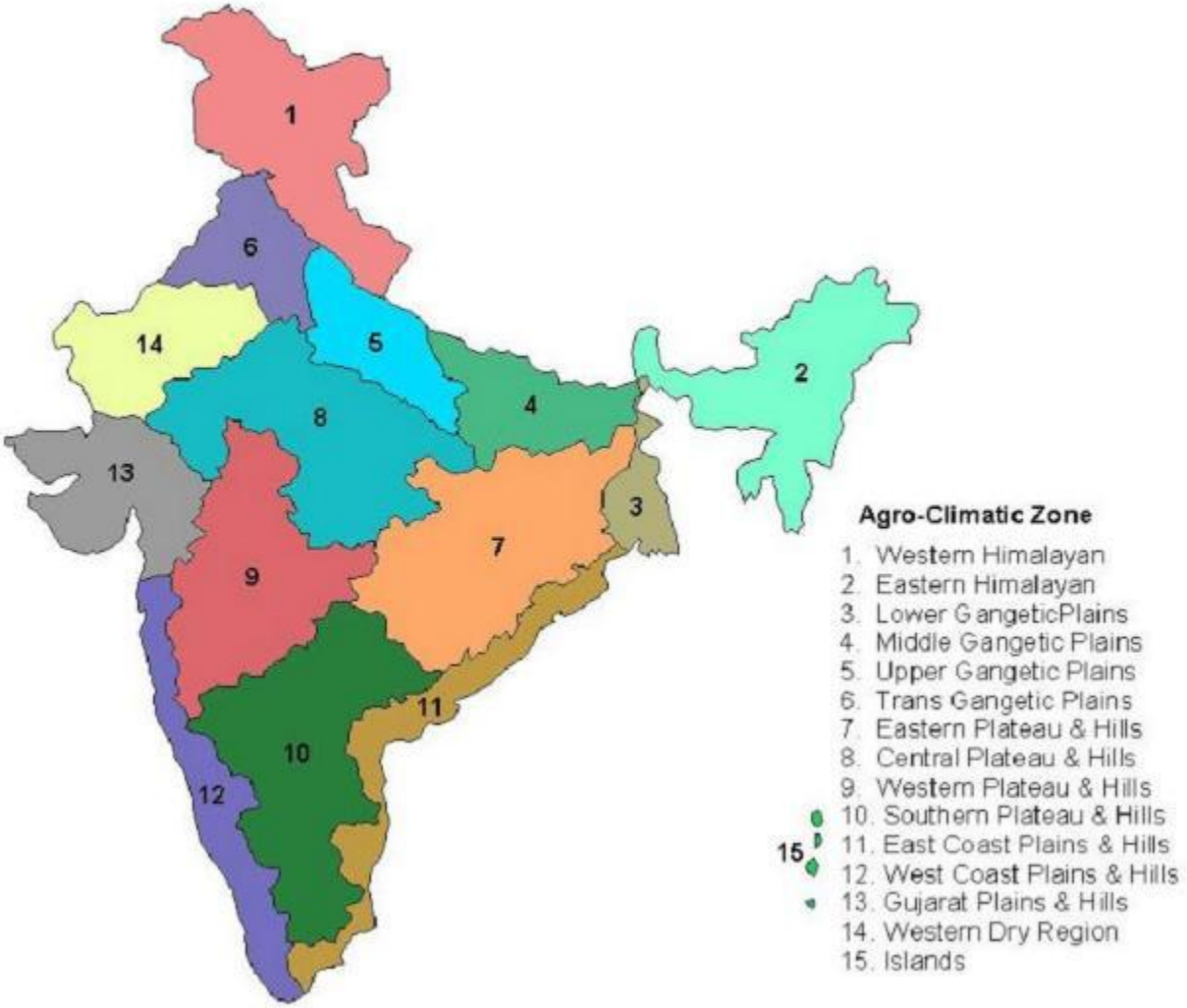
# Agro-climatic zones of India

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**Classification of Agro-ecological zones:**

The Agricultural regions, Forest Regions and the Livestock rearing zones are fully controlled by a set of inter-related geographic factors. They are:

a) Climatic factors
b) Soil properties and
c) Physiographic settings( topography & drainage).

