

In [1]:

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.linear_model import LogisticRegression
from sklearn.preprocessing import StandardScaler
import re
from sklearn.datasets import load_digits
from sklearn.model_selection import train_test_split
```

set1:

In [11]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book1.csv")
a
```

Out[11]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	4002	LAKSHADWEEP	1901	22.6	86.4	114.8	263.8	37.3	459.0	0.0	0.0	46.7
1	4003	LAKSHADWEEP	1902	99.3	9.6	32.6	40.4	179.1	374.2	413.3	170.0	214.3
2	4004	LAKSHADWEEP	1903	63.5	95.0	0.0	29.5	144.1	212.4	261.8	202.0	292.1
3	4005	LAKSHADWEEP	1904	0.0	0.0	13.5	13.2	143.3	261.3	256.0	38.9	219.9
4	4006	LAKSHADWEEP	1905	62.4	0.0	0.0	0.0	166.7	400.7	68.7	377.5	107.5
...
109	4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2
110	4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8
111	4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0
112	4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2
113	4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4

114 rows × 20 columns



In [12]:

```
a.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 114 entries, 0 to 113
Data columns (total 20 columns):
#   Column          Non-Null Count  Dtype
---  -
0   index           114 non-null    int64
1   SUBDIVISION     114 non-null    object
2   YEAR            114 non-null    int64
3   JAN             112 non-null    float64
4   FEB             113 non-null    float64
5   MAR             112 non-null    float64
6   APR             112 non-null    float64
7   MAY             112 non-null    float64
8   JUN             112 non-null    float64
9   JUL             111 non-null    float64
10  AUG             112 non-null    float64
11  SEP             111 non-null    float64
12  OCT             111 non-null    float64
13  NOV             108 non-null    float64
14  DEC             110 non-null    float64
15  ANNUAL          103 non-null    float64
16  Jan-Feb         111 non-null    float64
17  Mar-May         110 non-null    float64
18  Jun-Sep         110 non-null    float64
19  Oct-Dec         108 non-null    float64
dtypes: float64(17), int64(2), object(1)
memory usage: 17.9+ KB
```

In [13]:

```
b=a.fillna(method='ffill')
b
```

Out[13]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	4002	LAKSHADWEEP	1901	22.6	86.4	114.8	263.8	37.3	459.0	0.0	0.0	46.7
1	4003	LAKSHADWEEP	1902	99.3	9.6	32.6	40.4	179.1	374.2	413.3	170.0	214.3
2	4004	LAKSHADWEEP	1903	63.5	95.0	0.0	29.5	144.1	212.4	261.8	202.0	292.1
3	4005	LAKSHADWEEP	1904	0.0	0.0	13.5	13.2	143.3	261.3	256.0	38.9	219.9
4	4006	LAKSHADWEEP	1905	62.4	0.0	0.0	0.0	166.7	400.7	68.7	377.5	107.5
...
109	4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2
110	4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8
111	4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0
112	4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2
113	4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4

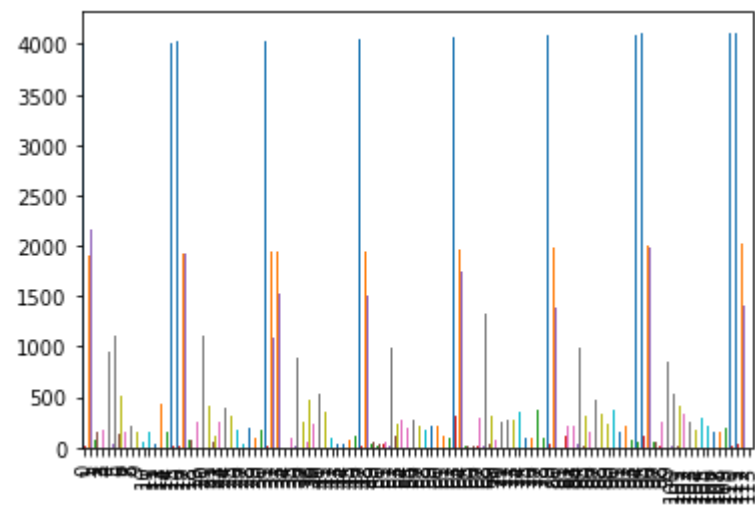
114 rows × 20 columns

In [14]:

```
b.plot.bar(legend=None)
```

Out[14]:

<AxesSubplot:>

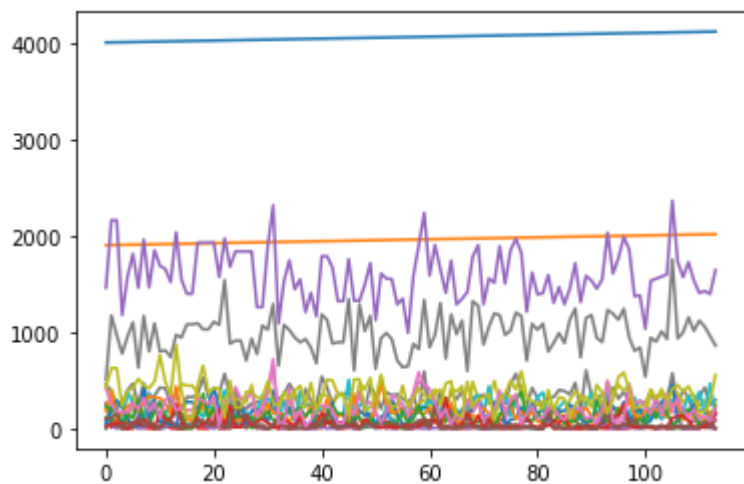


In [15]:

```
b.plot.line(legend=None)
```

Out[15]:

<AxesSubplot:>

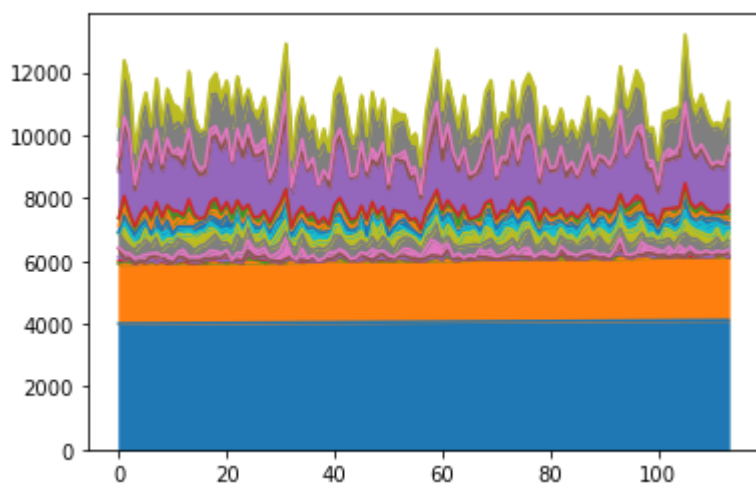


In [16]:

```
b.plot.area(legend=None)
```

Out[16]:

<AxesSubplot:>

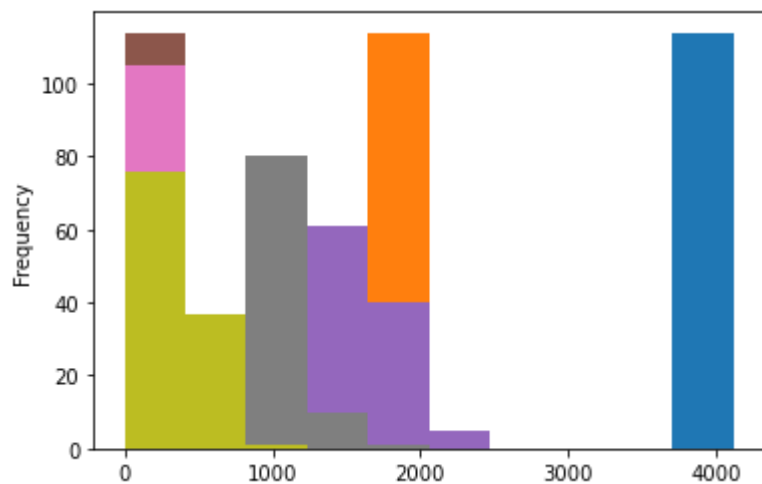


In [17]:

```
b.plot.hist(legend=None)
```

Out[17]:

