

synthetic\_data\_final

| Crop                  | Temperature range | Ph range  | Rainfall (cm) | Sowing Temperature | Harvesting Temperature | Phosphorus | Nitrogen | Potassium | Season |
|-----------------------|-------------------|-----------|---------------|--------------------|------------------------|------------|----------|-----------|--------|
| Maize(Kharif)         | 25 - 30 C         | 5.5 - 7.5 | 60 - 110 cm   | 25 - 30 C          | 30 - 35 C              | 12-24      | 35-50    | 8-12      | kharif |
| Maize(Rabi)           | 21 - 27 C         | 5.5 - 7.5 | 60 - 300 cm   | 21 - 27 C          | 25 - 30 C              | 70         | 24       | 12        | rabi   |
| Moong(Green Gram)     | 25 - 35 C         | 6.2 - 7.2 | 60 - 90 cm    | 25 - 30 C          | 30 - 35 C              | 16         | 5        | 0         | kharif |
|                       | 15 - 30 C         | 6.5 - 7.8 | 50 - 75cm     | 21 - 27 C          | 18 - 25 C              | 5          | 10       | 0         | kharif |
| Groundnut             | 20 - 30 C         | 6.5 - 7.0 | 50 - 75 cm    | 25 - 35 C          | 18 - 25 C              | 6          | 8        | 10        | kharif |
| Sugarcane             | 20 - 30 C         | 5.0 - 8.5 | 75 - 150 cm   | 20 - 25 C          | 20 - 30 C              | 90         | 0        | 0         | rabi   |
| Wheat                 | 21 - 26 C         | 6.0 - 7.0 | 25 - 75 cm    | 18 - 22 C          | 20 - 25 C              | 50         | 25       | 12        | rabi   |
| Rapeseed &Mustard     | 22 - 25 C         | 6.0 - 7.5 | 25 - 40 cm    | 20 - 22 C          | 28 - 30 C              | 25         | 8        | 0         | rabi   |
| Arhar/Tur             | 30 - 35 C         | 6.5 - 7.5 | 60 - 65 cm    | 25 - 33 C          | 35 - 40 C              | 16         | 6        | 12        | kharif |
| Gram                  | 24 - 30 C         | 5.5 - 7.0 | 60 - 90 cm    | 24 - 28 C          | 30 - 32 C              | 50         | 20       | 0         | kharif |
| Jowar                 | 25 - 32 C         | 6.0 - 7.5 | 30 - 65 cm    | 25 - 30 C          | 16 - 18 C              | 8          | 20       | 10        | rabi   |
| Onion                 | 21 - 26 C         | 6.0 - 7.0 | 65 - 75 cm    | 18 - 20 C          | 25 - 30 C              | 40         | 20       | 20        | kharif |
| Potato                | 14 - 25 C         | 5.0 - 7.0 | 30 - 50 cm    | 15 - 25 C          | 14 - 20 C              | 75         | 25       | 25        | rabi   |
| Chillies              | 18 - 40 C         | 6.0 - 7.0 | 63 - 150 cm   | 35 - 40 C          | 35 - 40 C              | 12         | 25       | 12        | rabi   |
| Sunflower             | 20 - 25 C         | 6.5 - 8.0 | 50 - 70 cm    | 20 - 25 C          | 35 - 37 C              | 24         | 12       | 0         | kharif |
| Bajra                 | 15 - 20 C         | 5.8 - 6.5 | 40 - 60 cm    | 30 - 32 C          | 20 - 25 C              | 40         | 30       | 0         | kharif |
| Peas & beans (Pulses) | 15 - 25 C         | 6.0 - 6.8 | 60 - 150 cm   | 22 - 25 C          | 28 - 30 C              | 25         | 40       | 0         | rabi   |
| Cotton(lint)          | 15 - 35 C         | 6.0 - 8.0 | 55 - 100 cm   | 25 - 35 C          | 15 - 25 C              | 30         | 12       | 0         | kharif |
| Barley                | 12- 25 C          | 6.0 - 8.5 | 80 - 110cm    | 12 - 16 C          | 30 - 32 C              | 12         | 25       | 6         | rabi   |
| Coriander             | 15 - 28 C         | 8.0 - 10  | 7.5 - 10 cm   | 22 - 28 C          | 15 - 25 C              | 40         | 0        | 0         | rabi   |
| Cowpea(lobia)         | 22 - 35 C         | 5.5 - 6.5 | 75 - 110 cm   | 22 - 28 C          | 30 - 35 C              | 22         | 7.5      | 0         | kharif |
| Garlic                | 10 - 30 C         | 6.0 - 7.0 | 60 - 70 cm    | 25 - 30 C          | 10 - 15 C              | 50         | 25       | 0         | rabi   |
| Linseed               | 21 - 26 C         | 5.0 - 7.0 | 45 - 75 cm    | 20 - 21 C          | 30 - 31 C              | 25         | 16       | 0         | rabi   |
| Masoor                | 18 - 24 C         | 6.5 - 7.5 | 90 - 100 cm   | 18 - 20 C          | 22 - 24 C              | 8          | 5        | 0         | rabi   |
| Ragi                  | 20 - 34 C         | 4.5 - 8.0 | 90 - 110cm    | 30 - 34 C          | 20 - 30 C              | 12         | 25       | 12        | kharif |
| Safflower             | 24 - 32 C         | 6.0 - 7.0 | 60 - 90 cm    | 15 - 18 C          | 32 - 35 C              | 0          | 16       | 0         | rabi   |
| Turmeric              | 24 - 28 C         | 4.5 - 7.5 | 150 - 300 cm  | 25 - 34 C          | 20 - 22 C              | 10         | 10       | 10        | Kharif |
| Ginger                | 12 - 35 C         | 6.0 - 6.5 | 130 - 160 cm  | 30 - 35 C          | 25 - 33 C              | 25         | 10       | 10        | kharif |
| Rice                  | 16 - 30 C         | 5.0 - 9.5 | 10 - 20 cm    | 20 - 30 C          | 16 - 27 C              | 50         | 12       | 12        | kharif |