Based on these three major parameters , the land area of India is classified into several classes of regions and sub-regions. The Length of Growing Period (LGP) of crops vary depending upon these factors and also the genetic characteristics of crops grown. LGP is related to the moisture availability to the crops grown which is controlled by those three major factors of agriculture.

Agro-ecological zone is a land unit, carved out of climatic zone, correlated with landforms, climate and the length of growing period (LGP). LGP refers to the number of days available for crop growth with suitable conditions.

Agro-Ecological zoning is the process of correlating the units of physiography, bioclimate, soilscapes and the length of growing period. Each one of these aspects have a very wide number of classess and subdivisions.

As we have seen that the Indian sub-continent exhibits a variety of landscapes and climatic conditions which are noticeable in the types of soils and vegetation.

In the past, several attempts have been made to understand and classify the agro-climatic regions as well as the agro-ecological regions of India.

The Planning Commission of India, divided the country into 15 broad agro-climatic zones based on physiography and climate. This we have seen as the first part of this lesson.

Based on the four parameters which have been explained so far,
a) physiographic features,
b) Soil characteristics,
c) Bio-climatic features,
d) the Length of growing period, the land area of India is divided into 20 agro-ecological regions.

They are the following:

1. Cold Arid Eco-region with Shallow Skeletal Soils
2. Hot Arid Eco-region with Desert and Saline Soils
3. Hot Arid Eco-region with Red and Black Soils
4. Hot Semi-Arid Eco-region with Alluvium Derived soils
5. Hot Semi Arid Eco-region with Medium and Deep Black Soils
6. Hot Semi-Arid Eco-region with Shallow and Medium (Dominant) Black Soils
7. Hot Semi Arid Eco-region with Red and Bla6k soils
8. Hot Semi-Arid Eco-region with Red Loamy soils
9. Hot subbumid (Dry) Eco-region with Alluvium- Derived Soils
10. Hot Subhumid Eco-region with Red and Black Soils
11. Hot Subhumid Eco-region with Red and Yellow Soils
12. Hot Subhumid Eco-region with Red and Lateritic soils

13. Hot Suhhumid (Moist) Eco-region with Alluvium-derived soils
14. Warm Subhumid to Humid with Inclusion of Perhumid Eco-region with Brown Forest and Podzolic Soils
15. Hot Subhumid (moist) to Humid (inclusion) of perhumid Eco-region with alluvium-derived soils
16. Warm Perhumid Eco-region with Brown and Red Hill Soils
17. Warm Perhumid Eco-region with Red and Lateritc Soils
18. Hot Subhumid to Semi-arid Eco-region with Coastal Alluvium-derived soils
19. Hot Humid Pemhumid Eco-region with Red, Lateritic and Alluvium-derived soils
20. Hot Humid/Perhumid Island Eco-region with Red loamy and Sandy Soils .

**Agro-ecological zones, their soil resource and cropping systems**

| **1. Western Himalayas, cold arid eco-region** | |
|---|---|
| REGION 1.1 | |
| Area | Eastern aspect of Ladakh Plateau |
| Subregion | cold, hyper-arid eco-subregion |
| Soils | shallow skeletal soils |
| Available water Capacity (AWC) | Very Low |
| Length of Growing Period(LGP) | <60 days |
| Standard Code | A13Eh1 |

| **REGION 1.2** | |
|---|---|
| Area | 1.2 Western Aspect of Ladakh Plateau and north Kashmir Himalayas |
| Subregion | cold to cool typic-arid |
| Soils | shallow, loamy skeletal soils |
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | 60-90 days |
| Standard Code | A13Et2 |