<AxesSubplot:ylabel='Frequency'>

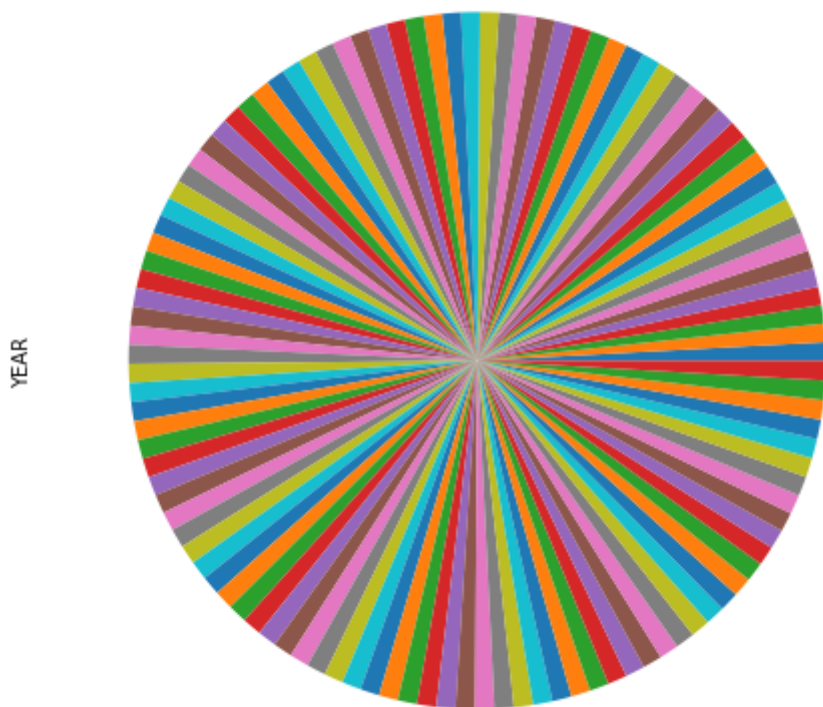


In [18]:

```
b.plot.pie(y='YEAR',figsize=(8,8),labels=None,legend=None)
```

Out[18]:

<AxesSubplot:ylabel='YEAR'>



set2:

In [20]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book2.csv")
a
```

Out[20]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	3887	KERALA	1901	28.7	44.7	51.6	160.0	174.7	824.6	743.0	357.5	197.7
1	3888	KERALA	1902	6.7	2.6	57.3	83.9	134.5	390.9	1205.0	315.8	491.6
2	3889	KERALA	1903	3.2	18.6	3.1	83.6	249.7	558.6	1022.5	420.2	341.8
3	3890	KERALA	1904	23.7	3.0	32.2	71.5	235.7	1098.2	725.5	351.8	222.7
4	3891	KERALA	1905	1.2	22.3	9.4	105.9	263.3	850.2	520.5	293.6	217.2
...
110	3997	KERALA	2011	20.5	45.7	24.1	165.2	124.2	788.5	536.8	492.7	391.2
111	3998	KERALA	2012	7.4	11.0	21.0	171.1	95.3	430.3	362.6	501.6	241.1
112	3999	KERALA	2013	3.9	40.1	49.9	49.3	119.3	1042.7	830.2	369.7	318.6
113	4000	KERALA	2014	4.6	10.3	17.9	95.7	251.0	454.4	677.8	733.9	298.8
114	4001	KERALA	2015	3.1	5.8	50.1	214.1	201.8	563.6	406.0	252.2	292.9

115 rows × 20 columns



In [21]:

```
a.info()
```

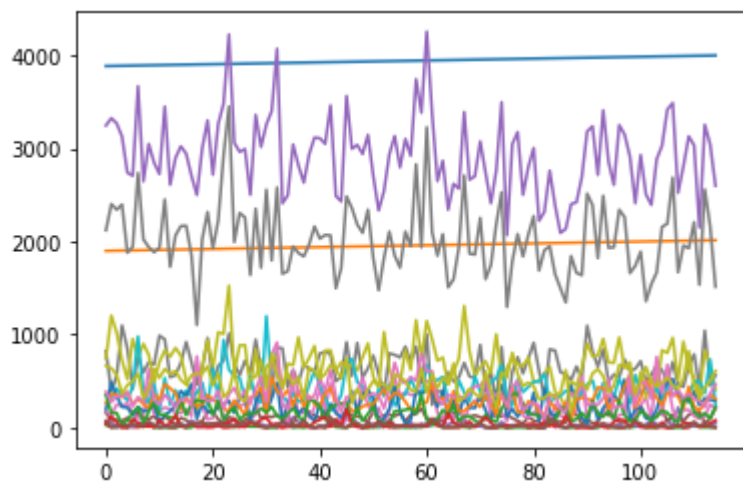
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):
#   Column          Non-Null Count  Dtype
---  -
0   index           115 non-null    int64
1   SUBDIVISION     115 non-null    object
2   YEAR            115 non-null    int64
3   JAN             115 non-null    float64
4   FEB             115 non-null    float64
5   MAR             115 non-null    float64
6   APR             115 non-null    float64
7   MAY             115 non-null    float64
8   JUN             115 non-null    float64
9   JUL             115 non-null    float64
10  AUG             115 non-null    float64
11  SEP             115 non-null    float64
12  OCT             115 non-null    float64
13  NOV             115 non-null    float64
14  DEC             115 non-null    float64
15  ANNUAL          115 non-null    float64
16  Jan-Feb        115 non-null    float64
17  Mar-May        115 non-null    float64
18  Jun-Sep        115 non-null    float64
19  Oct-Dec        115 non-null    float64
dtypes: float64(17), int64(2), object(1)
memory usage: 18.1+ KB
```

In [22]:

```
a.plot.line(legend=None)
```

Out[22]:

<AxesSubplot:>

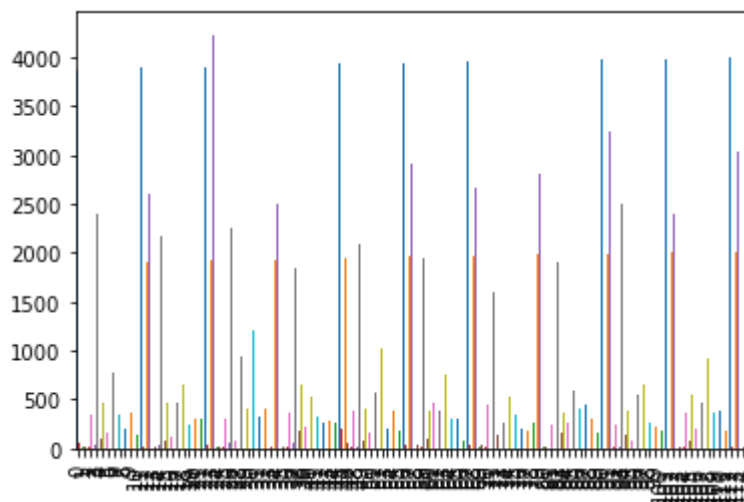


In [23]:

```
a.plot.bar(legend=None)
```

Out[23]:

