In [124]: import pandas as pd

In [125]: data=pd.read_csv("/home/placement/Downloads/rainfall in india 1901-2015.csv")#reading csv file

In [126]: data.describe()

Out[126]:

	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	
count	4116.000000	4112.000000	4113.000000	4110.000000	4112.000000	4113.000000	4111.000000	4109.000000	4112.000000	4110.000000	4109.0
mean	1958.218659	18.957320	21.805325	27.359197	43.127432	85.745417	230.234444	347.214334	290.263497	197.361922	95.!
std	33.140898	33.585371	35.909488	46.959424	67.831168	123.234904	234.710758	269.539667	188.770477	135.408345	99.!
min	1901.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.400000	0.000000	0.000000	0.100000	0.0
25%	1930.000000	0.600000	0.600000	1.000000	3.000000	8.600000	70.350000	175.600000	155.975000	100.525000	14.0
50%	1958.000000	6.000000	6.700000	7.800000	15.700000	36.600000	138.700000	284.800000	259.400000	173.900000	65.1
75%	1987.000000	22.200000	26.800000	31.300000	49.950000	97.200000	305.150000	418.400000	377.800000	265.800000	148.4
max	2015.000000	583.700000	403.500000	605.600000	595.100000	1168.600000	1609.900000	2362.800000	1664.600000	1222.000000	948.:

In [127]: data.head()#display top 5 rows default

Out[127]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oct- Dec
0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	388.5	558.2	33.6	3373.2	136.3	560.3	1696.3	980.3
1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	197.2	359.0	160.5	3520.7	159.8	458.3	2185.9	716.7
2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	181.2	284.4	225.0	2957.4	156.7	236.1	1874.0	690.6
3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	222.2	308.7	40.1	3079.6	24.1	506.9	1977.6	571.0
4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	260.7	25.4	344.7	2566.7	1.3	309.7	1624.9	630.8

In [128]: data

Out[128]:

SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	(
ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	388.5	558.2	33.6	3373.2	136.3	560.3	1696.3	9
ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	197.2	359.0	160.5	3520.7	159.8	458.3	2185.9	7
ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	181.2	284.4	225.0	2957.4	156.7	236.1	1874.0	6
ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	222.2	308.7	40.1	3079.6	24.1	506.9	1977.6	5
ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	260.7	25.4	344.7	2566.7	1.3	309.7	1624.9	6
LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2	117.4	184.3	14.9	1533.7	7.9	196.2	1013.0	3
LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8	145.9	12.4	8.8	1405.5	19.3	99.6	1119.5	1
LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0	72.8	78.1	26.7	1426.3	60.6	131.1	1057.0	1
LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2	169.2	59.0	62.3	1395.0	69.3	76.7	958.5	2
LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4	165.4	231.0	159.0	1642.9	2.7	223.9	860.9	5
	ANDAMAN & NICOBAR ISLANDS LAKSHADWEEP LAKSHADWEEP LAKSHADWEEP LAKSHADWEEP	NICOBAR ISLANDS ANDAMAN & NICOBAR ISLANDS LAKSHADWEEP 2011 LAKSHADWEEP 2013 LAKSHADWEEP 2014	ANDAMAN & NICOBAR ISLANDS LAKSHADWEEP 2011 5.1 LAKSHADWEEP 2012 19.2 LAKSHADWEEP 2013 26.2 LAKSHADWEEP 2014 53.2	ANDAMAN & NICOBAR ISLANDS	ANDAMAN & NICOBAR I 1901	ANDAMAN & NICOBAR ISLANDS 1901 49.2 87.1 29.2 2.3 ISLANDS 1902 0.0 159.8 12.2 0.0 ISLANDS 1903 12.7 144.0 0.0 1.0 ISLANDS 1904 9.4 14.7 0.0 202.4 ISLANDS 1905 1.3 0.0 3.3 26.9 ISLANDS 1905 1.3 0.0 3.3 26.9 ISLANDS 1905 1.3 2.8 3.1 85.9 LAKSHADWEEP 2012 19.2 0.1 1.6 76.8 LAKSHADWEEP 2013 26.2 34.4 37.5 5.3 LAKSHADWEEP 2014 53.2 16.1 4.4 14.9	ANDAMAN & NICOBAR ISLANDS 1901 49.2 87.1 29.2 2.3 528.8 2000 20	ANDAMAN & NICOBAR ISLANDS	ANDAMAN & NICOBAR ISLANDS	ANDAMAN & NICOBAR ISLANDS 1902 49.2 87.1 29.2 2.3 528.8 517.5 365.1 481.1 SANDAMAN & NICOBAR ISLANDS 1902 0.0 159.8 12.2 0.0 446.1 537.1 228.9 753.7 ISLANDS 1903 12.7 144.0 0.0 1.0 235.1 479.9 728.4 326.7 ISLANDS 1904 9.4 14.7 0.0 202.4 304.5 495.1 502.0 160.1 SLANDS 1905 1.3 0.0 3.3 26.9 279.5 628.7 368.7 330.5 ISLANDS 1905 1.3 0.0 3.3 26.9 279.5 628.7 368.7 330.5 ISLANDS 1905 1905 1905 1905 1905 1905 1905 1905	ANDAMAN & NICOBAR ISLANDS	ANDAMAN & NICOBAR I901 49.2 87.1 29.2 2.3 528.8 517.5 365.1 481.1 332.6 388.5 NICOBAR ISLANDS 1902 0.0 159.8 12.2 0.0 446.1 537.1 228.9 753.7 666.2 197.2 ANDAMAN & NICOBAR ISLANDS 1903 12.7 144.0 0.0 1.0 235.1 479.9 728.4 326.7 339.0 181.2 ANDAMAN & NICOBAR ISLANDS 1904 9.4 14.7 0.0 202.4 304.5 495.1 502.0 160.1 820.4 222.2 ANDAMAN & NICOBAR ISLANDS 1905 1.3 0.0 3.3 26.9 279.5 628.7 368.7 330.5 297.0 260.7 ISLANDS 1905 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3 1.3	ANDAMAN & NICOBAR I901 49.2 87.1 29.2 2.3 528.8 517.5 365.1 481.1 332.6 388.5 558.2 ANDAMAN & NICOBAR ISLANDS 1902 0.0 159.8 12.2 0.0 446.1 537.1 228.9 753.7 666.2 197.2 359.0 ANDAMAN & NICOBAR ISLANDS 1903 12.7 144.0 0.0 1.0 235.1 479.9 728.4 326.7 339.0 181.2 284.4 NICOBAR ISLANDS 1904 9.4 14.7 0.0 202.4 304.5 495.1 502.0 160.1 820.4 222.2 308.7 ISLANDS 1905 1.3 0.0 3.3 26.9 279.5 628.7 368.7 368.7 369.5 297.0 260.7 25.4 NICOBAR ISLANDS 1905 1.3 0.0 3.3 26.9 279.5 628.7 368.7 369.7 297.0 260.7 25.4 184.5 184.	ANDAMAN & NICOBAR I901 49.2 87.1 29.2 2.3 528.8 517.5 365.1 481.1 332.6 388.5 558.2 33.6 ISLANDS ANDAMAN & NICOBAR ISLANDS	ANDAMAN & NICOBAR ISLANDS ANDAMAN & NICOBAR ISL	ANDAMAN & NICOBAR ISUN ISUN ISUN ISUN ISUN ISUN ISUN ISUN	ANDAMAN & NICOBAR ISLANDS 1902 2002 387.1 29.2 20.2 20.2 20.2 20.2 20.2 20.2 20.2	ANDAMAN & NICOBAR ISA

