
	<b>438</b> 2	5	aug	sat	93.7	231.1	715.1	8.4	23.6	53	4.0	0.0	1.0
	<b>439</b> 1	3	sep	fri	91.1	91.3	738.1	7.2	19.1	46	2.2	0.0	1.0
	<b>440</b> 5	4	sep	fri	90.3	290.0	855.3	7.4	16.2	58	3.6	0.0	0.0
	<b>441</b> 8	6	aug	mon	92.1	207.0	672.6	8.2	25.5	29	1.8	0.0	1.0
	<b>442</b> 6	5	apr	mon	87.9	24.9	41.6	3.7	10.9	64	3.1	0.0	1.0
	<b>443</b> 1	2	jul	fri	90.7	80.9	368.3	16.8	14.8	78	8.0	0.0	0.0
Х Ү	month da	ay FFN	MC DI	ИС	DC	IS	l temp	•	RH ww	vinidn	drairna	ionutp	output
	444	2 5	sep	fri	00.2	290.0	055.3	7.4	16.2	58	3.6	0.0	1.0
	444	2 3	sep	1111	30.3	290.0	033.3	7.4	10.2	30	3.0	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
	445 446	5 5	aug	sun	94.0 92.0	47.9 203.2		10.7	17.3 19.1	80 70	4.5 2.2	0.0	0.0
	446	6 5	aug	sun	92.0 93.4	203.2	664.5	8.1 9.9	19.1	70	2.2	0.0	0.0
	446 447	6534	aug mar	sun wed	92.0 93.4 89.7	203.2	664.5 28.3 844.0	8.1 9.9	19.1 8.9	70 35	2.2	0.0	0.0
	446 447 448	6 5 3 4 7 4	aug mar sep	sun wed wed	92.0 93.4 89.7 91.6	203.2 17.3 284.9 181.3	664.5 28.3 844.0	8.1 9.9 10.1 7.6	19.1 8.9 10.5	70 35 77	2.2 8.0 4.0	0.0 0.0 0.0	0.0 0.0 0.0
	446 447 448 449	65 34 74 74	aug mar sep aug	sun wed wed sun	92.0 93.4 89.7 91.6 95.2	203.2 17.3 284.9 181.3 217.7	664.5 28.3 844.0 613.0	8.1 9.9 10.1 7.6 18.0	19.1 8.9 10.5 19.3	70 35 77 61	2.2 8.0 4.0 4.9	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
	446 447 448 449 450	6 5 3 4 7 4 7 4 4 5	aug mar sep aug	sun wed wed sun wed	92.0 93.4 89.7 91.6 95.2	203.2 17.3 284.9 181.3 217.7	664.5 28.3 844.0 613.0 690.0 649.9	8.1 9.9 10.1 7.6 18.0	19.1 8.9 10.5 19.3 23.4	70 35 77 61 49	2.2 8.0 4.0 4.9 5.4	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0
	446 447 448 449 450	65 34 74 74 45	aug mar sep aug aug	sun wed wed sun wed	92.0 93.4 89.7 91.6 95.2 90.5	203.2 17.3 284.9 181.3 217.7 196.8	664.5 28.3 844.0 613.0 690.0 649.9	8.1 9.9 10.1 7.6 18.0	19.1 8.9 10.5 19.3 23.4 11.8	70 35 77 61 49	2.2 8.0 4.0 4.9 5.4 4.9	0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1.0
	446 447 448 449 450 451	65 34 74 74 45 14	aug mar sep aug aug	sun wed wed sun wed fri mon	92.0 93.4 89.7 91.6 95.2 90.5 91.5	203.2 17.3 284.9 181.3 217.7 196.8	664.5 28.3 844.0 613.0 690.0 649.9 730.6 803.3	8.1 9.9 10.1 7.6 18.0 16.3	19.1 8.9 10.5 19.3 23.4 11.8	70 35 77 61 49 88	2.2 8.0 4.0 4.9 5.4 4.9	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1.0 1.0
	446 447 448 449 450 451 452	65 34 74 74 45 14 45	aug mar sep aug aug aug	sun wed wed sun wed fri mon thu	92.0 93.4 89.7 91.6 95.2 90.5 91.5 89.4 91.6	203.2 17.3 284.9 181.3 217.7 196.8 238.2 266.2 248.4	664.5 28.3 844.0 613.0 690.0 649.9 730.6 803.3	8.1 9.9 10.1 7.6 18.0 16.3 7.5 5.6 6.3	19.1 8.9 10.5 19.3 23.4 11.8 17.7	70 35 77 61 49 88 65 54	2.2 8.0 4.0 4.9 5.4 4.9 4.0	0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 1.0 1.0 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	22	feb	sat	79.5	3.6	15.3	1.8	4.6	59	0.9	0.0	1.0
466	6 5	mar	mon	87.2	15.1	36.9	7.1	10.2	45	5.8	0.0	1.0
467	3 4	mar	wed	90.2	18.5	41.1	7.3	11.2	41	5.4	0.0	1.0
468	6 5	mar	thu	91.3	20.6	43.5	8.5	13.3	27	3.6	0.0	1.0
469	63	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	43	may	fri	89.6	25.4	73.7	5.7	18.0	40	4.0	0.0	1.0
472	8 3	jun	mon	88.2	96.2	229.0	4.7	14.3	79	4.0	0.0	1.0
473	9 4	jun	sat	90.5	61.1	252.6	9.4	24.5	50	3.1	0.0	1.0
474	4 3	jun	thu	93.0	103.8	316.7	10.8	26.4	35	2.7	0.0	1.0
475	2 5	jun	thu	93.7	121.7	350.2	18.0	22.7	40	9.4	0.0	1.0
476	4 3	jul	thu	93.5	85.3	395.0	9.9	27.2	28	1.3	0.0	1.0
477	4 3	jul	sun	93.7	101.3	423.4	14.7	26.1	45	4.0	0.0	1.0
478	7 4	jul	sun	93.7	101.3	423.4	14.7	18.2	82	4.5	0.0	1.0
479	7 4	jul	mon	89.2	103.9	431.6	6.4	22.6	57	4.9	0.0	1.0