<AxesSubplot:>

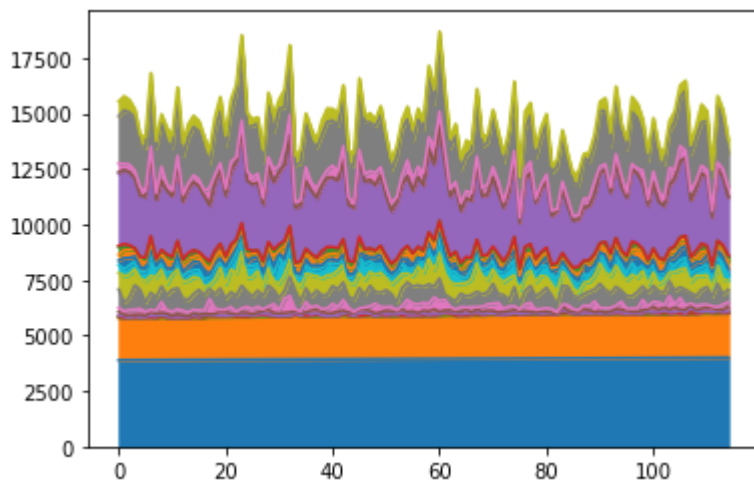


In [24]:

```
a.plot.area(legend=None)
```

Out[24]:

<AxesSubplot:>

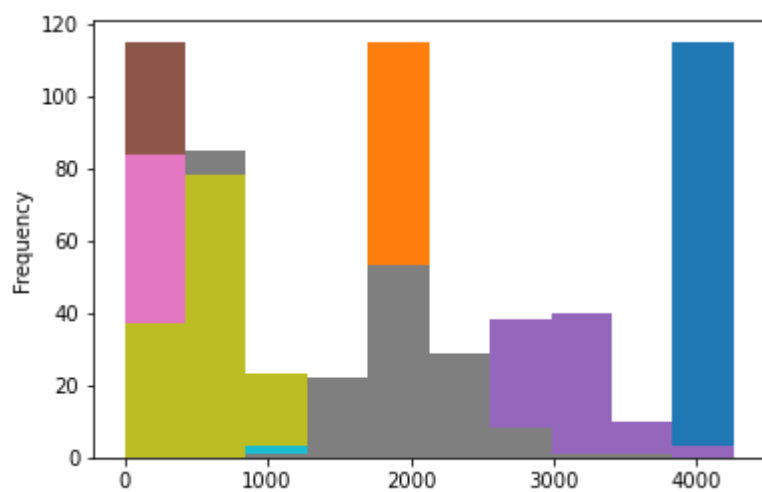


In [25]:

```
a.plot.hist(legend=None)
```

Out[25]:

<AxesSubplot:ylabel='Frequency'>

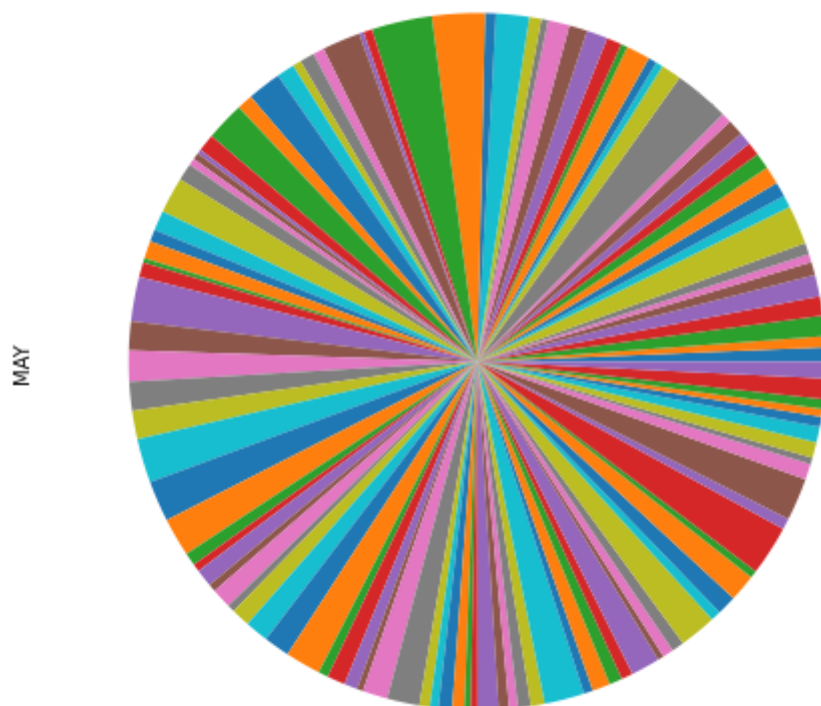


In [26]:

```
a.plot.pie(y='MAY',figsize=(8,8),labels=None,legend=None)
```

Out[26]:

<AxesSubplot:ylabel='MAY'>



set3:

In [28]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book3.csv")
a
```

Out[28]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	O
0	3657	NORTH INTERIOR KARNATAKA	1901	3.5	18.8	7.1	67.2	65.5	120.5	151.9	115.1	128.8	8
1	3658	NORTH INTERIOR KARNATAKA	1902	0.0	0.0	0.3	22.5	34.4	111.3	83.2	78.1	146.7	11
2	3659	NORTH INTERIOR KARNATAKA	1903	3.5	0.0	0.1	6.9	53.4	102.8	209.4	146.4	189.3	16
3	3660	NORTH INTERIOR KARNATAKA	1904	0.2	0.3	8.5	11.0	46.3	120.6	91.6	48.5	165.1	8
4	3661	NORTH INTERIOR KARNATAKA	1905	0.0	6.0	2.6	16.0	51.2	99.6	60.1	139.2	42.2	8
...	
110	3767	NORTH INTERIOR KARNATAKA	2011	0.5	7.2	7.2	41.2	46.8	101.3	150.8	152.0	69.0	7
111	3768	NORTH INTERIOR KARNATAKA	2012	28.5	6.2	0.4	35.4	19.5	60.0	114.5	105.5	79.2	8
112	3769	NORTH INTERIOR KARNATAKA	2013	1.2	6.1	3.0	25.4	47.4	99.4	160.7	73.9	201.0	10
113	3770	NORTH INTERIOR KARNATAKA	2014	0.0	6.1	29.2	26.4	93.0	50.4	136.8	205.2	90.2	8
114	3771	NORTH INTERIOR KARNATAKA	2015	2.4	0.0	27.5	50.8	45.3	89.6	38.5	78.4	150.8	6

115 rows × 20 columns



In [29]:

```
a.info()
```

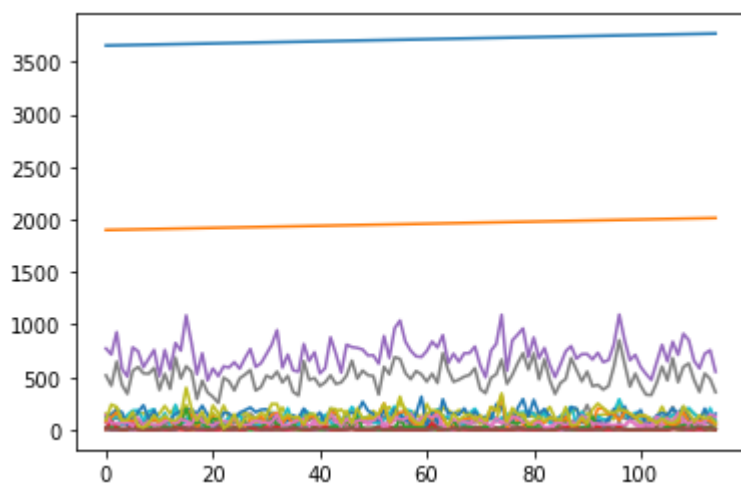
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):
 #   Column          Non-Null Count  Dtype
---  -
 0   index           115 non-null    int64
 1   SUBDIVISION     115 non-null    object
 2   YEAR            115 non-null    int64
 3   JAN             115 non-null    float64
 4   FEB             115 non-null    float64
 5   MAR             115 non-null    float64
 6   APR             115 non-null    float64
 7   MAY             115 non-null    float64
 8   JUN             115 non-null    float64
 9   JUL             115 non-null    float64
10   AUG             115 non-null    float64
11   SEP             115 non-null    float64
12   OCT             115 non-null    float64
13   NOV             115 non-null    float64
14   DEC             115 non-null    float64
15   ANNUAL          115 non-null    float64
16   Jan-Feb         115 non-null    float64
17   Mar-May         115 non-null    float64
18   Jun-Sep         115 non-null    float64
19   Oct-Dec         115 non-null    float64
dtypes: float64(17), int64(2), object(1)
memory usage: 18.1+ KB
```

