

A photograph of a greenhouse interior. In the foreground, there are long wooden trays filled with dark soil and small green seedlings. The trays are arranged in rows, receding into the distance. The greenhouse has a high, arched glass roof supported by a metal frame. The glass reflects the outside world, showing some trees and a bright sky. The overall atmosphere is bright and airy, typical of a controlled agricultural environment.

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Appendix Climatic Parameters in the HKH Region

Appendix I: Climatic Parameters in the HKH Region

Table 1: Monthly Rainfall Normals, mm (1901-1950)

| Station | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sept | Oct | Nov | Dec | YEAR |
|---|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|------|
| Kathmandu Nepal 1,324 m | 10 | 42 | 15 | 26 | 129 | 246 | 373 | 347 | 182 | 36 | 2 | 8 | 1416 |
| Shimla, Kumaon Himalaya 2,200 m | 65 | 70 | 64 | 46 | 60 | 149 | 416 | 419 | 182 | 33 | 10 | 2 | 1516 |
| Nainital Kumaon 1,953 m | 70 | 73 | 53 | 38 | 84 | 391 | 769 | 750 | 363 | 61 | 13 | 2 | 2667 |
| Prithoragarh Kumaon | 44 | 56 | 40 | 28 | 73 | 183 | 300 | 287 | 149 | 33 | 7 | 22 | 1222 |
| Pasighat/Tirap Frontier Tract, NE Assam | 55 | 97 | 138 | 273 | 466 | 967 | 975 | 622 | 585 | 261 | 33 | 24 | 4466 |
| Darjeeling 2,265 m | 11 | 32 | 54 | 113 | 231 | 597 | 792 | 643 | 446 | 142 | 25 | 6 | 3092 |
| Kyulong, N. Punjab Himalayas | 59 | 64 | 102 | 79 | 56 | 23 | 33 | 33 | 52 | 21 | 7 | 26 | 555 |
| Srinagar, Kashmir Himalayas | 70 | 74 | 94 | 90 | 60 | 34 | 56 | 63 | 40 | 28 | 13 | 37 | 659 |
| Kargil, Ladakh 2,658 m | 37 | 38 | 60 | 42 | 25 | 7 | 7 | 10 | 10 | 6 | 3 | 21 | 266 |
| Lhasa, Tibet 3,658 | 0.2 | 0.1 | 2 | 4 | 21 | 73 | 142 | 149 | 57 | 5 | 0.8 | 0.3 | 454 |
| Chamdo, Tibet 3,241 | 2 | 3 | 7 | 13 | 45 | 98 | 113 | 107 | 73 | 28 | 3 | 2 | 494 |
| Xigaze, Tibet 3,836 m | 0.6 | 0 | 0.9 | 2 | 9 | 66 | 144 | 154 | 58 | 4 | 0.2 | 0 | 439 |

Source: Domroes (1979, p53) and Domroes (1988, p149))

Table 3: Physical Properties of Common Building Materials

| Descriptions | Specific Heat J/kg °C | Density kg/m ³ | Heat Capacity Wh/m ³ °C | Conductivity W/m °C |
|--------------|--------------------------|---------------------------|---------------------------------------|------------------------|
| Water | 4186 | 1000 | 1163 | 0.55 |
| Steel | 502 | 7850 | 1093 | 45.30 |
| Marble | 879 | 2240 | 633 | 1.43 |
| Concrete | 840 | 2300 | 537 | .65 |
| Glass | 840 | 2600 | 607 | 1.15 |
| Brick | 920 | 1800 | 460 | 0.66 |
| Limestone | 908 | 1650 | 417 | 1.80 |
| Gypsum | 1100 | 600 | 183 | 0.16 |
| Sand | 840 | 1600 | 373 | 0.77 |
| Pine | 2700 | 600 | 450 | 0.13 |
| Fir | 2700 | 600 | 437 | 0.13 |
| Adobe | 1006 | 1110 | 280 | 0.48 |
| Air | 1000 | 1.25 | 0.347 | 0.14 |

Source: Erat (1985); Brad and Hastie (1985)

Index of Key Words
and Phrases