SEMINARSKI RAD: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(Ime, prezime, br. Indexa)

Na osnovu podataka iz datih tabela nacrtati Valterov klima-dijagram

Prikazati iznad dijagrama podatke za: prosječnu godišnju temperaturu vazduha (**tg**); Prosječnu godišnju sumu padavina (**Rg**); srednju minimalnu temperaturu najhladnijeg mjeseca (**tn**) Na samom dijagramu označiti/šrafirati humidni (vlažni period) sa padavinama iznad 100mm, i aridni (sušni period).

Podgorica (49mnm)

200

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 100 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 40 |  |  |  |  |  |  |  |  |  |  |  |  | 80 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30 |  |  |  |  |  |  |  |  |  |  |  |  | 60 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 20 |  |  |  |  |  |  |  |  |  |  |  |  | 40 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 10 |  |  |  |  |  |  |  |  |  |  |  |  | 20 |
| 5 |  |  |  |  |  |  |  |  |  |  |  |  | 10 |
| T(°C) | Jan | Feb | Mar | Apr | Maj | Jun | Jul | Avg | Sep | Okt | Nov | Dec | P(mm) |

Tabela 1.Srednje mjesečne vrijednosti temperature vazduha (C), Met. st. Podgorica (1950-1984 god.)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | JAN | FEB | MAR | APR | MAJ | JUN | JUL | AVG | SEP | OKT | NOV | DEC |  |
| 1950 | 3.8 | 8.0 | 12.0 | 15.1 | 20.9 | 25.6 | 29.6 | 28.2 | 22.4 | 15.7 | 10.4 | 9.2 |  |
| 1951 | 7.0 | 9.4 | 10.6 | 14.1 | 19.1 | 24.3 | 27.0 | 27.3 | 23.3 | 14.7 | 12.0 | 7.0 |  |
| 1952 | 5.7 | 6.0 | 8.7 | 17.1 | 18.4 | 25.0 | 28.9 | 29.4 | 22.6 | 14.7 | 10.4 | 8.8 |  |
| 1953 | 5.7 | 6.1 | 9.1 | 15.0 | 18.4 | 23.1 | 27.4 | 26.4 | 21.9 | 17.1 | 9.8 | 5.4 |  |
| 1954 | 1.9 | 1.8 | 11.3 | 13.8 | 16.8 | 24.8 | 26.1 | 25.8 | 23.5 | 15.3 | 10.0 | 7.5 |  |
| 1955 | 8.4 | 8.8 | 9.4 | 12.3 | 20.1 | 23.6 | 24.9 | 23.6 | 20.3 | 15.6 | 10.2 | 8.5 |  |
| 1956 | 4.6 | 0.5 | 6.6 | 13.3 | 18.7 | 21.5 | 26.6 | 28.1 | 23.5 | 15.3 | 9.8 | 5.9 |  |
| 1957 | 4.6 | 8.7 | 10.6 | 15.0 | 17.2 | 25.3 | 26.8 | 25.7 | 20.9 | 16.4 | 11.1 | 6.4 |  |