In [30]:

```
a.plot.line(legend=None)
```

Out[30]:

<AxesSubplot:>

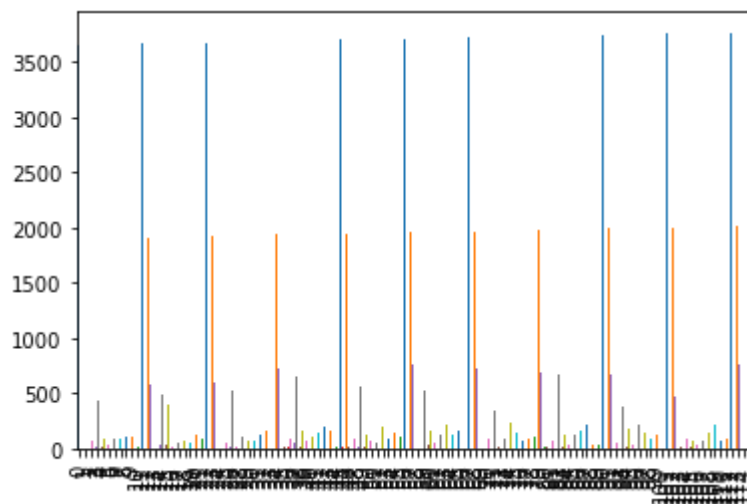


In [31]:

```
a.plot.bar(legend=None)
```

Out[31]:

<AxesSubplot:>

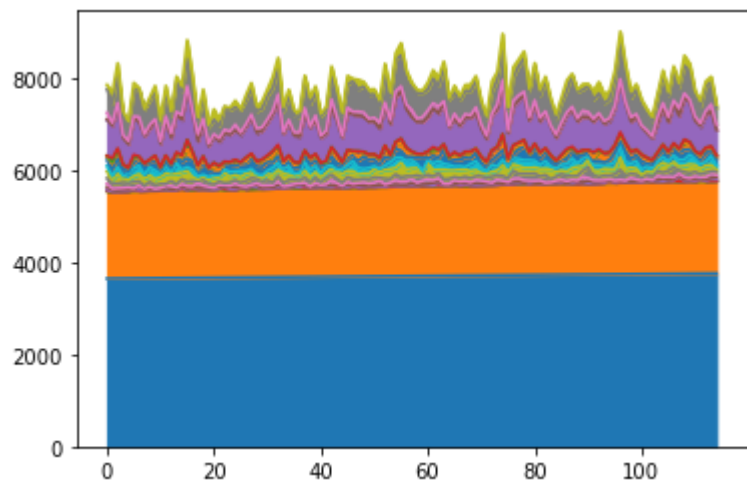


In [32]:

```
a.plot.area(legend=None)
```

Out[32]:

<AxesSubplot:>

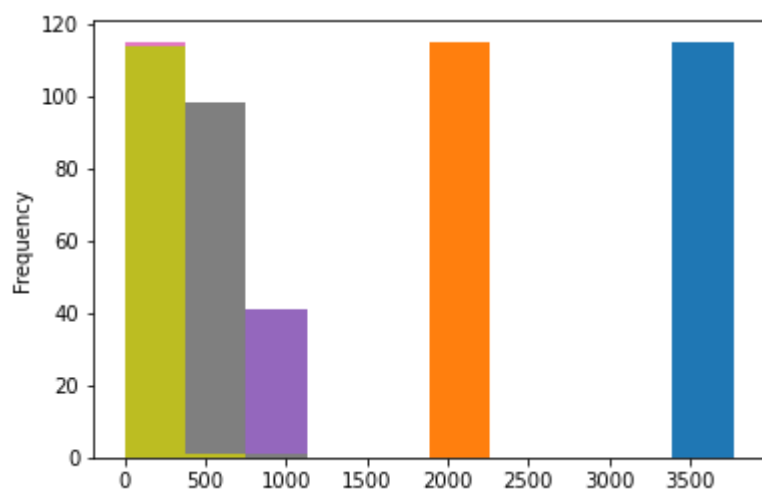


In [33]:

```
a.plot.hist(legend=None)
```

Out[33]:

<AxesSubplot:ylabel='Frequency'>

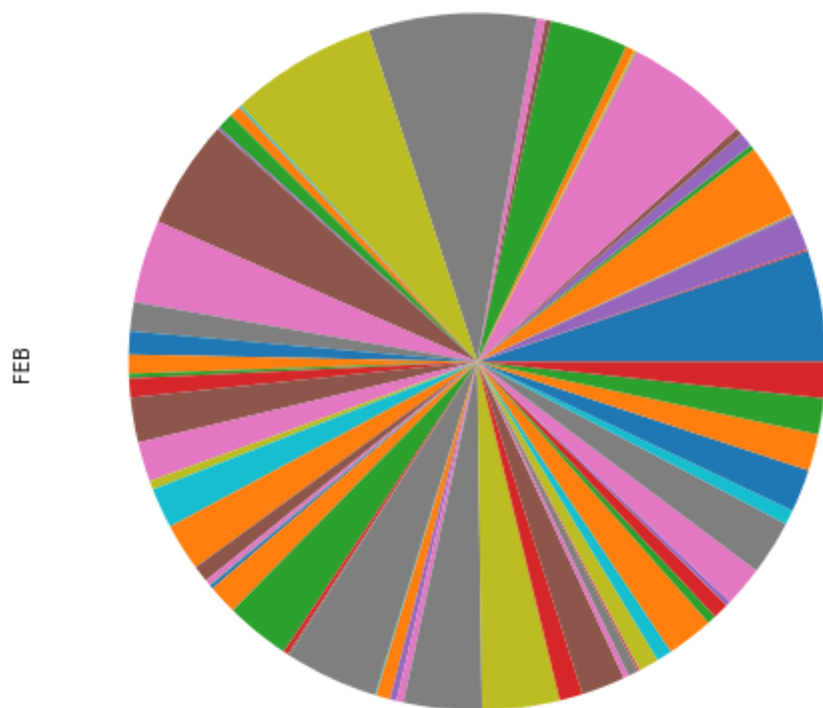


In [34]:

```
a.plot.pie(y='FEB',figsize=(8,8),labels=None,legend=None)
```

Out[34]:

<AxesSubplot:ylabel='FEB'>



set4:

In [36]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book4.csv")
a
```

Out[36]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	3542	COASTAL KARNATAKA	1901	1.8	0.6	10.7	52.4	81.6	960.9	991.2	606.4	108.0
1	3543	COASTAL KARNATAKA	1902	3.2	0.3	4.9	10.2	54.6	698.4	1401.6	454.2	708.4
2	3544	COASTAL KARNATAKA	1903	0.7	0.0	0.0	4.1	202.8	536.5	1405.5	593.8	304.4
3	3545	COASTAL KARNATAKA	1904	2.4	0.0	4.8	23.7	93.2	1108.2	1070.0	465.6	245.3
4	3546	COASTAL KARNATAKA	1905	0.0	0.2	0.0	6.4	83.1	767.3	777.3	586.9	172.9
...
110	3652	COASTAL KARNATAKA	2011	4.8	3.8	8.7	66.1	49.3	1018.4	1080.5	861.3	545.2
111	3653	COASTAL KARNATAKA	2012	NaN	11.4	5.1	77.0	22.9	650.9	754.6	1027.6	382.0
112	3654	COASTAL KARNATAKA	2013	2.4	19.6	19.0	28.5	100.4	1153.0	1515.3	680.2	379.1
113	3655	COASTAL KARNATAKA	2014	0.0	0.3	1.9	40.5	181.9	507.0	1155.4	1121.0	379.3
114	3656	COASTAL KARNATAKA	2015	1.4	1.0	32.3	72.2	150.3	735.3	930.9	575.2	260.3

115 rows × 20 columns



In [37]:

```
a.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):
#   Column          Non-Null Count  Dtype
---  -
0   index           115 non-null    int64
1   SUBDIVISION     115 non-null    object
2   YEAR            115 non-null    int64
3   JAN             114 non-null    float64
4   FEB             115 non-null    float64
5   MAR             115 non-null    float64
6   APR             115 non-null    float64
7   MAY             115 non-null    float64
8   JUN             115 non-null    float64
9   JUL             115 non-null    float64
10  AUG             115 non-null    float64
11  SEP             115 non-null    float64
12  OCT             115 non-null    float64
13  NOV             115 non-null    float64
14  DEC             115 non-null    float64
15  ANNUAL          114 non-null    float64
16  Jan-Feb        114 non-null    float64
17  Mar-May        115 non-null    float64
18  Jun-Sep        115 non-null    float64
19  Oct-Dec        115 non-null    float64
dtypes: float64(17), int64(2), object(1)
memory usage: 18.1+ KB
```

In [38]:

```
b=a.fillna(method='ffill')
b
```

Out[38]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
0	3542	COASTAL KARNATAKA	1901	1.8	0.6	10.7	52.4	81.6	960.9	991.2	606.4	108.0
1	3543	COASTAL KARNATAKA	1902	3.2	0.3	4.9	10.2	54.6	698.4	1401.6	454.2	708.4
2	3544	COASTAL KARNATAKA	1903	0.7	0.0	0.0	4.1	202.8	536.5	1405.5	593.8	304.4
3	3545	COASTAL KARNATAKA	1904	2.4	0.0	4.8	23.7	93.2	1108.2	1070.0	465.6	245.3
4	3546	COASTAL KARNATAKA	1905	0.0	0.2	0.0	6.4	83.1	767.3	777.3	586.9	172.9
...
110	3652	COASTAL KARNATAKA	2011	4.8	3.8	8.7	66.1	49.3	1018.4	1080.5	861.3	545.2
111	3653	COASTAL KARNATAKA	2012	4.8	11.4	5.1	77.0	22.9	650.9	754.6	1027.6	382.0
112	3654	COASTAL KARNATAKA	2013	2.4	19.6	19.0	28.5	100.4	1153.0	1515.3	680.2	379.1
113	3655	COASTAL KARNATAKA	2014	0.0	0.3	1.9	40.5	181.9	507.0	1155.4	1121.0	379.3
114	3656	COASTAL KARNATAKA	2015	1.4	1.0	32.3	72.2	150.3	735.3	930.9	575.2	260.3

115 rows × 20 columns

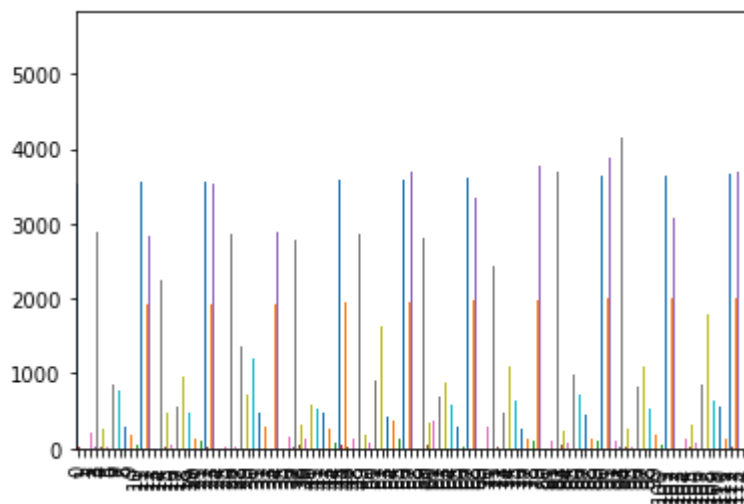


In [39]:

```
b.plot.bar(legend=None)
```

Out[39]:

<AxesSubplot:>

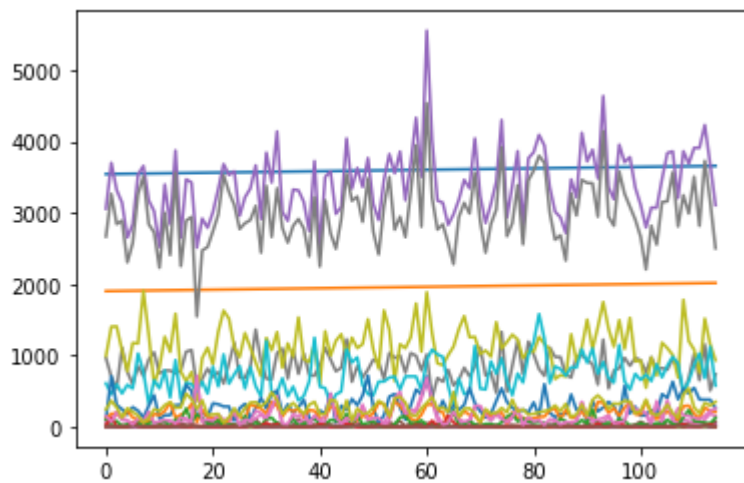


In [40]:

```
b.plot.line(legend=None)
```

Out[40]:

<AxesSubplot:>

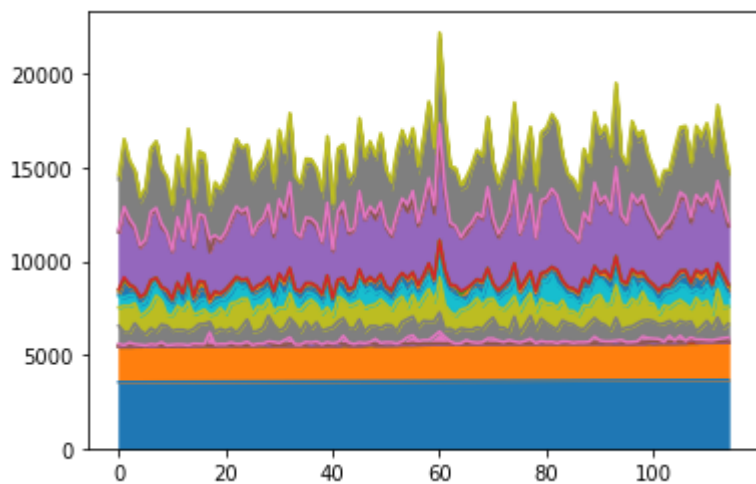


In [41]:

