Supplementary Table 2. Statistical characteristic of the annual and seasonal precipitation totals (in mm) in western part of Pamir-Alay averaged from 10 stations (Table 1) for the period 1930-1995

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Season | Annual | DJF | MAM | JJA | SON | pJun-Sep | pOct-Jun |
| Average | **451.7** | **119.7** | **215.8** | **50.0** | **66.9** | **511.0** | **424.7** |
| Max | 781.9 | 205.6 | 389.2 | 125.3 | 166.4 | 820.6 | 705.9 |
| Percentiles |  |  |  |  |  |  |  |
| p=99% | 717.3 | 188.8 | 383.2 | 122.1 | 154.2 | 757.9 | 658.7 |
| p=95% | 614.1 | 169.7 | 323.7 | 105.4 | 138.9 | 707.1 | 586.0 |
| p=90% | 567.6 | 164.2 | 305.8 | 88.8 | 117.5 | 673.7 | 545.7 |
| p=75% | 509.5 | 151.0 | 257.1 | 62.4 | 86.9 | 585.8 | 490.6 |
| **p=50%** | **469.2** | **119.9** | **214.1** | **46.7** | **58.5** | **512.3** | **434.5** |
| p=25% | 364.0 | 96.1 | 168.2 | 26.2 | 40.6 | 432.1 | 346.8 |
| p=10% | 313.0 | 68.7 | 124.7 | 21.7 | 29.2 | 352.5 | 287.1 |
| p=5% | 273.5 | 58.6 | 106.9 | 17.8 | 26.1 | 305.0 | 239.4 |
| p=1% | 228.8 | 40.8 | 87.2 | 11.8 | 12.1 | 275.5 | 206.6 |
| Min | 225.5 | 37.5 | 77.9 | 8.0 | 11.8 | 242.8 | 180.9 |