| **2. Western Plain, Kachchh and part of Kathiawar Peninsula, hot arid eco-region (M9E1)** | |
|---|---|
| **REGION 2.1** | |
| Area | Marusthali |
| Subregion | hot, hyper arid |
| Soils | hallow and deep sandy desert soils |
| Available water Capacity (AWC) | very low |
| Length of Growing Period(LGP) | < 60 days |
| Standard Code | M9Eh1 |

| **REGION 2.2** | |
|---|---|
| Area | Kachchh Peninsula (Great Rann of Kutch as inclusion), |
| Subregion | hot<br>hyper-arid |
| Soils | deep loamy saline and alkali soils |

| | |
|---|---|
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | <60 days |
| Standard Code | L12Eh1 |

| **REGION 2.3** | |
|---|---|
| Area | Rajasthan Bagar, North Gujarat Plain and South-Western Punjab Plain |
| Subregion | hot typic- arid |
| Soils | deep, loamy desert soils (inclusion of saline phase), |
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | 60-90 days |
| Standard Code | M9Et2 |

| **REGION 2.4** | |
|---|---|
| Area | South Kachchh and North Kathiawar Peninsula |
| Subregion | hot arid |
| Soils | with deep loamy saline and alkali soils |
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | 60-90 days |
| Standard Code | L12Et2 |

| **3 Deccan plateau, hot arid eco-subregion (K6E2)** | |
|---|---|
| **REGION 3.0** | |
| Area | Karnataka Plateau (Rayalseema as inclusion) |
| Subregion | hot arid |
| Soils | with deep loamy and clayey mixed Red and Black soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 60-90 days |
| Standard Code | K6Et2 |

| **4. Northern Plain (and Central Highlands) including Aravallis, hot semi-arid ecoregion (N8D2)** | |
|---|---|
| **REGION 4.1** | |
| Area | 4.1 North Punjab Plain, Ganga-Yamuna Doab and Rajasthan Upland, |
| Subregion | hot semi-arid |
| Soils | deep loamy alluvium-derived soils (occasional saline and sodic phases), |
| Available water Capacity (AWC) | Medium |
| Length of Growing Period(LGP) | 90-120 |
| Standard Code | N8Dd3 |

| **REGION 4.2** | |
|---|---|
| Area | North Gujarat Plain (inclusion of Aravalli range and east Rajasthan Uplands), |
| Subregion | hot dry semiarid |
| Soils | deep loamy Gray Brown and alluvium-derived soils, |
| Available water Capacity (AWC) | Medium |
| Length of Growing Period(LGP) | 90-120 days |
| Standard Code | P14Dd3 |

| **REGION 4.3** | |
|---|---|
| Area | 4.3 Ganga Yamuna Doab, Rohilkhand and Avadah Plain |
| Subregion | hot moist semi-arid |
| Soils | deep, loamy alluvium-derived soils (sodic phase inclusion), |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | N8Dm4 |

| **REGION 4.4** | |
|---|---|
| Area | Madhya Bharat Plateau and Bundelkhand Uplands |
| Subregion | hot, moist semi-arid |
| Soils | Deep loamy and clayey mixed Red and Black soils, |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 90-120 days |
| Standard Code | N6Dm4 |

| **5 Central (Malwa) Highlands, Gujarat plains and Kathiawar Peninsula Ecoregion (I5 D2)** | |
|---|---|
| **REGION-5.1** | |
| Area | Central Kathiawar Peninsula, |
| Subregion | hot, dry semiarid |
| Soils | shallow and medium loamy to clayey black soils (deep black soils as inclusion |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | L4Dd3 |
| **REGION-5.2** | |
| Area | Madhya Bharat Plateau Western Malwa Plateau, Eastern Gujarat Plain, Vindhyan and Satpura range and Narmada Valley |
| Subregion | hot moist semi-arid |
| Soils | medium and deep, clayey Black soils (shallow black soils as inclusions) |
| Available water Capacity (AWC) | medium to high |

| | |
|---|---|
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | I5Dm4 |

| **REGION-5.3** | |
|---|---|
| Area | Coastal Kathiawar Peninsula |
| Subregion | hot moist semi-arid |
| Soils | deep loamy coastal alluvium-derived soils (saline/phases inclusion) |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | L7Dm4 |

| **6. Deccan Plateau, hot semi-arid eco-region (K4D2)** | |
|---|---|
| **REGION-6.1** | |
| Area | South Western Maharashtra and North Karnataka Plateau |
| Subregion | hot dry semi-arid |
| Soils | shallow and medium loamy Black soils (deep clayey Black soils as inclusion) |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 90-120 days |
| Standard Code | K4Dd3 |

| **REGION-6.2** | |
|---|---|
| Area | Central and Western Maharashtra Plateau and North Karnataka Plateau and North Western Telangana Plateau |
| Subregion | hot moist semi-arid |
| Soils | shallow and medium loamy to clayey Black soils (medium land deep clayey Black soils as inclusion) |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | K4Dm4 |
| **REGION-6.3** | |
| Area | Eastern Maharashtra Plateau |
| Subregion | hot moist semi-arid |
| Soils | medium land deep clayey Black soils (shallow loamy to clayey Black soils as inclusion) |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | K5Dm4 |

| **REGION-6.4** | |
|---|---|
| Area | North Sahyadris and Western Karnataka Plateau |
| Subregion | hot dry subhumid |
| Soils | - |
| Available water Capacity (AWC) | - |
| Length of Growing Period(LGP) | - |

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|---|---|
| Standard Code | K4Cd5 |

| **7. Deccan Plateau (Telangana) and Eastern Ghats, hot semiarid ecoregion (K6D2)** | |
|---|---|
| **REGION-7.1** | |
| Area | South Telangana Plateau (Rayalseema) and Eastern Ghat |
| Subregion | hot dry semi-arid |
| Soils | Deep loamy to clayey mixed Red and Black soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 90-120 days |
| Standard Code | K6Dd3 |

| **REGION-7.2** | |
|---|---|
| Area | North Telangana Plateau |
| Subregion | hot moist semi-arid |
| Soils | Deep loamy and clayey mixed Red and Black soils |
| Available water Capacity (AWC) | medium to very high |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | K6Dm4 |

| **REGION-7.3** | |
|---|---|
| Area | Eastern Ghat (South) |
| Subregion | hot moist semi-arid/dry subhumid |
| Soils | medium to deep, loamy to clayey mixed Red and Black soils, |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | H6Dm/Cd5 |

| **8. Eastern Ghats and Tamil Nadu Uplands and Deccan (Karnataka) Plateau, hot semiarid eco-region (H1D2)** | |
|---|---|
| **REGION-8.1** | |
| Area | Tamil Nadu Uplands and Leeward Flanks of South Sahyadris |
| Subregion | hot dry semi-arid |
| Soils | moderately deep to deep, loamy to clayey, mixed Red and Black soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 90-120 days |
| Standard Code | H6Dd3 |

| **REGION-8.2** | |
|---|---|
| Area | Central Karnataka Plateau |

| | |
|---|---|
| Subregion | hot moist semi-arid |
| Soils | medium to deep Red loamy soils |
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | K1Dm4 |

| **REGION-8.3** | |
|---|---|
| Area | Tamil Nadu Uplands and Plains |
| Subregion | hot moist semi-arid |
| Soils | deep red loamy soils |
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | H1Dm4 |

| **9. Northern Plain, hot subhumid (dry) eco-region (N8C3)** | |
|---|---|
| **REGION-9.1** | |
| Area | Punjab and Rohilkhand Plains |
| Subregion | hot dry/moist subhumid transitional |
| Soils | deep, loamy to clayey alluvium-derived (inclusion of saline and sodic phases) soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | N8Cm/Cd4 |

| **REGION-9.2** | |
|---|---|
| Area | Rohilkhand, Avadh and south Bihar Plains |
| Subregion | hot dry subhumid |
| Soils | deep loamy alluvium-derived soils |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | N8Cd5 |

| **10. Central Highlands (Malwa and Bundelkhand), hot subhumid (dry) eco-region (I6C3(4)** | |
|---|---|
| **REGION-10.1** | |
| Area | Malwa Plateau, Vindhyan Scarpland and Narmada Valley |
| Subregion | Hot dry subhumid |
| Soils | medium and deep clayey Black soils (shallow loamy Black soils as inclusion) |
| Available water Capacity (AWC) | high |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | 15Cd5 |

| **REGION-10.2** |
|---|

| | |
|---|---|
| Area | Satpura and Eastern Maharashtra Plateau |
| Subregion | hot dry subhumid |
| Soils | shallow and medium loamy to clayey Black soils (deep clayey Black soils as inclusion) |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | K4Cd5 |

| **REGION-10.3** | |
|---|---|
| Area | Vindhyan Scarpland and Bundelkhand Plateau |
| Subregion | hot dry subhumid |
| Soils | deep loamy to clayey mixed Red and Black soils |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | I6Cd5 |

| **REGION-10.4** | |
|---|---|
| Area | Satpura range and Wainganga Valley |
| Subregion | hot moist subhumid |
| Soils | shallow to deep loamy to clayey mixed Red and Black soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 180-210 days |
| Standard Code | K6Cm6 |

| **11. Chattisgarh/Mahanadi Basin Agro-eco-region (J3 C3)** | |
|---|---|
| **REGION-11.0** | |
| Area | Moderately to gently sloping Chattisgarh/Mahanadi Basin |
| Subregion | Hot moist/dry subhumid transitional |
| Soils | deep loamy lto clayey Red and Yellow soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | J3Cd/Cm5 |

| **12. Eastern Plateau (Chhotanagpur) and Eastern Ghats, hot subhumid eco-region (J23C3(4)** | |
|---|---|
| **REGION-12.1** | |
| Area | Garjat Hills, Dandakaranya and Eastern Ghats |
| Subregion | hot moist subhumid |
| Soils | deep loamy Red and Lateritic soils |
| Available water Capacity (AWC) | Low to medium |
| Length of Growing Period(LGP) | 180-210 days |
| Standard Code | J2Cm6 |

| REGION-12.2 | |
|---|---|
| Area | Eastern Ghats |
| Subregion | hot moist subhumid |
| Soils | medium to deep loamy Red and Lateritic soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 180-210 days |
| Standard Code | H2Cm6 |

| REGION-12.3 | |
|---|---|
| Area | Chhotanagpur Plateau and Garjat Hills |
| Subregion | hot, dry subhumid |
| Soils | moderately deep to deep loamy to clayey Red and Lateritic soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | J2Cd5 |

| 13. Eastern Plain, hot subhumid (moist) ecoregion (08C4) | |
|---|---|
| **REGION-13.1** | |
| Area | North Bihar and Avadh Plains |
| Subregion | hot dry to moist subhumid transitional |
| Soils | deep, loamy alluvium-derived soils |
| Available water Capacity (AWC) | Low to medium |
| Length of Growing Period(LGP) | 180-210 days |
| Standard Code | O8Cd/Cm6 |

| REGION-13.2 | |
|---|---|
| Area | Foothills of Central Himalayas |
| Subregion | warm to hot moist subhumid |
| Soils | deep loamy to clayey Tarai soils |
| Available water Capacity (AWC) | high |
| Length of Growing Period(LGP) | 180-210 days |
| Standard Code | B10Cm6 |

| 14. Western Himalayas, warm subhumid (to humid with inclusion of perhumid) ecoregion [A15C(BA)4(5)] | |
|---|---|
| **REGION-14.1** | |
| Area | South Kashmir and Punjab Himalayas |
| Subregion | cold and warm by dry semi-arid/dry subhumid |
| Soils | shallow to medium deep loamy Brown Forest and |

| | |
|---|---|
| | Podzolic soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 90-120 days |
| Standard Code | A15Dd/Cd3 |

| **REGION-14.2** | |
|---|---|
| Area | South Kashmir and Kumaun Himalayas |
| Subregion | warm moist to dry subhumid transitional |
| Soils | medium to deep loamy to<br>clayey Brown Forest and Podzolic soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 150-210 days |
| Standard Code | A15Cd/Cm6 |

| **REGION-14.3** | |
|---|---|
| Area | Punjab Himalayas |
| Subregion | warm humid to perhumid transitional |
| Soils | shallow to medium deep loamy brown forest and podzolic<br>soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 270-300+ days |
| Standard Code | A15BA9 |

| **REGION-14.4** | |
|---|---|
| Area | Kumaun Himalayas |
| Subregion | warm humid to perhumid transitional |
| Soils | shallow to medium deep loamy Red and Yellow soils |
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | 270-300+ days |
| Standard Code | A3B/A9 |

| **REGION-14.5** | |
|---|---|
| Area | Foothills of Kumaun Himalayas (Subdued) |
| Subregion | warm moist subhumid |
| Soils | medium to deep, loamy arai soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 270-300 days |
| Standard Code | A10A9 |

| **15. Assam and Bengal Plain, hot subhumid to humid (inclusion of perhumid) eco-region (Q8C(BA)5).** | |
|---|---|
| **REGION-15.1** | |
| Area | Bengal basin and North Bihar Plain |

| | |
|---|---|
| Subregion | hot moist subhumid |
| Soils | deep loamy to clayey alluvium-derived soils |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 210-240 days |
| Standard Code | 08Cm7 |

| **REGION-15.2** | |
|---|---|
| Area | Middle Brahmaputra Plain |
| Subregion | hot humid |
| Soils | deep, loamy to clayey alluvium-derived soil |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 240- 270 days |
| Standard Code | Q8B8 |

| **REGION-15.3** | |
|---|---|
| Area | Teesta, lower Brahmaputra Plain and Barak Valley |
| Subregion | hot moist humid to perhumid |
| Soils | deep, loamy to clayey alluviumderived soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 270-300 days |
| Standard Code | Q8A9 |

| **REGION-15.4** | |
|---|---|
| Area | Upper Brahmaputra Plain |
| Subregion | warm to hot perhumid |
| Soils | moderately deep to deep loamy, alluvium-derived soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 300 days |
| Standard Code | Q8A10 |

| **16. Eastern Himalayas, warm perhumid eco-region (C11A5)** | |
|---|---|
| **REGION-16.1** | |
| Area | Foot-hills of Eastern Himalayas (Bhutan foot-hills) |
| Subregion | warm to hot perhumid |
| Soils | shallow to medium, loamy-skeletal to loamy Tarai soils, |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 270-300 days |
| Standard Code | C10A9 |

| **REGION-16.2** | |
|---|---|
| Area | Darjeeling and Sikkim Himalayas |
| Subregion | warm perhumid |
| Soils | shallow to medium deep loamy Brown and Red Hill soils |
| Available water Capacity (AWC) | Low to medium |

| | |
|---|---|
| Length of Growing Period(LGP) | 300 days |
| Standard Code | C11A10 |

| **REGION-16.3** | |
|---|---|
| Area | Arunachal Pradesh (Subdued Eastern Himalayas) |
| Subregion | warm to hot perhumid |
| Soils | deep, loamy to clayey Red Loamy soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 300 days |
| Standard Code | C1A10 |

| **17. North-eastern Hills (Purvachal), warm perhumid ecoregion (D2A5).** | |
|---|---|
| **REGION-17.1** | |
| Area | Meghalaya Plateau land Nagaland Hill |
| Subregion | warm to hot moist humid to perhumid |
| Soils | medium to deep loamy to clayey Red and Lateritic soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 270-300+ days |
| Standard Code | D2A9 |

| **REGION-17.2** | |
|---|---|
| Area | Purvachal (Eastern Range) |
| Subregion | warm to hot perhumid |
| Soils | medium to deep loamy Red and Yellow soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 300 days |
| Standard Code | D3A10 |

| **18. Eastern Coastal Plain, hot subhumid to semiarid ecoregion (S7Cd2-5)** | |
|---|---|
| **REGION-18.1** | |
| Area | South Tamil Nadu Plains (Coastal) |
| Subregion | hot dry semi-arid |
| Soils | deep, loamy to clayey, alkaline Coastal and deltaic alluvium-derived soil |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 90-120 days |
| Standard Code | S7Dd3 |

| **REGION-18.2** | |
|---|---|
| Area | North Tamil Nadu Plains (Coastal) |
| Subregion | hot moist semi-arid |

| | |
|---|---|
| Soils | deep, clayey and cracking Coastal land Deltaic alluvium derived soils |
| Available water Capacity (AWC) | high |
| Length of Growing Period(LGP) | 120-150 days |
| Standard Code | S7Dm4 |

| **REGION-18.3** | |
|---|---|
| Area | Andhra Plain |
| Subregion | hot dry subhumid |
| Soils | deep, clayey Coastal and Deltaic alluvium-derived soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 150-180 days |
| Standard Code | S7Cd5 |

| **REGION-18.4** | |
|---|---|
| Area | Utkal Plain and East Godavari Delta |
| Subregion | hot dry subhumid |
| Soils | deep, loamy to clayey Coastal and deltaic alluvium derived soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 180-210 days |
| Standard Code | S7Cd6 |

| **REGION-18.5** | |
|---|---|
| Area | Gangetic Delta |
| Subregion | hot moist subhumid to humid |
| Soils | deep, loamy to clayey Coastal and deltaic alluvium-derived soils |
| Available water Capacity (AWC) | medium |
| Length of Growing Period(LGP) | 240-270 days |
| Standard Code | S7Cm7 |

| **19. Western Ghats and Coastal Plain, hot humid-perhumid eco-region (E2BA5)** | |
|---|---|
| **REGION-19.1** | |
| Area | North Sahyadris and Konkan Coast |
| Subregion | hot humid |
| Soils | medium to deep loamy to clayey mixed Red and Black soils |
| Available water Capacity (AWC) | medium to high |
| Length of Growing Period(LGP) | 210-240 days |
| Standard Code | E6B8 |

| **REGION-19.2** | |
|---|---|
| Area | Central and South Sahyadris |

| | |
|---|---|
| Subregion | hot moist subhumid to humid transitional |
| Soils | deep, loamy to clayey Red and Lateritic soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 210-270 days |
| Standard Code | E2Cm/B7(9 |

| **REGION-19.3** | |
|---|---|
| Area | Konkan, Karnataka and Kerala Coastal plain |
| Subregion | hot humid to per humid transitional |
| Soils | deep, clayey to loamy acidic coastal alluvium-derived soils |
| Available water Capacity (AWC) | low |
| Length of Growing Period(LGP) | 240-270 days |
| Standard Code | (R7A(B8(7). |

| **20. Islands of Andaman-Nicobar and Lakshadweep, hot humid to perhumid island ecoregion (T1A(B)5/T1B(A)5)** | |
|---|---|
| **REGION-20.1** | |
| Area | Andaman and Nicobar group of Islands |
| Subregion | hot perhumid |
| Soils | shallow to medium deep, loamy to clayey Red and Yellow and Red Loamy soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 300 days |
| Standard Code | T3A10 |

| **REGION-20.2** | |
|---|---|
| Area | Level Lakshadweep and group of Island |
| Subregion | hot humid |
| Soils | shallow to medium deep loamy to sandy Black, sandy and Littoral soils |
| Available water Capacity (AWC) | low to medium |
| Length of Growing Period(LGP) | 240-270 days |
| Standard Code | U16B8 |