



# CROP REPORT

Recommended Fertilizer Dose (kg / Hectare)

## 1. Cereals (Grain Crops)

| Crop Name                            | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|--------------------------------------|--------------|----------------|------------|----------------|
| Cereals (General)                    | 80           | 40             | 0          | 25             |
| Hybrid Pearl Millet (Summer)         | 120          | 60             | 0          | 25             |
| Sorghum (Jowar) GJ-35/36/39/38/39/40 | 80           | 40             | 0          | 12             |
| Sorghum GJ-36 (Semi-Winter)          | 80           | 20             | 0          | 12             |
| Sorghum GFS-4 (For Green Fodder)     | 80           | 40             | 0          | 12             |
| Paddy / Rice (Early Maturing)        | 80           | 30             | 0          | 10             |
| Paddy / Rice (Medium Maturing)       | 100          | 40             | 0          | 10             |
| Paddy / Rice (Late Maturing)         | 120          | 40             | 0          | 10             |
| Maize (Early Maturing)               | 60           | 30             | 0          | 12             |
| Maize (Hybrid)                       | 100          | 50             | 0          | 25             |
| Wheat (Irrigated)                    | 120          | 60             | 0          | 15             |
| Wheat (Unirrigated)                  | 20           | 0              | 0          | 0              |
| Wheat (No. 1 Unirrigated)            | 20           | 15             | 0          | 0              |
| Finger Millet (Ragi / Nagli)         | 40           | 0              | 0          | 10             |
| Kodo Millet                          | 20           | 10             | 0          | 10             |
| Beetroot                             | 20           | 10             | 0          | 10             |
| Foxtail Millet (Kangni)              | 20           | 10             | 0          | 10             |

## 2. Oilseeds

| Crop Name                               | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|-----------------------------------------|--------------|----------------|------------|----------------|
| Castor (Irrigated)                      | 95           | 50             | 0          | 25             |
| Castor (Unirrigated)                    | 40           | 40             | 0          | 25             |
| Castor (Hybrid)                         | 60           | 30             | 0          | 20             |
| Mustard / Rapeseed (Irrigated)          | 50           | 50             | 0          | 20             |
| Mustard / Rapeseed (Unirrigated)        | 60           | 0              | 0          | 0              |
| Mustard / Rapeseed (Limited Irrigation) | 60           | 20             | 0          | 25             |
| Groundnut (Irrigated Summer)            | 25           | 50             | 0          | 20             |
| Groundnut (Unirrigated Kharif)          | 13           | 25             | 0          | 12             |
| Sesame (Monsoon)                        | 25           | 25             | 0          | 12             |
| Sesame (Semi-Winter)                    | 13           | 13             | 0          | 12             |
| Sunflower (General)                     | 60           | 60             | 0          | 12             |
| Sunflower (For Fodder)                  | 60           | 30             | 0          | 12             |
| Sunflower (North Saurashtra)            | 90           | 30             | 0          | 0              |
| Soybean                                 | 30           | 60             | 0          | 25             |
| Safflower                               | 25           | 10             | 0          | 12             |
| Niger (Ramtil)                          | 10           | 0              | 0          | 12             |

## 3. Cash Crops

| Crop Name                      | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|--------------------------------|--------------|----------------|------------|----------------|
| Cotton (Hybrid - Irrigated SG) | 240          | 75             | 0          | 25             |
| Cotton (Hybrid - Irrigated)    | 160          | 75             | 0          | 25             |
| Cotton (Rainfed)               | 120          | 75             | 0          | 12             |
| Cotton (Improved Irrigated SG) | 160          | 20             | 0          | 25             |
| Cotton (Improved Irrigated)    | 80           | 20             | 0          | 25             |
| Cotton (Digvijay Irrigated)    | 100          | 50             | 0          | 25             |
| Cotton (Unirrigated)           | 50           | 25             | 0          | 12             |
| Tobacco (Bidi Tobacco)         | 180          | 0              | 0          | 25             |
| Tobacco (Kalkatti Tobacco)     | 200          | 0              | 0          | 25             |
| Sugarcane (Planted)            | 250          | 150            | 150        | 25             |
| Sugarcane (Ratoon)             | 300          | 125            | 0          | 25             |

#### 4. Spices & Medicinal Crops

| Crop Name                          | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|------------------------------------|--------------|----------------|------------|----------------|
| Fennel (Monsoon)                   | 100          | 60             | 0          | 25             |
| Fennel (Winter)                    | 90           | 30             | 0          | 15             |
| Isabgol / Psyllium (North Gujarat) | 50           | 25             | 0          | 0              |
| Isabgol / Psyllium (Saurashtra)    | 20           | 20             | 0          | 0              |
| Chili (For Dry Red Chili)          | 200          | 80             | 0          | 25             |
| Ginger                             | 50           | 40             | 60         | 50             |
| Turmeric                           | 60           | 60             | 60         | 35             |
| Fenugreek (Methi)                  | 40           | 20             | 0          | 15             |
| Coriander                          | 20           | 10             | 0          | 5              |
| Ajwain, Dill                       | 40           | 20             | 0          | 15             |
| Garlic                             | 50           | 50             | 50         | 25             |
| Onion                              | 75           | 60             | 50         | 25             |

#### 5. Vegetable Crops - Part 1

| Crop Name                 | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|---------------------------|--------------|----------------|------------|----------------|
| Okra (Bhindi)             | 100          | 50             | 50         | 12             |
| Brinjal (Eggplant)        | 100          | 50             | 50         | 15             |
| Tomato                    | 150          | 100            | 100        | 20             |
| Indian Bean (Papdi)       | 20           | 40             | 0          | 15             |
| Bottle Gourd              | 100          | 50             | 50         | 15             |
| Pointed Gourd (Parwal)    | 90           | 40             | 0          | 25             |
| Tapioca                   | 75           | 75             | 75         | 12             |
| Sweet Potato              | 75           | 50             | 75         | 15             |
| Purple Yam (Ratalu)       | 80           | 60             | 80         | 10             |
| Elephant Foot Yam (Suran) | 75           | 40             | 60         | 25             |
| Amaranth                  | 60           | 25             | 25         | 25             |
| Sponge Gourd              | 25           | 13             | 13         | 10             |
| Bitter Gourd              | 60           | 60             | 60         | 10             |
| Cucumber                  | 50           | 25             | 25         | 10             |
| Ridge Gourd               | 25           | 13             | 13         | 5              |
| Ivy Gourd (Tindora)       | 70           | 0              | 0          | 15             |

## 5. Vegetable Crops - Part 2

| Crop Name                              | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|----------------------------------------|--------------|----------------|------------|----------------|
| Carrot                                 | 25           | 0              | 63         | 20             |
| Colocasia (Arvi)                       | 80           | 50             | 100        | 12             |
| Lima Bean (Wal)                        | 40           | 50             | 40         | 15             |
| Cluster Bean (Guar - Vegetable)        | 25           | 40             | 38         | 12             |
| Radish                                 | 40           | 13             | 0          | 0              |
| Peas                                   | 35           | 75             | 35         | 30             |
| Chili (Sweet/Capsicum - South Gujarat) | 120          | 50             | 50         | 20             |
| Chili (Banaskantha)                    | 90           | 30             | 0          | 20             |
| Cabbage (South Gujarat - Golden Acre)  | 200          | 0              | 50         | 20             |
| Cabbage (Central Gujarat)              | 200          | 75             | 0          | 25             |
| Cabbage (North Gujarat)                | 120          | 40             | 0          | 10             |
| Cauliflower (South Gujarat)            | 80           | 40             | 38         | 20             |
| Cauliflower (North Gujarat)            | 90           | 60             | 0          | 10             |
| Potato (Banaskantha)                   | 220          | 110            | 220        | 25             |
| Potato (Kheda)                         | 200          | 100            | 200        | 25             |

## 6. Fodder Crops

| Crop Name             | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|-----------------------|--------------|----------------|------------|----------------|
| Sorghum (Jowar)       | 75           | 40             | 0          | 10             |
| Pearl Millet (Bajra)  | 50           | 25             | 0          | 0              |
| Maize                 | 80           | 30             | 0          | 0              |
| Napier Grass (Gajraj) | 50           | 30             | 30         | 10             |
| Marvel Grass (Zinzvo) | 40           | 0              | 0          | 20             |
| Dashrath Grass        | 50           | 100            | 0          | 25             |
| Cowpea                | 20           | 40             | 0          | 0              |
| Cluster Bean (Guar)   | 20           | 40             | 0          | 0              |
| Sugarcane             | 20           | 60             | 0          | 0              |
| Lucerne (Alfalfa)     | 20           | 50             | 50         | 0              |
| Oats                  | 80           | 30             | 0          | 10             |
| Sunflower             | 60           | 30             | 0          | 0              |

## 7. Pulse Crops

| Crop Name                                | Nitrogen (N) | Phosphorus (P) | Potash (K) | Organic Manure |
|------------------------------------------|--------------|----------------|------------|----------------|
| Gram / Chickpea (Under 20 kg/ha)         | 20           | 40             | 0          | 25             |
| Gram / Chickpea (ICCC-4 / North Gujarat) | 20           | 30             | 0          | 0              |
| Pigeon Pea (Tuver)                       | 20           | 60             | 0          | 0              |
| Black Gram (Urad)                        | 20           | 20             | 0          | 0              |
| Cluster Bean (Guar)                      | 15           | 40             | 0          | 0              |
| Cowpea (Choli - North Gujarat)           | 15           | 40             | 0          | 0              |
| Green Gram (Moong)                       | 20           | 40             | 0          | 0              |
| Lima Bean (Wal)                          | 20           | 40             | 0          | 0              |
| Peas                                     | 20           | 40             | 0          | 0              |

### GENERAL RECOMMENDATIONS FOR FARMERS

- **Soil Testing:** It is highly recommended to base the application of chemical fertilizers on a recent Soil Testing report to maintain the long-term fertility and health of your soil.
- **Organic Manure:** For better crop quality and maximum yield, always use the suggested quantity of organic manure alongside the chemical fertilizers.
- **Timely Irrigation:** To ensure the fertilizers are fully absorbed, apply them either immediately after irrigation or only in soil that has adequate moisture.
- **Optimal Dosage:** Applying excessive fertilizer can harm both the crop and the soil structure. Please note that all fertilizer doses mentioned in the tables above are calculated **per hectare** (in kg).