**480** 9 9 jul thu 93.2 114.4 560.0 9.5 30.2 25 4.5 0.0 **X Y month day FFMC DMC DC ISI temp RH wind rain output** 

<b>481</b> 4	3	jul	thu	93.2	114.4	560.0	9.5	30.2	22	4.9	0.0	0.0
<b>482</b> 3	4	aug	sun	94.9	130.3	587.1	14.1	23.4	40	5.8	0.0	1.0
<b>483</b> 8	6	aug	sun	94.9	130.3	587.1	14.1	31.0	27	5.4	0.0	0.0
<b>484</b> 2	5	aug	sun	94.9	130.3	587.1	14.1	33.1	25	4.0	0.0	1.0
<b>485</b> 2	4	aug	mon	95.0	135.5	596.3	21.3	30.6	28	3.6	0.0	1.0
<b>486</b> 5	4	aug	tue	95.1	141.3	605.8	17.7	24.1	43	6.3	0.0	1.0
<b>487</b> 5	4	aug	tue	95.1	141.3	605.8	17.7	26.4	34	3.6	0.0	1.0
<b>488</b> 4	4	aug	tue	95.1	141.3	605.8	17.7	19.4	71	7.6	0.0	1.0
<b>489</b> 4	4	aug	wed	95.1	141.3	605.8	17.7	20.6	58	1.3	0.0	0.0
<b>490</b> 4	4	aug	wed	95.1	141.3	605.8	17.7	28.7	33	4.0	0.0	0.0
<b>491</b> 4	4	aug	thu	95.8	152.0	624.1	13.8	32.4	21	4.5	0.0	0.0
<b>492</b> 1	3	aug	fri	95.9	158.0	633.6	11.3	32.4	27	2.2	0.0	0.0
<b>493</b> 1	3	aug	fri	95.9	158.0	633.6	11.3	27.5	29	4.5	0.0	1.
<b>494</b> 6	6	aug	sat	96.0	164.0	643.0	14.0	30.8	30	4.9	0.0	1.
<b>495</b> 6	6	aug	mon	96.2	175.5	661.8	16.8	23.9	42	2.2	0.0	0.
<b>496</b> 4	5	aug	mon	96.2	175.5	661.8	16.8	32.6	26	3.1	0.0	1.0
<b>497</b> 3	4	aug	tue	96.1	181.1	671.2	14.3	32.3	27	2.2	0.0	1.
<b>498</b> 6	5	aug	tue	96.1	181.1	671.2	14.3	33.3	26	2.7	0.0	1.
<b>499</b> 7	5	aug	tue	96.1	181.1	671.2	14.3	27.3	63	4.9	6.4	1.
<b>500</b> 8	6	aug	tue	96.1	181.1	671.2	14.3	21.6	65	4.9	0.8	0.
<b>501</b> 7		aug	tue		181.1			21.6	65	4.9	0.8	0.
<b>502</b> 4	4	aug	tue	96.1	1 181.1	671.2	14.3	20.7	69	4.9	0.4	0

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

In [ ]:

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

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

test datagen=ImageDataGenerator(rescale=1./255)

In [3]: #Applying ImageDataGenerator functionality to trainset

 $x\_train=train\_datagen.flow\_from\_directory(r'C:\Users\dhine\Downloads\archive\Dataset$ 

Found 436 images belonging to 2 classes.

In [4]: #Applying ImageDataGenerator functionality to testset

 $x\_test=test\_datagen.flow\_from\_directory(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\test\_target\_size=(128,128),batch\_size=32,\\ class\_mode='binary')$ 

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]:
In [10]:
In [11]:

#add hidden layer model.add(Dense(150,activation='relu')) #add output
layer model.add(Dense(1,activation='sigmoid'))

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

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

```
Epoch 1/10
        1.3686 - val accuracy: 0.5950Epoch 2/10
        0.2423 - val_accuracy: 0.8926Epoch 3/10
        0.1323 - val accuracy: 0.9669Epoch 4/10
        0.1082 - val_accuracy: 0.9669Epoch 5/10
        0.1145 - val accuracy: 0.9669Epoch 6/10
        - val_accuracy: 0.9669
    Epoch14/14 [==============7/10
                                                                      ====1
         - loss: 0.1756 - accuracy: 0.9312
- 88s 6s/step
                                         0.0831 - val accuracy: 0.97528/10
                                - val loss:
        Epoch
    6s/step - loss: 0.1564 - accuracy: 0.9404 - val_
                                                                loss:
                                                                      ====]
        Epoch
                0.1073 - val_accuracy: 0.96699/10
         ===] - 77s 6s/step - loss: 0.1480 - accuracy: 0.9427 - val_ loss: 0.0754 - val_accuracy: 0.983510/10
                                                          Epoch
====1
    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
```

load_model("for	rest1.h5")	
,	$img=image.load\_img(r'C:\Users\dhine\Downloads\archive\Dataset\Dataset\test\_set\with ge.img\_to\_array(img) \ res = cv2.resize(x, dsize=(128, 128), interpolation=cv2.INTER\_CUBIC) and\_dims(res,axis=0)$	#expand the image
In [17]:	pred=model.predict(x)	
	1/1 [======] - 5s 5s/step	
	pred	

In [15]: #load the saved model model =