4116 rows × 19 columns

In [129]: data.groupby(["SUBDIVISION"]).count()#count the subdivision

Out[129]:

	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oct- Dec
SUBDIVISION																		
ANDAMAN & NICOBAR ISLANDS	110	110	110	108	108	109	108	108	108	107	108	108	107	104	110	107	107	107
ARUNACHAL PRADESH	97	96	96	95	97	97	96	96	97	97	95	95	95	91	96	95	95	94
ASSAM & MEGHALAYA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
BIHAR	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
CHHATTISGARH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
COASTAL ANDHRA PRADESH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
COASTAL KARNATAKA	115	114	115	115	115	115	115	115	115	115	115	115	115	114	114	115	115	115
EAST MADHYA PRADESH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
EAST RAJASTHAN	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
EAST UTTAR PRADESH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
GANGETIC WEST BENGAL	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
GUJARAT REGION	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
HARYANA DELHI & CHANDIGARH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
HIMACHAL PRADESH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
JAMMU & KASHMIR	115	115	115	115	115	115	115	114	115	115	115	114	114	114	115	115	114	114
JHARKHAND	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
KERALA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
KONKAN & GOA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
LAKSHADWEEP	114	112	113	112	112	112	112	111	112	111	111	108	110	103	111	110	110	108
MADHYA MAHARASHTRA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
MATATHWADA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115

	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	Oct- Dec
SUBDIVISION																		
NAGA MANI MIZO TRIPURA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
NORTH INTERIOR KARNATAKA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
ORISSA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
PUNJAB	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
RAYALSEEMA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
SAURASHTRA & KUTCH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
SOUTH INTERIOR KARNATAKA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
SUB HIMALAYAN WEST BENGAL & SIKKIM	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
TAMIL NADU	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
TELANGANA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
UTTARAKHAND	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
VIDARBHA	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
WEST MADHYA PRADESH	115	115	114	115	115	115	115	115	115	115	115	115	115	114	114	115	115	115
WEST RAJASTHAN	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115
WEST UTTAR PRADESH	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115

```
In [130]: data.isna().sum()#duplicate values are displayed
Out[130]: SUBDIVISION
                           0
          YEAR
                           0
          JAN
                           4
          FEB
                           3
          MAR
                           6
          APR
                           4
          MAY
                           3
          JUN
          JUL
          AUG
                           4
          SEP
                           6
          0CT
                           7
          NOV
                          11
          DEC
                          10
          ANNUAL
                          26
          Jan-Feb
                           6
          Mar-May
                           9
          Jun-Sep
                          10
          Oct-Dec
                          13
          dtype: int64
In [131]: data1=data.loc[(data.YEAR<=2022)]#getting data greater than 2022</pre>
```

In [132]: data1

Out[132]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep	(
0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	388.5	558.2	33.6	3373.2	136.3	560.3	1696.3	9
1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	197.2	359.0	160.5	3520.7	159.8	458.3	2185.9	7
2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	181.2	284.4	225.0	2957.4	156.7	236.1	1874.0	6!
3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	222.2	308.7	40.1	3079.6	24.1	506.9	1977.6	5
4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	260.7	25.4	344.7	2566.7	1.3	309.7	1624.9	6:
4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2	117.4	184.3	14.9	1533.7	7.9	196.2	1013.0	3
4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8	145.9	12.4	8.8	1405.5	19.3	99.6	1119.5	1
4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0	72.8	78.1	26.7	1426.3	60.6	131.1	1057.0	1
4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2	169.2	59.0	62.3	1395.0	69.3	76.7	958.5	2
4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4	165.4	231.0	159.0	1642.9	2.7	223.9	860.9	5

4116 rows × 19 columns

In [133]: data1.tail(60)#bottom below 60 rows

Out[133]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep
4056	LAKSHADWEEP	1956	13.6	27.7	1.3	40.8	269.5	356.1	109.8	91.6	148.0	175.6	48.5	4.9	1287.4	41.3	311.6	705.5
4057	LAKSHADWEEP	1957	0.9	11.4	34.6	23.7	195.6	309.9	129.1	149.6	47.5	215.2	198.5	31.2	1347.2	12.3	253.9	636.1
4058	LAKSHADWEEP	1958	0.2	1.6	0.0	8.0	116.0	269.4	84.5	238.2	54.0	133.4	51.1	36.2	992.6	1.8	124.0	646.1
4059	LAKSHADWEEP	1959	15.0	0.0	8.0	51.6	320.5	337.7	205.8	151.2	183.2	183.8	97.8	29.0	1583.6	15.0	380.1	877.9
4060	LAKSHADWEEP	1960	29.6	40.0	3.3	85.4	497.1	176.8	257.3	168.4	221.3	169.7	235.9	17.0	1901.8	69.6	585.8	823.8
4061	LAKSHADWEEP	1961	60.3	47.4	0.0	31.3	421.1	593.2	297.3	228.2	215.8	148.1	98.8	93.8	2235.3	107.7	452.4	1334.5
4062	LAKSHADWEEP	1962	11.1	0.0	0.0	81.5	331.2	149.3	204.5	286.7	201.8	210.9	33.5	76.1	1586.6	11.1	412.7	842.3
4063	LAKSHADWEEP	1963	126.7	112.9	6.5	72.6	204.6	233.0	367.0	249.9	121.8	113.5	211.5	82.1	1902.1	239.6	283.7	971.7
4064	LAKSHADWEEP	1964	2.5	3.5	5.2	40.4	64.2	376.1	407.0	174.6	342.5	120.9	90.8	24.0	1651.7	6.0	109.8	1300.2
4065	LAKSHADWEEP	1965	0.2	7.3	8.3	35.0	162.5	200.6	164.2	267.7	92.4	69.2	77.9	320.6	1405.9	7.5	205.8	724.9
4066	LAKSHADWEEP	1966	21.3	0.2	6.2	4.4	34.9	376.7	421.9	158.9	225.4	266.1	158.0	67.5	1741.5	21.5	45.5	1182.9
4067	LAKSHADWEEP	1967	7.8	2.7	0.0	0.0	148.3	301.2	380.1	196.9	100.4	92.3	24.5	33.1	1287.3	10.5	148.3	978.6
4068	LAKSHADWEEP	1968	8.7	1.8	30.6	45.4	16.6	393.8	439.8	84.1	202.8	46.5	31.4	42.9	1344.4	10.5	92.6	1120.5
4069	LAKSHADWEEP	1969	30.0	4.1	0.0	63.3	237.9	125.6	149.0	225.3	95.9	162.3	157.5	165.2	1416.1	34.1	301.2	595.8
4070	LAKSHADWEEP	1970	18.7	6.3	13.8	32.3	164.9	322.1	484.4	284.6	228.9	126.9	81.2	18.9	1783.0	25.0	211.0	1320.0
4071	LAKSHADWEEP	1971	3.8	12.3	5.4	25.0	271.6	333.9	308.1	349.6	281.8	113.8	63.0	133.1	1901.4	16.1	302.0	1273.4
4072	LAKSHADWEEP	1972	0.0	1.1	0.0	11.4	81.3	349.2	197.3	172.5	152.0	219.2	94.2	9.4	1287.6	1.1	92.7	871.0
4073	LAKSHADWEEP	1973	0.3	5.8	0.0	40.7	96.3	260.5	299.9	437.9	57.3	150.9	108.1	99.7	1557.4	6.1	137.0	1055.6
4074	LAKSHADWEEP	1974	0.0	16.8	8.0	35.4	171.9	277.6	491.6	165.7	258.3	65.9	20.1	7.2	1511.3	16.8	208.1	1193.2
4075	LAKSHADWEEP	1975	8.6	0.7	18.4	92.9	282.2	250.0	278.0	348.4	299.5	111.6	155.2	45.0	1890.5	9.3	393.5	1175.9
4076	LAKSHADWEEP	1976	10.3	0.0	1.1	72.9	85.3	260.7	329.2	344.1	36.6	189.2	161.6	11.1	1502.1	10.3	159.3	970.6
4077	LAKSHADWEEP	1977	1.4	38.2	16.5	27.6	256.8	460.7	337.4	125.3	90.7	248.4	243.8	1.4	1848.2	39.6	300.9	1014.1
4078	LAKSHADWEEP	1978	0.2	6.5	0.6	44.1	309.5	568.3	224.7	303.5	105.1	92.1	294.2	18.6	1967.4	6.7	354.2	1201.6

SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep
LAKSHADWEEP	1979	14.9	1.3	10.0	15.4	23.1	367.1	451.3	127.3	221.1	173.6	378.1	42.2	1825.4	16.2	48.5	1166.8
LAKSHADWEEP	1980	7.5	10.5	13.1	19.7	123.5	233.6	185.0	217.6	67.0	122.1	98.5	113.6	1211.7	18.0	156.3	703.2
LAKSHADWEEP	1981	1.8	20.4	0.6	22.3	208.6	421.5	168.9	213.3	281.4	167.4	76.6	34.6	1617.4	22.2	231.5	1085.1
LAKSHADWEEP	1982	1.6	0.4	0.6	0.4	106.8	321.6	254.5	326.1	121.3	70.7	178.6	9.4	1392.0	2.0	107.8	1023.5
LAKSHADWEEP	1983	1.4	0.0	0.0	0.2	113.5	215.0	277.0	375.0	219.8	77.6	71.2	52.5	1403.2	1.4	113.7	1086.8
LAKSHADWEEP	1984	71.1	114.9	96.7	65.1	46.7	318.9	271.5	124.9	83.1	218.3	155.4	25.0	1591.6	186.0	208.5	798.4
LAKSHADWEEP	1985	6.4	0.0	27.4	11.1	182.9	326.1	152.1	203.0	206.4	42.0	62.3	83.7	1303.4	6.4	221.4	887.6
LAKSHADWEEP	1986	12.4	3.0	25.3	6.5	102.1	399.2	193.3	218.3	179.9	128.6	147.8	49.5	1465.9	15.4	133.9	990.7
LAKSHADWEEP	1987	1.9	1.5	0.0	16.5	72.9	389.3	29.4	284.7	183.4	133.0	47.7	128.3	1288.6	3.4	89.4	886.8
LAKSHADWEEP	1988	0.8	7.0	0.9	54.0	142.8	352.5	293.6	240.9	240.9	28.9	82.7	5.8	1450.8	7.8	197.7	1127.9
LAKSHADWEEP	1989	20.6	0.0	4.4	93.0	106.7	473.5	387.5	167.3	216.3	172.4	69.2	3.5	1714.4	20.6	204.1	1244.6
LAKSHADWEEP	1990	38.9	0.3	21.4	0.0	191.1	181.6	334.0	123.5	98.9	160.4	155.4	5.0	1310.5	39.2	212.5	738.0
LAKSHADWEEP	1991	12.3	0.0	18.7	12.3	68.0	604.3	241.1	253.8	45.7	222.7	75.5	28.6	1583.0	12.3	99.0	1144.9
LAKSHADWEEP	1992	4.0	0.1	0.0	3.3	128.1	346.6	363.0	373.3	95.1	120.4	69.3	31.7	1534.9	4.1	131.4	1178.0
LAKSHADWEEP	1993	1.2	0.5	0.2	0.2	56.5	276.1	346.7	154.4	161.0	131.6	280.5	40.8	1449.7	1.7	56.9	938.2
LAKSHADWEEP	1994	12.4	66.6	34.8	88.8	78.9	361.1	240.2	219.7	76.2	213.5	153.7	1.2	1547.1	79.0	202.5	897.2
LAKSHADWEEP	1995	131.3	18.5	0.3	315.4	179.6	286.0	486.7	384.8	71.8	81.0	72.2	3.3	2030.9	149.8	495.3	1229.3
LAKSHADWEEP	1996	44.7	1.1	1.6	17.4	50.0	427.1	335.3	197.3	230.4	109.0	60.5	131.6	1606.0	45.8	69.0	1190.1
LAKSHADWEEP	1997	2.2	0.1	4.9	33.8	62.3	307.0	459.6	216.8	144.0	213.5	200.8	119.7	1764.7	2.3	101.0	1127.4
LAKSHADWEEP	1998	52.0	0.0	1.8	40.3	68.2	382.0	388.8	196.7	274.7	184.8	144.1	253.5	1986.9	52.0	110.3	1242.2
LAKSHADWEEP	1999	47.8	2.5	18.3	20.6	416.7	279.6	459.4	133.8	73.4	305.0	51.2	49.0	1857.3	50.3	455.6	946.2
LAKSHADWEEP	2000	83.3	18.9	3.4	47.9	204.6	225.4	95.5	319.9	164.5	141.4	56.3	11.0	1372.1	102.2	255.9	805.3
LAKSHADWEEP	2001	4.4	20.4	0.0	104.6	187.3	283.9	198.9	144.3	213.5	105.2	101.5	16.6	1380.6	24.8	291.9	840.6
LAKSHADWEEP	2002	10.8	16.8	7.2	23.4	189.8	261.8	81.3	143.9	50.0	178.2	52.9	17.4	1033.5	27.6	220.4	537.0
LAKSHADWEEP	2003	11.8	18.2	28.5	18.1	109.6	364.5	400.6	92.1	84.3	191.6	206.1	7.5	1532.9	30.0	156.2	941.5
	LAKSHADWEEP	LAKSHADWEEP 1980 LAKSHADWEEP 1981 LAKSHADWEEP 1982 LAKSHADWEEP 1983 LAKSHADWEEP 1984 LAKSHADWEEP 1985 LAKSHADWEEP 1986 LAKSHADWEEP 1987 LAKSHADWEEP 1988 LAKSHADWEEP 1989 LAKSHADWEEP 1990 LAKSHADWEEP 1991 LAKSHADWEEP 1991 LAKSHADWEEP 1992 LAKSHADWEEP 1993 LAKSHADWEEP 1993 LAKSHADWEEP 1994 LAKSHADWEEP 1995 LAKSHADWEEP 1995 LAKSHADWEEP 1996 LAKSHADWEEP 1997 LAKSHADWEEP 1998 LAKSHADWEEP 1999 LAKSHADWEEP 1999 LAKSHADWEEP 1999 LAKSHADWEEP 1999 LAKSHADWEEP 1999 LAKSHADWEEP 1999 LAKSHADWEEP 2000 LAKSHADWEEP 2001 LAKSHADWEEP 2001	LAKSHADWEEP 1979 14.9 LAKSHADWEEP 1980 7.5 LAKSHADWEEP 1981 1.8 LAKSHADWEEP 1982 1.6 LAKSHADWEEP 1983 1.4 LAKSHADWEEP 1984 71.1 LAKSHADWEEP 1985 6.4 LAKSHADWEEP 1986 12.4 LAKSHADWEEP 1987 1.9 LAKSHADWEEP 1988 0.8 LAKSHADWEEP 1989 20.6 LAKSHADWEEP 1990 38.9 LAKSHADWEEP 1991 12.3 LAKSHADWEEP 1991 12.3 LAKSHADWEEP 1992 4.0 LAKSHADWEEP 1993 1.2 LAKSHADWEEP 1993 1.2 LAKSHADWEEP 1994 12.4 LAKSHADWEEP 1995 131.3 LAKSHADWEEP 1996 44.7 LAKSHADWEEP 1997 2.2 LAKSHADWEEP 1998 52.0 LAKSHADWEEP 1999 47.8 LAKSHADWEEP 1999 47.8 LAKSHADWEEP 1999 47.8 LAKSHADWEEP 2000 83.3 LAKSHADWEEP 2001 4.4 LAKSHADWEEP 2001 4.4	LAKSHADWEEP 1979 14.9 1.3 LAKSHADWEEP 1980 7.5 10.5 LAKSHADWEEP 1981 1.8 20.4 LAKSHADWEEP 1982 1.6 0.4 LAKSHADWEEP 1983 1.4 0.0 LAKSHADWEEP 1984 71.1 114.9 LAKSHADWEEP 1985 6.4 0.0 LAKSHADWEEP 1986 12.4 3.0 LAKSHADWEEP 1987 1.9 1.5 LAKSHADWEEP 1988 0.8 7.0 LAKSHADWEEP 1999 38.9 0.3 LAKSHADWEEP 1990 38.9 0.3 LAKSHADWEEP 1991 12.3 0.0 LAKSHADWEEP 1991 12.3 0.0 LAKSHADWEEP 1992 4.0 0.1 LAKSHADWEEP 1993 1.2 0.5 LAKSHADWEEP 1995 131.3 18.5 LAKSHADWEEP 1997 2.2 0.1	LAKSHADWEEP 1979 14.9 1.3 10.0 LAKSHADWEEP 1980 7.5 10.5 13.1 LAKSHADWEEP 1981 1.8 20.4 0.6 LAKSHADWEEP 1982 1.6 0.4 0.6 LAKSHADWEEP 1983 1.4 0.0 0.0 LAKSHADWEEP 1984 71.1 114.9 96.7 LAKSHADWEEP 1985 6.4 0.0 27.4 LAKSHADWEEP 1986 12.4 3.0 25.3 LAKSHADWEEP 1987 1.9 1.5 0.0 LAKSHADWEEP 1988 0.8 7.0 0.9 LAKSHADWEEP 1989 20.6 0.0 4.4 LAKSHADWEEP 1990 38.9 0.3 21.4 LAKSHADWEEP 1991 12.3 0.0 18.7 LAKSHADWEEP 1992 4.0 0.1 0.0 LAKSHADWEEP 1993 1.2 0.5 0.2 LAKSHADWEEP	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 LAKSHADWEEP 1982 1.6 0.4 0.6 0.4 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 LAKSHADWEEP 1985 6.4 0.0 27.4 11.1 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 LAKSHADWEEP 1987 1.9 1.5 0.0 16.5 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 LAKSHADWEEP 1990 38.9 0.3 21.4 0.0 LAKSHADWEEP 1991 12.3 0.0 18.7 12.3 LAKSHADWEEP 1992 4.0 0.1 0.0 3.3 <	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 LAKSHADWEEP 1982 1.6 0.4 0.6 0.4 106.8 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 113.5 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 46.7 LAKSHADWEEP 1985 6.4 0.0 27.4 11.1 182.9 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 102.1 LAKSHADWEEP 1987 1.9 1.5 0.0 16.5 72.9 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8 LAKSHADWEEP 1990 38.9 0.3 21.4 0.0 106.7 LAKSHADWEEP 1991 12.3 <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 233.6 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 LAKSHADWEEP 1982 1.6 0.4 0.6 0.4 106.8 321.6 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 113.5 215.0 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 46.7 318.9 LAKSHADWEEP 1985 6.4 0.0 27.4 11.1 182.9 326.1 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 102.1 399.2 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8 352.5 LAKSHADWEEP 1989 20.6 0.0 4.4 93.0 106.7 473.5 LAKSH</th> <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 233.6 185.0 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 168.9 LAKSHADWEEP 1982 1.6 0.4 0.6 0.4 106.8 321.6 254.5 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 113.5 215.0 277.0 LAKSHADWEEP 1986 6.4 0.0 27.4 11.1 182.9 326.1 152.1 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 102.1 399.2 193.3 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8 352.5 293.6 LAKSHADWEEP 1999 38.9 0.3 21.4 0.0 191.1 181.6 340.0 LA</th> <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 127.3 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 23.6 185.0 217.6 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 168.9 213.3 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 113.5 215.0 27.0 375.0 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 46.7 318.9 271.5 124.9 LAKSHADWEEP 1986 6.4 0.0 27.4 11.1 182.9 26.1 152.1 203.0 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 102.1 399.2 193.2 293.0 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8 35.5 293.6 240.9 LAKSHADWEEP 1999</th> <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 27.3 221.1 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 223.5 233.6 185.0 217.6 67.0 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 168.9 213.3 281.4 LAKSHADWEEP 1982 1.6 0.4 0.6 0.2 113.5 215.0 277.0 375.0 219.8 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 46.7 318.9 271.5 124.9 83.1 LAKSHADWEEP 1986 6.4 0.0 27.4 11.1 182.9 326.1 152.1 203.0 204.0 LAKSHADWEEP 1987 1.9 1.5 0.0 16.5 72.9 389.3 29.4 240.9 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8</th> <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 127.3 221.1 173.6 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 233.6 185.0 217.6 67.0 122.1 LAKSHADWEEP 1982 1.6 0.4 0.6 22.3 208.6 421.5 168.9 213.2 281.4 167.4 LAKSHADWEEP 1982 1.6 0.4 0.6 0.2 13.5 215.0 277.0 375.0 219.8 77.7 LAKSHADWEEP 1983 6.4 0.0 27.4 11.1 182.9 326.1 152.1 203.0 293.4 218.3 21</th> <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 23.1 21.3 12.3 221.1 17.6 73.6 73.6 10.5 13.1 19.7 123.5 23.6 18.0 21.6 67.0 122.1 98.5 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 16.9 21.3 281.4 167.4 76.6 LAKSHADWEEP 1982 1.6 0.4 0.0 0.2 113.5 215.0 27.0 27.0 27.0 77.0</th> <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 45.3 12.3 21.1 17.6 378.1 42.2 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 23.6 23.6 18.0 21.0 12.1 98.5 13.1 LAKSHADWEEP 1981 10.8 20.4 06 22.3 20.8 21.5 26.0 21.3 21.0 70.7 71.0 75.0 LAKSHADWEEP 1983 14.4 0.0 0.0 20.2 13.5 215.0 27.0 21.0 21.0 70.7 71.2 75.0 LAKSHADWEEP 1984 71.1 11.49 96.7 65.1 46.7 31.0 21.0</th> <th>LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 22.1 17.3 37.1 42.2 1825.4 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 23.5 23.6 185.0 21.6 67.0 122.1 98.5 11.3 121.7 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 21.5 168.0 21.3 21.4 167.4 76.6 34.6 161.7 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 11.5 21.5 21.0 27.1 21.9 83.7 71.2 52.5 1403.2 LAKSHADWEEP 1989 6.4 0.0 27.4 11.1 18.29 32.6 193.2 12.3 12.8 83.7 13.0 14.5 14.2 18.2 18.3 17.9 12.8 42.5 14.0 14.2 14.2 12.3 12.3 12.2 12.3 14.2</th> <th> Pack Pack </th> <th> LAKSHADWEEP 1979 14.9 1.3 1.0 1.5 1.0 </th>	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 233.6 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 LAKSHADWEEP 1982 1.6 0.4 0.6 0.4 106.8 321.6 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 113.5 215.0 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 46.7 318.9 LAKSHADWEEP 1985 6.4 0.0 27.4 11.1 182.9 326.1 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 102.1 399.2 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8 352.5 LAKSHADWEEP 1989 20.6 0.0 4.4 93.0 106.7 473.5 LAKSH	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 233.6 185.0 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 168.9 LAKSHADWEEP 1982 1.6 0.4 0.6 0.4 106.8 321.6 254.5 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 113.5 215.0 277.0 LAKSHADWEEP 1986 6.4 0.0 27.4 11.1 182.9 326.1 152.1 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 102.1 399.2 193.3 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8 352.5 293.6 LAKSHADWEEP 1999 38.9 0.3 21.4 0.0 191.1 181.6 340.0 LA	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 127.3 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 23.6 185.0 217.6 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 168.9 213.3 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 113.5 215.0 27.0 375.0 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 46.7 318.9 271.5 124.9 LAKSHADWEEP 1986 6.4 0.0 27.4 11.1 182.9 26.1 152.1 203.0 LAKSHADWEEP 1986 12.4 3.0 25.3 6.5 102.1 399.2 193.2 293.0 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8 35.5 293.6 240.9 LAKSHADWEEP 1999	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 27.3 221.1 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 223.5 233.6 185.0 217.6 67.0 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 168.9 213.3 281.4 LAKSHADWEEP 1982 1.6 0.4 0.6 0.2 113.5 215.0 277.0 375.0 219.8 LAKSHADWEEP 1984 71.1 114.9 96.7 65.1 46.7 318.9 271.5 124.9 83.1 LAKSHADWEEP 1986 6.4 0.0 27.4 11.1 182.9 326.1 152.1 203.0 204.0 LAKSHADWEEP 1987 1.9 1.5 0.0 16.5 72.9 389.3 29.4 240.9 LAKSHADWEEP 1988 0.8 7.0 0.9 54.0 142.8	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 127.3 221.1 173.6 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 123.5 233.6 185.0 217.6 67.0 122.1 LAKSHADWEEP 1982 1.6 0.4 0.6 22.3 208.6 421.5 168.9 213.2 281.4 167.4 LAKSHADWEEP 1982 1.6 0.4 0.6 0.2 13.5 215.0 277.0 375.0 219.8 77.7 LAKSHADWEEP 1983 6.4 0.0 27.4 11.1 182.9 326.1 152.1 203.0 293.4 218.3 21	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 23.1 21.3 12.3 221.1 17.6 73.6 73.6 10.5 13.1 19.7 123.5 23.6 18.0 21.6 67.0 122.1 98.5 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 421.5 16.9 21.3 281.4 167.4 76.6 LAKSHADWEEP 1982 1.6 0.4 0.0 0.2 113.5 215.0 27.0 27.0 27.0 77.0	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 45.3 12.3 21.1 17.6 378.1 42.2 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 23.6 23.6 18.0 21.0 12.1 98.5 13.1 LAKSHADWEEP 1981 10.8 20.4 06 22.3 20.8 21.5 26.0 21.3 21.0 70.7 71.0 75.0 LAKSHADWEEP 1983 14.4 0.0 0.0 20.2 13.5 215.0 27.0 21.0 21.0 70.7 71.2 75.0 LAKSHADWEEP 1984 71.1 11.49 96.7 65.1 46.7 31.0 21.0	LAKSHADWEEP 1979 14.9 1.3 10.0 15.4 23.1 367.1 451.3 22.1 17.3 37.1 42.2 1825.4 LAKSHADWEEP 1980 7.5 10.5 13.1 19.7 23.5 23.6 185.0 21.6 67.0 122.1 98.5 11.3 121.7 LAKSHADWEEP 1981 1.8 20.4 0.6 22.3 208.6 21.5 168.0 21.3 21.4 167.4 76.6 34.6 161.7 LAKSHADWEEP 1983 1.4 0.0 0.0 0.2 11.5 21.5 21.0 27.1 21.9 83.7 71.2 52.5 1403.2 LAKSHADWEEP 1989 6.4 0.0 27.4 11.1 18.29 32.6 193.2 12.3 12.8 83.7 13.0 14.5 14.2 18.2 18.3 17.9 12.8 42.5 14.0 14.2 14.2 12.3 12.3 12.2 12.3 14.2	Pack Pack	LAKSHADWEEP 1979 14.9 1.3 1.0 1.5 1.0

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL	Jan- Feb	Mar- May	Jun- Sep
4104	LAKSHADWEEP	2004	7.2	1.5	1.9	7.7	330.2	251.2	280.8	169.5	200.0	193.4	107.6	2.2	1553.2	8.7	339.8	901.5
4105	LAKSHADWEEP	2005	17.6	11.1	0.0	37.0	92.8	248.5	378.9	102.4	278.0	164.2	218.3	26.6	1575.4	28.7	129.8	1007.8
4106	LAKSHADWEEP	2006	20.1	0.0	33.0	0.3	327.9	286.9	172.3	150.7	318.5	119.1	158.9	10.9	1598.6	20.1	361.2	928.4
4107	LAKSHADWEEP	2007	2.5	4.2	0.2	22.2	166.2	573.4	427.4	294.7	457.5	256.1	47.6	109.6	2361.6	6.7	188.6	1753.0
4108	LAKSHADWEEP	2008	5.5	19.8	120.7	15.8	180.4	254.6	363.9	206.6	108.9	252.9	67.6	130.1	1726.8	25.3	316.9	934.0
4109	LAKSHADWEEP	2009	4.7	1.5	0.1	18.1	162.1	401.2	266.4	185.0	145.1	87.4	166.2	132.3	1570.1	6.2	180.3	997.7
4110	LAKSHADWEEP	2010	18.8	0.0	1.2	35.6	79.0	318.9	336.7	335.1	161.5	155.4	201.5	81.5	1725.2	18.8	115.8	1152.2
4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2	117.4	184.3	14.9	1533.7	7.9	196.2	1013.0
4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8	145.9	12.4	8.8	1405.5	19.3	99.6	1119.5
4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0	72.8	78.1	26.7	1426.3	60.6	131.1	1057.0
4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2	169.2	59.0	62.3	1395.0	69.3	76.7	958.5
4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4	165.4	231.0	159.0	1642.9	2.7	223.9	860.9

In [134]: data2=data1.drop(["ANNUAL","Jan-Feb","Mar-May","Jun-Sep","Oct-Dec"],axis=1)#delete the columns

In [135]: data2

Out[135]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
0	ANDAMAN & NICOBAR ISLANDS	1901	49.2	87.1	29.2	2.3	528.8	517.5	365.1	481.1	332.6	388.5	558.2	33.6
1	ANDAMAN & NICOBAR ISLANDS	1902	0.0	159.8	12.2	0.0	446.1	537.1	228.9	753.7	666.2	197.2	359.0	160.5
2	ANDAMAN & NICOBAR ISLANDS	1903	12.7	144.0	0.0	1.0	235.1	479.9	728.4	326.7	339.0	181.2	284.4	225.0
3	ANDAMAN & NICOBAR ISLANDS	1904	9.4	14.7	0.0	202.4	304.5	495.1	502.0	160.1	820.4	222.2	308.7	40.1
4	ANDAMAN & NICOBAR ISLANDS	1905	1.3	0.0	3.3	26.9	279.5	628.7	368.7	330.5	297.0	260.7	25.4	344.7
4111	LAKSHADWEEP	2011	5.1	2.8	3.1	85.9	107.2	153.6	350.2	254.0	255.2	117.4	184.3	14.9
4112	LAKSHADWEEP	2012	19.2	0.1	1.6	76.8	21.2	327.0	231.5	381.2	179.8	145.9	12.4	8.8
4113	LAKSHADWEEP	2013	26.2	34.4	37.5	5.3	88.3	426.2	296.4	154.4	180.0	72.8	78.1	26.7
4114	LAKSHADWEEP	2014	53.2	16.1	4.4	14.9	57.4	244.1	116.1	466.1	132.2	169.2	59.0	62.3
4115	LAKSHADWEEP	2015	2.2	0.5	3.7	87.1	133.1	296.6	257.5	146.4	160.4	165.4	231.0	159.0

4116 rows × 14 columns

data2=data2.loc[(data2.SUBDIVISION=="ARUNACHAL PRADESH")]#only arunachal data can be printed In [137]: In [138]: data2 Out[138]: SUBDIVISION YEAR JAN FEB MAR APR MAY JUN JUL **AUG** SEP OCT NOV DEC 110 ARUNACHAL PRADESH 69.8 71.1 1916 48.1 316.1 424.6 1124.9 NaN 629.7 333.9 NaN NaN NaN 111 ARUNACHAL PRADESH 1917 21.4 164.5 NaN 269.6 107.9 823.8 909.1 628.4 411.5 199.3 0.0 112 ARUNACHAL PRADESH 191.2 861.1 1609.9 1303.0 692.6 515.8 125.2 1918 10.4 11.0 144.6 13.7 256.9 973.6 ARUNACHAL PRADESH 1919 34.5 67.8 28.5 420.6 999.0 286.7 628.7 948.3 40.7 8.6 114 ARUNACHAL PRADESH 1920 14.0 196.3 605.6 364.7 173.6 840.6 535.4 896.5 376.7 103.3 0.0 0.0 202 ARUNACHAL PRADESH 2011 40.0 51.3 174.5 240.8 219.6 288.4 531.4 277.6 286.7 51.9 16.2 15.2 203 ARUNACHAL PRADESH 2012 57.8 35.8 134.2 403.4 187.4 645.8 638.9 316.0 724.9 248.1 22.0 26.2 ARUNACHAL PRADESH 2013 18.5 40.5 115.1 175.1 335.8 290.0 329.6 230.2 316.1 164.1 13.3 14.6 299.0 415.8 ARUNACHAL PRADESH 19.0 101.9 80.3 86.7 392.4 599.6 343.0 35.1 20.1 10.2 2014 **206** ARUNACHAL PRADESH 2015 30.8 47.5 97.5 287.1 238.9 637.9 329.3 595.5 374.2 65.2 33.8 29.8 97 rows × 14 columns data3.isna().sum()#duplicate values are displayed In [139]: Out[139]: **SUBDIVISION** 0 YEAR 0 ANNUAL RAIN 6 dtype: int64 data2['ANNUAL RAIN']=data2.apply(lambda row:row.JAN + row.FEB+ row.MAR+ row.APR+ row.JUN+ row.JUL+ row.AUG+ In [140]:

In [141]: data2.head(10)

Out[141]:

	SUBDIVISION	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL RAIN
110	ARUNACHAL PRADESH	1916	48.1	69.8	71.1	316.1	424.6	1124.9	NaN	629.7	333.9	NaN	NaN	NaN	NaN
111	ARUNACHAL PRADESH	1917	21.4	164.5	NaN	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	NaN
112	ARUNACHAL PRADESH	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	4625.2
113	ARUNACHAL PRADESH	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4273.3
114	ARUNACHAL PRADESH	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	3933.1
115	ARUNACHAL PRADESH	1921	78.9	54.3	180.3	358.0	598.0	1233.2	1433.0	885.9	603.4	246.3	4.6	15.5	5093.4
116	ARUNACHAL PRADESH	1922	50.7	59.4	170.4	299.5	350.5	1109.3	918.7	488.3	207.6	483.5	30.3	19.0	3836.7
117	ARUNACHAL PRADESH	1923	9.4	160.8	34.0	240.9	445.4	408.6	1278.5	251.3	617.3	50.1	8.4	2.8	3062.1
118	ARUNACHAL PRADESH	1924	85.7	45.1	74.1	162.4	515.7	1165.0	942.7	713.8	410.8	303.3	31.9	0.0	3934.8
119	ARUNACHAL PRADESH	1925	80.6	114.0	143.3	223.0	587.2	611.6	611.0	684.7	1222.0	153.2	5.1	4.1	3852.6

In [142]: data3=data2.drop(["SUBDIVISION"],axis=1)#delete a column

In [143]: data3

Out[143]:

	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL RAIN
110	1916	48.1	69.8	71.1	316.1	424.6	1124.9	NaN	629.7	333.9	NaN	NaN	NaN	NaN
111	1917	21.4	164.5	NaN	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	NaN
112	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	4625.2
113	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4273.3
114	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	3933.1
202	2011	40.0	51.3	174.5	240.8	219.6	288.4	531.4	277.6	286.7	51.9	16.2	15.2	1974.0
203	2012	57.8	35.8	134.2	403.4	187.4	645.8	638.9	316.0	724.9	248.1	22.0	26.2	3253.1
204	2013	18.5	40.5	115.1	175.1	335.8	290.0	329.6	230.2	316.1	164.1	13.3	14.6	1707.1
205	2014	19.0	101.9	80.3	86.7	299.0	415.8	392.4	599.6	343.0	35.1	20.1	10.2	2104.1
206	2015	30.8	47.5	97.5	287.1	238.9	637.9	329.3	595.5	374.2	65.2	33.8	29.8	2528.6

97 rows × 14 columns

In [144]: cor_mat=data3.corr()#correlation
 cor_mat

Out[144]:

	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	С
YEAR	1.000000	-0.176300	-0.213918	-0.157302	-0.253946	-0.401934	-0.626889	-0.494607	-0.394066	-0.396480	-0.325208	-0.096053	-0.070
JAN	-0.176300	1.000000	0.083391	0.099054	0.256921	0.217524	0.208187	0.071617	0.193102	0.189419	0.169379	0.162395	0.286
FEB	-0.213918	0.083391	1.000000	0.321564	0.205643	-0.027577	0.111802	0.140842	0.063751	0.154883	-0.024632	0.159914	0.050
MAR	-0.157302	0.099054	0.321564	1.000000	0.307354	0.023099	0.111475	0.047547	0.058362	0.054761	-0.137731	-0.048569	0.065
APR	-0.253946	0.256921	0.205643	0.307354	1.000000	0.097526	0.290472	0.238319	0.132668	0.198362	0.054994	0.295455	0.329
MAY	-0.401934	0.217524	-0.027577	0.023099	0.097526	1.000000	0.398268	0.510852	0.367445	0.246939	0.141720	0.040734	0.093
JUN	-0.626889	0.208187	0.111802	0.111475	0.290472	0.398268	1.000000	0.540408	0.426753	0.354854	0.217141	0.124429	0.054
JUL	-0.494607	0.071617	0.140842	0.047547	0.238319	0.510852	0.540408	1.000000	0.218016	0.380741	0.173107	-0.137416	0.091
AUG	-0.394066	0.193102	0.063751	0.058362	0.132668	0.367445	0.426753	0.218016	1.000000	0.259420	0.293511	0.062165	0.008
SEP	-0.396480	0.189419	0.154883	0.054761	0.198362	0.246939	0.354854	0.380741	0.259420	1.000000	0.241075	-0.040257	0.080
ОСТ	-0.325208	0.169379	-0.024632	-0.137731	0.054994	0.141720	0.217141	0.173107	0.293511	0.241075	1.000000	-0.047687	-0.013
NOV	-0.096053	0.162395	0.159914	-0.048569	0.295455	0.040734	0.124429	-0.137416	0.062165	-0.040257	-0.047687	1.000000	0.312
DEC	-0.070899	0.286771	0.050085	0.065364	0.329066	0.093530	0.054968	0.091248	0.008145	0.080062	-0.013078	0.312240	1.000
ANNUAL RAIN	-0.703229	0.320120	0.247846	0.242045	0.465778	0.518707	0.804169	0.746564	0.627006	0.644468	0.422273	0.074708	0.171

```
import seaborn as reddy#correlation by using graph
In [145]:
                reddy.heatmap(cor mat, vmax=1, vmin=-1, annot=True, linewidth=.5, cmap='bwr')
Out[145]: <AxesSubplot:>
                                                                                     - 1.00
                         YEAR - 1 -0.180.240.160.250.40.640.390.40.380.090607-0.7
                          JAN -0.18 1 0.083099.260.220.210.0710.190.190.170.160.290.32
                                                                                     - 0.75
                          FEB -0.20.08: 1 0.320.240.028.110.14.064.150.026.160.050.25
                         MAR -0.16.099.32 1 0.3 D.02 D.1 D.04805805-D.14.04906-D.24
                                                                                     - 0.50
                         APR -0.250.260.210.31 10.0980.290.240.130.20.0550.30.330
                                                                                     - 0.25
                          MAY -0.40.220.028023098 1 0.4 0.510.370.250.140.041.094.52
                          JUN -0.620.210.110.110.29 0.4 1 0.540.430.350.220.120.0550.8
                                                                                     - 0.00
                          JUL -0.40.072.14.048.240.510.54 1 0.220.380.170.14.090.75
                         AUG -0.3 0.19.064058.130.370.430.22 1 0.260.29.0620080.63
                                                                                     - -0.25
                          SEP -0.40.190.15.0550.20.250.350.380.26 1 0.240.040.080.64
                         OCT -0.330.1-0.028.10.059.140.220.170.290.24 10.048018.42
                                                                                    - -0.50
                         NOV-9.096.160.160.0490.30.04 D.120.10.0620.04.0481 0.3 D.075
                                                                                     - -0.75
                         DEC-9.070.290.050.065.380.0904056.09000801040.010.31 1 0.17
                 ANNUAL RAIN -0.70.320.250.240.470.52 0.8 0.750.630.640.420.0750.17 1
                                                                                     - -1.00
                               FEAR MAR MAR MAR MAY JUN JUL AUG SEP OCT DEC DEC
```

```
In [146]: data3['nem']=data2.apply(lambda row:row.OCT+ row.NOV+ row.DEC,axis=1)#adding rows
```

In [147]: data3

Out[147]:

	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL RAIN	nem
110	1916	48.1	69.8	71.1	316.1	424.6	1124.9	NaN	629.7	333.9	NaN	NaN	NaN	NaN	NaN
111	1917	21.4	164.5	NaN	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	NaN	262.8
112	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	4625.2	146.7
113	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4273.3	997.6
114	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	3933.1	103.3

202	2011	40.0	51.3	174.5	240.8	219.6	288.4	531.4	277.6	286.7	51.9	16.2	15.2	1974.0	83.3
203	2012	57.8	35.8	134.2	403.4	187.4	645.8	638.9	316.0	724.9	248.1	22.0	26.2	3253.1	296.3
204	2013	18.5	40.5	115.1	175.1	335.8	290.0	329.6	230.2	316.1	164.1	13.3	14.6	1707.1	192.0
205	2014	19.0	101.9	80.3	86.7	299.0	415.8	392.4	599.6	343.0	35.1	20.1	10.2	2104.1	65.4
206	2015	30.8	47.5	97.5	287.1	238.9	637.9	329.3	595.5	374.2	65.2	33.8	29.8	2528.6	128.8

97 rows × 15 columns

In [148]: data3['swm']=data2.apply(lambda row: row.JUN+ row.JUL+ row.AUG+ row.SEP,axis=1)#adding columns

In [149]: data3

Out[149]:

	YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	ANNUAL RAIN	nem	swm
110	1916	48.1	69.8	71.1	316.1	424.6	1124.9	NaN	629.7	333.9	NaN	NaN	NaN	NaN	NaN	NaN
111	1917	21.4	164.5	NaN	269.6	107.9	823.8	909.1	628.4	411.5	199.3	63.5	0.0	NaN	262.8	2772.8
112	1918	10.4	11.0	191.2	144.6	861.1	1609.9	1303.0	692.6	515.8	125.2	7.8	13.7	4625.2	146.7	4121.3
113	1919	34.5	67.8	28.5	256.9	420.6	973.6	999.0	286.7	628.7	948.3	40.7	8.6	4273.3	997.6	2888.0
114	1920	14.0	196.3	605.6	364.7	173.6	840.6	535.4	896.5	376.7	103.3	0.0	0.0	3933.1	103.3	2649.2

202	2011	40.0	51.3	174.5	240.8	219.6	288.4	531.4	277.6	286.7	51.9	16.2	15.2	1974.0	83.3	1384.1
203	2012	57.8	35.8	134.2	403.4	187.4	645.8	638.9	316.0	724.9	248.1	22.0	26.2	3253.1	296.3	2325.6
204	2013	18.5	40.5	115.1	175.1	335.8	290.0	329.6	230.2	316.1	164.1	13.3	14.6	1707.1	192.0	1165.9
205	2014	19.0	101.9	80.3	86.7	299.0	415.8	392.4	599.6	343.0	35.1	20.1	10.2	2104.1	65.4	1750.8
206	2015	30.8	47.5	97.5	287.1	238.9	637.9	329.3	595.5	374.2	65.2	33.8	29.8	2528.6	128.8	1936.9

97 rows × 16 columns

In [150]: data3=data3.drop(["JAN","FEB","MAR","APR","MAY","JUN","JUL","AUG","SEP","OCT","NOV","DEC"],axis=1)#drop colu

In [151]: data3

Out[151]:

	YEAR	ANNUAL RAIN	nem	swm
110	1916	NaN	NaN	NaN
111	1917	NaN	262.8	2772.8
112	1918	4625.2	146.7	4121.3
113	1919	4273.3	997.6	2888.0
114	1920	3933.1	103.3	2649.2

202	2011	1974.0	83.3	1384.1
203	2012	3253.1	296.3	2325.6
204	2013	1707.1	192.0	1165.9
205	2014	2104.1	65.4	1750.8
206	2015	2528.6	128.8	1936.9

97 rows × 4 columns

In [157]: data4=data3.drop(["YEAR"],axis=1)#drop column

In [158]: data4

Out[158]:

	ANNUAL RAIN	nem	swm
110	NaN	NaN	NaN
111	NaN	262.8	2772.8
112	4625.2	146.7	4121.3
113	4273.3	997.6	2888.0
114	3933.1	103.3	2649.2
202	1974.0	83.3	1384.1
203	3253.1	296.3	2325.6
204	1707.1	192.0	1165.9
205	2104.1	65.4	1750.8
206	2528.6	128.8	1936.9

97 rows × 3 columns

In [159]: cor_mat=data4.corr()#correlation
 cor_mat

Out[159]:

	ANNUAL RAIN	nem	swm
ANNUAL RAIN	1.000000	0.451615	0.970880
nem	0.451615	1.000000	0.320171
swm	0.970880	0.320171	1.000000

In [160]: import seaborn as reddy#correlation by using graph
reddy.heatmap(cor_mat,vmax=1,vmin=-1,annot=True,linewidth=.5,cmap='bwr')

Out[160]: <AxesSubplot:>