| 1958 | 5.8 | 8.3 | 6.7 | 11.7 | 20.6 | 22.5 | 26.3 | 26.8 | 20.7 | 15.6 | 10.9 | 9.0 |  |
| 1959 | 4.0 | 5.5 | 12.2 | 13.9 | 18.1 | 21.1 | 25.8 | 23.9 | 19.2 | 14.2 | 10.4 | 9.2 |  |
| 1960 | 6.2 | 6.9 | 10.2 | 14.4 | 18.3 | 23.8 | 24.3 | 26.3 | 20.3 | 16.6 | 11.8 | 8.9 |  |
| 1961 | 5.6 | 7.2 | 11.9 | 16.1 | 17.5 | 23.0 | 25.6 | 26.7 | 23.3 | 17.3 | 11.8 | 7.2 |  |
| 1962 | 7.0 | 5.5 | 7.9 | 14.2 | 19.4 | 22.9 | 26.4 | 29.3 | 22.3 | 17.7 | 11.6 | 5.2 |  |
| 1963 | 3.1 | 5.3 | 8.2 | 15.5 | 19.7 | 23.3 | 27.0 | 26.5 | 22.5 | 16.0 | 13.0 | 7.6 |  |
| 1964 | 2.2 | 5.9 | 10.2 | 13.9 | 18.4 | 24.3 | 25.7 | 24.4 | 20.8 | 15.6 | 11.3 | 7.2 |  |
| 1965 | 5.4 | 2.1 | 10.4 | 12.2 | 18.0 | 22.9 | 26.7 | 24.5 | 21.1 | 16.7 | 11.1 | 7.9 |  |
| 1966 | 3.0 | 9.2 | 9.2 | 15.0 | 18.3 | 23.1 | 25.2 | 26.3 | 21.8 | 18.9 | 10.2 | 6.5 |  |
| 1967 | 3.5 | 5.8 | 10.5 | 13.1 | 19.4 | 22.0 | 26.6 | 27.1 | 21.2 | 17.5 | 11.5 | 5.9 |  |
| 1968 | 2.4 | 7.8 | 9.9 | 17.2 | 22.3 | 22.8 | 25.7 | 21.6 | 19.7 | 15.7 | 11.9 | 6.2 |  |
| 1969 | 4.3 | 6.6 | 9.5 | 13.4 | 21.2 | 20.9 | 24.8 | 24.9 | 21.6 | 16.9 | 11.9 | 5.6 |  |
| 1970 | 6.8 | 6.1 | 9.2 | 13.1 | 16.5 | 23.6 | 25.6 | 25.7 | 22.2 | 14.8 | 10.8 | 6.8 |  |
| 1971 | 7.4 | 7.1 | 6.6 | 14.5 | 21.0 | 22.9 | 25.9 | 27.6 | 19.0 | 14.2 | 10.1 | 6.5 |  |
| 1972 | 5.9 | 8.6 | 12.2 | 15.0 | 19.1 | 25.3 | 25.0 | 24.2 | 18.2 | 12.0 | 10.5 | 4.7 |  |
| 1973 | 5.7 | 6.7 | 9.0 | 11.9 | 20.0 | 23.2 | 25.8 | 26.0 | 22.9 | 16.4 | 9.0 | 5.7 |  |
| 1974 | 6.5 | 8.8 | 11.4 | 12.9 | 16.6 | 21.7 | 25.9 | 27.5 | 22.0 | 13.4 | 9.7 | 6.5 |  |
| 1975 | 5.1 | 6.0 | 10.3 | 14.0 | 19.6 | 22.5 | 25.9 | 24.9 | 23.0 | 15.7 | 9.4 | 6.4 |  |
| 1976 | 4.2 | 7.1 | 9.1 | 13.5 | 19.2 | 21.9 | 24.8 | 21.4 | 18.6 | 16.2 | 10.1 | 6.4 |  |
| 1977 | 6.2 | 9.7 | 11.7 | 13.7 | 19.0 | 22.6 | 26.0 | 24.6 | 20.7 | 15.1 | 11.2 | 5.3 |  |
| 1978 | 5.1 | 7.3 | 10.6 | 12.9 | 16.3 | 22.7 | 25.3 | 25.1 | 18.2 | 15.0 | 7.7 | 8.0 |  |
| 1979 | 4.4 | 8.2 | 11.1 | 12.3 | 20.1 | 24.5 | 24.7 | 23.5 | 20.3 | 15.6 | 11.4 | 8.3 |  |
| 1980 | 3.2 | 7.2 | 9.2 | 11.7 | 15.6 | 21.3 | 24.7 | 25.8 | 21.7 | 16.1 | 10.8 | 5.0 |  |