```
b.plot.area(legend=None)
```

Out[41]:

<AxesSubplot:>

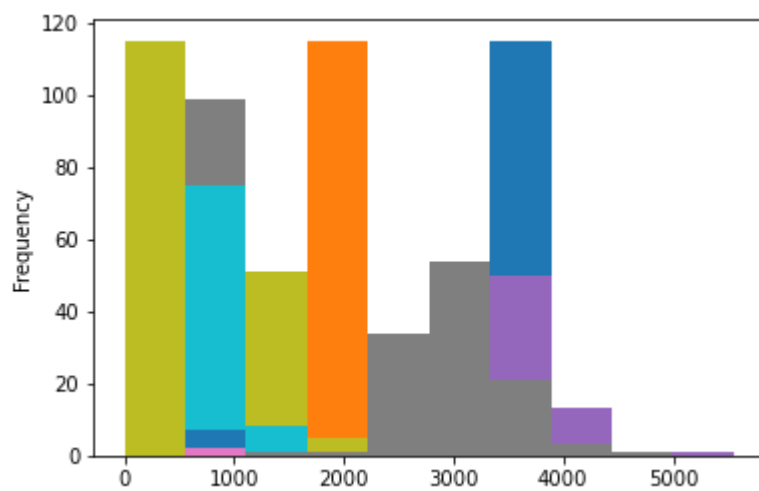


In [42]:

```
b.plot.hist(legend=None)
```

Out[42]:

<AxesSubplot:ylabel='Frequency'>

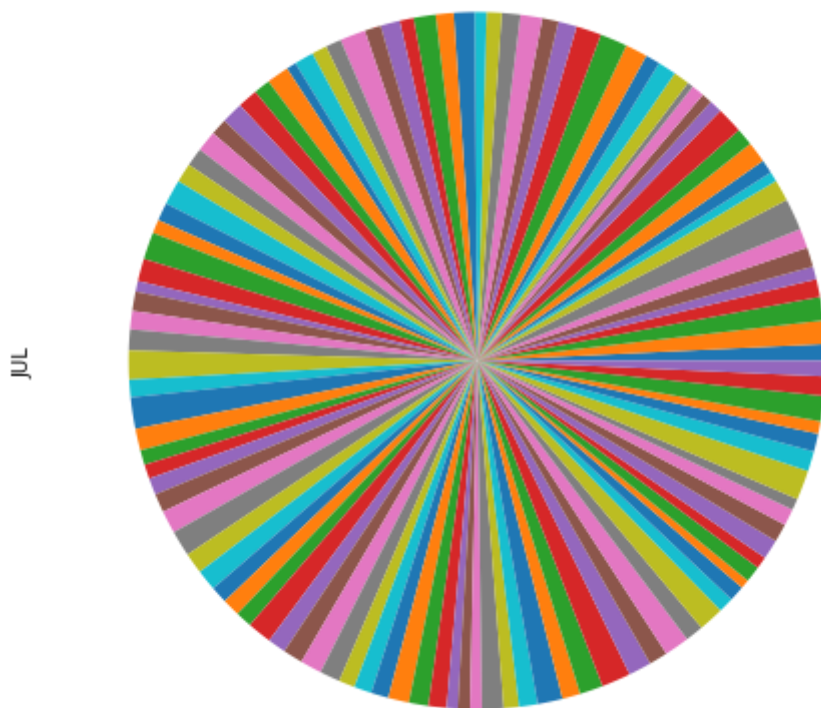


In [43]:

```
b.plot.pie(y='JUL',figsize=(8,8),labels=None,legend=None)
```

Out[43]:

<AxesSubplot:ylabel='JUL'>



set5:

In [45]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book5.csv")
a
```

Out[45]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Oct
0	3427	TAMIL NADU	1901	24.5	39.1	21.7	36.0	74.0	41.8	49.3	67.9	191.1	128.9
1	3428	TAMIL NADU	1902	67.2	9.8	25.1	21.9	84.7	39.3	55.1	113.8	98.6	283.5
2	3429	TAMIL NADU	1903	19.3	7.8	1.7	18.2	128.5	58.5	72.6	115.0	210.4	128.9
3	3430	TAMIL NADU	1904	35.2	0.1	0.7	19.5	121.9	34.9	89.0	40.4	85.7	163.5
4	3431	TAMIL NADU	1905	6.5	7.5	17.2	64.8	83.7	49.8	39.0	101.8	73.5	250.0
...
110	3537	TAMIL NADU	2011	4.3	11.2	8.0	91.5	33.4	56.0	45.5	128.9	76.0	200.0
111	3538	TAMIL NADU	2012	3.0	0.1	2.5	35.5	41.9	30.1	46.5	98.0	84.9	233.5
112	3539	TAMIL NADU	2013	3.9	30.9	30.0	20.3	42.0	54.6	42.7	110.7	113.5	127.5
113	3540	TAMIL NADU	2014	7.4	6.1	8.1	8.3	139.1	47.8	50.6	117.7	98.9	250.0
114	3541	TAMIL NADU	2015	8.3	2.3	21.7	108.8	112.4	62.4	43.5	81.6	98.4	133.5

115 rows × 20 columns



In [46]:

```
a.info()
```

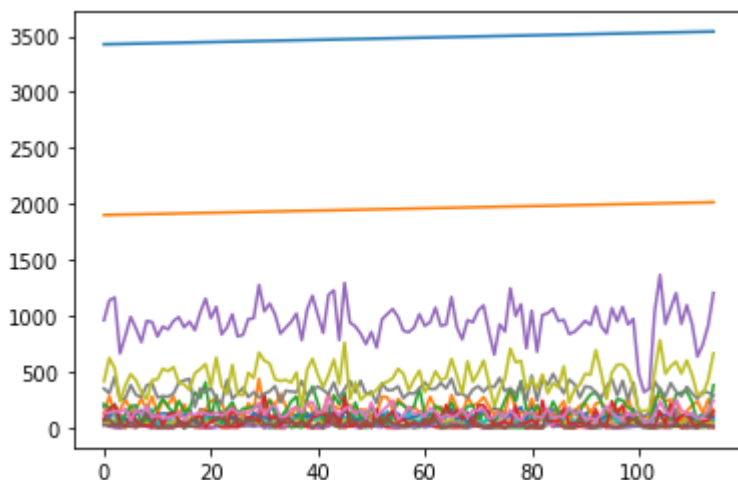
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):
#   Column          Non-Null Count  Dtype
---  -
0   index           115 non-null    int64
1   SUBDIVISION     115 non-null    object
2   YEAR            115 non-null    int64
3   JAN             115 non-null    float64
4   FEB             115 non-null    float64
5   MAR             115 non-null    float64
6   APR             115 non-null    float64
7   MAY             115 non-null    float64
8   JUN             115 non-null    float64
9   JUL             115 non-null    float64
10  AUG             115 non-null    float64
11  SEP             115 non-null    float64
12  OCT             115 non-null    float64
13  NOV             115 non-null    float64
14  DEC             115 non-null    float64
15  ANNUAL          115 non-null    float64
16  Jan-Feb         115 non-null    float64
17  Mar-May         115 non-null    float64
18  Jun-Sep         115 non-null    float64
19  Oct-Dec         115 non-null    float64
dtypes: float64(17), int64(2), object(1)
memory usage: 18.1+ KB
```

In [47]:

```
a.plot.line(legend=None)
```

Out[47]:

<AxesSubplot:>

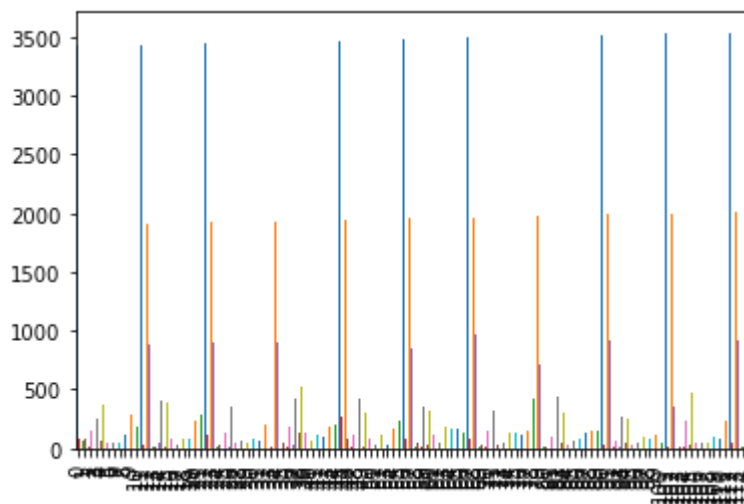


In [48]:

```
a.plot.bar(legend=None)
```

Out[48]:

<AxesSubplot:>

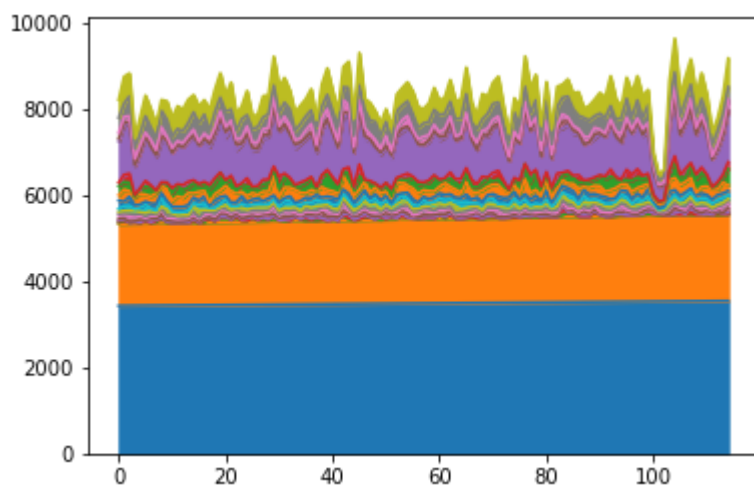


In [49]:

```
a.plot.area(legend=None)
```

Out[49]:

<AxesSubplot:>

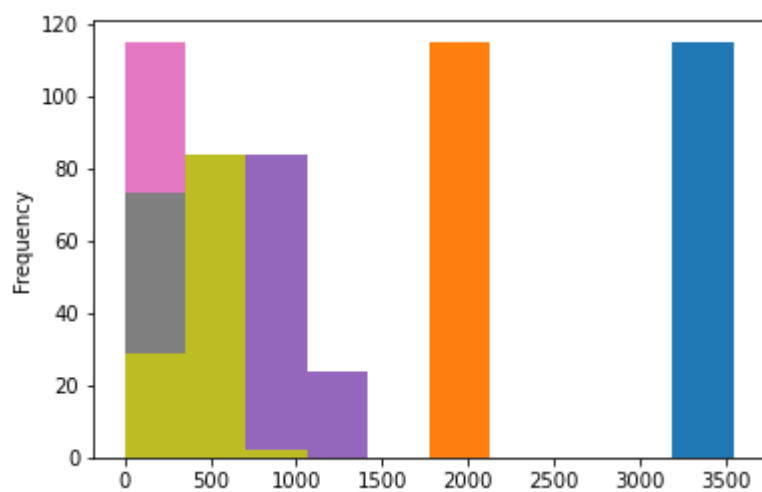


In [50]:

```
a.plot.hist(legend=None)
```

Out[50]:

<AxesSubplot:ylabel='Frequency'>

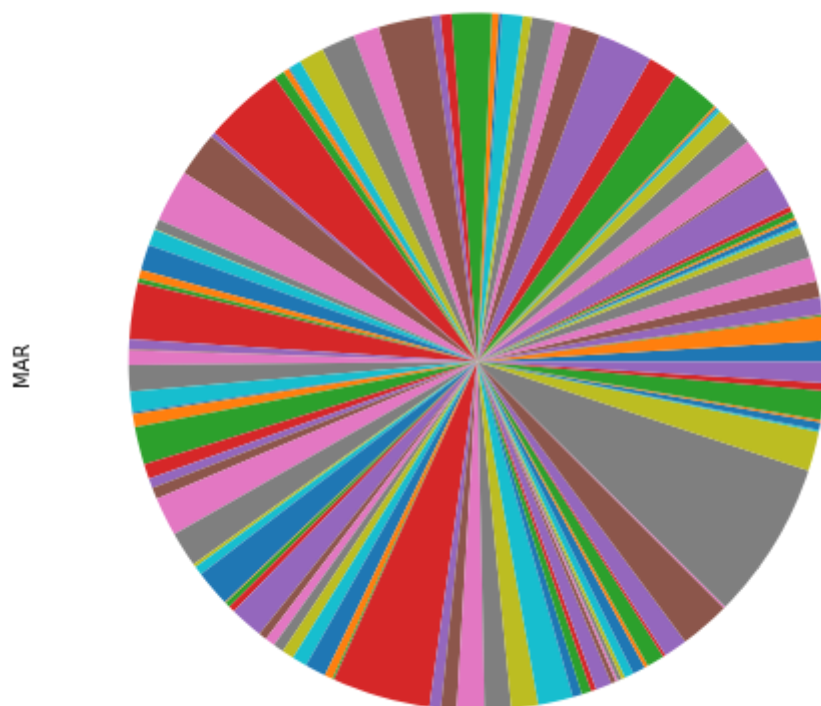


In [51]:

```
a.plot.pie(y='MAR',figsize=(8,8),labels=None,legend=None)
```

Out[51]:

<AxesSubplot:ylabel='MAR'>



set6:

In [52]:

```
a=pd.read_csv(r"C:\Users\user\Downloads\Book6.csv")
a
```

Out[52]:

	index	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	...
0	3772	SOUTH INTERIOR KARNATAKA	1901	4.9	31.8	3.0	32.7	109.6	106.0	210.0	109.2	140.8	1...
1	3773	SOUTH INTERIOR KARNATAKA	1902	1.9	0.5	6.7	42.6	97.7	91.7	210.0	82.1	138.4	2...
2	3774	SOUTH INTERIOR KARNATAKA	1903	0.3	0.0	1.1	11.6	125.1	129.7	284.4	155.7	197.1	1...
3	3775	SOUTH INTERIOR KARNATAKA	1904	1.0	0.5	5.2	43.5	144.7	167.9	197.1	73.2	89.6	1...
4	3776	SOUTH INTERIOR KARNATAKA	1905	1.7	7.9	14.2	23.6	118.6	95.9	148.4	140.6	43.1	1...
...
110	3882	SOUTH INTERIOR KARNATAKA	2011	2.1	12.4	12.4	80.2	83.5	177.1	202.4	199.5	111.2	1...
111	3883	SOUTH INTERIOR KARNATAKA	2012	4.6	5.5	8.1	99.0	45.6	81.8	144.7	236.5	100.6	0...
112	3884	SOUTH INTERIOR KARNATAKA	2013	0.5	10.1	11.7	34.6	95.6	176.2	307.4	151.7	191.8	1...
113	3885	SOUTH INTERIOR KARNATAKA	2014	0.4	2.4	17.7	46.7	130.5	106.8	271.6	254.6	161.6	1...
114	3886	SOUTH INTERIOR KARNATAKA	2015	1.7	0.2	24.4	80.5	125.3	218.7	112.0	136.6	164.5	1...

115 rows × 20 columns



In [53]:

```
a.info()
```

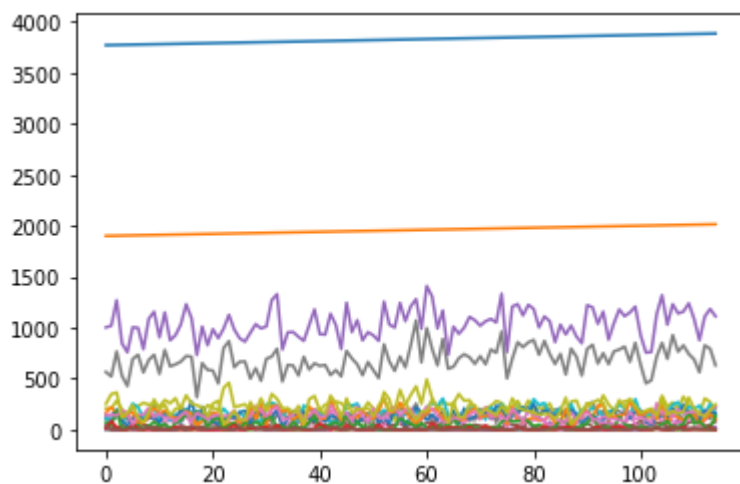
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 115 entries, 0 to 114
Data columns (total 20 columns):
#   Column          Non-Null Count  Dtype
---  -
0   index           115 non-null    int64
1   SUBDIVISION     115 non-null    object
2   YEAR            115 non-null    int64
3   JAN             115 non-null    float64
4   FEB             115 non-null    float64
5   MAR             115 non-null    float64
6   APR             115 non-null    float64
7   MAY             115 non-null    float64
8   JUN             115 non-null    float64
9   JUL             115 non-null    float64
10  AUG             115 non-null    float64
11  SEP             115 non-null    float64
12  OCT             115 non-null    float64
13  NOV             115 non-null    float64
14  DEC             115 non-null    float64
15  ANNUAL          115 non-null    float64
16  Jan-Feb        115 non-null    float64
17  Mar-May        115 non-null    float64
18  Jun-Sep        115 non-null    float64
19  Oct-Dec        115 non-null    float64
dtypes: float64(17), int64(2), object(1)
memory usage: 18.1+ KB
```

In [54]:

```
a.plot.line(legend=None)
```

Out[54]:

<AxesSubplot:>

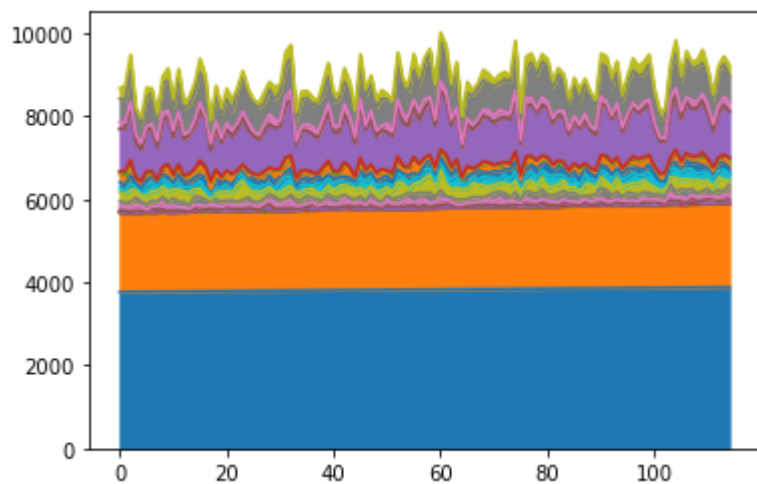


In [55]:

```
a.plot.area(legend=None)
```

Out[55]:

<AxesSubplot:>

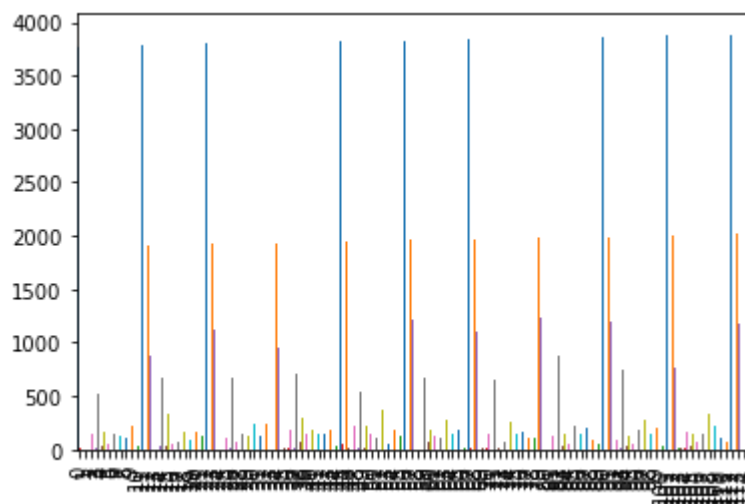


In [56]:

```
a.plot.bar(legend=None)
```

Out[56]:

<AxesSubplot:>

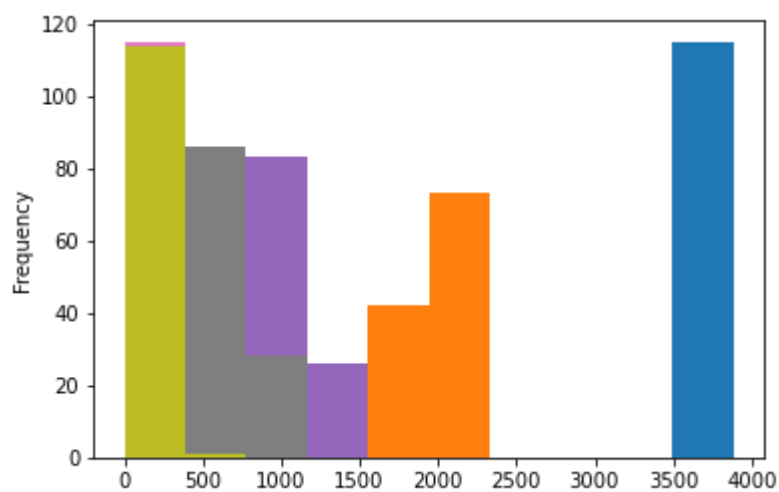


In [57]:

```
a.plot.hist(legend=None)
```

Out[57]:

<AxesSubplot:ylabel='Frequency'>

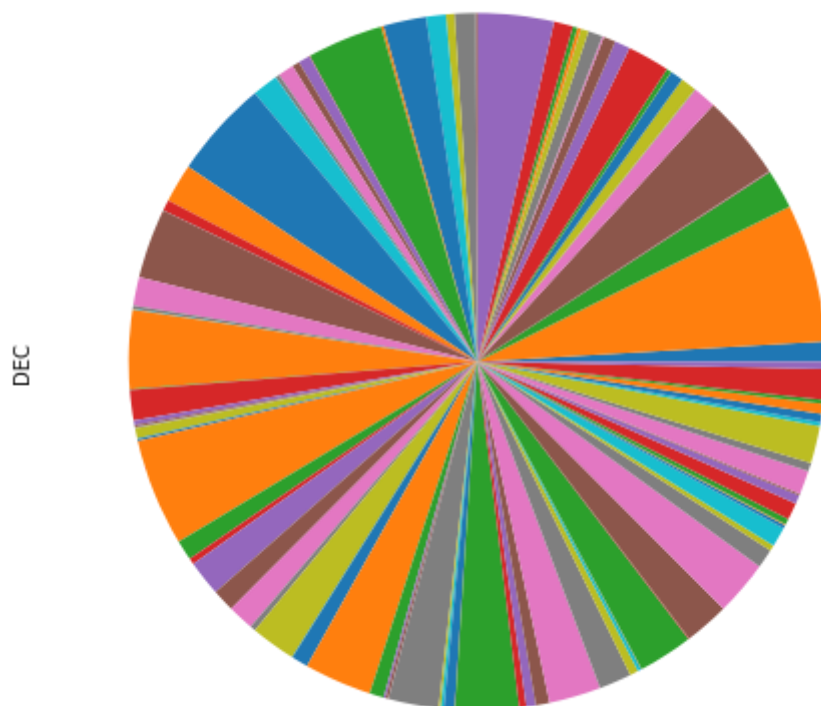


In [58]:

```
a.plot.pie(y='DEC',figsize=(8,8),labels=None,legend=None)
```

Out[58]:

<AxesSubplot:ylabel='DEC'>



In []: