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| **CROP REQUIREMENTS** | | | | |
| **Crop** | **Temperature** | **Rainfall** | **Soil** | **Area & States** |
| **Rice**  (Kharif) | 15oC to 20oC during growing period  18oC to 32oC during ripening. Average 24 oC | 150 to 300 cm | Alluvial with subsoil of clay | Northern plains, eastern coastal plains.  W.B, U.P, A.P, Punjab, Bihar, Jharkhand, T.N |
| **Wheat**  (Rabi) | Growing 10oC to 15oC  Ripening 25oC to 28oC | 50 to 100 cm | Well drained heavy textured soils, especially alluvial and black soils. | U.P, Punjab, Haryana, Mp, Bihar |
| **Millets(Jowar, Bajra & Ragi)**  Kharif & Rabi) | 27oC to 32oC | 50 to 120 cm  Known as dry crops because they do not require much rain. | Can be grown in less fertile soils but loamy, sandy and clayey deep regur and alluvium are best. | Jowar & Bajra: Maharashtra, Karnataka, A.P, M.P  Ragi: Karnataka, T.N, A.P |
| **Pulses**  (Kharif in North Rabi in South) | 20oC to 30oC | 50 to 75 cm | Dry light soil |  |
| **Tea** | 18oC to 30oC but 25o is ideal | 150 to 200 cm | Light loams rich in iron content; porous sub-soils so that water percolates; stagnation of water near roots is harmful. | Brahmaputra valley in Assam, Darjeeling in W.B, Nilgiri hills in T.N, Kerala, Karnataka. |
| **Coffee** | 18oC to 28oC  Sensitive to cold and frost | 125 to 250 cm well distributed throughout the year. | Loamy soil with humus content; well drained hill slopes between 450m to 1800 m altitude are suitable. | Karnataka, Tamil Nadu, Kerala. |
| **Rubber** | 21oC to 35oC, Average 25oC | 175 to 300 cm | Rich well drained alluvial soil or laterite soil. | Kerala, T.N, Karnataka |
| **Sugar Cane**  (Kharif) | 20oC to 30oC | 100 -150 cm | Well drained rich alluvial, heavy loam or lava soil | U.P, Maharashtra, T.N, Karnataka, A.P,Gujrat |
| **Cotton**(Kharif) | 21oC to 32oC | 50 -120 cm | Light well drained alluvial soil, deep black soil | Gujrat, Maharashtra, Punjab, Andhra Pradesh |
| **Jute**  (Kharif) | 24oC to 35oC | 150-250 cm | Alluvial soil found in the flood plains and deltas of rivers. | West Bengal, Bihar, Orissa, Assam |
| **Rapeseed & Mustard**  (Rabi) | 10oC to 20oC | 25 -40 cm | Alluvial soil | U.P, Uttarakhand, Haryana, Rajasthan |
| **Linseed**  (Rabi) | 15oC to 25oC | 45 -75 cm | Alluvial soil, Clayey loamy soils and deep black soil | M.P, U.P, Maharashtra, Bihar, Rajasthan, W.B |
| **Groundnut**  (Kharif) | 20oC to 25oC | 40 -75 cm | Dry Sandy loams, well drained black soil | Gujarat, Andhra Pradesh, T.N |
| **Sesamum**  (Kharif & Rabi) | 21oC to 28oC | 40 -50 cm | Light sandy soil or black soil | Gujrat, A.P, T.N, Karnataka |
| **Sunflower**  (Kharif) | 21oC to 32oC  Average 25 oC | 50 -100 cm | Variety of soils(well drained loamy soil gives better yield) | A.P, Karnataka, T.N |
| **Castor seed**  (Kharif & Rabi) | 20oC to 30oC | 50 -75 cm | Red sandy loams of peninsula and light alluvial soil in great plains | A.P, Gujarat, Orissa, Karnataka, T.N |
| **Soyabean**  (Kharif & Rabi) | 13oC to 24oC | 50 -100 cm | Any type of soil | M.P, Rajasthan, Maharashtra |
| Mr. Thomas.K.J  (HAS, Sahibabad) | | | | |