| 1981 | 3.4 | 6.3 | 12.0 | 14.4 | 18.3 | 24.4 | 24.9 | 25.7 | 20.6 | 16.4 | 7.9 | 7.0 |  |
| 1982 | 5.0 | 5.2 | 9.4 | 13.7 | 20.2 | 25 | 26.1 | 25.3 | 23.9 | 15.8 | 9.9 | 8.1 |  |
| 1983 | 6.1 | 4.7 | 10.4 | 14.6 | 19.6 | 21.7 | 26.9 | 24.7 | 20.9 | 15.5 | 8.7 | 7.0 |  |
| 1984 | 6.3 | 6.6 | 9.2 | 13.6 | 17.5 | 21.8 | 25.4 | 24.2 | 19.9 | 16.7 | 10.9 | 5.8 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Tabela 4. Srednje mjesečne vrijednosti padavina (mm), Met. st. Podgorica (1950-1984 god.)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | JAN | FEB | MAR | APR | MAJ | JUN | JUL | AVG | SEP | OKT | NOV | DEC |  |
| 1950 | 137.9 | 195.4 | 41.3 | 110.9 | 26.6 | 2.7 | 22.9 | 11.3 | 126.8 | 274 | 191.8 | 371.5 |  |
| 1951 | 101.2 | 236 | 205.1 | 121.5 | 173.8 | 30.5 | 19.6 | 42.7 | 150.6 | 120.8 | 192.6 | 107.3 |  |
| 1952 | 246 | 109 | 65.3 | 17.5 | 42.5 | 9.3 | 17.2 | 1.3 | 142.3 | 289.6 | 343.6 | 415.9 |  |
| 1953 | 70.6 | 207.7 | 3 | 109.4 | 70.6 | 119.8 | 32.5 | 90.8 | 81.9 | 24.8 | 2.6 | 55.9 |  |
| 1954 | 198.8 | 193.7 | 255.6 | 111.6 | 172.8 | 36.4 | 6.1 | 35.3 | 70.7 | 115.1 | 134.8 | 159.6 |  |
| 1955 | 257.1 | 325.9 | 114 | 17 | 12.2 | 41.5 | 100 | 100.3 | 288.5 | 414.2 | 232.1 | 201.9 |  |
| 1956 | 189.8 | 250.7 | 78 | 94.4 | 71.4 | 100.9 | 6.9 | 12.4 | 18.6 | 146.9 | 328.3 | 113.3 |  |
| 1957 | 150.8 | 184.6 | 19.2 | 66.1 | 188.4 | 17.3 | 64.7 | 70.5 | 131.8 | 257.9 | 163.4 | 286.9 |  |
| 1958 | 198.9 | 135.4 | 280.1 | 234.5 | 92.3 | 87 | 58.8 | 60.7 | 50.3 | 209.5 | 290.1 | 334.9 |  |
| 1959 | 233.5 | 63.9 | 81.6 | 62.6 | 179.7 | 146.8 | 42.9 | 197.7 | 72.7 | 64.7 | 141.3 | 326.5 |  |
| 1960 | 145.2 | 343.5 | 244.6 | 149.3 | 44.3 | 11.3 | 52.1 | 12.9 | 119.3 | 372 | 301.8 | 288.8 |  |
| 1961 | 155.2 | 63.8 | 37.6 | 124.9 | 123.6 | 103.2 | 38 | 56 | 2.7 | 188.9 | 299.3 | 131 |  |
| 1962 | 84.9 | 83.4 | 349.4 | 268 | 42.3 | 14 | 53.3 | 5.9 | 68.1 | 114.8 | 453.5 | 226.7 |  |
| 1963 | 330.4 | 333.5 | 114.4 | 47.7 | 92.6 | 109.5 | 68 | 112.9 | 64.7 | 43.6 | 183.4 | 360.9 |  |
| 1964 | 2.5 | 125.4 | 278.3 | 147.4 | 91.7 | 21.3 | 40.4 | 68.8 | 54.9 | 288.7 | 114.7 | 406.3 |  |
| 1965 | 157.7 | 97.6 | 157 | 258.1 | 50.4 | 58.7 | 66.3 | 47.2 | 74.8 | 0 | 309.6 | 231.2 |  |
| 1966 | 331.9 | 261.9 | 143.7 | 72.5 | 150 | 24.7 | 52.1 | 24.5 | 135.5 | 522.5 | 317.1 | 189.2 |  |
| 1967 | 262.4 | 33.4 | 101.6 | 191.3 | 51.5 | 115 | 77.2 | 15.7 | 207.6 | 57 | 189.5 | 242.3 |  |
| 1968 | 275.9 | 161 | 169 | 13.8 | 70.7 | 113.1 | 6.4 | 273.5 | 132.2 | 44.6 | 267.4 | 315.2 |  |
| 1969 | 150.8 | 350.8 | 167.1 | 153 | 137.9 | 125.7 | 14.2 | 116.3 | 136.7 | 0 | 238.3 | 380.4 |  |
| 1970 | 333.4 | 207.9 | 205.6 | 262.3 | 78.6 | 25 | 76.9 | 116.3 | 0 | 169.6 | 213.5 | 188 |  |
| 1971 | 339.3 | 113.1 | 176.8 | 135.4 | 42 | 41.1 | 38.3 | 26.4 | 215.2 | 75.5 | 244.8 | 96.7 |  |
| 1972 | 248.4 | 151.7 | 33.2 | 148.1 | 44.2 | 24.1 | 78.7 | 145.3 | 204.1 | 129.3 | 179.4 | 41.1 |  |
| 1973 | 205.1 | 228.6 | 75.2 | 128.2 | 27.5 | 22.7 | 100 | 29.5 | 210.5 | 153.6 | 214.7 | 229.5 |  |
| 1974 | 47 | 151.5 | 68 | 150.9 | 187.8 | 43.5 | 11.4 | 15.5 | 249 | 523.4 | 156.6 | 75.2 |  |
| 1975 | 41.3 | 33.7 | 143.1 | 93.4 | 61.1 | 43.6 | 23.8 | 54.5 | 117.7 | 244 | 169.1 | 67.9 |  |
| 1976 | 161.2 | 80.2 | 157.8 | 212.2 | 88.1 | 110 | 68.9 | 94.1 | 106.9 | 142.8 | 247.8 | 358.9 |  |
| 1977 | 234.2 | 204.8 | 153.6 | 143.3 | 61.9 | 8 | 36.6 | 78.6 | 126.7 | 96.2 | 235.6 | 228.3 |  |
| 1978 | 186.6 | 316.1 | 203.4 | 181.8 | 229.7 | 68.2 | 5.2 | 23.8 | 341.7 | 66.3 | 48.7 | 238.7 |  |
| 1979 | 341 | 226.8 | 155.9 | 306.8 | 21.3 | 119.2 | 61.7 | 185 | 42.8 | 258.2 | 411.6 | 187.2 |  |
| 1980 | 171.5 | 98.7 | 209.8 | 88.7 | 188.3 | 63.8 | 29.8 | 17.9 | 14.5 | 328.4 | 489 | 258.9 |  |
| 1981 | 156.6 | 138.5 | 219 | 104.7 | 102.3 | 56.6 | 16.4 | 33.2 | 201.8 | 307.3 | 44.6 | 309.7 |  |
| 1982 | 50.2 | 65.1 | 235.9 | 62.5 | 0.9 | 58 | 24 | 129.6 | 108.5 | 216.5 | 134.7 | 268.8 |  |
| 1983 | 42.3 | 153.9 | 83.7 | 81.9 | 77.1 | 62.9 | 27.6 | 35.5 | 74.6 | 46.9 | 149.6 | 182.1 |  |
| 1984 | 353 | 160.6 | 146.5 | 57.3 | 138.4 | 16.6 | 14 | 54.2 | 288.3 | 149.8 | 253.4 | 83 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |