



*Final Report of  
Project on*



## **Determination of Crop coefficients for Major Crops by Lysimetric Studies**



*Submitted to*

**Nanaji Deshmukh Krishi Sanjeevani Prkalp  
(formerly PoCRA)**

**Department of Agriculture, Government of  
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*Submitted By*

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## Project Details

<b>Institute</b>	:	Mahatma Phule Krishi Vidyapeeth, Rahuri
<b>Location</b>	:	Climate Smart Research Block and Experimental Field of AICRP on IWM, Mahatma Phule Krishi Vidyapeeth, Rahuri, 413 722.
<b>Duration</b>	:	2020-2024
<b>Total Outlay</b>	:	Rs. 31.43 Lakhs (Rs. Thirty one lakh fourty three thousand only)
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# 1. INTRODUCTION

Government of Maharashtra (GoM) has decided to implement the World Bank aided Project on Climate Resilient Agriculture (PoCRA) i.e. Nanaji Deshmukh Krishi Sanjeevani Prkalp (NDKSP) under Department of Agriculture. The objective of this project is to enhance climate-resilience and profitability of small holding farmers in the selected districts of Maharashtra. The project aims to achieve the objective through promotion of climate resilient technologies and commodity value chain across approximately 4,000 drought-prone villages in 15 districts of Maharashtra.

Drought resilience is intricately related to the crop water requirements of different crops grown in the region, with the determination of local crop coefficients playing a pivotal role in optimizing irrigation strategies. Crop water requirements i.e. crop evapotranspiration refers to the combined water loss from two main processes in crops: evaporation from the soil surface and transpiration from the plants. Evaporation is the process by which water in the soil is converted into water vapour and released into the atmosphere, primarily driven by solar radiation and environmental conditions. Transpiration, on the other hand, is the movement of water from the plant roots, through the plant, and into the atmosphere through small pores (stomata) in the leaves.

The role of crop evapotranspiration in crop water requirement is crucial for efficient irrigation management and understanding the water needs of crops. It represents the total amount of water that a crop utilizes during its growth cycle. By accurately estimating crop evapotranspiration, farmers and water resource managers can make informed decisions regarding irrigation scheduling, ensuring that crops receive an adequate and timely water supply. Factors influencing crop evapotranspiration include climate conditions, crop type, growth stage, and the availability of soil moisture. Understanding and managing crop

evapotranspiration helps optimize water use efficiency, reduce water wastage, and enhance overall agricultural productivity. It is a key parameter in determining the irrigation needs of crops, contributing to sustainable water management practices in agriculture.

Reference crop evapotranspiration, which is the evapotranspiration of reference crop, that is fully grown and never short of water takes care of the weather characteristics. The crop evapotranspiration is then related to reference crop evapotranspiration through a factor called crop coefficient which varies over the growth period of crop. Thus the reference crop evapotranspiration and crop coefficient values are essential for estimating the crop water requirement.

Crop coefficient, denoted as  $K_c$ , is a factor in the crop's growth stage and guide the adjustment of reference evapotranspiration to estimate actual evapotranspiration. Currently most of the studies consider the crop coefficient values documented by FAO based on the average values all over the world. Therefore, consideration of the global averages of crop coefficient does not result in appropriate estimation of crop evapotranspiration and hence leads to inappropriate application of water, resulting in under or over irrigation and finally either in decreased productivity and/ or increased wastage of scarce water resources. As the evapotranspiration values are influenced by local climatic conditions, crop evapotranspiration values need to be measured locally and hence crop coefficient values need to be estimated locally. Though there is considerable variation in  $K_c$  values but there is no specific trend of variation between locally developed and FAO documented values, which translate in to 8 to 12% variation in the crop yield. Thus for the estimation of accurate crop water requirement, it is necessary to determine the crop coefficient values locally over the crop growth season for different crops of the regions. Moreover, locally developed  $K_c$  values provide the accurate values and thus the confidence amongst the users for estimating water requirement based on  $K_c$  values.

Weighing Lysimeters are extensively used to estimate and study crop water use patterns throughout crop growth and thereby standardize reference evapotranspiration models for the localized area to estimate crop-coefficient data for specific crops. The amount of water, which cultivated areas in a field require for evapotranspiration, might be precisely measured using a weighing Lysimeter. The applicability of Lysimeter for estimating the crop coefficient of various crops has been widely reported worldwide.

Thus, considering the importance of determining local crop coefficients of different crops in the region, Nanaji Deshmukh Krishi Sanjeevani Prakalp (formerly PoCRA) granted a project on “**Determination of Crop coefficients for Major Crops by Lysimetric Studies**” to Mahatma Phule Krishi Vidyapeeth, Rahuri with following objectives:

1. To estimate the values of crop coefficients of important field crops over their growth period by using Lysimetric study.
2. To estimate water requirement of different field crops for efficient irrigation water management.

## 2. LYSIMETER AND ITS INSTALLATION

### 2.1 Overview

Digital Weighing type Lysimeter was used to measure crop water used by measuring the change in mass of an isolated volume of soil. Lysimeters are used to calculate the water balance of the enclosed system. The water balance involves accounting for all the inputs and outputs of water, such as precipitation, irrigation, runoff, and changes in soil moisture. The primary objective of a Lysimeter is to establish a favourable and controlled environment that is identical to field conditions for the measurement of water balance. Evapotranspiration, which combines water evaporation from the soil surface and transpiration from plants, is a critical parameter measured by Lysimeter. This information is valuable for understanding the water requirement of crops.

In the project on “Determination of crop coefficients for major crops by Lysimetric studies” at Mahatma Phule Krishi Vidyapeeth, Rahuri, two Lysimeters were to be installed after procurement by Nanaji Deshmukh Krishi Sanjeevani Prakalp (formerly PoCRA) centrally.

First Lysimeter was delivered on the field on July 20, 2021. However, due to incessant rains, actual installation of the Lysimeter at 19.32295°N and 74.652303°E was done on November 15-16, 2021.

Second Lysimeter was delivered on field on April 5, 2023 and its installation was done on April 11-12, 2023 at Experimental Farm, AICRP on Irrigation Water Management, MPKV, Rahuri (19.215640°N and 74.383772°E).

Specifications of various components of digital weighting type Lysimeter and their function are given in the Table 1.

**Table 1: Specification and function of various components of digital weighting type****Lysimeter**

<b>Sr. No.</b>	<b>Component</b>	<b>Specifications</b>	<b>Functions</b>
1.	Inner box	1.5 x 1.5 x 1.25 m	To grow crop in an isolated environment.
2.	Outer box	1.6 x 2.1 x 1.25 m	To separate isolated mass of soil from surrounding environment.
3.	Weighing Scale	Size: 1.5 x 1.5 m High precision type, class II weighing scale indicator, capacity of 1000 kg and least count of 10 g.	Attached with 4 load cells which works on strain gauge principle which measures the weight of inner tank.
4.	Perforated plate	Corrosion resistant chicken type stainless steel mesh screen of 2 mm thickness (grade 304 SS) at about 10 cm from bottom.	To prevent washing out of soil along with drain water.
5.	Control Panel Box	0.4m×0.38m×0.26m. Made of corrosion free material.	Shows the weight of Soil water in inner tank & drain water in drain tank
6.	GI Pipe	Length 2m	For fitting for Solar panel and Control Panel
7.	Solar Panel Frame	Frame made of MS angle for fitting the Solar panel for the electric supply for data collection and data transmission.	For electric supply to charge battery which is required for data transmission & display.
8.	Drain tank	0.6 X 0.3 m MS tank	Measures the weight of drainage water from inner tank
9.	GSM Module	Sim Card and Device	To transmit data to web based application



## 2.1 Procedure for the Installation of Lysimeter

The installation procedure involved meticulous site preparation, pit excavation, foundation laying, Lysimeter placement, back filling with soil layers, installation of accessories, and calibration to guarantee accurate and reliable measurements for subsequent studies. Step wise procedure followed for installation of Lysimeter is as given below. Photographs captured during installation of Lysimeter are shown in plates 1 to 14.

- 1. Site Selection:** A central location within the agricultural field was identified and selected for Lysimeter installation. The site was ensured to be easily accessible and cleared of potential interference.
- 2. Prepare the Site:** The selected area was cleared of vegetation and debris. The central point of the field was established, and the exact location for Lysimeter installation was marked.
- 3. Digging the Pit:** A pit was manually excavated at the chosen location to the size of the inner tank ( $1.5 \times 1.5 \times 1$  m). During excavation, soil was systematically set aside in layers of 20 cm thickness. Then, the pit was expanded with heavy machinery (JCB) to the size of the outer tank of the Lysimeter ( $1.6 \times 2.1 \times 1.25$  m).
- 4. Laying Foundation:** The bottom of pit was levelled using a Water Level for precision. A layer of bricks was placed at the base to establish a solid foundation for the Lysimeter.
- 5. Lysimeter Installation:** The Lysimeter (consisting of the outer tank, inner tank, and weighing frame) was carefully lowered into the pit with the help of Crane, ensuring it was level and securely positioned.
- 6. Backfilling of Soil:** The inner tank was backfilled with the soil layers kept separate during excavation to maintain soil structure. The last-excavated layer was placed on the perforated plate inside the inner tank first, and the initial layer was placed last.

- 7. Installation of Accessories:**Temperature and moisture sensors were inserted at 30, 60, and 90 cm from the soil surface.The Drain Tank, Control Panel, battery, and Solar Panel were installed. Wires connecting the load cells to the Data Logger and GMS module were properly fitted.
- 8. Calibration:**The Lysimeter was calibrated to ensure precise measurements, including weight sensor calibration and the setup of data logging systems.



**Plate 1. Layout of digging site**



**Plate 2. Digging of pit and heave of soil from pit**



**Plate 3. Layer wise heaves of soil**



**Plate 4. 1m × 1m pit from which soil was excavated layer wise to fill in inner tank of  
Lysimeter**



**Plate 5. Levelling the bottom of installation pit**





**Plate6. Bricks foundation below Lysimeter as levelled platform**



**Plate7. Transportation of Lysimeter to site**



**Plate 8. Lysimeter placed on the foundation in pit**



**Plate9. Placing of mesh at the bottom of inner tank to prevent washing out of soil through drain**



**Plate 10. Layer wise soil refilling& compaction and sensor installation in the inner tank of Lysimeter**



**Plate 11. Completion of Soil filling in the inner tank of Lysimeter**





**Plate 12. Placement of Drain tank**



**Plate 13. Final installation of Lysimeter  
and control panel**



**Plate 14. Saturated Lysimeter after  
successful installation and calibration**

### 3. METHODOLOGY

#### 3.1 Important Terminologies:

##### i. Reference Crop Evapotranspiration (ET<sub>r</sub>):

Evapotranspiration from the reference surface i.e. hypothetical grass i.e. reference crop with an assumed crop height of 0.12 m, a fixed surface resistance of 70 s/m and an albedo of 0.23 (Allen et al, 1998).

##### ii. Evapotranspiration(ET):

Evapotranspiration is the combined process of water evaporation from the soil surface and transpiration from plant surfaces into the atmosphere (Allen et al, 1998).

##### iii. Crop Evapotranspiration(ET<sub>c</sub>):

Evapotranspiration from disease-free, well-fertilized crops, grown in large fields, under optimum soil water conditions, and achieving full production under the given climatic conditions (Allen et al, 1998).

##### iv. Crop Coefficient (K<sub>c</sub>):

The crop coefficient, K<sub>c</sub>, is the ratio of the crop evapotranspiration (ET<sub>c</sub>) to the reference evapotranspiration (ET<sub>r</sub>), and it represents an integration of the effects of four primary characteristics (crop height, albedo, canopy resistance and evaporation from soil) that distinguish the crop from reference grass (Allen et al, 1998).

#### 3.2 Estimation of Reference Crop Evapotranspiration

Reference crop evapotranspiration (ET<sub>r</sub>) during the crop growing season is estimated by using the Penman-Monteith method [Eq (3.1)].

$$ET_r = \frac{0.408\Delta(R_n - G) + \gamma \frac{900}{T + 273} u_2 (e_s - e_a)}{\Delta + \gamma(1 + 0.34u_2)} \quad \dots (3.1)$$

Where,

$ET_r$  = Reference evapotranspiration [mm/day],

$R_n$  = Net radiation at the crop surface [MJ/ m<sup>2</sup> day],

$G$  = Soil heat flux density [MJ/ m<sup>2</sup> day],

$T$  = Mean daily air temperature at 2 m height [°C],

$u_2$  = Wind speed at 2 m height [m/ s],

$e_s$  = Saturation vapour pressure [kPa],

$e_a$  = Actual vapour pressure [kPa],

$e_s - e_a$  = Saturation vapour pressure deficit [kPa],

$\Delta$  = Slope vapour pressure curve [kPa/ °C],

$g$  = Psychrometric constant [kPa / °C].

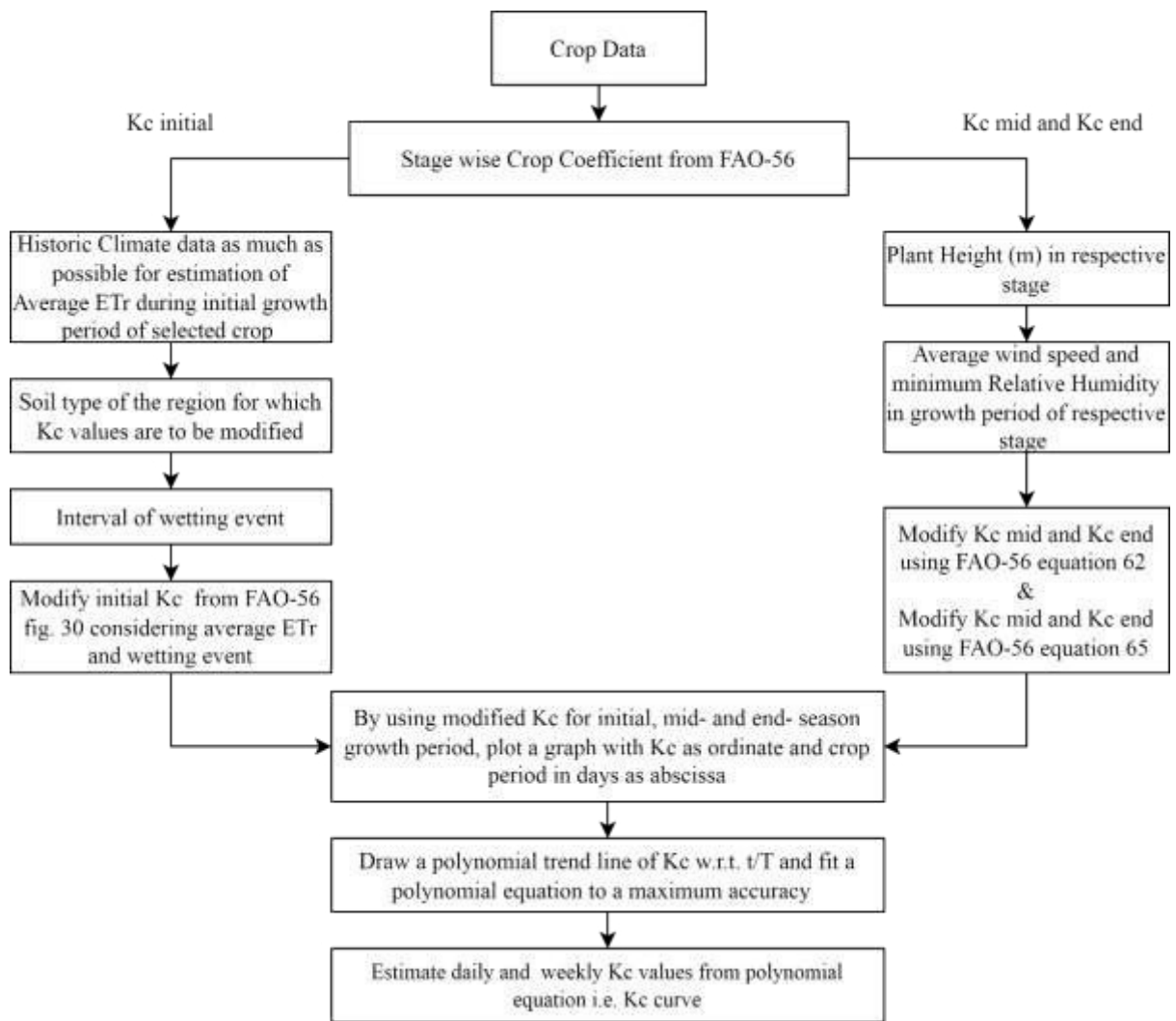
### **3.3 Methodology for modification of FAO-56 Crop Coefficients for local conditions**

For modification of  $K_c$  values at local condition it is required to have the data related to soil type, wetting event and crop height at mid and end growth stage. Figure 3.1 shows the flow chart of methodology used for modification of  $K_c$  at initial, mid and end stages during crop growth period.

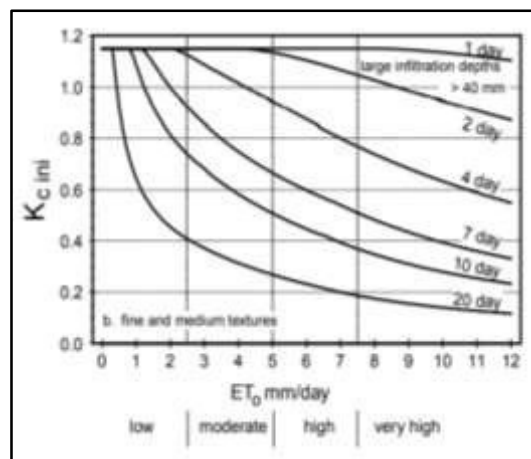
#### **i. Modification of $K_c$ (initial)**

The soil type of Rahuri region where the experiments were conducted is having fine and medium texture, therefore the irrigation interval was considered as 10 days.  $K_{c_{ini}}$  is taken from  $K_c$  vs  $ET_r$  graph (Figure 3.2) provided in FAO-56 paper using averaged  $ET_r$  value for previous 47 years, soil type/texture and wetting event for initial growth period. Average  $K_{c_{ini}}$  as related to the level of  $ET_r$  and the interval between irrigation greater than or equal to 40 mm per wetting event, during the initial growth stage for medium and fine textured soils is determined using figure 3.2.





**Figure 3.1: Methodology flowchart for modification of Kc**



**Figure 3.2: Kc vs ETr graph provided in FAO-56 (Allen *et al*, 1998) paper for Medium and Fine Soil**

## ii. Modification of K<sub>c</sub> mid:

The following equation is used for estimation of K<sub>c</sub> mid:

$$K_c \text{ mid} = K_c(\text{mid})_{\text{FAO56}} + [0.04(U_2-2) - 0.004(\text{RH}_{\text{min}}-45)](h/3)^{0.3} \quad \dots\dots(3.2)$$

## iii. Modification of K<sub>c</sub> end:

The following equation is used for estimation of K<sub>c</sub> end:

$$K_c \text{ end} = K_c(\text{end})_{\text{FAO56}} + [0.04(U_2-2) - 0.004(\text{RH}_{\text{min}}-45)](h/3)^{0.3} \quad \dots\dots(3.3)$$

Where,

$K_c(\text{mid})_{\text{FAO56}}$  = value of K<sub>c</sub> mid taken from FAO-56,

$K_c(\text{end})_{\text{FAO56}}$  = value of K<sub>c</sub> end taken from FAO-56,

$U_2$  = Mean value for daily wind speed at 2m height, m/s

$\text{RH}_{\text{min}}$  = Mean value for daily minimum relative humidity during the end season growth stage,

$h$  = Mean plant height during end-season (m)

The crop height, minimum relative humidity and wind speed at 2 metre height required for estimation of K<sub>c</sub> for mid and end season stages, was recorded and stage wise K<sub>c</sub> values were modified. The weekly K<sub>c</sub> values were developed by linear interpolation of K<sub>c</sub> initial, K<sub>c</sub> mid and K<sub>c</sub> end. The curve of weekly K<sub>c</sub> Vs t/T, where 't' is day after sowing and 'T' is total crop growth period in days, was plotted and a polynomial equation was fitted with maximum accuracy. Using developed polynomial equation, the daily K<sub>c</sub> values for the crop were calculated.

## 3.4 Estimation of Crop Evapotranspiration Using Lysimeter

Lysimeter is used to measure crop evapotranspiration where the crop is grown in isolated tanks filled with soil. Weighing Lysimeters measure crop water used by measuring the change in mass of an isolated volume of soil. Irrigation and precipitation add water and increase the weight of the soil volume and drainage and evapotranspiration removes water

and decrease the weight. Water input and output is measured by Water Balance Method and then crop evapotranspiration is calculated using water balance method [Eq. (3.4)].

$$ET_c = P + I - \Delta S - D \quad \dots (3.4)$$

Where,

$ET_c$  = Crop Evapotranspiration, mm;

$P$  = Precipitation, mm;

$I$  = Irrigation, mm;

$\Delta S$  = Change in water storage, mm;

$D$  = Drainage, mm.

### 3.5 Estimation of Crop Coefficient and Development of Kc Curve

The  $K_c$  values were estimated for given crop as the ratio of crop evapotranspiration ( $ET_c$ ) to the reference evapotranspiration ( $ET_r$ ) estimated by Penman-Monteith method over crop growth period using Eq (3.5).

$$K_c = ET_c / ET_r \quad \dots (3.5)$$

Where,

$K_c$  = Crop Coefficient

$ET_c$  = Crop Evapotranspiration, mm

$ET_r$  = Reference Crop Evapotranspiration, mm

The polynomial equations of second, third, fourth and fifth orders are fitted to calculate daily  $K_c$ , with  $K_c$  as the dependent variable and  $(t/T)$  as the independent variable.

The best fit polynomial equation is selected based on maximum  $R^2$ .

General equation for  $K_{ct}$  can be written as:

$$K_{ct} = \sum_{n=0}^5 a_{(n)} \left(\frac{t}{T}\right)^n$$

The different forms of second, third, fourth and fifth order polynomial equation are as below:

$$Kc_t = a_0 \left( \frac{t}{T} \right)^0 + a_1 \left( \frac{t}{T} \right)^1 + a_2 \left( \frac{t}{T} \right)^2$$

$$Kc_t = a_0 \left( \frac{t}{T} \right)^0 + a_1 \left( \frac{t}{T} \right)^1 + a_2 \left( \frac{t}{T} \right)^2 + a_3 \left( \frac{t}{T} \right)^3$$

$$Kc_t = a_0 \left( \frac{t}{T} \right)^0 + a_1 \left( \frac{t}{T} \right)^1 + a_2 \left( \frac{t}{T} \right)^2 + a_3 \left( \frac{t}{T} \right)^3 + a_4 \left( \frac{t}{T} \right)^4$$

$$Kc_t = a_0 \left( \frac{t}{T} \right)^0 + a_1 \left( \frac{t}{T} \right)^1 + a_2 \left( \frac{t}{T} \right)^2 + a_3 \left( \frac{t}{T} \right)^3 + a_4 \left( \frac{t}{T} \right)^4 + a_5 \left( \frac{t}{T} \right)^5$$

Where,

$Kc_t$  = Crop Coefficient of  $t^{\text{th}}$  day.

$a_0, a_1, a_2, \dots$  = Constants of equations.

$t$  = Day considered after sowing.

$T$  = Total crop growth period from sowing to harvesting (days)

#### 4. CROP COEFFICIENTS OF SESAME, GRAM AND FODDER BAJRA

In the project titled "Determination of Crop Coefficient for Major Crops by Lysimetric Studies" conducted at Mahatma Phule Krishi Vidyapeeth, Rahuri, the primary objective was to assess and establish crop coefficients for three major crops: Sesame, Gram (Chickpea), and Fodder Bajra (Pearl millet).

Lysimeters provide direct and accurate data on evapotranspiration, allowing researchers to quantify how much water the crops use at different growth stages. These measurements contribute to the determination of crop coefficients. The experiments involved monitoring and recording various parameters such as weather conditions, crop development stages, and water usage.

By conducting Lysimetric studies on Sesame, Gram, and Fodder Bajra, the research aimed to determine crop coefficients specifically for these crops under the local conditions of Mahatma Phule Krishi Vidyapeeth, Rahuri. Timeline of the experiments conducted are given in the table 4.1. The outcomes of these experiments are presented in this chapter.

**Table 4.1: Details of the experiments conducted under the project**

Sr. No.	Experiment	Year
1.	Determination of Crop Coefficient of <i>rabi</i> Gram	2021-2022
2.	Determination of Crop Coefficient of summer Fodder Bajra	2021-2022
3.	Determination of Crop Coefficient of <i>rabi</i> Gram	2022-2023
4.	Determination of Crop Coefficient of summer Sesame	2022-2023
5.	Determination of Crop Coefficient of summer Fodder Bajra	2022-2023
6.	Determination of Crop Coefficient of <i>kharif</i> Sesame	2023-2024

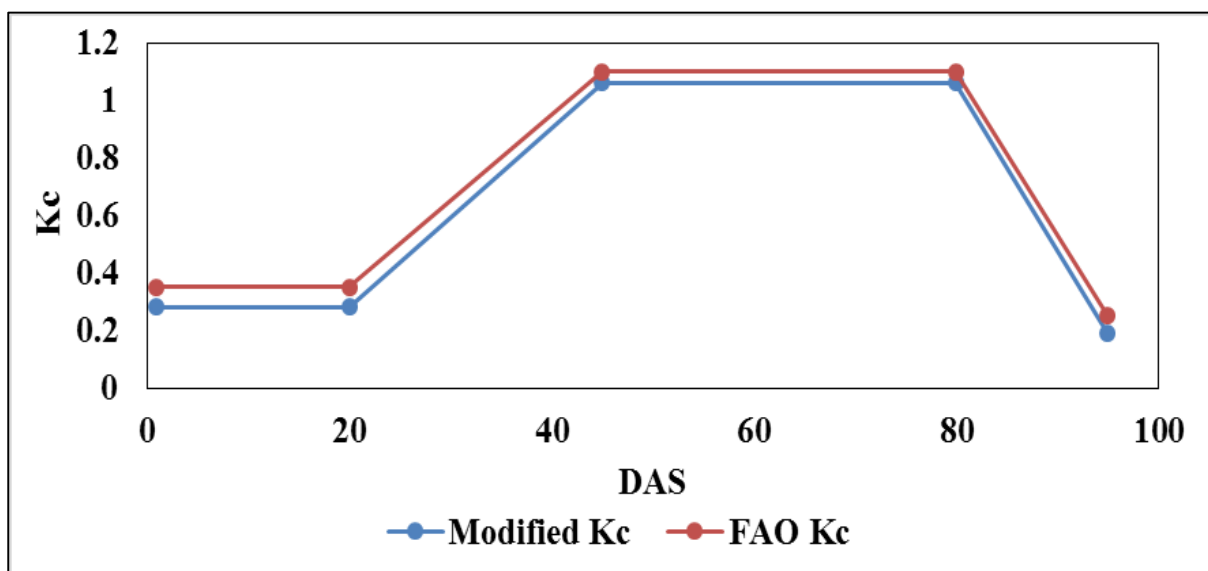
## 4.1 Crop Coefficients of Sesame

### 4.1.1 Modified Crop Coefficients of Sesame

Crop coefficients (Kc) from the FAO-56 Kc values were modified for sesame. The comparison between the original FAO-56 Kc values and the modified ones for different growth stages is shown in Table 4.2. The modified Kc values were found to be lower than the FAO-56 standard for all the growth stages. The sesame crop required about 11.83% less water during its various growth stages than what the FAO-56 standard suggested. Graphical representation for comparison of modified and FAO-56 Kc is shown in figure 4.1.

**Table 4.2: Week wise modified Crop Coefficient of Sesame**

Stage	Duration (Days)	Modified Kc	FAO - Kc	Weightage (%)	Change %
Initial	20	0.28	0.35	21.05	-20.00%
Development	25	0.67	0.74	26.31	-9.46%
Mid	35	1.06	1.1	36.85	-3.37%
End	15	0.19	0.25	15.79	-24.00%
<b>Weighted Average</b>					<b>-11.83%</b>



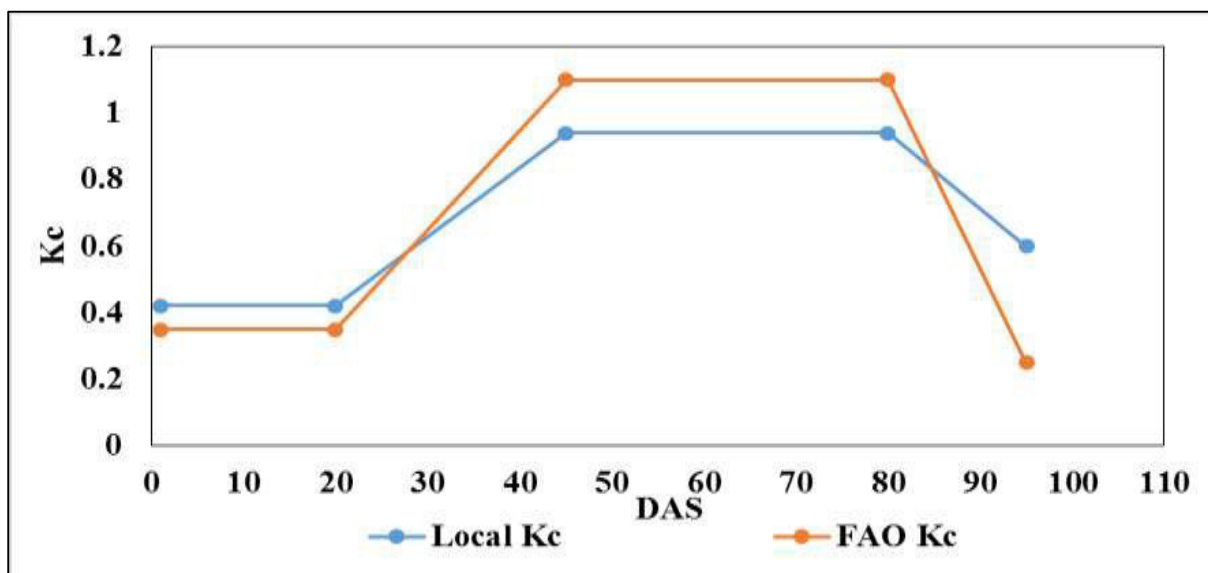
**Figure 4.1: Comparison of local and FAO-56 Kc**

#### 4.1.2 Local Crop Coefficients of summer Sesame with Lysimeter

During first year experiment, Sesame crop was grown in summer season. By considering average weekly Kc values, Kc curve was developed. The percentage change for each growth stage, also shown in the table, indicates the extent of this difference. The overall change is 21.31%, suggesting an increase in water demand for summer Sesame in the local climate. Graphical representation for comparison of local and FAO-56 Kc is shown in figure 4.2.

**Table 4.3: Stage wise crop coefficient developed for summer Sesame using Lysimetric Study**

Stage	Duration (Days)	Local Kc With Lysimeter	FAO - Kc	Weightage (%)	Change %
Initial	20	0.42	0.35	21.05	20.00%
Development	25	0.75	0.74	26.32	1.35%
Mid	35	0.94	1.1	36.84	-14.55%
End	15	0.6	0.25	15.79	140.00%
<b>Weighted Average</b>					<b>21.31%</b>



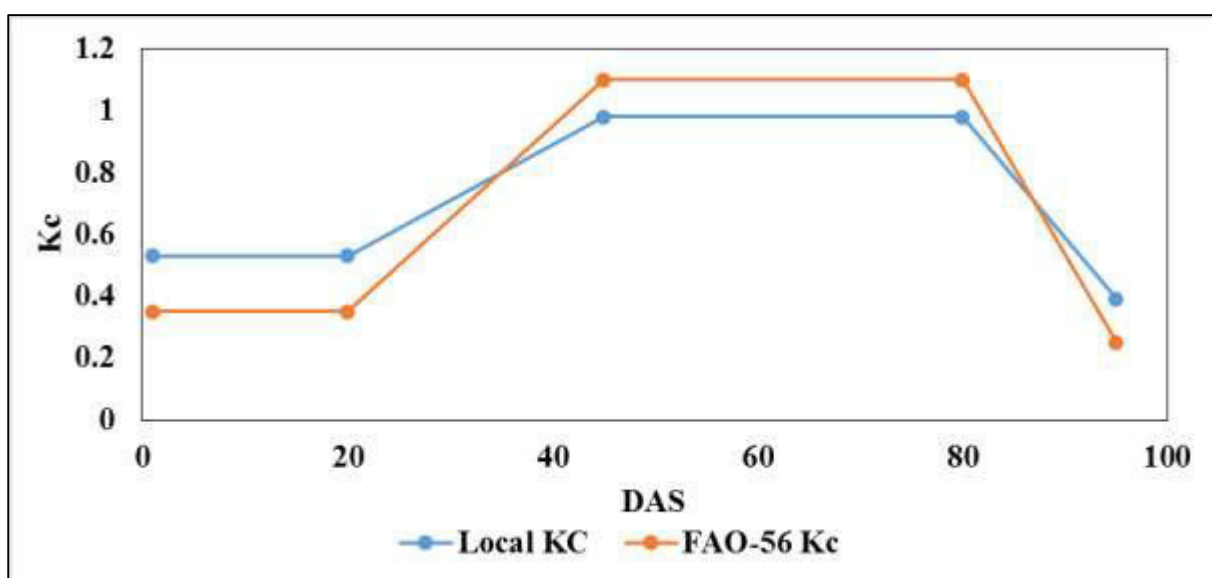
**Figure 4.2: Comparison of Modified and FAO-56 Kc**

### 4.1.3 Local Crop Coefficients of *kharif* Sesame with Lysimeter

During second year experiment, Sesame crop was grown in *kharif* season. By considering daily Kc values, Kc curve was developed. Stage wise Kc values for *kharif* sesame are given in table 4.4. The percentage change for each growth stage, also shown in the table, indicates the extent of this difference. The overall change is 18.49%, suggesting an increase in water demand for *kharif* Sesame in the local climate. Graphical representation for comparison of local and FAO-56 Kc is shown in figure 4.3.

**Table 4.4: Stage wise crop coefficient developed for *kharif* Sesame using Lysimetric Study**

Stage	Duration (Days)	Local Kc with Lysimeter	FAO Kc	Weightage (%)	Change %
Initial	20	0.53	0.35	21.05	51.43%
Development	25	0.82	0.74	26.32	10.81%
Mid	35	0.98	1.1	36.84	-10.91%
End	15	0.39	0.25	15.79	56.06%
<b>Weighted Average</b>					<b>18.49%</b>



**Figure 4.3: Comparison of local and FAO-56 Kc for *kharif* Sesame**



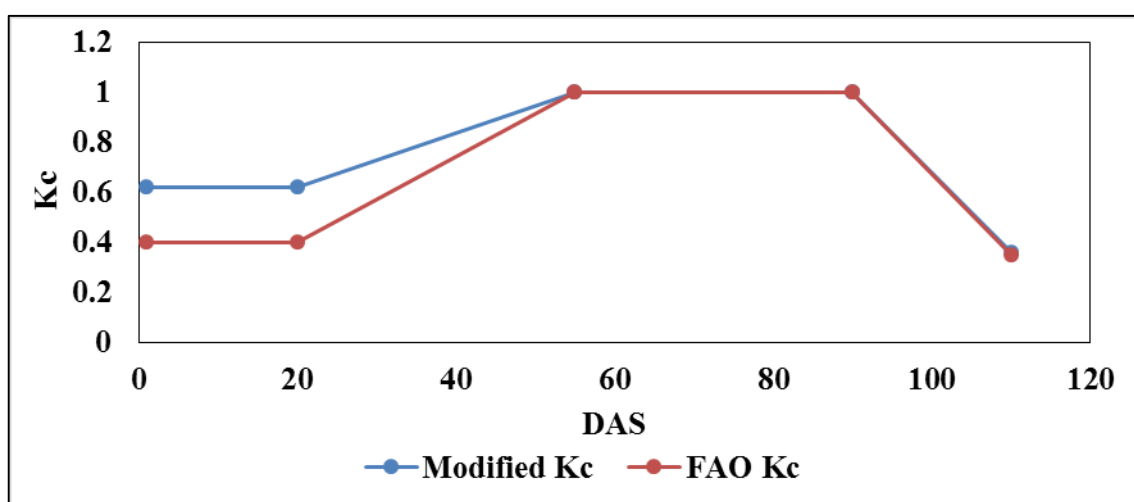
## 4.2 Crop Coefficients of *rabi* Gram

### 4.2.1 Modified Crop Coefficients of *rabi* Gram

FAO-56 crop coefficients for Gram crop are modified for local conditions of MPKV, Rahuri. Stage wise FAO-56 and modified Kc values are given in Table 4.5. The table provides a comparison of crop coefficients (Kc) for different growth stages, namely Initial, Development, Mid, and End, along with the corresponding duration, between the FAO-56 standard and modified crop coefficients. In the case of *rabi* Gram, the average change is 15.52%, indicating increase in water requirements based on modifications according to local climatic conditions. Comparison of modified and FAO-56 Kc is shown in figure 4.4.

**Table 4.5: Stage wise and week wise modified Crop Coefficient of *rabi* Gram**

Stage	Duration (Days)	Modified Kc	FAO Kc	Weightage (%)	Change %
Initial	20	0.62	0.4	18.18	55.00%
Development	35	0.81	0.7	31.82	15.21%
Mid	35	1.00	1.00	31.82	0.00%
End	20	0.36	0.35	18.18	2.86%
<b>Weighted Average</b>					<b>15.52%</b>



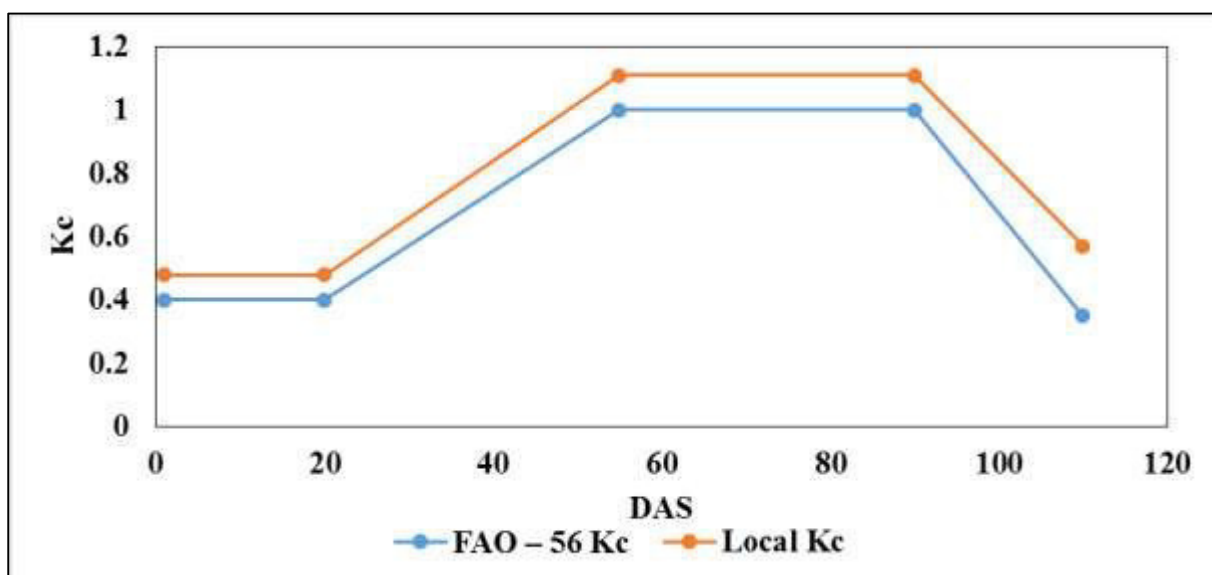
**Figure 4.4: Comparison of Modified and FAO-56 Kc for *rabi* Gram**

#### 4.2.2 Local Crop Coefficient of *rabi* Gram with Lysimeter

The average of stage wise Kc values the two years are given in Table 4.5. When comparing these values with the FAO-56 standard Crop Coefficients (Kc), it is observed that the locally developed Kc values are consistently higher across all stages. The percentage change for each growth stage, also shown in the table, indicates the extent of this difference. The overall change is 27.34%, suggesting an increase in water demand for *rabi* Gram in the local climate. Graphical comparison of FAO-56 Kc and local Kc *rabi* Gram is shown in figure 4.5.

**Table 4.6: Stage wise and week wise local Crop Coefficient of *rabi* Gram**

Stage	Duration (Days)	LocalKc with Lysimeter	FAO Kc	Weightage (%)	Change %
Initial	20	0.48	0.4	18.18	20.00%
Development	35	0.9	0.7	31.82	28.57%
Mid	35	1.1	1.00	31.82	11.00%
End	20	0.57	0.35	18.18	62.86%
<b>Weighted Average</b>					<b>27.34%</b>



**Figure 4.5: Comparison of local and FAO-56 Kc for *rabi* Gram**

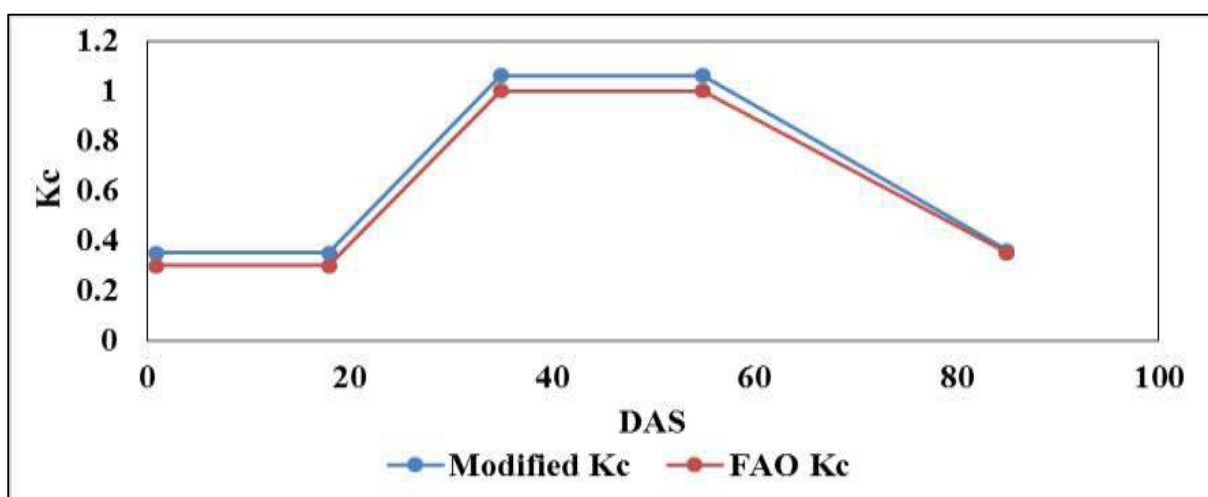
### 4.3 Crop Coefficients of Fodder Bajra

#### 4.3.1 Modified Crop Coefficients of Fodder Bajra

The table 4.7 gives a comparison of crop coefficients (Kc) for different growth stages, namely Initial, Development, Mid, and End, along with the corresponding duration, between the FAO-56 standard and modified crop coefficients. The comparison shows that, there is 16.67% increase during the initial growth stage, 6% increase in the mid-season, and 2.86% increase at the end of the season. In simpler terms, the modified crop coefficients indicate that, according to local considerations, Fodder Bajra requires 5.95% more water than what the FAO-56 standard suggests considering weighted average.

**Table 4.7: Modified Crop Coefficient for Summer Fodder Bajra.**

Stage	FAO – 56 Kc	Modified Kc	Duration	Weightage, %	Change, %
Initial	0.3	0.35	18	21.18	16.67%
Development	0.7	0.7	17	20.00	0.00%
Mid	1	1.06	20	23.53	6.00%
End	0.35	0.36	30	35.29	2.86%
<b>Weighted Average</b>					<b>5.95%</b>



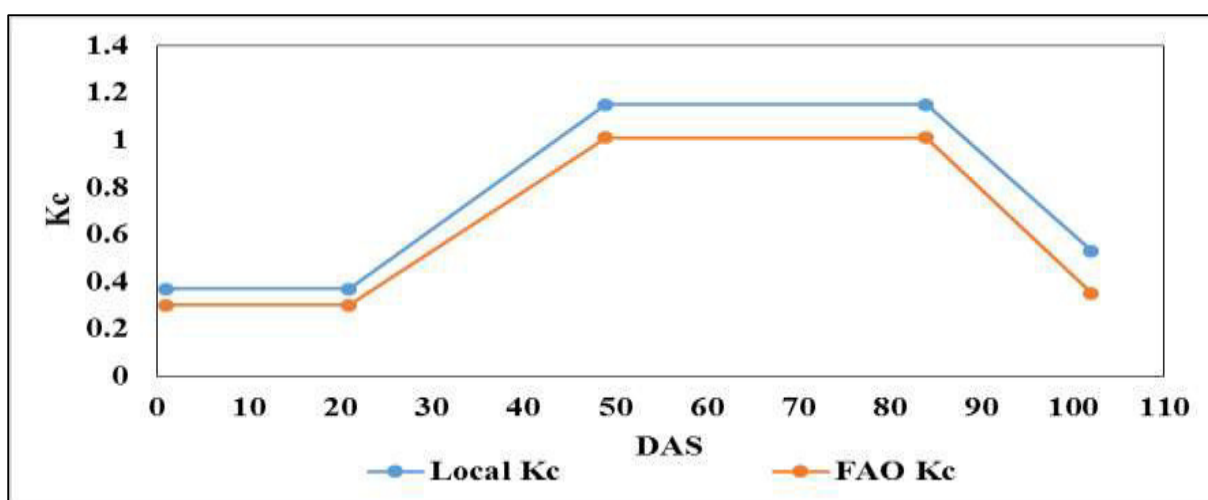
**Figure 4.6: Comparison of local and FAO-56 Kc for Modified Kc for Summer Fodder Bajra**

### 4.3.2 Local Crop Coefficients of Fodder Bajra (with single cut practice) with Lysimeter

During the summer season of 2022, experiment on determination of crop coefficient of fodder was conducted. For Fodder Bajra, specific Kc values during the initial, development, mid, and end stages were found to be 0.37, 0.87, 1.15, and 0.53, respectively. In comparison, the stage-wise Kc values according to FAO-56 were 0.30, 0.65, 1.01, and 0.35 for the corresponding stages. The percentage increase in local Kc values over FAO-56 Kc values is given in Table 4.8, indicating an overall increase of 31.48%. This suggests an increase water requirement for Fodder Bajra during the summer season. Graphical comparison of local Kc values over FAO-56 Kc values is shown in Figure 4.7.

**Table 4.8: Local Crop Coefficient for Summer Fodder Bajra.**

Stage	FAO 56 Kc	Local Kc with Lysimeter	Duration (Days)	Weightage, %	Change, %
Initial	0.3	0.37	18	21.18	23.33%
Development	0.7	0.87	17	20.00	24.29%
Mid	1	1.15	20	23.53	15.00%
End	0.35	0.53	30	35.29	51.43%
<b>Weighted Average</b>					<b>31.48%</b>



**Figure 4.7: Comparison of local and FAO-56 Kc for Fodder Bajra**

### 4.3.3 Crop Coefficients of Fodder Bajra (with 2 cuts practice) with Lysimeter

In the experiment conducted in summer season of 2023, involving the 'Giant Bajra' variety of Fodder Bajra, two cuts were taken. The first cut was taken at 49 days after sowing, and second cut was made at 42 days after the first cut. Two crop coefficient (Kc) curves were developed for this Fodder Bajra variety, considering standard harvesting time and protocol.

The table 4.9 outlines the stage-wise crop coefficients for Fodder Bajra during its growth cycle. The crop's development is divided into two phases: before and after the first cut, made 49 days after sowing. In the initial and development stages before the first cut, the crop coefficients are 0.64 and 1.34, respectively. After the first cut, when the fodder is regrown until 90 days after sowing, the crop coefficients for the development and mid growth stages are 0.77 and 1.24, respectively. Such a practice of harvesting fodder Bajra two times is not mentioned in FAO – 56. Hence, stage wise crop coefficients of Fodder Bajra having 2 cuts practice with Lysimeter were not compared with FAO values.

**Table 4.9: Stage wise crop coefficients of Fodder Bajra (with 2 cuts practice)**

Stage	Duration (Days)	Crop Coefficients with Lysimeter	
		Before first Cut ( 1 to 49 DAS)	After First Cut (50 to 90 DAS)
Initial	21	0.64	-
Development	28	1.34	0.77
Mid	14	-	1.24
End*	-	-	-

\* Bajra was harvested as green fodder, and was not allowed to dry. Therefore end stage was not considered in this experiment.

The values of weekly Crop Coefficient developed based on modifications made in FAO-56 Kc considering local climate and growing conditions and developed by conducting Lysimetric Studies are given in Appendix – A.

## **5. PROCEDURE FOR ESTIMATION OF CROP AND IRRIGATION WATER REQUIREMENT FOR WESTERN MAHARASHTRA**

To compute Taluka wise Crop and Irrigation Water Requirement for Western Maharashtra Region following procedure was followed.

### **1. Data Collection:**

Meteorological data from 22 Agricultural Research Stations in Western Maharashtra was collected. Minimum and maximum temperature data were obtained for the stations given in table 5.1.

### **2. Reference Evapotranspiration:**

Reference crop evapotranspiration was calculated using the Hargreaves-Samani Method for these stations spread across western Maharashtra using Phule Jal ( a web based application for computing ETr developed by MPKV, Rahuri), using minimum and maximum temperature, and latitude of the stations.

### **3. Spatial Interpolation:**

Daily Reference evapotranspiration values were converted into weekly values. Weekly values were spatially interpolated over the entire Western Maharashtra using the Inverse Distance Weight (IDW) method in ArcMap.

### **4. Crop Coefficient Multiplication:**

The interpolated values were multiplied by the respective crop coefficients obtained from Lysimetric Studies for Sesame, Gram, and Fodder Bajra.

### **5. Weekly Maps of Crop Water Requirement:**

Weekly maps of crop water requirement were developed for Western Maharashtra based on the multiplied values.

## **6. Shading Factor Consideration:**

For Sesame, Gram and Fodder Bajra, close-growing row crops, the shading factor was considered as 1 during the calculation of crop water requirement.

## **7. Geo-statistical Analysis:**

Geo-statistical Analysis tools in ArcMap were utilized to extract taluka-wise weekly crop water requirements using preloaded locations of all the taluka in Western Maharashtra.

## **8. Irrigation Water Requirement:**

Taluka-wise weekly crop water requirement was converted into irrigation water requirement. Different efficiencies were considered for surface irrigation (40%, 50%, and 60%), sprinkler irrigation (80% and 85%), and drip irrigation (90% and 95%).

To calculate irrigation water requirement by different irrigation methods at different efficiency levels, crop water requirement for given crop in given week was divided by efficiency factor. Different irrigation methods, efficiency levels and efficiency factors are given in table 5.2.

## **9. Regional Overview:**

Taluka-wise crop water requirement and irrigation water requirement details were compiled for 10 districts in Western Maharashtra, namely Ahmednagar, Dhule, Jalgaon, Kolhapur, Nandurbar, Nashik, Pune, Sangli, Satara, and Solapur and given in appendices Appendix B to F.

**Table 5.1: List of Agricultural Research Station for which ETr was calculated**

Sr. No.	Zone	Name of Agricultural Research Station and Location
1.	Western Ghat Zone	Zonal Agricultural Research Station, Igatpuri Dist. Nashik
2.		Agricultural Research Station, Lonavala Dist. Pune
3.		Agricultural Research Station, Radhanagari, Dist. Kolhapur
4.		Regional Wheat Rust Research Station, Mahabaleshwar, Dist. Satara
5.	Sub-Montane Zone	Zonal Agricultural Research Station, Shenda Park, Kolhapur
6.		Agricultural Research Station, Karad
7.		Agricultural Research Station, Vadgaon Maval
8.		Agricultural Research Station, Gadhinglaj
9.	Plain Zone	Zonal Agricultural Research Station, Ganeshkhind, Pune
10.		Agriculture Research Station Niphad, Dist. Nashik
11.		Agriculture Research Station Kasbe Digraj, Dist. Sangli
12.		Agriculture Research Station, Pimpalgaon Baswant, Dist. Nashik
13.		College of Agriculture, Pune
14.	Scarcity Zone	Zonal Agriculture Research Station, Solapur
15.		Central Sugarcane Research Station, Padegaon
16.		Agriculture Research Station, Mohol
17.		Pulse and Oilseed Research and Training Center, Pandharpur
18.		Agriculture Research Station, Jeur
19.		Agriculture Research Station, Savalvahir
20.		Agriculture Research Station, Chas
21.		Agriculture Research Station, Dhule
22.	Central Plateau Zone	Oil Seed Research Station, Jalgaon



**Table 5.2: Different irrigation methods, efficiency levels and efficiency factors**

<b>Sr. No.</b>	<b>Irrigation Method</b>	<b>Efficiency Level</b>	<b>Efficiency factor</b>
1.	Surface Irrigation	40%	0.4
		50%	0.5
		60%	0.6
2.	Sprinkler Irrigation	80%	0.8
		85%	0.85
3.	Drip Irrigation	90%	0.9
		95%	0.95

## 6. SUBMISSION OF DELIVERABLES

Sr. No	Particulars	Phase	Status of Grant
1.	Inception Report	I.	Yes
2.	Lysimeter Installation Report	II.	Yes
3.	<ul style="list-style-type: none"> <li>• Modified Kc Values for kharif Sesame, rabi Gram and Summer Fodder Bajra</li> <li>• Taluka wise weekly Crop Water Requirement and Irrigation Water Requirement of <i>kharif</i> Sesame, <i>rabi</i> Gram and Summer Fodder Bajra based on Modified Kc Values</li> </ul>	III.	Yes
4.	<ul style="list-style-type: none"> <li>• Local Kc values of rabi Gram (first year)</li> <li>• Taluka wise weekly Crop Water Requirement and Irrigation Water Requirement of <i>rabi</i> Gram</li> </ul>	IV.	Yes
5.	<ul style="list-style-type: none"> <li>• Local Kc values of Summer Fodder Bajra (first year)</li> <li>• Taluka wise weekly Crop Water Requirement and Irrigation Water Requirement of <i>rabi</i> Gram</li> </ul>	IV.	Yes
6.	<ul style="list-style-type: none"> <li>• Local Kc values of Sesame (first year)</li> <li>• Taluka wise weekly Crop Water Requirement and Irrigation Water Requirement of Sesame</li> </ul>	VI.	Yes
7.	<ul style="list-style-type: none"> <li>• Local Kc values of rabi Gram (Second year)</li> <li>• Taluka wise weekly Crop Water Requirement and Irrigation Water Requirement of <i>rabi</i> Gram</li> </ul>	VII.	Yes
8.	<ul style="list-style-type: none"> <li>• Local Kc values of Summer Fodder Bajra ((Second year)</li> <li>• Taluka wise weekly Crop Water Requirement and Irrigation Water Requirement of <i>rabi</i> Gram</li> <li>• Comprehensive report for the first Year</li> </ul>	VIII.	Yes
9.	<ul style="list-style-type: none"> <li>• Local Kc values of Sesame (Second year)</li> <li>• Taluka wise weekly Crop Water Requirement and Irrigation Water Requirement of Sesame</li> <li>• Comprehensive Report for the second year</li> </ul>	IX.	Yes

## 7. APPENDICES

### Appendix - A

#### Weekly Values of Crop Coefficients for Sesame, Gram and Fodder Bajra

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##### Appendix A – I: Weekly Values of Crop Coefficients for Sesame

Crop Week	Modified $K_c$	Summer Sesame	Kharif Sesame
1	0.55	0.42	0.49
2	0.58	0.41	0.53
3	0.64	0.51	0.61
4	0.71	0.57	0.71
5	0.8	0.73	0.82
6	0.89	0.94	0.92
7	0.97	1.15	1.00
8	1.03	1.03	1.05
9	1.07	0.94	1.06
10	1.06	0.77	1.01
11	0.98	0.73	0.89
12	0.83	0.69	0.70
13	0.57	0.55	0.42

**Appendix A – II: Weekly Values of Crop Coefficients for *rabi* Gram**

<b>CW</b>	<b>Modified K<sub>c</sub></b>	<b>Local K<sub>c</sub></b>
1	0.60	0.44
2	0.62	0.48
3	0.65	0.56
4	0.70	0.68
5	0.76	0.81
6	0.82	0.93
7	0.88	1.04
8	0.93	1.13
9	0.97	1.18
10	1.00	1.19
11	0.99	1.15
12	0.96	1.07
13	0.90	0.94
14	0.79	0.76
15	0.62	0.54
16	0.44	0.33

**Appendix A – III: Weekly Values of Crop Coefficients for Fodder Bajra (Single cut)**

<b>CW</b>	<b>Modified K<sub>c</sub></b>	<b>Local K<sub>c</sub> from lysimeter</b>
1	0.35	0.32
2	0.37	0.34
3	0.47	0.45
4	0.64	0.62
5	0.84	0.80
6	1	0.97
7	1.07	1.11
8	1.05	1.20
9	0.93	1.24
10	0.79	1.21
11	0.64	1.12
12	0.49	0.97
13	0.42	0.76

**Appendix A – IV Local Crop Coefficient of Fodder Bajra (Two cut)**

<b>Before First Cut</b>				<b>After First Cut</b>			
<b>CW</b>	<b>ETr (mm)</b>	<b>Kc</b>	<b>ETc (mm)</b>	<b>CW</b>	<b>ETr (mm)</b>	<b>Kc</b>	<b>ETc (mm)</b>
1	29.4	0.376	11.0	8	41.5	0.503	20.8
2	33.7	0.585	19.7	9	49.2	0.580	28.5
3	30.3	0.964	29.2	10	46.8	0.851	39.8
4	31.8	1.304	41.5	11	46.3	1.173	54.3
5	36.8	1.481	54.4	12	44.3	1.340	59.3
6	34.2	1.449	49.6	13	49.4	1.133	56.0
7	33.1	1.164	38.6				

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Ahmednagar District**

**Table No. B-1: Taluka Wise Crop Water Requirement (mm) of *Rabi* Gram in Ahmednagar District Table**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	12.5	13.4	14.6	17.3	20.7	24.3	26.7	28.6	30.2	30.7	30.5	29.5	26.9	22.4	17.2	10.9	356.5
<b>Akola</b>	12.3	13.0	14.5	17.4	20.4	23.5	26.1	28.5	30.4	30.6	31.0	31.3	28.6	24.4	18.6	12.0	362.6
<b>Karjat</b>	12.9	14.1	15.4	18.3	21.9	26.4	28.2	30.7	32.3	34.2	33.5	31.9	29.5	24.7	19.3	12.1	385.5
<b>Kopargaon</b>	12.4	13.4	14.8	17.6	19.3	24.3	26.2	28.2	29.7	30.8	30.2	29.5	26.6	22.9	17.6	11.0	354.7
<b>Nevasa</b>	12.7	14.1	14.9	17.7	20.9	26.9	27.7	30.0	31.6	34.4	33.4	31.6	29.2	24.8	19.8	12.1	381.9
<b>Parner</b>	12.7	13.5	14.9	17.7	21.0	23.9	26.7	28.7	30.6	30.5	30.3	29.5	26.9	22.5	17.0	10.9	357.2
<b>Pathardi</b>	12.8	14.1	15.0	17.9	21.2	27.3	28.1	30.4	31.9	35.0	33.9	32.1	29.6	25.1	20.0	12.3	386.8
<b>Rahuri</b>	13.0	13.7	15.1	18.0	21.2	24.3	26.9	29.1	31.3	31.1	30.7	29.9	27.4	23.2	17.5	11.1	363.4
<b>Sangamner</b>	13.1	13.8	15.3	18.1	21.1	24.3	26.7	28.9	30.6	30.6	30.3	29.8	27.3	23.1	17.4	11.1	361.4
<b>Shevgaon</b>	12.8	14.3	14.9	17.9	21.0	28.1	28.2	30.6	32.0	36.0	34.8	32.6	30.1	25.7	20.8	12.6	392.5
<b>Shrigonda</b>	12.7	13.7	15.0	17.9	21.3	25.0	27.3	29.4	31.1	31.9	31.6	30.4	27.9	23.3	17.9	11.4	367.8
<b>Shrirampur</b>	12.7	13.8	14.9	17.8	20.5	25.3	26.9	29.1	30.8	32.3	31.5	30.4	27.8	23.7	18.4	11.5	367.4

**No. B-2: Taluka Wise Irrigation Water Requirement (mm) of *Rabi* Gram by Surface Irrigation at 40% efficiency in Ahmednagar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	31.2	33.6	36.6	43.4	51.7	60.7	66.9	71.5	75.5	76.8	76.3	73.7	67.2	56.0	43.0	27.3	891.4
<b>Akola</b>	30.9	32.4	36.3	43.5	51.0	58.7	65.2	71.2	75.9	76.5	77.6	78.3	71.5	60.9	46.4	30.1	906.5
<b>Karjat</b>	32.3	35.2	38.6	45.8	54.6	66.0	70.5	76.6	80.7	85.5	83.8	79.7	73.8	61.9	48.3	30.3	963.8
<b>Kopargaon</b>	31.1	33.5	37.0	44.0	48.2	60.9	65.4	70.4	74.2	77.1	75.6	73.8	66.5	57.3	44.1	27.6	886.8
<b>Nevasa</b>	31.8	35.2	37.2	44.4	52.4	67.2	69.2	75.0	79.0	86.0	83.5	79.1	73.1	62.0	49.5	30.3	954.8
<b>Parner</b>	31.8	33.8	37.3	44.2	52.5	59.8	66.7	71.8	76.5	76.1	75.7	73.6	67.2	56.2	42.6	27.2	893.1
<b>Pathardi</b>	32.0	35.4	37.5	44.8	53.0	68.2	70.2	76.0	79.7	87.5	84.9	80.2	74.1	62.8	50.1	30.7	966.9
<b>Rahuri</b>	32.4	34.3	37.8	44.9	53.0	60.9	67.2	72.8	78.1	77.8	76.8	74.7	68.4	57.9	43.8	27.8	908.6
<b>Sangamner</b>	32.7	34.5	38.3	45.3	52.8	60.7	66.7	72.1	76.6	76.4	75.8	74.4	68.3	57.6	43.4	27.7	903.4
<b>Shevgaon</b>	32.0	35.7	37.2	44.8	52.6	70.2	70.4	76.5	80.1	90.1	87.0	81.6	75.3	64.3	52.0	31.4	981.2
<b>Shrigonda</b>	31.8	34.2	37.6	44.6	53.2	62.4	68.2	73.6	77.9	79.7	79.0	76.0	69.8	58.3	44.8	28.4	919.6
<b>Shrirampur</b>	31.8	34.4	37.3	44.4	51.3	63.2	67.3	72.8	77.1	80.6	78.8	76.0	69.5	59.3	46.0	28.6	918.5



**Table No. B-3: Taluka Wise Irrigation Water Requirement (mm) of Rabi Gram by Surface Irrigation at 50% efficiency in Ahmednagar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	24.9	26.9	29.3	34.7	41.3	48.6	53.5	57.2	60.4	61.5	61.1	58.9	53.7	44.8	34.4	21.8	713.1
<b>Akola</b>	24.7	26.0	29.0	34.8	40.8	47.0	52.1	57.0	60.7	61.2	62.0	62.7	57.2	48.7	37.1	24.1	725.2
<b>Karjat</b>	25.9	28.2	30.9	36.7	43.7	52.8	56.4	61.3	64.5	68.4	67.1	63.8	59.0	49.5	38.7	24.2	771.0
<b>Kopargaon</b>	24.9	26.8	29.6	35.2	38.5	48.7	52.3	56.4	59.4	61.7	60.5	59.1	53.2	45.8	35.3	22.1	709.4
<b>Nevasa</b>	25.5	28.2	29.8	35.5	41.9	53.8	55.3	60.0	63.2	68.8	66.8	63.2	58.5	49.6	39.6	24.2	763.8
<b>Parner</b>	25.4	27.1	29.8	35.4	42.0	47.8	53.3	57.4	61.2	60.9	60.6	58.9	53.8	45.0	34.1	21.8	714.5
<b>Pathardi</b>	25.6	28.3	30.0	35.9	42.4	54.6	56.1	60.8	63.7	70.0	67.9	64.2	59.3	50.2	40.1	24.5	773.5
<b>Rahuri</b>	25.9	27.4	30.2	35.9	42.4	48.7	53.7	58.3	62.5	62.3	61.4	59.7	54.8	46.3	35.0	22.3	726.9
<b>Sangamner</b>	26.1	27.6	30.7	36.3	42.2	48.5	53.4	57.7	61.3	61.1	60.6	59.5	54.7	46.1	34.7	22.1	722.7
<b>Shevgaon</b>	25.6	28.6	29.8	35.8	42.1	56.1	56.4	61.2	64.0	72.0	69.6	65.3	60.2	51.4	41.6	25.2	784.9
<b>Shrigonda</b>	25.4	27.4	30.1	35.7	42.6	49.9	54.6	58.9	62.3	63.8	63.2	60.8	55.8	46.6	35.8	22.7	735.7
<b>Shrirampur</b>	25.4	27.5	29.8	35.5	41.1	50.5	53.8	58.3	61.7	64.5	63.1	60.8	55.6	47.4	36.8	22.9	734.8

**Table No. B-4: Taluka Wise Irrigation Water Requirement (mm) of Rabi Gram by Surface Irrigation at 60% efficiency in Ahmednagar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	20.8	22.4	24.4	28.9	34.4	40.5	44.6	47.7	50.3	51.2	50.9	49.1	44.8	37.4	28.7	18.2	594.2
<b>Akola</b>	20.6	21.6	24.2	29.0	34.0	39.2	43.4	47.5	50.6	51.0	51.7	52.2	47.7	40.6	30.9	20.1	604.4
<b>Karjat</b>	21.6	23.5	25.7	30.6	36.4	44.0	47.0	51.1	53.8	57.0	55.9	53.1	49.2	41.2	32.2	20.2	642.5
<b>Kopargaon</b>	20.7	22.4	24.6	29.3	32.1	40.6	43.6	47.0	49.5	51.4	50.4	49.2	44.3	38.2	29.4	18.4	591.2
<b>Nevasa</b>	21.2	23.5	24.8	29.6	34.9	44.8	46.1	50.0	52.7	57.3	55.7	52.7	48.7	41.3	33.0	20.2	636.5
<b>Parner</b>	21.2	22.6	24.9	29.5	35.0	39.9	44.4	47.9	51.0	50.8	50.5	49.1	44.8	37.5	28.4	18.1	595.4
<b>Pathardi</b>	21.3	23.6	25.0	29.9	35.3	45.5	46.8	50.7	53.1	58.3	56.6	53.5	49.4	41.8	33.4	20.4	644.6
<b>Rahuri</b>	21.6	22.9	25.2	29.9	35.4	40.6	44.8	48.6	52.1	51.9	51.2	49.8	45.6	38.6	29.2	18.5	605.7
<b>Sangamner</b>	21.8	23.0	25.6	30.2	35.2	40.4	44.5	48.1	51.0	51.0	50.5	49.6	45.6	38.4	28.9	18.4	602.3
<b>Shevgaon</b>	21.3	23.8	24.8	29.8	35.1	46.8	47.0	51.0	53.4	60.0	58.0	54.4	50.2	42.9	34.7	21.0	654.1
<b>Shrigonda</b>	21.2	22.8	25.0	29.8	35.5	41.6	45.5	49.1	51.9	53.1	52.7	50.7	46.5	38.9	29.9	18.9	613.0
<b>Shrirampur</b>	21.2	22.9	24.9	29.6	34.2	42.1	44.8	48.5	51.4	53.8	52.6	50.6	46.3	39.5	30.7	19.1	612.3

**Table No. B-5: Taluka Wise Irrigation Water Requirement (mm) of *Rabi* Gram by Sprinkler Irrigation at 80% efficiency in Ahmednagar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	15.6	16.8	18.3	21.7	25.8	30.4	33.4	35.8	37.8	38.4	38.2	36.8	33.6	28.0	21.5	13.6	445.7
<b>Akola</b>	15.4	16.2	18.1	21.8	25.5	29.4	32.6	35.6	38.0	38.3	38.8	39.2	35.7	30.4	23.2	15.0	453.3
<b>Karjat</b>	16.2	17.6	19.3	22.9	27.3	33.0	35.3	38.3	40.3	42.7	41.9	39.9	36.9	30.9	24.2	15.2	481.9
<b>Kopargaon</b>	15.6	16.8	18.5	22.0	24.1	30.4	32.7	35.2	37.1	38.5	37.8	36.9	33.2	28.6	22.1	13.8	443.4
<b>Nevasa</b>	15.9	17.6	18.6	22.2	26.2	33.6	34.6	37.5	39.5	43.0	41.8	39.5	36.5	31.0	24.7	15.1	477.4
<b>Parner</b>	15.9	16.9	18.6	22.1	26.3	29.9	33.3	35.9	38.3	38.1	37.9	36.8	33.6	28.1	21.3	13.6	446.6
<b>Pathardi</b>	16.0	17.7	18.7	22.4	26.5	34.1	35.1	38.0	39.8	43.7	42.4	40.1	37.0	31.4	25.0	15.3	483.5
<b>Rahuri</b>	16.2	17.1	18.9	22.4	26.5	30.4	33.6	36.4	39.1	38.9	38.4	37.3	34.2	29.0	21.9	13.9	454.3
<b>Sangamner</b>	16.3	17.3	19.2	22.7	26.4	30.3	33.4	36.1	38.3	38.2	37.9	37.2	34.2	28.8	21.7	13.8	451.7
<b>Shevgaon</b>	16.0	17.9	18.6	22.4	26.3	35.1	35.2	38.3	40.0	45.0	43.5	40.8	37.7	32.2	26.0	15.7	490.6
<b>Shrigonda</b>	15.9	17.1	18.8	22.3	26.6	31.2	34.1	36.8	38.9	39.9	39.5	38.0	34.9	29.1	22.4	14.2	459.8
<b>Shrirampur</b>	15.9	17.2	18.7	22.2	25.7	31.6	33.6	36.4	38.5	40.3	39.4	38.0	34.8	29.7	23.0	14.3	459.2

**Table No. B-6: Taluka Wise Irrigation Water Requirement (mm) of *Rabi* Gram by Sprinkler Irrigation at 85% efficiency in Ahmednagar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	14.7	15.8	17.2	20.4	24.3	28.6	31.5	33.7	35.5	36.2	35.9	34.7	31.6	26.4	20.2	12.8	419.5
<b>Akola</b>	14.5	15.3	17.1	20.5	24.0	27.6	30.7	33.5	35.7	36.0	36.5	36.9	33.6	28.7	21.8	14.2	426.6
<b>Karjat</b>	15.2	16.6	18.2	21.6	25.7	31.1	33.2	36.1	38.0	40.2	39.4	37.5	34.7	29.1	22.7	14.3	453.5
<b>Kopargaon</b>	14.6	15.8	17.4	20.7	22.7	28.6	30.8	33.2	34.9	36.3	35.6	34.7	31.3	27.0	20.8	13.0	417.3
<b>Nevasa</b>	15.0	16.6	17.5	20.9	24.6	31.6	32.6	35.3	37.2	40.5	39.3	37.2	34.4	29.2	23.3	14.2	449.3
<b>Parner</b>	15.0	15.9	17.5	20.8	24.7	28.1	31.4	33.8	36.0	35.8	35.6	34.6	31.6	26.5	20.0	12.8	420.3
<b>Pathardi</b>	15.0	16.6	17.6	21.1	24.9	32.1	33.0	35.8	37.5	41.2	39.9	37.8	34.9	29.5	23.6	14.4	455.0
<b>Rahuri</b>	15.3	16.1	17.8	21.1	25.0	28.6	31.6	34.3	36.8	36.6	36.1	35.1	32.2	27.2	20.6	13.1	427.6
<b>Sangamner</b>	15.4	16.3	18.0	21.3	24.8	28.5	31.4	33.9	36.0	36.0	35.7	35.0	32.2	27.1	20.4	13.0	425.1
<b>Shevgaon</b>	15.1	16.8	17.5	21.1	24.8	33.0	33.1	36.0	37.7	42.4	40.9	38.4	35.4	30.3	24.5	14.8	461.7
<b>Shrigonda</b>	15.0	16.1	17.7	21.0	25.0	29.4	32.1	34.6	36.6	37.5	37.2	35.8	32.8	27.4	21.1	13.4	432.7
<b>Shrirampur</b>	15.0	16.2	17.6	20.9	24.2	29.7	31.7	34.3	36.3	37.9	37.1	35.8	32.7	27.9	21.7	13.5	432.2

**Table No. B-7: Taluka Wise Irrigation Water Requirement (mm) of *Rabi* Gram by Drip Irrigation at 90% efficiency in Ahmednagar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	13.9	14.9	16.3	19.3	23.0	27.0	29.7	31.8	33.6	34.2	33.9	32.7	29.8	24.9	19.1	12.1	396.2
<b>Akola</b>	13.7	14.4	16.1	19.4	22.7	26.1	29.0	31.7	33.7	34.0	34.5	34.8	31.8	27.1	20.6	13.4	402.9
<b>Karjat</b>	14.4	15.7	17.1	20.4	24.3	29.3	31.3	34.1	35.9	38.0	37.3	35.4	32.8	27.5	21.5	13.5	428.3
<b>Kopargaon</b>	13.8	14.9	16.4	19.6	21.4	27.1	29.1	31.3	33.0	34.3	33.6	32.8	29.5	25.5	19.6	12.3	394.1
<b>Nevasa</b>	14.1	15.6	16.5	19.7	23.3	29.9	30.7	33.4	35.1	38.2	37.1	35.1	32.5	27.6	22.0	13.5	424.3
<b>Parner</b>	14.1	15.0	16.6	19.7	23.3	26.6	29.6	31.9	34.0	33.8	33.7	32.7	29.9	25.0	18.9	12.1	396.9
<b>Pathardi</b>	14.2	15.7	16.6	19.9	23.6	30.3	31.2	33.8	35.4	38.9	37.7	35.7	32.9	27.9	22.3	13.6	429.7
<b>Rahuri</b>	14.4	15.2	16.8	19.9	23.6	27.1	29.8	32.4	34.7	34.6	34.1	33.2	30.4	25.7	19.5	12.4	403.8
<b>Sangamner</b>	14.5	15.4	17.0	20.1	23.4	27.0	29.7	32.1	34.0	34.0	33.7	33.1	30.4	25.6	19.3	12.3	401.5
<b>Shevgaon</b>	14.2	15.9	16.5	19.9	23.4	31.2	31.3	34.0	35.6	40.0	38.7	36.3	33.5	28.6	23.1	14.0	436.1
<b>Shrigonda</b>	14.1	15.2	16.7	19.8	23.6	27.7	30.3	32.7	34.6	35.4	35.1	33.8	31.0	25.9	19.9	12.6	408.7
<b>Shrirampur</b>	14.1	15.3	16.6	19.7	22.8	28.1	29.9	32.4	34.3	35.8	35.0	33.8	30.9	26.4	20.5	12.7	408.2

**Table No. B-8: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Ahmednagar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ahmadnagar</b>	13.1	14.2	15.4	18.3	21.8	25.6	28.2	30.1	31.8	32.4	32.1	31.0	28.3	23.6	18.1	11.5	375.3
<b>Akola</b>	13.0	13.7	15.3	18.3	21.5	24.7	27.4	30.0	32.0	32.2	32.7	33.0	30.1	25.6	19.5	12.7	381.7
<b>Karjat</b>	13.6	14.8	16.2	19.3	23.0	27.8	29.7	32.3	34.0	36.0	35.3	33.6	31.1	26.0	20.3	12.8	405.8
<b>Kopargaon</b>	13.1	14.1	15.6	18.5	20.3	25.6	27.5	29.7	31.3	32.5	31.8	31.1	28.0	24.1	18.6	11.6	373.4
<b>Nevasa</b>	13.4	14.8	15.7	18.7	22.1	28.3	29.1	31.6	33.3	36.2	35.2	33.3	30.8	26.1	20.8	12.7	402.0
<b>Parner</b>	13.4	14.2	15.7	18.6	22.1	25.2	28.1	30.2	32.2	32.1	31.9	31.0	28.3	23.7	17.9	11.5	376.0
<b>Pathardi</b>	13.5	14.9	15.8	18.9	22.3	28.7	29.5	32.0	33.5	36.8	35.7	33.8	31.2	26.4	21.1	12.9	407.1
<b>Rahuri</b>	13.7	14.4	15.9	18.9	22.3	25.6	28.3	30.7	32.9	32.8	32.3	31.4	28.8	24.4	18.4	11.7	382.6
<b>Sangamner</b>	13.8	14.5	16.1	19.1	22.2	25.5	28.1	30.4	32.2	32.2	31.9	31.3	28.8	24.3	18.3	11.6	380.4
<b>Shevgaon</b>	13.5	15.0	15.7	18.8	22.1	29.5	29.7	32.2	33.7	37.9	36.6	34.4	31.7	27.1	21.9	13.2	413.1
<b>Shrigonda</b>	13.4	14.4	15.8	18.8	22.4	26.3	28.7	31.0	32.8	33.6	33.3	32.0	29.4	24.5	18.9	12.0	387.2
<b>Shrirampur</b>	13.4	14.5	15.7	18.7	21.6	26.6	28.3	30.7	32.5	34.0	33.2	32.0	29.3	25.0	19.4	12.1	386.7

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Dhule District**

**Table No. B-9: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dhule</b>	13.6	14.1	15.1	17.8	21.2	24.8	26.6	28.7	29.7	29.1	30.1	29.0	25.1	22.5	17.1	10.8	355.3
<b>Sakri</b>	13.0	13.3	14.8	17.8	20.8	24.0	26.3	28.6	28.7	27.5	29.4	28.6	25.8	21.9	16.9	10.6	348.1
<b>Shirpur</b>	13.0	13.6	14.8	17.7	20.9	24.8	26.6	29.0	29.9	30.1	30.9	30.0	26.9	23.3	18.0	11.3	361.0
<b>Sindkheda</b>	13.2	13.6	14.9	17.8	21.0	24.4	26.5	28.8	29.2	28.5	30.0	29.0	25.7	22.4	17.2	10.8	352.9

**Table No. B-10: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dhule</b>	33.9	35.2	37.8	44.5	53.1	61.9	66.4	71.9	74.3	72.8	75.3	72.6	62.7	56.3	42.6	27.0	888.3
<b>Sakri</b>	32.5	33.3	37.0	44.5	52.0	59.9	65.9	71.6	71.7	68.9	73.6	71.5	64.5	54.8	42.2	26.4	870.2
<b>Shirpur</b>	32.5	34.1	37.1	44.3	52.3	62.0	66.6	72.6	74.9	75.1	77.2	75.0	67.2	58.2	45.1	28.3	902.6
<b>Sindkheda</b>	33.0	34.1	37.3	44.4	52.5	61.0	66.2	71.9	73.1	71.3	74.9	72.5	64.3	55.9	42.9	27.0	882.2

**Table No. B-11: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gramby Surface Irrigation at 50% efficiency in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dhule</b>	27.1	28.1	30.3	35.6	42.5	49.5	53.1	57.5	59.4	58.2	60.2	58.0	50.2	45.0	34.1	21.6	710.6
<b>Sakri</b>	26.0	26.7	29.6	35.6	41.6	47.9	52.7	57.3	57.4	55.1	58.8	57.2	51.6	43.8	33.8	21.1	696.2
<b>Shirpur</b>	26.0	27.3	29.7	35.4	41.8	49.6	53.3	58.1	59.9	60.1	61.7	60.0	53.8	46.6	36.0	22.7	722.0
<b>Sindkheda</b>	26.4	27.3	29.8	35.5	42.0	48.8	53.0	57.5	58.5	57.0	59.9	58.0	51.4	44.7	34.3	21.6	705.8

**Table No. B-12: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gramby Surface Irrigation at 60% efficiency in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dhule</b>	22.6	23.4	25.2	29.7	35.4	41.3	44.3	47.9	49.5	48.5	50.2	48.4	41.8	37.5	28.4	18.0	592.2
<b>Sakri</b>	21.7	22.2	24.7	29.6	34.7	39.9	43.9	47.7	47.8	45.9	49.0	47.7	43.0	36.5	28.2	17.6	580.2
<b>Shirpur</b>	21.7	22.7	24.7	29.5	34.9	41.3	44.4	48.4	49.9	50.1	51.5	50.0	44.8	38.8	30.0	18.9	601.7
<b>Sindkheda</b>	22.0	22.7	24.8	29.6	35.0	40.7	44.1	47.9	48.7	47.5	49.9	48.3	42.8	37.3	28.6	18.0	588.1



**Table No. B-13: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dhule</b>	17.0	17.6	18.9	22.3	26.5	30.9	33.2	35.9	37.1	36.4	37.6	36.3	31.4	28.1	21.3	13.5	444.1
<b>Sakri</b>	16.2	16.7	18.5	22.2	26.0	29.9	32.9	35.8	35.9	34.4	36.8	35.8	32.3	27.4	21.1	13.2	435.1
<b>Shirpur</b>	16.3	17.0	18.5	22.1	26.1	31.0	33.3	36.3	37.4	37.6	38.6	37.5	33.6	29.1	22.5	14.2	451.3
<b>Sindkheda</b>	16.5	17.1	18.6	22.2	26.2	30.5	33.1	36.0	36.5	35.6	37.5	36.2	32.1	28.0	21.5	13.5	441.1

**Table No. B-14: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dhule</b>	16.0	16.5	17.8	20.9	25.0	29.1	31.3	33.8	35.0	34.3	35.4	34.1	29.5	26.5	20.1	12.7	418.0
<b>Sakri</b>	15.3	15.7	17.4	20.9	24.5	28.2	31.0	33.7	33.7	32.4	34.6	33.7	30.4	25.8	19.9	12.4	409.5
<b>Shirpur</b>	15.3	16.0	17.5	20.8	24.6	29.2	31.3	34.2	35.2	35.4	36.3	35.3	31.6	27.4	21.2	13.3	424.7
<b>Sindkheda</b>	15.5	16.1	17.5	20.9	24.7	28.7	31.1	33.8	34.4	33.5	35.3	34.1	30.2	26.3	20.2	12.7	415.2

**Table No. B-15: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
Dhule	15.1	15.6	16.8	19.8	23.6	27.5	29.5	31.9	33.0	32.4	33.5	32.2	27.9	25.0	18.9	12.0	394.8
Sakri	14.4	14.8	16.4	19.8	23.1	26.6	29.3	31.8	31.9	30.6	32.7	31.8	28.7	24.4	18.8	11.7	386.8
Shirpur	14.5	15.1	16.5	19.7	23.2	27.6	29.6	32.3	33.3	33.4	34.3	33.3	29.9	25.9	20.0	12.6	401.1
Sindkheda	14.7	15.2	16.6	19.7	23.3	27.1	29.4	32.0	32.5	31.7	33.3	32.2	28.6	24.8	19.1	12.0	392.1

**Table No. B-16: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Dhule District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
Dhule	14.3	14.8	15.9	18.7	22.3	26.1	28.0	30.3	31.3	30.7	31.7	30.6	26.4	23.7	17.9	11.4	374.0
Sakri	13.7	14.0	15.6	18.7	21.9	25.2	27.7	30.1	30.2	29.0	31.0	30.1	27.2	23.1	17.8	11.1	366.4
Shirpur	13.7	14.4	15.6	18.6	22.0	26.1	28.0	30.6	31.5	31.6	32.5	31.6	28.3	24.5	19.0	11.9	380.0
Sindkheda	13.9	14.4	15.7	18.7	22.1	25.7	27.9	30.3	30.8	30.0	31.5	30.5	27.1	23.5	18.1	11.4	371.5

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Jalgaon District**

**Table No. B-17: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	13.2	13.9	15.0	17.8	21.1	25.3	26.8	29.1	30.3	30.8	31.2	30.2	26.8	23.5	18.1	11.4	364.4
<b>Bhadgaon</b>	12.8	14.0	14.8	17.6	20.9	26.8	27.3	29.7	31.2	33.9	33.2	31.7	28.7	24.9	19.8	12.1	379.6
<b>Bhusawal</b>	12.8	13.4	14.9	17.7	20.7	24.1	26.6	29.1	31.0	31.3	31.3	31.4	28.6	24.6	18.8	12.2	368.5
<b>Chalisgaon</b>	12.8	14.1	14.9	17.7	21.0	27.3	27.4	29.8	31.1	34.2	33.3	31.5	28.7	24.8	19.8	12.0	380.4
<b>Chopda</b>	13.0	13.8	15.0	17.8	21.0	25.0	26.8	29.2	30.7	31.3	31.4	30.8	27.8	24.1	18.6	11.8	368.1
<b>Edalabad</b>	12.1	12.6	14.1	17.1	20.0	23.5	26.0	28.8	30.8	31.4	31.7	32.4	29.3	25.4	19.5	12.6	367.4
<b>Erandol</b>	13.0	13.9	15.0	17.8	21.0	25.6	27.0	29.4	31.1	32.4	32.1	31.2	28.3	24.4	19.0	12.0	373.4
<b>Jamner</b>	12.4	13.3	14.5	17.4	20.4	25.0	26.6	29.3	31.1	32.7	32.4	32.1	29.2	25.1	19.6	12.4	373.6
<b>Pachora</b>	12.7	14.0	14.7	17.6	20.9	27.1	27.3	29.8	31.3	34.7	33.6	32.2	29.2	25.2	20.1	12.3	382.7
<b>Parola</b>	13.1	14.0	14.9	17.7	21.1	25.9	27.0	29.4	30.6	32.0	31.9	30.7	27.4	24.0	18.7	11.7	370.0
<b>Raver</b>	12.5	13.1	14.6	17.5	20.4	23.9	26.3	28.9	30.9	31.4	31.5	31.8	28.9	24.9	19.1	12.3	368.0
<b>Yawal</b>	13.3	13.9	15.3	18.2	21.2	24.5	26.9	29.1	31.1	31.1	31.1	30.7	28.0	24.0	18.3	11.8	368.5

**Table No. B-18: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	33.0	34.8	37.5	44.4	52.7	63.1	67.0	72.8	75.8	77.0	78.0	75.4	66.9	58.8	45.3	28.5	911.1
<b>Bhadgaon</b>	32.0	35.1	37.0	44.0	52.3	67.0	68.2	74.4	77.9	84.8	82.9	79.3	71.9	62.3	49.4	30.3	948.9
<b>Bhusawal</b>	32.0	33.5	37.1	44.4	51.7	60.3	66.4	72.7	77.5	78.2	78.3	78.6	71.5	61.5	47.1	30.4	921.2
<b>Chalisgaon</b>	32.1	35.3	37.3	44.2	52.4	68.1	68.5	74.5	77.8	85.4	83.3	78.8	71.6	62.0	49.5	30.0	951.0
<b>Chopda</b>	32.6	34.4	37.5	44.6	52.4	62.4	67.0	73.0	76.8	78.3	78.6	77.0	69.6	60.2	46.4	29.4	920.3
<b>Edalabad</b>	30.2	31.6	35.4	42.8	49.9	58.7	65.0	72.1	77.0	78.6	79.3	80.9	73.2	63.4	48.8	31.6	918.4
<b>Erandol</b>	32.5	34.8	37.5	44.6	52.6	64.1	67.6	73.6	77.6	81.1	80.2	78.1	70.8	61.1	47.5	29.9	933.5
<b>Jamner</b>	31.1	33.3	36.1	43.5	51.1	62.6	66.6	73.3	77.8	81.8	80.9	80.3	72.9	62.8	49.1	31.1	934.1
<b>Pachora</b>	31.7	35.1	36.7	43.9	52.1	67.8	68.3	74.5	78.2	86.7	83.9	80.6	73.1	63.0	50.3	30.8	956.8
<b>Parola</b>	32.7	35.0	37.3	44.3	52.6	64.7	67.5	73.4	76.6	79.9	79.8	76.8	68.5	60.0	46.8	29.1	925.1
<b>Raver</b>	31.2	32.8	36.4	43.7	51.0	59.7	65.8	72.3	77.3	78.4	78.8	79.5	72.2	62.2	47.7	30.8	920.0
<b>Yawal</b>	33.2	34.8	38.4	45.4	52.9	61.3	67.1	72.8	77.7	77.7	77.6	76.8	70.1	60.1	45.8	29.5	921.3

**Table No. B-19: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 50% efficiency in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	26.4	27.9	30.0	35.5	42.2	50.5	53.6	58.3	60.6	61.6	62.4	60.3	53.5	47.0	36.3	22.8	728.9
<b>Bhadgaon</b>	25.6	28.1	29.6	35.2	41.9	53.6	54.6	59.5	62.4	67.8	66.3	63.4	57.5	49.8	39.5	24.3	759.1
<b>Bhusawal</b>	25.6	26.8	29.7	35.5	41.4	48.2	53.1	58.1	62.0	62.5	62.7	62.9	57.2	49.2	37.7	24.3	736.9
<b>Chalisgaon</b>	25.7	28.3	29.8	35.3	41.9	54.5	54.8	59.6	62.3	68.3	66.6	63.1	57.3	49.6	39.6	24.0	760.8
<b>Chopda</b>	26.1	27.5	30.0	35.7	41.9	49.9	53.6	58.4	61.5	62.6	62.9	61.6	55.7	48.1	37.1	23.6	736.2
<b>Edalabad</b>	24.1	25.3	28.3	34.2	39.9	46.9	52.0	57.7	61.6	62.9	63.4	64.7	58.6	50.7	39.0	25.2	734.8
<b>Erandol</b>	26.0	27.9	30.0	35.7	42.0	51.3	54.1	58.8	62.1	64.9	64.1	62.4	56.6	48.9	38.0	23.9	746.8
<b>Jamner</b>	24.8	26.6	28.9	34.8	40.9	50.0	53.3	58.6	62.2	65.4	64.7	64.2	58.3	50.2	39.3	24.9	747.3
<b>Pachora</b>	25.3	28.1	29.3	35.2	41.7	54.2	54.7	59.6	62.6	69.4	67.1	64.4	58.5	50.4	40.3	24.7	765.5
<b>Parola</b>	26.2	28.0	29.9	35.4	42.1	51.7	54.0	58.7	61.3	64.0	63.9	61.4	54.8	48.0	37.4	23.3	740.1
<b>Raver</b>	25.0	26.2	29.1	35.0	40.8	47.8	52.6	57.9	61.8	62.7	63.0	63.6	57.7	49.8	38.2	24.7	736.0
<b>Yawal</b>	26.6	27.8	30.7	36.3	42.4	49.1	53.7	58.2	62.1	62.2	62.1	61.4	56.0	48.1	36.7	23.6	737.0

**Table No. B-20: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	22.0	23.2	25.0	29.6	35.1	42.1	44.7	48.5	50.5	51.3	52.0	50.3	44.6	39.2	30.2	19.0	607.4
<b>Bhadgaon</b>	21.3	23.4	24.7	29.4	34.9	44.7	45.5	49.6	52.0	56.5	55.3	52.9	47.9	41.5	32.9	20.2	632.6
<b>Bhusawal</b>	21.3	22.3	24.8	29.6	34.5	40.2	44.3	48.5	51.7	52.1	52.2	52.4	47.7	41.0	31.4	20.3	614.1
<b>Chalisgaon</b>	21.4	23.6	24.8	29.4	34.9	45.4	45.7	49.7	51.9	57.0	55.5	52.6	47.8	41.4	33.0	20.0	634.0
<b>Chopda</b>	21.7	23.0	25.0	29.7	34.9	41.6	44.7	48.7	51.2	52.2	52.4	51.3	46.4	40.1	30.9	19.6	613.5
<b>Edalabad</b>	20.1	21.1	23.6	28.5	33.3	39.1	43.3	48.1	51.4	52.4	52.8	54.0	48.8	42.3	32.5	21.0	612.3
<b>Erandol</b>	21.7	23.2	25.0	29.7	35.0	42.7	45.0	49.0	51.8	54.1	53.5	52.0	47.2	40.7	31.7	19.9	622.3
<b>Jamner</b>	20.7	22.2	24.1	29.0	34.1	41.7	44.4	48.9	51.8	54.5	53.9	53.5	48.6	41.9	32.7	20.7	622.7
<b>Pachora</b>	21.1	23.4	24.4	29.3	34.8	45.2	45.5	49.7	52.2	57.8	55.9	53.7	48.7	42.0	33.6	20.6	637.9
<b>Parola</b>	21.8	23.3	24.9	29.5	35.1	43.1	45.0	48.9	51.1	53.3	53.2	51.2	45.7	40.0	31.2	19.4	616.7
<b>Raver</b>	20.8	21.8	24.3	29.2	34.0	39.8	43.9	48.2	51.5	52.3	52.5	53.0	48.1	41.5	31.8	20.6	613.3
<b>Yawal</b>	22.1	23.2	25.6	30.3	35.3	40.9	44.8	48.5	51.8	51.8	51.8	51.2	46.7	40.1	30.6	19.7	614.2

**Table No. B-21: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	16.5	17.4	18.7	22.2	26.4	31.6	33.5	36.4	37.9	38.5	39.0	37.7	33.4	29.4	22.7	14.3	455.6
<b>Bhadgaon</b>	16.0	17.5	18.5	22.0	26.2	33.5	34.1	37.2	39.0	42.4	41.4	39.6	35.9	31.1	24.7	15.2	474.4
<b>Bhusawal</b>	16.0	16.7	18.6	22.2	25.9	30.1	33.2	36.3	38.8	39.1	39.2	39.3	35.8	30.8	23.5	15.2	460.6
<b>Chalisgaon</b>	16.0	17.7	18.6	22.1	26.2	34.1	34.3	37.3	38.9	42.7	41.6	39.4	35.8	31.0	24.8	15.0	475.5
<b>Chopda</b>	16.3	17.2	18.7	22.3	26.2	31.2	33.5	36.5	38.4	39.2	39.3	38.5	34.8	30.1	23.2	14.7	460.1
<b>Edalabad</b>	15.1	15.8	17.7	21.4	25.0	29.3	32.5	36.0	38.5	39.3	39.6	40.5	36.6	31.7	24.4	15.8	459.2
<b>Erandol</b>	16.3	17.4	18.8	22.3	26.3	32.0	33.8	36.8	38.8	40.5	40.1	39.0	35.4	30.5	23.8	14.9	466.8
<b>Jamner</b>	15.5	16.7	18.1	21.7	25.6	31.3	33.3	36.6	38.9	40.9	40.5	40.1	36.5	31.4	24.5	15.5	467.1
<b>Pachora</b>	15.8	17.5	18.3	22.0	26.1	33.9	34.2	37.3	39.1	43.4	42.0	40.3	36.5	31.5	25.2	15.4	478.4
<b>Parola</b>	16.4	17.5	18.7	22.1	26.3	32.3	33.7	36.7	38.3	40.0	39.9	38.4	34.3	30.0	23.4	14.6	462.6
<b>Raver</b>	15.6	16.4	18.2	21.9	25.5	29.9	32.9	36.2	38.6	39.2	39.4	39.8	36.1	31.1	23.9	15.4	460.0
<b>Yawal</b>	16.6	17.4	19.2	22.7	26.5	30.7	33.6	36.4	38.8	38.8	38.8	38.4	35.0	30.1	22.9	14.8	460.7

**Table No. B-22: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	15.5	16.4	17.6	20.9	24.8	29.7	31.5	34.3	35.7	36.2	36.7	35.5	31.5	27.7	21.3	13.4	428.8
<b>Bhadgaon</b>	15.1	16.5	17.4	20.7	24.6	31.5	32.1	35.0	36.7	39.9	39.0	37.3	33.8	29.3	23.3	14.3	446.5
<b>Bhusawal</b>	15.0	15.8	17.5	20.9	24.3	28.4	31.2	34.2	36.5	36.8	36.9	37.0	33.7	29.0	22.2	14.3	433.5
<b>Chalisgaon</b>	15.1	16.6	17.5	20.8	24.7	32.1	32.3	35.1	36.6	40.2	39.2	37.1	33.7	29.2	23.3	14.1	447.5
<b>Chopda</b>	15.3	16.2	17.6	21.0	24.7	29.4	31.5	34.3	36.2	36.9	37.0	36.2	32.8	28.3	21.8	13.9	433.1
<b>Edalabad</b>	14.2	14.9	16.6	20.1	23.5	27.6	30.6	33.9	36.3	37.0	37.3	38.1	34.5	29.8	23.0	14.8	432.2
<b>Erandol</b>	15.3	16.4	17.7	21.0	24.7	30.2	31.8	34.6	36.5	38.2	37.7	36.7	33.3	28.7	22.4	14.1	439.3
<b>Jamner</b>	14.6	15.7	17.0	20.5	24.0	29.4	31.3	34.5	36.6	38.5	38.1	37.8	34.3	29.6	23.1	14.6	439.6
<b>Pachora</b>	14.9	16.5	17.3	20.7	24.5	31.9	32.1	35.1	36.8	40.8	39.5	37.9	34.4	29.7	23.7	14.5	450.3
<b>Parola</b>	15.4	16.5	17.6	20.8	24.8	30.4	31.7	34.5	36.0	37.6	37.6	36.1	32.3	28.2	22.0	13.7	435.3
<b>Raver</b>	14.7	15.4	17.1	20.6	24.0	28.1	31.0	34.0	36.4	36.9	37.1	37.4	34.0	29.3	22.5	14.5	432.9
<b>Yawal</b>	15.6	16.4	18.1	21.4	24.9	28.9	31.6	34.3	36.5	36.6	36.5	36.1	33.0	28.3	21.6	13.9	433.6



**Table No. B-23: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	14.7	15.5	16.7	19.7	23.4	28.1	29.8	32.4	33.7	34.2	34.7	33.5	29.7	26.1	20.1	12.7	404.9
<b>Bhadgaon</b>	14.2	15.6	16.4	19.6	23.3	29.8	30.3	33.1	34.6	37.7	36.8	35.2	31.9	27.7	22.0	13.5	421.7
<b>Bhusawal</b>	14.2	14.9	16.5	19.7	23.0	26.8	29.5	32.3	34.5	34.7	34.8	34.9	31.8	27.3	20.9	13.5	409.4
<b>Chalisgaon</b>	14.3	15.7	16.6	19.6	23.3	30.3	30.5	33.1	34.6	38.0	37.0	35.0	31.8	27.6	22.0	13.3	422.7
<b>Chopda</b>	14.5	15.3	16.7	19.8	23.3	27.7	29.8	32.4	34.1	34.8	34.9	34.2	30.9	26.7	20.6	13.1	409.0
<b>Edalabad</b>	13.4	14.1	15.7	19.0	22.2	26.1	28.9	32.0	34.2	34.9	35.2	36.0	32.5	28.2	21.7	14.0	408.2
<b>Erandol</b>	14.5	15.5	16.7	19.8	23.4	28.5	30.0	32.7	34.5	36.0	35.6	34.7	31.5	27.1	21.1	13.3	414.9
<b>Jamner</b>	13.8	14.8	16.1	19.3	22.7	27.8	29.6	32.6	34.6	36.4	36.0	35.7	32.4	27.9	21.8	13.8	415.2
<b>Pachora</b>	14.1	15.6	16.3	19.5	23.2	30.1	30.4	33.1	34.8	38.5	37.3	35.8	32.5	28.0	22.4	13.7	425.3
<b>Parola</b>	14.5	15.6	16.6	19.7	23.4	28.7	30.0	32.6	34.0	35.5	35.5	34.1	30.5	26.7	20.8	13.0	411.2
<b>Raver</b>	13.9	14.6	16.2	19.4	22.7	26.5	29.2	32.1	34.4	34.9	35.0	35.3	32.1	27.7	21.2	13.7	408.9
<b>Yawal</b>	14.8	15.5	17.1	20.2	23.5	27.3	29.8	32.4	34.5	34.5	34.5	34.1	31.1	26.7	20.4	13.1	409.5

**Table No. B-24: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Jalgaon District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Amalner</b>	13.9	14.7	15.8	18.7	22.2	26.6	28.2	30.7	31.9	32.4	32.9	31.7	28.2	24.7	19.1	12.0	383.6
<b>Bhadgaon</b>	13.5	14.8	15.6	18.5	22.0	28.2	28.7	31.3	32.8	35.7	34.9	33.4	30.3	26.2	20.8	12.8	399.5
<b>Bhusawal</b>	13.5	14.1	15.6	18.7	21.8	25.4	28.0	30.6	32.6	32.9	33.0	33.1	30.1	25.9	19.8	12.8	387.9
<b>Chalisgaon</b>	13.5	14.9	15.7	18.6	22.1	28.7	28.9	31.4	32.8	36.0	35.1	33.2	30.2	26.1	20.9	12.6	400.4
<b>Chopda</b>	13.7	14.5	15.8	18.8	22.1	26.3	28.2	30.7	32.3	33.0	33.1	32.4	29.3	25.3	19.5	12.4	387.5
<b>Edalabad</b>	12.7	13.3	14.9	18.0	21.0	24.7	27.4	30.4	32.4	33.1	33.4	34.1	30.8	26.7	20.5	13.3	386.7
<b>Erandol</b>	13.7	14.7	15.8	18.8	22.1	27.0	28.5	31.0	32.7	34.1	33.8	32.9	29.8	25.7	20.0	12.6	393.1
<b>Jamner</b>	13.1	14.0	15.2	18.3	21.5	26.3	28.0	30.9	32.7	34.4	34.1	33.8	30.7	26.4	20.7	13.1	393.3
<b>Pachora</b>	13.3	14.8	15.4	18.5	22.0	28.5	28.8	31.4	32.9	36.5	35.3	33.9	30.8	26.5	21.2	13.0	402.9
<b>Parola</b>	13.8	14.7	15.7	18.6	22.2	27.2	28.4	30.9	32.3	33.7	33.6	32.3	28.9	25.3	19.7	12.3	389.5
<b>Raver</b>	13.1	13.8	15.3	18.4	21.5	25.1	27.7	30.5	32.5	33.0	33.2	33.5	30.4	26.2	20.1	13.0	387.4
<b>Yawal</b>	14.0	14.7	16.2	19.1	22.3	25.8	28.3	30.7	32.7	32.7	32.7	32.3	29.5	25.3	19.3	12.4	387.9

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Kolhapur District**

**Table No. B-25: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	10.0	11.5	15.9	18.7	20.4	25.4	25.5	25.0	26.0	30.9	29.1	25.7	23.0	20.0	18.7	11.7	337.5
<b>Bavda</b>	12.5	13.2	15.5	18.4	21.1	24.5	26.7	28.4	30.7	32.2	31.1	30.7	28.2	23.2	17.8	11.4	365.6
<b>Chandgad</b>	10.6	11.9	15.8	18.6	20.6	25.3	25.8	25.7	26.6	31.2	29.3	26.8	24.2	20.7	18.4	11.6	343.1
<b>Gadhinglaj</b>	9.5	11.2	15.9	18.8	20.2	25.6	25.3	24.4	25.4	30.7	28.8	24.7	22.0	19.4	18.9	11.8	332.3
<b>Gargoti</b>	10.7	12.0	15.8	18.6	20.6	25.2	25.9	26.0	27.1	31.3	29.6	27.2	24.6	20.9	18.4	11.6	345.5
<b>Hatkanangale</b>	12.8	13.4	15.7	18.7	21.4	25.2	27.0	28.3	28.1	32.6	30.0	31.4	28.9	23.4	17.7	11.4	365.9
<b>Kagal</b>	11.2	12.3	15.7	18.7	20.9	25.2	26.3	26.8	27.8	31.6	29.9	28.3	25.7	21.6	18.2	11.5	351.8
<b>Kolhapur</b>	12.6	13.1	15.6	18.6	21.7	24.7	27.4	29.5	31.2	32.4	31.7	31.2	28.7	23.3	17.8	11.4	370.9
<b>Panhala</b>	13.0	13.5	15.5	18.3	21.1	24.3	27.0	29.0	32.5	32.5	31.8	31.5	28.9	23.8	17.8	11.4	371.9
<b>Radhanagari</b>	11.9	12.8	15.6	18.5	21.0	24.8	26.5	27.6	29.0	31.9	30.5	29.4	26.9	22.4	18.0	11.4	358.1
<b>Shahuwadi</b>	13.0	13.6	15.3	18.1	20.7	24.0	26.6	28.5	32.3	32.3	31.7	31.4	28.9	23.9	17.7	11.3	369.2
<b>Shirol</b>	12.9	13.9	16.0	18.9	21.2	26.3	26.2	25.9	21.6	32.9	26.6	31.4	29.0	23.4	17.6	11.4	355.0

**Table No. B-26: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	25.0	28.8	39.6	46.7	51.0	63.5	63.8	62.6	65.0	77.3	72.7	64.2	57.6	50.0	46.6	29.2	843.8
<b>Bavda</b>	31.4	33.1	38.7	45.9	52.7	61.3	66.9	70.9	76.7	80.4	77.8	76.8	70.5	58.1	44.5	28.4	914.0
<b>Chandgad</b>	26.4	29.9	39.5	46.6	51.4	63.2	64.4	64.3	66.5	77.9	73.4	67.0	60.6	51.8	46.0	29.0	857.8
<b>Gadhinglaj</b>	23.7	27.9	39.8	46.9	50.6	63.9	63.2	61.1	63.4	76.8	72.0	61.6	55.0	48.4	47.1	29.4	830.8
<b>Gargoti</b>	26.9	30.1	39.4	46.6	51.6	63.0	64.7	65.0	67.7	78.2	73.9	68.0	61.5	52.4	45.9	28.9	863.7
<b>Hatkanangale</b>	31.9	33.6	39.2	46.7	53.6	63.0	67.4	70.7	70.4	81.4	75.0	78.4	72.2	58.6	44.2	28.5	914.7
<b>Kagal</b>	28.1	30.8	39.4	46.6	52.3	62.9	65.7	67.1	69.5	79.1	74.9	70.6	64.2	53.9	45.5	28.9	879.5
<b>Kolhapur</b>	31.5	32.8	38.9	46.6	54.2	61.9	68.6	73.7	78.1	81.0	79.2	78.0	71.6	58.3	44.4	28.5	927.2
<b>Panhala</b>	32.4	33.8	38.6	45.7	52.8	60.8	67.5	72.6	81.3	81.2	79.6	78.7	72.4	59.6	44.5	28.4	929.8
<b>Radhanagari</b>	29.7	31.9	39.0	46.3	52.5	62.1	66.2	68.9	72.6	79.6	76.1	73.6	67.3	55.9	45.0	28.6	895.3
<b>Shahuwadi</b>	32.5	34.0	38.3	45.2	51.8	60.0	66.5	71.3	80.7	80.8	79.1	78.5	72.2	59.6	44.3	28.2	923.1
<b>Shirol</b>	32.2	34.7	40.1	47.3	52.9	65.8	65.4	64.9	53.9	82.1	66.6	78.5	72.4	58.4	43.9	28.6	887.6

**Table No. B-27: Taluka Wise Irrigation Water Requirement (mm) of rabi Gram by Surface Irrigation at 50% efficiency in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	20.0	23.0	31.7	37.4	40.8	50.8	51.0	50.1	52.0	61.9	58.2	51.3	46.1	40.0	37.3	23.4	675.0
<b>Bavda</b>	25.1	26.4	31.0	36.7	42.1	49.0	53.5	56.8	61.4	64.4	62.2	61.4	56.4	46.5	35.6	22.7	731.2
<b>Chandgad</b>	21.2	23.9	31.6	37.3	41.2	50.5	51.5	51.4	53.2	62.4	58.7	53.6	48.5	41.4	36.8	23.2	686.2
<b>Gadhinglaj</b>	18.9	22.3	31.9	37.5	40.5	51.1	50.6	48.8	50.7	61.4	57.6	49.3	44.0	38.7	37.7	23.5	664.7
<b>Gargoti</b>	21.5	24.1	31.5	37.2	41.3	50.4	51.8	52.0	54.1	62.6	59.1	54.4	49.2	41.9	36.7	23.2	691.0
<b>Hatkanangale</b>	25.5	26.9	31.4	37.3	42.9	50.4	53.9	56.5	56.3	65.1	60.0	62.7	57.7	46.9	35.4	22.8	731.7
<b>Kagal</b>	22.5	24.7	31.5	37.3	41.8	50.3	52.6	53.7	55.6	63.2	59.9	56.5	51.4	43.1	36.4	23.1	703.6
<b>Kolhapur</b>	25.2	26.2	31.1	37.2	43.4	49.5	54.9	59.0	62.5	64.8	63.3	62.4	57.3	46.7	35.5	22.8	741.8
<b>Panhala</b>	25.9	27.0	30.9	36.6	42.2	48.6	54.0	58.1	65.1	65.0	63.7	63.0	57.9	47.7	35.6	22.7	743.9
<b>Radhanagari</b>	23.7	25.5	31.2	37.0	42.0	49.7	53.0	55.1	58.1	63.7	60.9	58.9	53.8	44.8	36.0	22.9	716.2
<b>Shahuwadi</b>	26.0	27.2	30.7	36.2	41.5	48.0	53.2	57.0	64.5	64.6	63.3	62.8	57.7	47.7	35.4	22.6	738.5
<b>Shirol</b>	25.8	27.8	32.0	37.8	42.3	52.6	52.3	51.9	43.1	65.7	53.3	62.8	57.9	46.7	35.2	22.8	710.1

**Table No. B-28: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	16.6	19.2	26.4	31.2	34.0	42.4	42.5	41.7	43.3	51.6	48.5	42.8	38.4	33.3	31.1	19.5	562.5
<b>Bavda</b>	20.9	22.0	25.8	30.6	35.1	40.9	44.6	47.3	51.1	53.6	51.9	51.2	47.0	38.7	29.7	18.9	609.3
<b>Chandgad</b>	17.6	19.9	26.3	31.1	34.3	42.1	42.9	42.8	44.3	52.0	48.9	44.7	40.4	34.5	30.7	19.3	571.9
<b>Gadhinglaj</b>	15.8	18.6	26.5	31.3	33.7	42.6	42.1	40.7	42.3	51.2	48.0	41.1	36.7	32.3	31.4	19.6	553.9
<b>Gargoti</b>	17.9	20.1	26.3	31.0	34.4	42.0	43.1	43.3	45.1	52.2	49.3	45.3	41.0	34.9	30.6	19.3	575.8
<b>Hatkanangale</b>	21.3	22.4	26.2	31.1	35.7	42.0	44.9	47.1	46.9	54.3	50.0	52.3	48.1	39.1	29.5	19.0	609.8
<b>Kagal</b>	18.7	20.6	26.2	31.1	34.9	42.0	43.8	44.7	46.3	52.7	49.9	47.1	42.8	35.9	30.4	19.2	586.3
<b>Kolhapur</b>	21.0	21.8	26.0	31.0	36.1	41.2	45.7	49.2	52.1	54.0	52.8	52.0	47.8	38.9	29.6	19.0	618.1
<b>Panhala</b>	21.6	22.5	25.8	30.5	35.2	40.5	45.0	48.4	54.2	54.1	53.0	52.5	48.2	39.7	29.7	18.9	619.9
<b>Radhanagari</b>	19.8	21.3	26.0	30.8	35.0	41.4	44.1	45.9	48.4	53.1	50.8	49.1	44.8	37.3	30.0	19.1	596.9
<b>Shahuwadi</b>	21.7	22.6	25.6	30.1	34.6	40.0	44.3	47.5	53.8	53.9	52.8	52.3	48.1	39.8	29.5	18.8	615.4
<b>Shirol</b>	21.5	23.2	26.7	31.5	35.3	43.9	43.6	43.2	35.9	54.8	44.4	52.3	48.3	38.9	29.3	19.0	591.7

**Table No. B-29: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	12.5	14.4	19.8	23.4	25.5	31.8	31.9	31.3	32.5	38.7	36.4	32.1	28.8	25.0	23.3	14.6	421.9
<b>Bavda</b>	15.7	16.5	19.4	23.0	26.3	30.6	33.4	35.5	38.3	40.2	38.9	38.4	35.2	29.0	22.3	14.2	457.0
<b>Chandgad</b>	13.2	14.9	19.7	23.3	25.7	31.6	32.2	32.1	33.2	39.0	36.7	33.5	30.3	25.9	23.0	14.5	428.9
<b>Gadhinglaj</b>	11.8	14.0	19.9	23.4	25.3	31.9	31.6	30.5	31.7	38.4	36.0	30.8	27.5	24.2	23.6	14.7	415.4
<b>Gargoti</b>	13.4	15.0	19.7	23.3	25.8	31.5	32.3	32.5	33.8	39.1	37.0	34.0	30.8	26.2	23.0	14.5	431.9
<b>Hatkanangale</b>	16.0	16.8	19.6	23.3	26.8	31.5	33.7	35.3	35.2	40.7	37.5	39.2	36.1	29.3	22.1	14.2	457.3
<b>Kagal</b>	14.0	15.4	19.7	23.3	26.2	31.5	32.9	33.5	34.7	39.5	37.4	35.3	32.1	27.0	22.8	14.4	439.8
<b>Kolhapur</b>	15.7	16.4	19.5	23.3	27.1	30.9	34.3	36.9	39.1	40.5	39.6	39.0	35.8	29.2	22.2	14.2	463.6
<b>Panhala</b>	16.2	16.9	19.3	22.9	26.4	30.4	33.7	36.3	40.7	40.6	39.8	39.4	36.2	29.8	22.3	14.2	464.9
<b>Radhanagari</b>	14.8	16.0	19.5	23.1	26.2	31.0	33.1	34.4	36.3	39.8	38.1	36.8	33.6	28.0	22.5	14.3	447.7
<b>Shahuwadi</b>	16.3	17.0	19.2	22.6	25.9	30.0	33.3	35.6	40.3	40.4	39.6	39.2	36.1	29.8	22.1	14.1	461.5
<b>Shirol</b>	16.1	17.4	20.0	23.6	26.5	32.9	32.7	32.4	26.9	41.1	33.3	39.3	36.2	29.2	22.0	14.3	443.8

**Table No. B-30: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	11.7	13.6	18.7	22.0	24.0	29.9	30.0	29.5	30.6	36.4	34.2	30.2	27.1	23.5	21.9	13.7	397.1
<b>Bavda</b>	14.8	15.6	18.2	21.6	24.8	28.8	31.5	33.4	36.1	37.9	36.6	36.1	33.2	27.3	20.9	13.4	430.1
<b>Chandgad</b>	12.4	14.1	18.6	21.9	24.2	29.7	30.3	30.2	31.3	36.7	34.5	31.5	28.5	24.4	21.7	13.6	403.7
<b>Gadhinglaj</b>	11.1	13.1	18.7	22.1	23.8	30.1	29.7	28.7	29.8	36.1	33.9	29.0	25.9	22.8	22.2	13.8	391.0
<b>Gargoti</b>	12.6	14.2	18.5	21.9	24.3	29.6	30.4	30.6	31.8	36.8	34.8	32.0	28.9	24.6	21.6	13.6	406.5
<b>Hatkanangale</b>	15.0	15.8	18.5	22.0	25.2	29.6	31.7	33.3	33.1	38.3	35.3	36.9	34.0	27.6	20.8	13.4	430.4
<b>Kagal</b>	13.2	14.5	18.5	22.0	24.6	29.6	30.9	31.6	32.7	37.2	35.2	33.2	30.2	25.4	21.4	13.6	413.9
<b>Kolhapur</b>	14.8	15.4	18.3	21.9	25.5	29.1	32.3	34.7	36.8	38.1	37.3	36.7	33.7	27.5	20.9	13.4	436.3
<b>Panhala</b>	15.3	15.9	18.2	21.5	24.8	28.6	31.8	34.2	38.3	38.2	37.4	37.1	34.0	28.0	20.9	13.4	437.6
<b>Radhanagari</b>	14.0	15.0	18.4	21.8	24.7	29.2	31.2	32.4	34.2	37.5	35.8	34.6	31.7	26.3	21.2	13.5	421.3
<b>Shahuwadi</b>	15.3	16.0	18.0	21.3	24.4	28.2	31.3	33.5	38.0	38.0	37.2	36.9	34.0	28.1	20.8	13.3	434.4
<b>Shirol</b>	15.2	16.3	18.8	22.3	24.9	31.0	30.8	30.5	25.4	38.7	31.3	37.0	34.1	27.5	20.7	13.4	417.7



**Table No. B-31: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	11.1	12.8	17.6	20.8	22.7	28.2	28.3	27.8	28.9	34.4	32.3	28.5	25.6	22.2	20.7	13.0	375.0
<b>Bavda</b>	13.9	14.7	17.2	20.4	23.4	27.2	29.7	31.5	34.1	35.8	34.6	34.1	31.3	25.8	19.8	12.6	406.2
<b>Chandgad</b>	11.8	13.3	17.5	20.7	22.9	28.1	28.6	28.6	29.5	34.6	32.6	29.8	26.9	23.0	20.5	12.9	381.2
<b>Gadhinglaj</b>	10.5	12.4	17.7	20.8	22.5	28.4	28.1	27.1	28.2	34.1	32.0	27.4	24.4	21.5	21.0	13.1	369.3
<b>Gargoti</b>	11.9	13.4	17.5	20.7	22.9	28.0	28.8	28.9	30.1	34.8	32.9	30.2	27.3	23.3	20.4	12.9	383.9
<b>Hatkanangale</b>	14.2	14.9	17.4	20.7	23.8	28.0	30.0	31.4	31.3	36.2	33.4	34.8	32.1	26.0	19.6	12.7	406.5
<b>Kagal</b>	12.5	13.7	17.5	20.7	23.2	28.0	29.2	29.8	30.9	35.1	33.3	31.4	28.5	24.0	20.2	12.8	390.9
<b>Kolhapur</b>	14.0	14.6	17.3	20.7	24.1	27.5	30.5	32.8	34.7	36.0	35.2	34.7	31.8	25.9	19.7	12.7	412.1
<b>Panhala</b>	14.4	15.0	17.2	20.3	23.5	27.0	30.0	32.3	36.1	36.1	35.4	35.0	32.2	26.5	19.8	12.6	413.3
<b>Radhanagari</b>	13.2	14.2	17.3	20.6	23.3	27.6	29.4	30.6	32.3	35.4	33.8	32.7	29.9	24.9	20.0	12.7	397.9
<b>Shahuwadi</b>	14.5	15.1	17.0	20.1	23.0	26.7	29.6	31.7	35.9	35.9	35.2	34.9	32.1	26.5	19.7	12.5	410.3
<b>Shirol</b>	14.3	15.4	17.8	21.0	23.5	29.2	29.1	28.8	24.0	36.5	29.6	34.9	32.2	25.9	19.5	12.7	394.5

**Table No. B-32: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Kolhapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Ajra</b>	10.5	12.1	16.7	19.7	21.5	26.8	26.9	26.4	27.4	32.6	30.6	27.0	24.3	21.0	19.6	12.3	355.3
<b>Bavda</b>	13.2	13.9	16.3	19.3	22.2	25.8	28.2	29.9	32.3	33.9	32.8	32.3	29.7	24.5	18.7	12.0	384.8
<b>Chandgad</b>	11.1	12.6	16.6	19.6	21.7	26.6	27.1	27.1	28.0	32.8	30.9	28.2	25.5	21.8	19.4	12.2	361.2
<b>Gadhinglaj</b>	10.0	11.8	16.8	19.7	21.3	26.9	26.6	25.7	26.7	32.3	30.3	26.0	23.2	20.4	19.8	12.4	349.8
<b>Gargoti</b>	11.3	12.7	16.6	19.6	21.7	26.5	27.2	27.4	28.5	32.9	31.1	28.6	25.9	22.1	19.3	12.2	363.7
<b>Hatkanangale</b>	13.4	14.1	16.5	19.7	22.6	26.5	28.4	29.8	29.6	34.3	31.6	33.0	30.4	24.7	18.6	12.0	385.1
<b>Kagal</b>	11.8	13.0	16.6	19.6	22.0	26.5	27.7	28.2	29.3	33.3	31.5	29.7	27.0	22.7	19.2	12.1	370.3
<b>Kolhapur</b>	13.3	13.8	16.4	19.6	22.8	26.0	28.9	31.1	32.9	34.1	33.3	32.8	30.2	24.6	18.7	12.0	390.4
<b>Panhala</b>	13.7	14.2	16.3	19.2	22.2	25.6	28.4	30.6	34.2	34.2	33.5	33.2	30.5	25.1	18.7	11.9	391.5
<b>Radhanagari</b>	12.5	13.4	16.4	19.5	22.1	26.1	27.9	29.0	30.6	33.5	32.1	31.0	28.3	23.6	18.9	12.0	377.0
<b>Shahuwadi</b>	13.7	14.3	16.1	19.0	21.8	25.3	28.0	30.0	34.0	34.0	33.3	33.0	30.4	25.1	18.6	11.9	388.7
<b>Shirol</b>	13.6	14.6	16.9	19.9	22.3	27.7	27.5	27.3	22.7	34.6	28.0	33.1	30.5	24.6	18.5	12.0	373.7

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Nandurbar District**

**Table No. B-33: Taluka Wise Crop Water Requirement (mm) of *Rabi* Gram in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	12.8	13.0	14.6	17.8	20.7	23.5	26.2	28.5	28.1	26.4	29.0	28.2	25.6	21.4	16.6	10.4	342.8
<b>Dhadgaon</b>	12.9	13.1	14.7	17.7	20.7	23.8	26.3	28.6	28.3	27.1	29.4	28.5	25.9	21.8	16.9	10.5	346.2
<b>Nandurbar</b>	12.7	12.6	14.4	17.7	20.5	22.6	25.8	28.3	27.0	24.2	28.1	27.3	25.0	20.5	15.9	9.9	332.4
<b>Navapur</b>	12.9	13.1	14.7	17.8	20.7	23.6	26.2	28.5	28.3	26.7	29.1	28.3	25.8	21.6	16.7	10.4	344.3
<b>Shahada</b>	12.9	13.1	14.6	17.7	20.7	23.7	26.2	28.6	28.3	26.9	29.3	28.5	25.8	21.7	16.9	10.5	345.6
<b>Taloda</b>	12.7	12.7	14.5	17.7	20.6	22.9	26.0	28.4	27.4	25.0	28.4	27.6	25.2	20.9	16.2	10.1	336.4

**Table No. B-34: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	32.1	32.6	36.6	44.4	51.7	58.7	65.5	71.3	70.2	66.0	72.5	70.5	64.1	53.6	41.5	25.9	857.1
<b>Dhadgaon</b>	32.2	32.8	36.6	44.4	51.8	59.4	65.7	71.6	70.9	67.6	73.4	71.3	64.8	54.5	42.3	26.4	865.5
<b>Nandurbar</b>	31.8	31.4	36.0	44.2	51.3	56.4	64.6	70.7	67.4	60.5	70.2	68.3	62.4	51.3	39.8	24.9	831.0
<b>Navapur</b>	32.2	32.7	36.7	44.4	51.8	58.9	65.6	71.4	70.7	66.8	72.7	70.8	64.4	54.0	41.7	26.0	860.9
<b>Shahada</b>	32.2	32.8	36.6	44.3	51.8	59.2	65.6	71.6	70.8	67.2	73.3	71.2	64.5	54.3	42.1	26.3	863.9
<b>Taloda</b>	31.9	31.9	36.2	44.3	51.4	57.3	64.9	71.0	68.4	62.6	71.1	69.1	63.1	52.2	40.5	25.3	840.9

**Table No. B-35: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 50% efficiency in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	25.7	26.0	29.3	35.5	41.4	46.9	52.4	57.1	56.1	52.8	58.0	56.4	51.3	42.9	33.2	20.7	685.7
<b>Dhadgaon</b>	25.7	26.3	29.3	35.5	41.5	47.5	52.5	57.3	56.7	54.1	58.7	57.0	51.8	43.6	33.8	21.1	692.4
<b>Nandurbar</b>	25.4	25.2	28.8	35.4	41.0	45.1	51.7	56.6	53.9	48.4	56.2	54.6	49.9	41.1	31.9	19.9	664.8
<b>Navapur</b>	25.7	26.2	29.4	35.6	41.5	47.1	52.5	57.1	56.5	53.5	58.1	56.6	51.6	43.2	33.4	20.8	688.7
<b>Shahada</b>	25.8	26.2	29.3	35.4	41.5	47.4	52.5	57.3	56.6	53.8	58.6	56.9	51.6	43.5	33.7	21.1	691.1
<b>Taloda</b>	25.5	25.5	28.9	35.4	41.1	45.8	51.9	56.8	54.7	50.0	56.9	55.3	50.4	41.8	32.4	20.2	672.7

**Table No. B-36: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	21.4	21.7	24.4	29.6	34.5	39.1	43.6	47.6	46.8	44.0	48.3	47.0	42.7	35.7	27.7	17.3	571.4
<b>Dhadgaon</b>	21.4	21.9	24.4	29.6	34.5	39.6	43.8	47.7	47.2	45.1	48.9	47.5	43.2	36.3	28.2	17.6	577.0
<b>Nandurbar</b>	21.2	21.0	24.0	29.5	34.2	37.6	43.0	47.1	44.9	40.3	46.8	45.5	41.6	34.2	26.6	16.6	554.0
<b>Navapur</b>	21.4	21.8	24.5	29.6	34.5	39.3	43.7	47.6	47.1	44.5	48.4	47.2	43.0	36.0	27.8	17.4	573.9
<b>Shahada</b>	21.5	21.9	24.4	29.5	34.6	39.5	43.7	47.7	47.2	44.8	48.9	47.5	43.0	36.2	28.1	17.5	575.9
<b>Taloda</b>	21.2	21.2	24.1	29.5	34.3	38.2	43.3	47.3	45.6	41.7	47.4	46.1	42.0	34.8	27.0	16.8	560.6

**Table No. B-37: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	16.0	16.3	18.3	22.2	25.9	29.3	32.7	35.7	35.1	33.0	36.2	35.2	32.1	26.8	20.8	12.9	428.6
<b>Dhadgaon</b>	16.1	16.4	18.3	22.2	25.9	29.7	32.8	35.8	35.4	33.8	36.7	35.6	32.4	27.2	21.1	13.2	432.8
<b>Nandurbar</b>	15.9	15.7	18.0	22.1	25.6	28.2	32.3	35.4	33.7	30.2	35.1	34.1	31.2	25.7	19.9	12.4	415.5
<b>Navapur</b>	16.1	16.4	18.4	22.2	25.9	29.5	32.8	35.7	35.3	33.4	36.3	35.4	32.2	27.0	20.8	13.0	430.4
<b>Shahada</b>	16.1	16.4	18.3	22.1	25.9	29.6	32.8	35.8	35.4	33.6	36.7	35.6	32.2	27.2	21.1	13.2	431.9
<b>Taloda</b>	15.9	15.9	18.1	22.1	25.7	28.7	32.4	35.5	34.2	31.3	35.6	34.5	31.5	26.1	20.3	12.6	420.5

**Table No. B-38: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	15.1	15.3	17.2	20.9	24.3	27.6	30.8	33.6	33.0	31.1	34.1	33.2	30.2	25.2	19.5	12.2	403.3
<b>Dhadgaon</b>	15.1	15.4	17.2	20.9	24.4	28.0	30.9	33.7	33.3	31.8	34.5	33.5	30.5	25.6	19.9	12.4	407.3
<b>Nandurbar</b>	14.9	14.8	16.9	20.8	24.1	26.6	30.4	33.3	31.7	28.5	33.0	32.1	29.4	24.2	18.7	11.7	391.1
<b>Navapur</b>	15.1	15.4	17.3	20.9	24.4	27.7	30.9	33.6	33.3	31.4	34.2	33.3	30.3	25.4	19.6	12.3	405.1
<b>Shahada</b>	15.2	15.4	17.2	20.8	24.4	27.9	30.9	33.7	33.3	31.6	34.5	33.5	30.3	25.6	19.8	12.4	406.5
<b>Taloda</b>	15.0	15.0	17.0	20.8	24.2	27.0	30.5	33.4	32.2	29.4	33.5	32.5	29.7	24.6	19.1	11.9	395.7

**Table No. B-39: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	14.3	14.5	16.3	19.7	23.0	26.1	29.1	31.7	31.2	29.3	32.2	31.3	28.5	23.8	18.4	11.5	380.9
<b>Dhadgaon</b>	14.3	14.6	16.3	19.7	23.0	26.4	29.2	31.8	31.5	30.1	32.6	31.7	28.8	24.2	18.8	11.7	384.7
<b>Nandurbar</b>	14.1	14.0	16.0	19.6	22.8	25.1	28.7	31.4	29.9	26.9	31.2	30.3	27.7	22.8	17.7	11.0	369.4
<b>Navapur</b>	14.3	14.5	16.3	19.8	23.0	26.2	29.1	31.7	31.4	29.7	32.3	31.5	28.6	24.0	18.5	11.6	382.6
<b>Shahada</b>	14.3	14.6	16.3	19.7	23.0	26.3	29.2	31.8	31.4	29.9	32.6	31.6	28.7	24.2	18.7	11.7	384.0
<b>Taloda</b>	14.2	14.2	16.1	19.7	22.8	25.5	28.8	31.5	30.4	27.8	31.6	30.7	28.0	23.2	18.0	11.2	373.7

**Table No. B-40: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Nandurbar District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akkalkuva</b>	13.5	13.7	15.4	18.7	21.8	24.7	27.6	30.0	29.5	27.8	30.5	29.7	27.0	22.6	17.5	10.9	360.9
<b>Dhadgaon</b>	13.5	13.8	15.4	18.7	21.8	25.0	27.7	30.2	29.8	28.5	30.9	30.0	27.3	22.9	17.8	11.1	364.4
<b>Nandurbar</b>	13.4	13.2	15.1	18.6	21.6	23.8	27.2	29.8	28.4	25.5	29.6	28.7	26.3	21.6	16.8	10.5	349.9
<b>Navapur</b>	13.5	13.8	15.5	18.7	21.8	24.8	27.6	30.0	29.8	28.1	30.6	29.8	27.1	22.7	17.6	11.0	362.5
<b>Shahada</b>	13.6	13.8	15.4	18.7	21.8	24.9	27.6	30.1	29.8	28.3	30.9	30.0	27.1	22.9	17.7	11.1	363.7
<b>Taloda</b>	13.4	13.4	15.2	18.6	21.6	24.1	27.3	29.9	28.8	26.3	29.9	29.1	26.6	22.0	17.1	10.6	354.1

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Nashik District**

**Table No. B-41: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	13.1	13.8	15.2	17.9	21.0	24.7	26.8	28.7	30.3	30.1	29.8	29.7	26.9	22.9	17.6	11.0	359.6
<b>Dindori</b>	13.2	13.8	15.3	18.0	21.2	24.5	26.7	28.6	30.3	29.4	29.4	29.4	26.8	22.7	17.2	10.9	357.3
<b>Igatpuri</b>	12.9	13.5	15.1	18.1	21.5	24.3	27.2	29.0	30.5	29.9	30.5	29.5	26.9	22.6	17.1	10.7	359.3
<b>Kalvan</b>	13.1	13.8	15.2	17.9	21.0	24.6	26.7	28.7	30.1	29.6	29.7	29.5	26.8	22.8	17.4	11.0	357.9
<b>Malegaon</b>	12.5	13.3	14.5	17.3	20.3	24.5	26.3	28.6	30.1	30.9	31.1	30.7	27.7	24.0	18.6	11.8	362.2
<b>Nandgaon</b>	12.8	14.0	14.9	17.7	20.8	26.6	27.3	29.6	30.9	33.6	32.6	31.2	28.4	24.5	19.4	11.8	376.2
<b>Nashik</b>	13.3	13.8	15.5	18.4	21.5	24.6	26.7	28.8	30.1	30.1	30.2	29.4	27.3	23.1	17.2	10.9	360.7
<b>Niphad</b>	13.3	13.9	15.4	18.0	21.1	24.4	26.7	28.7	30.0	29.7	29.4	29.5	26.8	22.7	17.2	10.9	357.6
<b>Peint</b>	13.1	13.6	15.3	18.1	21.2	24.4	26.7	28.7	30.1	29.7	29.9	29.4	26.9	22.8	17.2	10.8	357.9
<b>Satana</b>	13.1	13.7	15.1	17.9	21.0	24.8	26.7	28.8	29.9	29.7	30.2	29.5	26.7	22.8	17.6	11.0	358.4
<b>Sinnar</b>	13.1	13.8	15.4	18.1	21.0	24.4	26.6	28.7	30.1	30.2	30.0	29.6	27.2	23.0	17.3	11.0	359.6
<b>Surgana</b>	13.1	13.7	15.2	18.0	21.1	24.4	26.7	28.7	30.1	29.5	29.8	29.4	26.8	22.7	17.3	10.9	357.4
<b>Yeola</b>	12.8	13.9	14.9	17.8	20.5	25.8	27.0	29.2	30.5	32.8	31.8	30.6	27.9	24.1	18.9	11.6	370.0

**Table No. B-42: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	32.9	34.6	38.1	44.7	52.4	61.8	66.9	71.8	75.7	75.1	74.5	74.3	67.3	57.3	43.9	27.6	899.0
<b>Dindori</b>	33.1	34.4	38.3	45.0	52.9	61.2	66.7	71.5	75.7	73.4	73.5	73.5	67.0	56.8	43.1	27.2	893.2
<b>Igatpuri</b>	32.3	33.7	37.9	45.2	53.7	60.9	68.1	72.4	76.2	74.7	76.3	73.8	67.4	56.5	42.7	26.7	898.2
<b>Kalvan</b>	32.9	34.4	38.0	44.8	52.5	61.4	66.8	71.7	75.3	74.0	74.2	73.8	66.9	56.9	43.5	27.4	894.7
<b>Malegaon</b>	31.3	33.2	36.2	43.2	50.8	61.2	65.7	71.6	75.1	77.2	77.9	76.8	69.3	59.9	46.6	29.5	905.5
<b>Nandgaon</b>	32.0	35.1	37.3	44.3	52.0	66.6	68.1	73.9	77.3	83.9	81.6	77.9	71.0	61.3	48.5	29.6	940.5
<b>Nashik</b>	33.1	34.4	38.6	45.9	53.7	61.4	66.7	72.0	75.2	75.4	75.5	73.5	68.3	57.7	43.1	27.3	901.8
<b>Niphad</b>	33.2	34.7	38.4	45.1	52.8	60.9	66.8	71.7	74.9	74.1	73.6	73.7	67.0	56.8	43.1	27.3	894.1
<b>Peint</b>	32.8	34.1	38.1	45.2	53.1	60.9	66.7	71.7	75.3	74.3	74.8	73.4	67.3	56.9	42.9	27.1	894.7
<b>Satana</b>	32.7	34.3	37.7	44.7	52.4	61.9	66.8	72.1	74.7	74.4	75.4	73.8	66.8	57.1	43.9	27.5	896.1
<b>Sinnar</b>	32.8	34.5	38.4	45.4	52.5	61.0	66.6	71.8	75.2	75.5	75.1	74.0	67.9	57.4	43.3	27.5	899.1
<b>Surgana</b>	32.9	34.2	38.1	45.0	52.8	61.0	66.7	71.7	75.1	73.8	74.4	73.5	67.0	56.8	43.1	27.2	893.4
<b>Yeola</b>	31.9	34.6	37.3	44.4	51.3	64.5	67.4	72.9	76.4	81.9	79.5	76.6	69.9	60.2	47.2	29.0	925.0



**Table No. B-43: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 50% efficiency in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	26.3	27.7	30.5	35.8	41.9	49.4	53.5	57.4	60.5	60.1	59.6	59.4	53.9	45.9	35.2	22.1	719.2
<b>Dindori</b>	26.4	27.5	30.6	36.0	42.3	48.9	53.4	57.2	60.5	58.7	58.8	58.8	53.6	45.5	34.5	21.8	714.6
<b>Igatpuri</b>	25.8	26.9	30.3	36.2	42.9	48.7	54.4	57.9	60.9	59.7	61.1	59.0	53.9	45.2	34.2	21.3	718.6
<b>Kalvan</b>	26.3	27.5	30.4	35.8	42.0	49.2	53.4	57.4	60.3	59.2	59.4	59.0	53.5	45.6	34.8	21.9	715.8
<b>Malegaon</b>	25.0	26.6	28.9	34.6	40.7	48.9	52.5	57.3	60.1	61.8	62.3	61.5	55.4	47.9	37.3	23.6	724.4
<b>Nandgaon</b>	25.6	28.0	29.8	35.4	41.6	53.3	54.5	59.1	61.9	67.1	65.3	62.3	56.8	49.0	38.8	23.7	752.4
<b>Nashik</b>	26.5	27.5	30.9	36.7	43.0	49.2	53.3	57.6	60.1	60.3	60.4	58.8	54.6	46.2	34.5	21.8	721.5
<b>Niphad</b>	26.5	27.8	30.8	36.1	42.2	48.7	53.4	57.4	60.0	59.3	58.9	59.0	53.6	45.4	34.5	21.8	715.3
<b>Peint</b>	26.2	27.3	30.5	36.2	42.5	48.7	53.4	57.4	60.2	59.4	59.9	58.7	53.9	45.6	34.4	21.7	715.8
<b>Satana</b>	26.2	27.5	30.2	35.7	41.9	49.5	53.4	57.7	59.7	59.5	60.3	59.1	53.4	45.7	35.2	22.0	716.9
<b>Sinnar</b>	26.3	27.6	30.7	36.3	42.0	48.8	53.3	57.4	60.2	60.4	60.1	59.2	54.3	46.0	34.7	22.0	719.2
<b>Surgana</b>	26.3	27.4	30.5	36.0	42.2	48.8	53.4	57.4	60.1	59.1	59.5	58.8	53.6	45.5	34.5	21.7	714.7
<b>Yeola</b>	25.5	27.7	29.8	35.5	41.1	51.6	53.9	58.3	61.1	65.5	63.6	61.3	55.9	48.2	37.8	23.2	740.0

**Table No. B-44: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	21.9	23.1	25.4	29.8	34.9	41.2	44.6	47.9	50.5	50.1	49.7	49.5	44.9	38.2	29.3	18.4	599.3
<b>Dindori</b>	22.0	22.9	25.5	30.0	35.3	40.8	44.5	47.6	50.5	48.9	49.0	49.0	44.7	37.9	28.7	18.2	595.5
<b>Igatpuri</b>	21.5	22.4	25.2	30.1	35.8	40.6	45.4	48.3	50.8	49.8	50.9	49.2	44.9	37.7	28.5	17.8	598.8
<b>Kalvan</b>	21.9	22.9	25.3	29.9	35.0	41.0	44.5	47.8	50.2	49.3	49.5	49.2	44.6	38.0	29.0	18.3	596.5
<b>Malegaon</b>	20.8	22.1	24.1	28.8	33.9	40.8	43.8	47.7	50.1	51.5	51.9	51.2	46.2	39.9	31.1	19.7	603.6
<b>Nandgaon</b>	21.3	23.4	24.9	29.5	34.7	44.4	45.4	49.3	51.6	56.0	54.4	51.9	47.4	40.9	32.4	19.7	627.0
<b>Nashik</b>	22.1	22.9	25.8	30.6	35.8	41.0	44.4	48.0	50.1	50.2	50.3	49.0	45.5	38.5	28.7	18.2	601.2
<b>Niphad</b>	22.1	23.1	25.6	30.1	35.2	40.6	44.5	47.8	50.0	49.4	49.1	49.1	44.7	37.9	28.7	18.2	596.1
<b>Peint</b>	21.8	22.7	25.4	30.2	35.4	40.6	44.5	47.8	50.2	49.5	49.9	48.9	44.9	38.0	28.6	18.1	596.5
<b>Satana</b>	21.8	22.9	25.1	29.8	34.9	41.3	44.5	48.1	49.8	49.6	50.3	49.2	44.5	38.1	29.3	18.3	597.4
<b>Sinnar</b>	21.9	23.0	25.6	30.2	35.0	40.7	44.4	47.8	50.2	50.4	50.1	49.3	45.3	38.3	28.9	18.3	599.4
<b>Surgana</b>	21.9	22.8	25.4	30.0	35.2	40.7	44.5	47.8	50.1	49.2	49.6	49.0	44.6	37.9	28.8	18.1	595.6
<b>Yeola</b>	21.3	23.1	24.9	29.6	34.2	43.0	44.9	48.6	50.9	54.6	53.0	51.0	46.6	40.1	31.5	19.3	616.7

**Table No. B-45: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	16.4	17.3	19.0	22.4	26.2	30.9	33.5	35.9	37.8	37.6	37.2	37.1	33.7	28.7	22.0	13.8	449.5
<b>Dindori</b>	16.5	17.2	19.1	22.5	26.5	30.6	33.3	35.7	37.8	36.7	36.7	36.8	33.5	28.4	21.6	13.6	446.6
<b>Igatpuri</b>	16.1	16.8	18.9	22.6	26.8	30.4	34.0	36.2	38.1	37.3	38.2	36.9	33.7	28.3	21.4	13.3	449.1
<b>Kalvan</b>	16.4	17.2	19.0	22.4	26.3	30.7	33.4	35.9	37.7	37.0	37.1	36.9	33.5	28.5	21.8	13.7	447.4
<b>Malegaon</b>	15.6	16.6	18.1	21.6	25.4	30.6	32.8	35.8	37.6	38.6	38.9	38.4	34.6	29.9	23.3	14.8	452.7
<b>Nandgaon</b>	16.0	17.5	18.6	22.1	26.0	33.3	34.1	37.0	38.7	42.0	40.8	39.0	35.5	30.6	24.3	14.8	470.3
<b>Nashik</b>	16.6	17.2	19.3	22.9	26.9	30.7	33.3	36.0	37.6	37.7	37.7	36.8	34.1	28.9	21.6	13.6	450.9
<b>Niphad</b>	16.6	17.4	19.2	22.5	26.4	30.4	33.4	35.8	37.5	37.1	36.8	36.9	33.5	28.4	21.5	13.6	447.0
<b>Peint</b>	16.4	17.1	19.1	22.6	26.5	30.4	33.4	35.8	37.6	37.1	37.4	36.7	33.7	28.5	21.5	13.5	447.4
<b>Satana</b>	16.4	17.2	18.8	22.3	26.2	31.0	33.4	36.0	37.3	37.2	37.7	36.9	33.4	28.6	22.0	13.7	448.1
<b>Sinnar</b>	16.4	17.3	19.2	22.7	26.2	30.5	33.3	35.9	37.6	37.8	37.5	37.0	33.9	28.7	21.7	13.7	449.5
<b>Surgana</b>	16.4	17.1	19.0	22.5	26.4	30.5	33.4	35.9	37.6	36.9	37.2	36.7	33.5	28.4	21.6	13.6	446.7
<b>Yeola</b>	16.0	17.3	18.6	22.2	25.7	32.3	33.7	36.4	38.2	41.0	39.8	38.3	34.9	30.1	23.6	14.5	462.5

**Table No. B-46: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	15.5	16.3	17.9	21.1	24.7	29.1	31.5	33.8	35.6	35.4	35.1	34.9	31.7	27.0	20.7	13.0	423.1
<b>Dindori</b>	15.6	16.2	18.0	21.2	24.9	28.8	31.4	33.6	35.6	34.5	34.6	34.6	31.5	26.7	20.3	12.8	420.3
<b>Igatpuri</b>	15.2	15.8	17.8	21.3	25.2	28.6	32.0	34.1	35.8	35.1	35.9	34.7	31.7	26.6	20.1	12.6	422.7
<b>Kalvan</b>	15.5	16.2	17.9	21.1	24.7	28.9	31.4	33.8	35.5	34.8	34.9	34.7	31.5	26.8	20.5	12.9	421.0
<b>Malegaon</b>	14.7	15.6	17.0	20.3	23.9	28.8	30.9	33.7	35.4	36.3	36.6	36.2	32.6	28.2	21.9	13.9	426.1
<b>Nandgaon</b>	15.1	16.5	17.5	20.8	24.5	31.3	32.1	34.8	36.4	39.5	38.4	36.7	33.4	28.8	22.8	13.9	442.6
<b>Nashik</b>	15.6	16.2	18.2	21.6	25.3	28.9	31.4	33.9	35.4	35.5	35.5	34.6	32.1	27.2	20.3	12.8	424.4
<b>Niphad</b>	15.6	16.3	18.1	21.2	24.8	28.7	31.4	33.7	35.3	34.9	34.6	34.7	31.5	26.7	20.3	12.8	420.7
<b>Peint</b>	15.4	16.1	17.9	21.3	25.0	28.6	31.4	33.7	35.4	35.0	35.2	34.5	31.7	26.8	20.2	12.7	421.1
<b>Satana</b>	15.4	16.2	17.7	21.0	24.7	29.1	31.4	33.9	35.1	35.0	35.5	34.7	31.4	26.9	20.7	12.9	421.7
<b>Sinnar</b>	15.5	16.3	18.1	21.3	24.7	28.7	31.3	33.8	35.4	35.5	35.3	34.8	31.9	27.0	20.4	12.9	423.1
<b>Surgana</b>	15.5	16.1	17.9	21.2	24.8	28.7	31.4	33.8	35.4	34.7	35.0	34.6	31.5	26.7	20.3	12.8	420.4
<b>Yeola</b>	15.0	16.3	17.5	20.9	24.2	30.4	31.7	34.3	35.9	38.5	37.4	36.0	32.9	28.3	22.2	13.6	435.3

**Table No. B-47: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	14.6	15.4	16.9	19.9	23.3	27.5	29.7	31.9	33.6	33.4	33.1	33.0	29.9	25.5	19.5	12.3	399.5
<b>Dindori</b>	14.7	15.3	17.0	20.0	23.5	27.2	29.6	31.8	33.6	32.6	32.6	32.7	29.8	25.3	19.2	12.1	397.0
<b>Igatpuri</b>	14.3	15.0	16.8	20.1	23.8	27.0	30.2	32.2	33.8	33.2	33.9	32.8	29.9	25.1	19.0	11.9	399.2
<b>Kalvan</b>	14.6	15.3	16.9	19.9	23.4	27.3	29.7	31.9	33.5	32.9	33.0	32.8	29.7	25.3	19.4	12.2	397.7
<b>Malegaon</b>	13.9	14.8	16.1	19.2	22.6	27.2	29.2	31.8	33.4	34.3	34.6	34.1	30.8	26.6	20.7	13.1	402.4
<b>Nandgaon</b>	14.2	15.6	16.6	19.7	23.1	29.6	30.3	32.9	34.4	37.3	36.3	34.6	31.6	27.2	21.6	13.2	418.0
<b>Nashik</b>	14.7	15.3	17.2	20.4	23.9	27.3	29.6	32.0	33.4	33.5	33.6	32.7	30.3	25.7	19.2	12.1	400.8
<b>Niphad</b>	14.7	15.4	17.1	20.0	23.5	27.1	29.7	31.9	33.3	32.9	32.7	32.8	29.8	25.2	19.1	12.1	397.4
<b>Peint</b>	14.6	15.2	16.9	20.1	23.6	27.1	29.7	31.9	33.5	33.0	33.3	32.6	29.9	25.3	19.1	12.0	397.7
<b>Satana</b>	14.5	15.3	16.8	19.8	23.3	27.5	29.7	32.0	33.2	33.0	33.5	32.8	29.7	25.4	19.5	12.2	398.3
<b>Sinnar</b>	14.6	15.4	17.1	20.2	23.3	27.1	29.6	31.9	33.4	33.6	33.4	32.9	30.2	25.5	19.3	12.2	399.6
<b>Surgana</b>	14.6	15.2	16.9	20.0	23.5	27.1	29.6	31.9	33.4	32.8	33.1	32.6	29.8	25.3	19.2	12.1	397.1
<b>Yeola</b>	14.2	15.4	16.6	19.7	22.8	28.7	29.9	32.4	33.9	36.4	35.3	34.0	31.0	26.8	21.0	12.9	411.1

**Table No. B-48: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Nashik District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Chandvad</b>	13.8	14.6	16.0	18.8	22.1	26.0	28.2	30.2	31.9	31.6	31.4	31.3	28.3	24.1	18.5	11.6	378.5
<b>Dindori</b>	13.9	14.5	16.1	18.9	22.3	25.7	28.1	30.1	31.9	30.9	30.9	31.0	28.2	23.9	18.2	11.5	376.1
<b>Igatpuri</b>	13.6	14.2	15.9	19.0	22.6	25.6	28.7	30.5	32.1	31.4	32.1	31.1	28.4	23.8	18.0	11.2	378.2
<b>Kalvan</b>	13.8	14.5	16.0	18.9	22.1	25.9	28.1	30.2	31.7	31.2	31.3	31.1	28.2	24.0	18.3	11.5	376.7
<b>Malegaon</b>	13.2	14.0	15.2	18.2	21.4	25.8	27.6	30.2	31.6	32.5	32.8	32.3	29.2	25.2	19.6	12.4	381.2
<b>Nandgaon</b>	13.5	14.8	15.7	18.6	21.9	28.0	28.7	31.1	32.6	35.3	34.3	32.8	29.9	25.8	20.4	12.5	396.0
<b>Nashik</b>	14.0	14.5	16.3	19.3	22.6	25.9	28.1	30.3	31.7	31.7	31.8	30.9	28.7	24.3	18.2	11.5	379.7
<b>Niphad</b>	14.0	14.6	16.2	19.0	22.2	25.6	28.1	30.2	31.6	31.2	31.0	31.0	28.2	23.9	18.1	11.5	376.5
<b>Peint</b>	13.8	14.4	16.1	19.1	22.4	25.6	28.1	30.2	31.7	31.3	31.5	30.9	28.3	24.0	18.1	11.4	376.7
<b>Satana</b>	13.8	14.5	15.9	18.8	22.1	26.1	28.1	30.4	31.4	31.3	31.7	31.1	28.1	24.0	18.5	11.6	377.3
<b>Sinnar</b>	13.8	14.5	16.2	19.1	22.1	25.7	28.0	30.2	31.7	31.8	31.6	31.2	28.6	24.2	18.2	11.6	378.5
<b>Surgana</b>	13.8	14.4	16.0	19.0	22.2	25.7	28.1	30.2	31.6	31.1	31.3	30.9	28.2	23.9	18.2	11.4	376.2
<b>Yeola</b>	13.4	14.6	15.7	18.7	21.6	27.2	28.4	30.7	32.2	34.5	33.5	32.2	29.4	25.4	19.9	12.2	389.5

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Pune District**

**Table No. B-49: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	12.7	13.5	15.3	18.2	21.7	24.3	27.0	29.4	31.5	31.5	31.6	30.6	28.3	23.5	17.8	11.4	368.4
<b>Bhor</b>	11.8	12.4	14.2	17.0	20.1	22.5	24.5	27.1	29.5	29.5	29.6	28.7	26.4	21.9	16.4	10.5	342.0
<b>Daund</b>	12.8	13.6	15.2	18.1	21.6	24.4	27.0	29.4	31.4	31.5	31.4	30.4	27.9	23.3	17.7	11.3	366.9
<b>Ghod</b>	12.8	13.4	15.0	18.0	21.2	23.9	26.5	28.5	30.6	30.1	30.3	29.4	26.8	22.7	17.0	10.8	357.1
<b>Indapur</b>	12.9	13.8	15.7	18.5	22.1	24.9	27.7	30.2	32.1	32.6	32.4	31.2	28.9	24.0	18.2	11.7	377.1
<b>Junnar</b>	13.0	13.7	15.2	18.1	21.3	24.0	26.6	28.7	30.6	30.1	30.2	29.5	27.1	22.8	17.1	10.9	358.9
<b>pune/haveli/velhe</b>	12.9	13.5	15.2	18.2	21.6	24.2	26.7	29.2	31.4	31.0	31.1	30.2	27.7	23.2	17.4	11.1	364.5
<b>Paud/Mulshi</b>	12.5	13.2	14.7	17.8	21.1	23.7	26.1	28.2	30.6	30.1	30.5	29.4	26.6	22.6	16.9	10.8	354.9
<b>Rajgurunagar</b>	12.8	13.4	14.9	18.1	21.5	24.2	26.7	28.7	31.2	30.4	30.8	29.7	26.9	22.8	17.0	10.9	360.0
<b>Sasvad</b>	12.8	13.4	15.2	18.2	21.6	24.1	26.7	29.2	31.4	31.1	31.2	30.4	28.0	23.3	17.6	11.2	365.3
<b>Shirur</b>	12.8	13.5	15.0	17.9	21.3	24.2	26.7	28.9	31.0	30.8	30.8	29.8	27.3	22.9	17.3	11.0	361.1
<b>Wadgaon</b>	12.2	12.8	14.2	17.5	20.6	23.3	25.5	27.3	29.9	29.3	29.9	28.6	25.7	22.1	16.5	10.5	345.9

**Table No. B-50: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	31.9	33.8	38.2	45.6	54.2	60.8	67.5	73.6	78.8	78.9	78.9	76.5	70.7	58.7	44.5	28.4	921.0
<b>Bhor</b>	29.6	31.1	35.4	42.5	50.3	56.3	61.2	67.7	73.7	73.7	74.1	71.7	65.9	54.7	40.9	26.2	854.9
<b>Daund</b>	31.9	33.9	38.0	45.3	53.9	61.1	67.5	73.4	78.5	78.7	78.6	75.9	69.9	58.3	44.2	28.2	917.2
<b>Ghod</b>	32.0	33.6	37.4	45.0	53.1	59.9	66.2	71.2	76.5	75.2	75.9	73.6	67.0	56.6	42.4	27.1	892.7
<b>Indapur</b>	32.3	34.6	39.1	46.3	55.3	62.2	69.3	75.5	80.2	81.6	81.1	78.0	72.3	60.1	45.5	29.3	942.7
<b>Junnar</b>	32.5	34.1	38.0	45.3	53.3	60.1	66.6	71.7	76.4	75.3	75.5	73.9	67.7	57.0	42.6	27.2	897.2
<b>pune/haveli/velhe</b>	32.3	33.8	38.0	45.5	54.1	60.5	66.6	72.9	78.4	77.4	77.8	75.6	69.2	58.0	43.5	27.7	911.3
<b>Paud/Mulshi</b>	31.3	32.9	36.7	44.6	52.8	59.3	65.2	70.4	76.6	75.3	76.3	73.4	66.6	56.5	42.2	27.0	887.2
<b>Rajgurunagar</b>	32.0	33.6	37.4	45.3	53.8	60.4	66.8	71.6	77.9	76.1	76.9	74.2	67.1	57.0	42.6	27.2	900.0
<b>Sasvad</b>	31.9	33.6	38.0	45.4	54.0	60.3	66.8	73.0	78.5	77.8	78.1	75.9	69.9	58.2	43.9	28.1	913.3
<b>Shirur</b>	31.9	33.8	37.6	44.9	53.2	60.4	66.8	72.3	77.4	76.9	77.0	74.6	68.2	57.2	43.2	27.6	902.7
<b>Wadgaon</b>	30.4	32.1	35.6	43.7	51.5	58.1	63.8	68.2	74.7	73.3	74.9	71.5	64.2	55.2	41.2	26.4	864.7



**Table No. B-51: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 50% efficiency in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	25.5	27.0	30.6	36.5	43.4	48.6	54.0	58.9	63.1	63.1	63.1	61.2	56.6	47.0	35.6	22.7	736.8
<b>Bhor</b>	23.7	24.9	28.3	34.0	40.2	45.0	49.0	54.1	58.9	58.9	59.3	57.4	52.8	43.8	32.7	21.0	684.0
<b>Daund</b>	25.5	27.1	30.4	36.2	43.1	48.9	54.0	58.7	62.8	62.9	62.9	60.7	55.9	46.7	35.4	22.6	733.8
<b>Ghod</b>	25.6	26.9	29.9	36.0	42.4	47.9	53.0	57.0	61.2	60.2	60.7	58.9	53.6	45.3	33.9	21.7	714.1
<b>Indapur</b>	25.8	27.7	31.3	37.0	44.2	49.8	55.4	60.4	64.2	65.2	64.9	62.4	57.9	48.1	36.4	23.5	754.2
<b>Junnar</b>	26.0	27.3	30.4	36.2	42.6	48.1	53.3	57.3	61.1	60.2	60.4	59.1	54.1	45.6	34.1	21.8	717.7
<b>pune/haveli/velhe</b>	25.8	27.0	30.4	36.4	43.3	48.4	53.3	58.3	62.7	61.9	62.2	60.5	55.4	46.4	34.8	22.2	729.0
<b>Paud/Mulshi</b>	25.1	26.3	29.4	35.7	42.3	47.5	52.2	56.3	61.2	60.2	61.0	58.8	53.3	45.2	33.8	21.6	709.8
<b>Rajgurunagar</b>	25.6	26.9	29.9	36.3	43.0	48.4	53.4	57.3	62.3	60.9	61.6	59.3	53.7	45.6	34.1	21.8	720.0
<b>Sasvad</b>	25.5	26.9	30.4	36.3	43.2	48.2	53.4	58.4	62.8	62.2	62.5	60.7	55.9	46.6	35.1	22.4	730.6
<b>Shirur</b>	25.5	27.0	30.1	35.9	42.6	48.3	53.4	57.8	61.9	61.5	61.6	59.7	54.6	45.8	34.5	22.0	722.2
<b>Wadgaon</b>	24.4	25.7	28.5	34.9	41.2	46.5	51.0	54.5	59.8	58.6	59.9	57.2	51.4	44.1	33.0	21.1	691.7

**Table No. B-52: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	21.2	22.5	25.5	30.4	36.1	40.5	45.0	49.1	52.6	52.6	52.6	51.0	47.1	39.1	29.6	18.9	614.0
<b>Bhor</b>	19.7	20.7	23.6	28.3	33.5	37.5	40.8	45.1	49.1	49.1	49.4	47.8	44.0	36.5	27.3	17.5	570.0
<b>Daund</b>	21.3	22.6	25.3	30.2	35.9	40.7	45.0	48.9	52.4	52.4	52.4	50.6	46.6	38.9	29.5	18.8	611.5
<b>Ghod</b>	21.3	22.4	25.0	30.0	35.4	39.9	44.1	47.5	51.0	50.2	50.6	49.1	44.7	37.8	28.3	18.1	595.1
<b>Indapur</b>	21.5	23.1	26.1	30.8	36.8	41.5	46.2	50.4	53.5	54.4	54.1	52.0	48.2	40.1	30.4	19.5	628.5
<b>Junnar</b>	21.7	22.8	25.4	30.2	35.5	40.1	44.4	47.8	50.9	50.2	50.4	49.2	45.1	38.0	28.4	18.2	598.1
<b>pune/haveli/velhe</b>	21.5	22.5	25.3	30.3	36.1	40.4	44.4	48.6	52.3	51.6	51.9	50.4	46.1	38.7	29.0	18.5	607.5
<b>Paud/Mulshi</b>	20.9	21.9	24.5	29.7	35.2	39.6	43.5	46.9	51.0	50.2	50.8	49.0	44.4	37.7	28.2	18.0	591.5
<b>Rajgurunagar</b>	21.3	22.4	24.9	30.2	35.8	40.3	44.5	47.8	51.9	50.7	51.3	49.4	44.8	38.0	28.4	18.1	600.0
<b>Sasvad</b>	21.3	22.4	25.3	30.3	36.0	40.2	44.5	48.7	52.3	51.9	52.0	50.6	46.6	38.8	29.3	18.7	608.9
<b>Shirur</b>	21.3	22.5	25.0	29.9	35.5	40.3	44.5	48.2	51.6	51.3	51.3	49.7	45.5	38.1	28.8	18.4	601.8
<b>Wadgaon</b>	20.3	21.4	23.7	29.1	34.4	38.8	42.5	45.4	49.8	48.9	49.9	47.7	42.8	36.8	27.5	17.6	576.4

**Table No. B-53: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	15.9	16.9	19.1	22.8	27.1	30.4	33.8	36.8	39.4	39.4	39.5	38.2	35.4	29.4	22.2	14.2	460.5
<b>Bhor</b>	14.8	15.6	17.7	21.2	25.1	28.1	30.6	33.8	36.8	36.8	37.0	35.9	33.0	27.4	20.4	13.1	427.5
<b>Daund</b>	16.0	17.0	19.0	22.6	27.0	30.5	33.7	36.7	39.3	39.3	39.3	38.0	34.9	29.2	22.1	14.1	458.6
<b>Ghod</b>	16.0	16.8	18.7	22.5	26.5	29.9	33.1	35.6	38.3	37.6	37.9	36.8	33.5	28.3	21.2	13.5	446.3
<b>Indapur</b>	16.1	17.3	19.6	23.1	27.6	31.1	34.6	37.8	40.1	40.8	40.6	39.0	36.2	30.1	22.8	14.7	471.4
<b>Junnar</b>	16.2	17.1	19.0	22.6	26.6	30.1	33.3	35.8	38.2	37.6	37.8	36.9	33.8	28.5	21.3	13.6	448.6
<b>pune/haveli/velhe</b>	16.1	16.9	19.0	22.8	27.0	30.3	33.3	36.4	39.2	38.7	38.9	37.8	34.6	29.0	21.8	13.9	455.6
<b>Paud/Mulshi</b>	15.7	16.5	18.4	22.3	26.4	29.7	32.6	35.2	38.3	37.6	38.1	36.7	33.3	28.2	21.1	13.5	443.6
<b>Rajgurunagar</b>	16.0	16.8	18.7	22.7	26.9	30.2	33.4	35.8	39.0	38.0	38.5	37.1	33.6	28.5	21.3	13.6	450.0
<b>Sasvad</b>	16.0	16.8	19.0	22.7	27.0	30.1	33.4	36.5	39.2	38.9	39.0	37.9	35.0	29.1	22.0	14.0	456.6
<b>Shirur</b>	16.0	16.9	18.8	22.4	26.6	30.2	33.4	36.1	38.7	38.4	38.5	37.3	34.1	28.6	21.6	13.8	451.4
<b>Wadgaon</b>	15.2	16.0	17.8	21.8	25.8	29.1	31.9	34.1	37.4	36.6	37.4	35.7	32.1	27.6	20.6	13.2	432.3

**Table No. B-54: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	15.0	15.9	18.0	21.4	25.5	28.6	31.8	34.6	37.1	37.1	37.1	36.0	33.3	27.6	20.9	13.4	433.4
<b>Bhor</b>	13.9	14.6	16.7	20.0	23.7	26.5	28.8	31.9	34.7	34.7	34.9	33.7	31.0	25.8	19.2	12.3	402.3
<b>Daund</b>	15.0	16.0	17.9	21.3	25.4	28.7	31.7	34.5	37.0	37.0	37.0	35.7	32.9	27.4	20.8	13.3	431.6
<b>Ghod</b>	15.0	15.8	17.6	21.2	25.0	28.2	31.2	33.5	36.0	35.4	35.7	34.6	31.5	26.7	20.0	12.7	420.1
<b>Indapur</b>	15.2	16.3	18.4	21.8	26.0	29.3	32.6	35.5	37.7	38.4	38.2	36.7	34.0	28.3	21.4	13.8	443.6
<b>Junnar</b>	15.3	16.1	17.9	21.3	25.1	28.3	31.3	33.7	36.0	35.4	35.5	34.8	31.8	26.8	20.1	12.8	422.2
<b>pune/haveli/velhe</b>	15.2	15.9	17.9	21.4	25.5	28.5	31.4	34.3	36.9	36.4	36.6	35.6	32.6	27.3	20.5	13.0	428.8
<b>Paud/Mulshi</b>	14.7	15.5	17.3	21.0	24.9	27.9	30.7	33.1	36.0	35.4	35.9	34.6	31.3	26.6	19.9	12.7	417.5
<b>Rajgurunagar</b>	15.0	15.8	17.6	21.3	25.3	28.4	31.4	33.7	36.7	35.8	36.2	34.9	31.6	26.8	20.0	12.8	423.5
<b>Sasvad</b>	15.0	15.8	17.9	21.4	25.4	28.4	31.4	34.4	36.9	36.6	36.7	35.7	32.9	27.4	20.7	13.2	429.8
<b>Shirur</b>	15.0	15.9	17.7	21.1	25.0	28.4	31.4	34.0	36.4	36.2	36.2	35.1	32.1	26.9	20.3	13.0	424.8
<b>Wadgaon</b>	14.3	15.1	16.7	20.5	24.3	27.4	30.0	32.1	35.2	34.5	35.2	33.6	30.2	26.0	19.4	12.4	406.9

**Table No. B-55: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	14.2	15.0	17.0	20.3	24.1	27.0	30.0	32.7	35.0	35.0	35.1	34.0	31.4	26.1	19.8	12.6	409.3
<b>Bhor</b>	13.2	13.8	15.7	18.9	22.3	25.0	27.2	30.1	32.7	32.7	32.9	31.9	29.3	24.3	18.2	11.6	380.0
<b>Daund</b>	14.2	15.1	16.9	20.1	24.0	27.1	30.0	32.6	34.9	35.0	34.9	33.7	31.1	25.9	19.6	12.5	407.6
<b>Ghod</b>	14.2	14.9	16.6	20.0	23.6	26.6	29.4	31.6	34.0	33.4	33.7	32.7	29.8	25.2	18.9	12.0	396.7
<b>Indapur</b>	14.3	15.4	17.4	20.6	24.6	27.7	30.8	33.6	35.6	36.2	36.0	34.7	32.1	26.7	20.2	13.0	419.0
<b>Junnar</b>	14.4	15.2	16.9	20.1	23.7	26.7	29.6	31.9	34.0	33.5	33.6	32.8	30.1	25.3	19.0	12.1	398.7
<b>pune/haveli/velhe</b>	14.3	15.0	16.9	20.2	24.0	26.9	29.6	32.4	34.9	34.4	34.6	33.6	30.8	25.8	19.3	12.3	405.0
<b>Paud/Mulshi</b>	13.9	14.6	16.3	19.8	23.5	26.4	29.0	31.3	34.0	33.5	33.9	32.6	29.6	25.1	18.8	12.0	394.3
<b>Rajgurunagar</b>	14.2	14.9	16.6	20.1	23.9	26.9	29.7	31.8	34.6	33.8	34.2	33.0	29.8	25.3	18.9	12.1	400.0
<b>Sasvad</b>	14.2	14.9	16.9	20.2	24.0	26.8	29.7	32.5	34.9	34.6	34.7	33.7	31.1	25.9	19.5	12.5	405.9
<b>Shirur</b>	14.2	15.0	16.7	19.9	23.7	26.8	29.7	32.1	34.4	34.2	34.2	33.2	30.3	25.4	19.2	12.2	401.2
<b>Wadgaon</b>	13.5	14.3	15.8	19.4	22.9	25.8	28.3	30.3	33.2	32.6	33.3	31.8	28.6	24.5	18.3	11.7	384.3

**Table No. B-56: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Pune District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Baramati</b>	13.4	14.2	16.1	19.2	22.8	25.6	28.4	31.0	33.2	33.2	33.2	32.2	29.8	24.7	18.7	12.0	387.8
<b>Bhor</b>	12.5	13.1	14.9	17.9	21.2	23.7	25.8	28.5	31.0	31.0	31.2	30.2	27.8	23.0	17.2	11.0	360.0
<b>Daund</b>	13.4	14.3	16.0	19.1	22.7	25.7	28.4	30.9	33.1	33.1	33.1	32.0	29.4	24.6	18.6	11.9	386.2
<b>Ghod</b>	13.5	14.2	15.8	18.9	22.3	25.2	27.9	30.0	32.2	31.7	31.9	31.0	28.2	23.9	17.9	11.4	375.9
<b>Indapur</b>	13.6	14.6	16.5	19.5	23.3	26.2	29.2	31.8	33.8	34.3	34.1	32.8	30.5	25.3	19.2	12.3	396.9
<b>Junnar</b>	13.7	14.4	16.0	19.1	22.4	25.3	28.0	30.2	32.2	31.7	31.8	31.1	28.5	24.0	18.0	11.5	377.8
<b>pune/haveli/velhe</b>	13.6	14.2	16.0	19.2	22.8	25.5	28.1	30.7	33.0	32.6	32.7	31.8	29.1	24.4	18.3	11.7	383.7
<b>Paud/Mulshi</b>	13.2	13.9	15.5	18.8	22.2	25.0	27.5	29.6	32.2	31.7	32.1	30.9	28.0	23.8	17.8	11.4	373.6
<b>Rajgurunagar</b>	13.5	14.2	15.7	19.1	22.6	25.4	28.1	30.2	32.8	32.0	32.4	31.2	28.3	24.0	17.9	11.5	378.9
<b>Sasvad</b>	13.4	14.2	16.0	19.1	22.7	25.4	28.1	30.7	33.0	32.8	32.9	32.0	29.4	24.5	18.5	11.8	384.5
<b>Shirur</b>	13.4	14.2	15.8	18.9	22.4	25.4	28.1	30.4	32.6	32.4	32.4	31.4	28.7	24.1	18.2	11.6	380.1
<b>Wadgaon</b>	12.8	13.5	15.0	18.4	21.7	24.5	26.9	28.7	31.5	30.9	31.5	30.1	27.0	23.2	17.3	11.1	364.1

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Sangli District**

**Table No. B-57: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	12.9	13.7	15.6	18.7	21.9	25.1	27.3	29.2	30.1	32.1	31.0	31.0	28.8	23.7	17.7	11.3	370.1
<b>Islampur</b>	12.8	13.5	15.5	18.4	20.8	24.6	26.4	27.5	27.9	32.3	30.1	31.2	28.8	23.5	17.6	11.3	362.2
<b>Jath</b>	13.0	13.9	15.9	19.0	22.4	25.8	28.0	30.1	30.7	32.9	31.7	31.8	29.4	24.2	18.2	11.7	378.7
<b>Kavathe Mahankal</b>	12.9	13.8	15.8	18.7	21.5	25.5	26.8	27.8	26.7	32.4	29.3	31.1	28.8	23.5	17.7	11.4	363.7
<b>Sangli</b>	13.0	14.1	16.0	18.9	21.2	26.5	26.1	25.8	20.9	32.9	26.3	31.6	29.2	23.5	17.5	11.4	355.1
<b>Shirala</b>	12.9	13.5	15.3	18.0	20.5	23.8	26.3	28.0	31.1	32.1	31.4	31.2	28.7	23.7	17.6	11.2	365.2
<b>Tasgaon</b>	12.9	13.8	15.7	18.7	21.3	25.4	26.5	27.4	25.8	32.3	28.9	31.2	29.0	23.6	17.5	11.3	361.3
<b>Vita</b>	12.8	13.5	15.4	18.5	21.4	24.5	26.9	28.8	30.0	31.7	31.2	30.7	28.8	23.7	17.5	11.1	366.4

**Table No. B-58: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	32.3	34.3	39.0	46.6	54.7	62.7	68.2	73.0	75.2	80.1	77.5	77.5	72.1	59.3	44.3	28.3	925.2
<b>Islampur</b>	32.1	33.9	38.8	45.9	52.1	61.4	66.0	68.8	69.7	80.7	75.1	78.0	72.0	58.8	43.9	28.2	905.5
<b>Jath</b>	32.5	34.8	39.7	47.4	56.0	64.6	70.1	75.2	76.7	82.3	79.2	79.5	73.5	60.5	45.5	29.3	946.7
<b>Kavathe Mahankal</b>	32.2	34.4	39.4	46.8	53.8	63.8	67.0	69.6	66.8	80.9	73.3	77.8	72.0	58.8	44.2	28.4	909.3
<b>Sangli</b>	32.6	35.2	40.1	47.4	53.0	66.1	65.3	64.6	52.2	82.3	65.7	79.1	73.1	58.8	43.8	28.5	887.7
<b>Shirala</b>	32.2	33.7	38.1	45.0	51.3	59.5	65.8	70.1	77.7	80.2	78.4	77.9	71.7	59.2	44.0	28.1	913.0
<b>Tasgaon</b>	32.3	34.4	39.2	46.7	53.3	63.6	66.3	68.5	64.6	80.8	72.2	78.0	72.4	59.0	43.8	28.2	903.2
<b>Vita</b>	32.0	33.8	38.4	46.2	53.4	61.3	67.3	71.9	75.1	79.2	77.9	76.8	71.9	59.2	43.7	27.8	916.0



**Table No. B-59: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 50% efficiency in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	25.8	27.5	31.2	37.3	43.8	50.2	54.5	58.4	60.2	64.1	62.0	62.0	57.7	47.4	35.4	22.7	740.1
<b>Islampur</b>	25.7	27.1	31.0	36.7	41.7	49.1	52.8	55.1	55.8	64.5	60.1	62.4	57.6	47.1	35.1	22.5	724.4
<b>Jath</b>	26.0	27.9	31.7	37.9	44.8	51.7	56.1	60.1	61.3	65.9	63.3	63.6	58.8	48.4	36.4	23.4	757.4
<b>Kavathe Mahankal</b>	25.7	27.5	31.5	37.5	43.1	51.1	53.6	55.7	53.5	64.7	58.6	62.2	57.6	47.1	35.3	22.7	727.5
<b>Sangli</b>	26.1	28.1	32.1	37.9	42.4	52.9	52.2	51.6	41.7	65.8	52.5	63.3	58.5	47.0	35.0	22.8	710.1
<b>Shirala</b>	25.8	27.0	30.5	36.0	41.0	47.6	52.7	56.0	62.2	64.2	62.7	62.4	57.4	47.3	35.2	22.4	730.4
<b>Tasgaon</b>	25.8	27.6	31.4	37.4	42.6	50.9	53.1	54.8	51.7	64.6	57.7	62.4	57.9	47.2	35.0	22.5	722.6
<b>Vita</b>	25.6	27.0	30.7	37.0	42.8	49.1	53.8	57.5	60.1	63.4	62.3	61.4	57.5	47.3	35.0	22.2	732.8

**Table No. B-60: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	21.5	22.9	26.0	31.1	36.5	41.8	45.5	48.7	50.1	53.4	51.7	51.7	48.1	39.5	29.5	18.9	616.8
<b>Islampur</b>	21.4	22.6	25.8	30.6	34.7	40.9	44.0	45.9	46.5	53.8	50.1	52.0	48.0	39.2	29.3	18.8	603.7
<b>Jath</b>	21.7	23.2	26.4	31.6	37.4	43.1	46.7	50.1	51.1	54.9	52.8	53.0	49.0	40.3	30.3	19.5	631.1
<b>Kavathe Mahankal</b>	21.4	22.9	26.3	31.2	35.9	42.5	44.7	46.4	44.5	53.9	48.9	51.8	48.0	39.2	29.4	18.9	606.2
<b>Sangli</b>	21.7	23.5	26.7	31.6	35.3	44.1	43.5	43.0	34.8	54.9	43.8	52.7	48.7	39.2	29.2	19.0	591.8
<b>Shirala</b>	21.5	22.5	25.4	30.0	34.2	39.6	43.9	46.7	51.8	53.5	52.3	52.0	47.8	39.5	29.3	18.7	608.6
<b>Tasgaon</b>	21.5	23.0	26.2	31.1	35.5	42.4	44.2	45.7	43.0	53.8	48.1	52.0	48.3	39.3	29.2	18.8	602.2
<b>Vita</b>	21.4	22.5	25.6	30.8	35.6	40.9	44.8	48.0	50.1	52.8	52.0	51.2	47.9	39.4	29.2	18.5	610.7

**Table No. B-61: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	16.1	17.2	19.5	23.3	27.3	31.4	34.1	36.5	37.6	40.1	38.8	38.7	36.0	29.6	22.1	14.2	462.6
<b>Islampur</b>	16.0	16.9	19.4	23.0	26.0	30.7	33.0	34.4	34.9	40.3	37.6	39.0	36.0	29.4	21.9	14.1	452.7
<b>Jath</b>	16.2	17.4	19.8	23.7	28.0	32.3	35.0	37.6	38.3	41.2	39.6	39.7	36.8	30.2	22.8	14.6	473.4
<b>Kavathe Mahankal</b>	16.1	17.2	19.7	23.4	26.9	31.9	33.5	34.8	33.4	40.5	36.7	38.9	36.0	29.4	22.1	14.2	454.7
<b>Sangli</b>	16.3	17.6	20.1	23.7	26.5	33.1	32.6	32.3	26.1	41.2	32.8	39.6	36.5	29.4	21.9	14.3	443.8
<b>Shirala</b>	16.1	16.9	19.1	22.5	25.6	29.7	32.9	35.0	38.9	40.1	39.2	39.0	35.9	29.6	22.0	14.0	456.5
<b>Tasgaon</b>	16.2	17.2	19.6	23.4	26.6	31.8	33.2	34.3	32.3	40.4	36.1	39.0	36.2	29.5	21.9	14.1	451.6
<b>Vita</b>	16.0	16.9	19.2	23.1	26.7	30.7	33.6	36.0	37.5	39.6	39.0	38.4	36.0	29.6	21.9	13.9	458.0

**Table No. B-62: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	15.2	16.2	18.3	21.9	25.7	29.5	32.1	34.4	35.4	37.7	36.5	36.5	33.9	27.9	20.8	13.3	435.4
<b>Islampur</b>	15.1	15.9	18.2	21.6	24.5	28.9	31.1	32.4	32.8	38.0	35.4	36.7	33.9	27.7	20.7	13.3	426.1
<b>Jath</b>	15.3	16.4	18.7	22.3	26.4	30.4	33.0	35.4	36.1	38.7	37.3	37.4	34.6	28.5	21.4	13.8	445.5
<b>Kavathe Mahankal</b>	15.1	16.2	18.5	22.0	25.3	30.0	31.5	32.8	31.4	38.1	34.5	36.6	33.9	27.7	20.8	13.4	427.9
<b>Sangli</b>	15.3	16.6	18.9	22.3	24.9	31.1	30.7	30.4	24.5	38.7	30.9	37.2	34.4	27.7	20.6	13.4	417.7
<b>Shirala</b>	15.2	15.9	18.0	21.2	24.1	28.0	31.0	33.0	36.6	37.8	36.9	36.7	33.8	27.8	20.7	13.2	429.6
<b>Tasgaon</b>	15.2	16.2	18.5	22.0	25.1	29.9	31.2	32.2	30.4	38.0	34.0	36.7	34.1	27.7	20.6	13.3	425.0
<b>Vita</b>	15.1	15.9	18.1	21.7	25.1	28.9	31.7	33.8	35.3	37.3	36.7	36.1	33.8	27.8	20.6	13.1	431.1

**Table No. B-63: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	14.3	15.3	17.3	20.7	24.3	27.9	30.3	32.5	33.4	35.6	34.5	34.4	32.0	26.4	19.7	12.6	411.2
<b>Islampur</b>	14.3	15.0	17.2	20.4	23.1	27.3	29.4	30.6	31.0	35.9	33.4	34.7	32.0	26.2	19.5	12.5	402.4
<b>Jath</b>	14.4	15.5	17.6	21.1	24.9	28.7	31.1	33.4	34.1	36.6	35.2	35.3	32.7	26.9	20.2	13.0	420.8
<b>Kavathe Mahankal</b>	14.3	15.3	17.5	20.8	23.9	28.4	29.8	30.9	29.7	36.0	32.6	34.6	32.0	26.2	19.6	12.6	404.1
<b>Sangli</b>	14.5	15.6	17.8	21.0	23.6	29.4	29.0	28.7	23.2	36.6	29.2	35.2	32.5	26.1	19.5	12.7	394.5
<b>Shirala</b>	14.3	15.0	17.0	20.0	22.8	26.4	29.3	31.1	34.5	35.7	34.8	34.6	31.9	26.3	19.5	12.5	405.8
<b>Tasgaon</b>	14.4	15.3	17.4	20.8	23.7	28.3	29.5	30.5	28.7	35.9	32.1	34.6	32.2	26.2	19.5	12.5	401.4
<b>Vita</b>	14.2	15.0	17.1	20.5	23.8	27.3	29.9	32.0	33.4	35.2	34.6	34.1	32.0	26.3	19.4	12.3	407.1

**Table No. B-64: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Sangli District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Atpadi</b>	13.6	14.5	16.4	19.6	23.0	26.4	28.7	30.8	31.7	33.7	32.6	32.6	30.4	25.0	18.6	11.9	389.5
<b>Islampur</b>	13.5	14.3	16.3	19.3	21.9	25.9	27.8	29.0	29.4	34.0	31.6	32.9	30.3	24.8	18.5	11.9	381.3
<b>Jath</b>	13.7	14.7	16.7	20.0	23.6	27.2	29.5	31.6	32.3	34.7	33.3	33.5	31.0	25.5	19.2	12.3	398.6
<b>Kavathe Mahankal</b>	13.5	14.5	16.6	19.7	22.7	26.9	28.2	29.3	28.1	34.1	30.9	32.7	30.3	24.8	18.6	12.0	382.9
<b>Sangli</b>	13.7	14.8	16.9	19.9	22.3	27.8	27.5	27.2	22.0	34.7	27.6	33.3	30.8	24.8	18.4	12.0	373.8
<b>Shirala</b>	13.6	14.2	16.1	19.0	21.6	25.0	27.7	29.5	32.7	33.8	33.0	32.8	30.2	24.9	18.5	11.8	384.4
<b>Tasgaon</b>	13.6	14.5	16.5	19.7	22.4	26.8	27.9	28.8	27.2	34.0	30.4	32.8	30.5	24.8	18.4	11.9	380.3
<b>Vita</b>	13.5	14.2	16.2	19.4	22.5	25.8	28.3	30.3	31.6	33.4	32.8	32.3	30.3	24.9	18.4	11.7	385.7

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Satara District**

**Table No. B-65: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Satara District**

Taluka	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	Seasonal WR (mm)
	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	
	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<b>Dahivadi</b>	12.8	13.6	15.4	18.4	21.6	24.6	26.9	29.0	30.3	31.8	31.2	30.8	28.6	23.6	17.6	11.3	367.4
<b>Karad</b>	12.3	13.0	15.0	17.7	19.4	22.7	25.3	25.9	26.5	31.4	30.7	30.4	28.0	23.0	17.2	11.1	349.4
<b>Koregaon</b>	12.4	13.1	15.0	17.9	20.7	23.5	25.9	27.9	29.5	31.0	30.7	30.2	27.9	23.0	17.3	11.1	357.1
<b>Mahabaleshwar</b>	10.1	10.7	12.4	14.9	17.6	19.8	20.7	23.7	26.3	26.8	27.0	25.9	23.9	19.5	14.4	9.3	303.0
<b>Medha</b>	11.0	11.6	13.4	16.1	18.8	21.2	22.7	25.3	27.6	28.4	28.4	27.6	25.4	20.9	15.5	10.0	324.0
<b>Patan</b>	12.3	13.0	14.9	17.6	19.9	23.1	25.4	26.7	28.1	31.1	30.4	30.1	27.7	22.8	17.1	11.0	351.0
<b>Phaltan</b>	12.7	13.5	15.3	18.3	21.6	24.3	26.9	29.2	31.1	31.5	31.3	30.6	28.4	23.5	17.7	11.3	367.3
<b>Satara</b>	12.1	12.8	14.6	17.4	20.0	22.9	25.0	26.9	28.5	30.5	30.1	29.6	27.3	22.5	16.8	10.8	347.8
<b>Shirwal</b>	12.5	13.2	15.0	17.9	21.2	23.6	26.2	28.7	30.9	30.8	30.9	30.1	27.8	23.0	17.3	11.1	360.0
<b>Vaduj</b>	12.7	13.4	15.3	18.3	21.1	24.1	26.6	28.4	29.8	31.5	31.0	30.6	28.4	23.4	17.4	11.1	363.1
<b>Wai</b>	11.3	11.9	13.7	16.4	19.4	21.7	23.4	26.0	28.3	28.8	28.9	28.0	25.8	21.3	15.9	10.2	331.2

**Table No. B-66: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Satara District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dahivadi</b>	32.0	34.0	38.5	46.0	53.9	61.4	67.3	72.5	75.8	79.5	77.9	77.0	71.6	58.9	44.1	28.2	918.5
<b>Karad</b>	30.8	32.6	37.5	44.2	48.5	56.7	63.2	64.6	66.2	78.5	76.6	75.9	70.0	57.4	43.1	27.7	873.5
<b>Koregaon</b>	31.1	32.9	37.5	44.7	51.8	58.8	64.8	69.7	73.7	77.6	76.7	75.4	69.8	57.6	43.2	27.6	892.8
<b>Mahabaleshwar</b>	25.3	26.7	31.1	37.3	44.1	49.4	51.7	59.1	65.8	66.9	67.5	64.8	59.7	48.9	36.1	23.3	757.6
<b>Medha</b>	27.6	29.1	33.6	40.2	47.1	53.1	56.8	63.2	68.9	71.1	71.0	68.9	63.5	52.2	38.8	25.0	810.0
<b>Patan</b>	30.7	32.4	37.2	44.1	49.8	57.7	63.4	66.7	70.3	77.7	75.9	75.1	69.3	57.0	42.7	27.4	877.5
<b>Phaltan</b>	31.8	33.7	38.3	45.7	54.1	60.6	67.2	73.1	77.8	78.8	78.3	76.6	71.0	58.7	44.3	28.4	918.3
<b>Satara</b>	30.3	31.9	36.6	43.5	50.1	57.2	62.6	67.2	71.2	76.2	75.2	74.0	68.3	56.3	42.0	27.0	869.5
<b>Shirwal</b>	31.2	32.9	37.4	44.7	53.1	59.1	65.4	71.7	77.3	76.9	77.1	75.1	69.4	57.5	43.4	27.8	900.0
<b>Vaduj</b>	31.7	33.5	38.2	45.6	52.8	60.3	66.4	71.0	74.5	78.8	77.5	76.4	71.1	58.5	43.6	27.8	907.9
<b>Wai</b>	28.3	29.9	34.3	41.0	48.4	54.3	58.6	65.0	70.8	72.1	72.2	70.1	64.6	53.2	39.7	25.5	828.0



**Table No. B-67: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 50% efficiency in Satara District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dahivadi</b>	25.6	27.2	30.8	36.8	43.1	49.1	53.8	58.0	60.7	63.6	62.3	61.6	57.2	47.2	35.2	22.5	734.8
<b>Karad</b>	24.7	26.1	30.0	35.4	38.8	45.3	50.6	51.7	53.0	62.8	61.3	60.7	56.0	45.9	34.4	22.1	698.8
<b>Koregaon</b>	24.9	26.3	30.0	35.8	41.5	47.0	51.9	55.7	59.0	62.1	61.4	60.4	55.8	46.0	34.5	22.1	714.3
<b>Mahabaleshwar</b>	20.2	21.3	24.9	29.8	35.3	39.5	41.4	47.3	52.7	53.5	54.0	51.8	47.8	39.1	28.9	18.6	606.1
<b>Medha</b>	22.1	23.3	26.9	32.1	37.7	42.5	45.5	50.5	55.1	56.9	56.8	55.1	50.8	41.8	31.1	20.0	648.0
<b>Patan</b>	24.5	25.9	29.8	35.3	39.9	46.2	50.7	53.4	56.3	62.2	60.7	60.1	55.4	45.6	34.2	21.9	702.0
<b>Phaltan</b>	25.5	27.0	30.6	36.5	43.2	48.5	53.7	58.5	62.2	63.0	62.7	61.3	56.8	47.0	35.5	22.7	734.7
<b>Satara</b>	24.2	25.5	29.2	34.8	40.1	45.7	50.1	53.7	56.9	61.0	60.1	59.2	54.7	45.0	33.6	21.6	695.6
<b>Shirwal</b>	24.9	26.3	29.9	35.8	42.5	47.3	52.3	57.4	61.8	61.6	61.7	60.1	55.5	46.0	34.7	22.2	720.0
<b>Vaduj</b>	25.4	26.8	30.5	36.5	42.3	48.3	53.1	56.8	59.6	63.0	62.0	61.1	56.9	46.8	34.9	22.3	726.3
<b>Wai</b>	22.7	23.9	27.4	32.8	38.7	43.5	46.8	52.0	56.7	57.7	57.8	56.0	51.7	42.6	31.7	20.4	662.4

**Table No. B-68: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Satara District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dahivadi</b>	21.4	22.6	25.7	30.6	35.9	40.9	44.9	48.3	50.6	53.0	51.9	51.3	47.7	39.3	29.4	18.8	612.3
<b>Karad</b>	20.5	21.7	25.0	29.5	32.3	37.8	42.1	43.1	44.1	52.3	51.1	50.6	46.7	38.3	28.7	18.4	582.3
<b>Koregaon</b>	20.7	21.9	25.0	29.8	34.6	39.2	43.2	46.4	49.1	51.7	51.1	50.3	46.5	38.4	28.8	18.4	595.2
<b>Mahabaleshwar</b>	16.9	17.8	20.7	24.8	29.4	32.9	34.5	39.4	43.9	44.6	45.0	43.2	39.8	32.6	24.1	15.5	505.1
<b>Medha</b>	18.4	19.4	22.4	26.8	31.4	35.4	37.9	42.1	45.9	47.4	47.3	45.9	42.4	34.8	25.9	16.6	540.0
<b>Patan</b>	20.5	21.6	24.8	29.4	33.2	38.5	42.3	44.5	46.9	51.8	50.6	50.1	46.2	38.0	28.5	18.3	585.0
<b>Phaltan</b>	21.2	22.5	25.5	30.4	36.0	40.4	44.8	48.7	51.9	52.5	52.2	51.1	47.3	39.1	29.6	18.9	612.2
<b>Satara</b>	20.2	21.3	24.4	29.0	33.4	38.1	41.7	44.8	47.4	50.8	50.1	49.3	45.6	37.5	28.0	18.0	579.6
<b>Shirwal</b>	20.8	21.9	24.9	29.8	35.4	39.4	43.6	47.8	51.5	51.3	51.4	50.1	46.3	38.3	28.9	18.5	600.0
<b>Vaduj</b>	21.1	22.3	25.4	30.4	35.2	40.2	44.3	47.3	49.6	52.5	51.7	50.9	47.4	39.0	29.1	18.5	605.2
<b>Wai</b>	18.9	19.9	22.9	27.4	32.3	36.2	39.0	43.4	47.2	48.1	48.1	46.7	43.1	35.5	26.5	17.0	552.0

**Table No. B-69: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Satara District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dahivadi</b>	16.0	17.0	19.2	23.0	26.9	30.7	33.7	36.2	37.9	39.8	38.9	38.5	35.8	29.5	22.0	14.1	459.2
<b>Karad</b>	15.4	16.3	18.8	22.1	24.2	28.3	31.6	32.3	33.1	39.2	38.3	38.0	35.0	28.7	21.5	13.8	436.8
<b>Koregaon</b>	15.6	16.4	18.8	22.4	25.9	29.4	32.4	34.8	36.8	38.8	38.3	37.7	34.9	28.8	21.6	13.8	446.4
<b>Mahabaleshwar</b>	12.6	13.3	15.5	18.6	22.1	24.7	25.8	29.6	32.9	33.5	33.7	32.4	29.9	24.4	18.1	11.6	378.8
<b>Medha</b>	13.8	14.6	16.8	20.1	23.5	26.6	28.4	31.6	34.4	35.5	35.5	34.5	31.8	26.1	19.4	12.5	405.0
<b>Patan</b>	15.3	16.2	18.6	22.1	24.9	28.8	31.7	33.4	35.2	38.8	38.0	37.6	34.6	28.5	21.4	13.7	438.7
<b>Phaltan</b>	15.9	16.9	19.1	22.8	27.0	30.3	33.6	36.5	38.9	39.4	39.2	38.3	35.5	29.3	22.2	14.2	459.2
<b>Satara</b>	15.1	16.0	18.3	21.8	25.1	28.6	31.3	33.6	35.6	38.1	37.6	37.0	34.2	28.1	21.0	13.5	434.7
<b>Shirwal</b>	15.6	16.4	18.7	22.4	26.5	29.5	32.7	35.9	38.6	38.5	38.6	37.6	34.7	28.8	21.7	13.9	450.0
<b>Vaduj</b>	15.9	16.8	19.1	22.8	26.4	30.2	33.2	35.5	37.2	39.4	38.8	38.2	35.6	29.3	21.8	13.9	453.9
<b>Wai</b>	14.2	14.9	17.1	20.5	24.2	27.2	29.3	32.5	35.4	36.0	36.1	35.0	32.3	26.6	19.8	12.7	414.0

**Table No. B-70: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Satara District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dahivadi</b>	15.1	16.0	18.1	21.6	25.4	28.9	31.7	34.1	35.7	37.4	36.7	36.2	33.7	27.7	20.7	13.3	432.2
<b>Karad</b>	14.5	15.3	17.7	20.8	22.8	26.7	29.7	30.4	31.2	36.9	36.1	35.7	33.0	27.0	20.3	13.0	411.1
<b>Koregaon</b>	14.6	15.5	17.6	21.0	24.4	27.7	30.5	32.8	34.7	36.5	36.1	35.5	32.8	27.1	20.3	13.0	420.2
<b>Mahabaleshwar</b>	11.9	12.6	14.6	17.5	20.8	23.3	24.3	27.8	31.0	31.5	31.8	30.5	28.1	23.0	17.0	11.0	356.5
<b>Medha</b>	13.0	13.7	15.8	18.9	22.2	25.0	26.7	29.7	32.4	33.4	33.4	32.4	29.9	24.6	18.3	11.7	381.2
<b>Patan</b>	14.4	15.2	17.5	20.8	23.5	27.1	29.8	31.4	33.1	36.6	35.7	35.4	32.6	26.8	20.1	12.9	412.9
<b>Phaltan</b>	15.0	15.9	18.0	21.5	25.4	28.5	31.6	34.4	36.6	37.1	36.9	36.1	33.4	27.6	20.9	13.3	432.2
<b>Satara</b>	14.2	15.0	17.2	20.5	23.6	26.9	29.5	31.6	33.5	35.9	35.4	34.8	32.2	26.5	19.8	12.7	409.2
<b>Shirwal</b>	14.7	15.5	17.6	21.0	25.0	27.8	30.8	33.7	36.4	36.2	36.3	35.4	32.7	27.1	20.4	13.1	423.5
<b>Vaduj</b>	14.9	15.8	18.0	21.5	24.9	28.4	31.2	33.4	35.0	37.1	36.5	36.0	33.5	27.6	20.5	13.1	427.2
<b>Wai</b>	13.3	14.0	16.1	19.3	22.8	25.6	27.6	30.6	33.3	33.9	34.0	33.0	30.4	25.0	18.7	12.0	389.7

**Table No. B-71: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Satara District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dahivadi</b>	14.2	15.1	17.1	20.4	24.0	27.3	29.9	32.2	33.7	35.3	34.6	34.2	31.8	26.2	19.6	12.5	408.2
<b>Karad</b>	13.7	14.5	16.7	19.7	21.5	25.2	28.1	28.7	29.4	34.9	34.1	33.7	31.1	25.5	19.1	12.3	388.2
<b>Koregaon</b>	13.8	14.6	16.7	19.9	23.0	26.1	28.8	31.0	32.8	34.5	34.1	33.5	31.0	25.6	19.2	12.3	396.8
<b>Mahabaleshwar</b>	11.2	11.9	13.8	16.6	19.6	22.0	23.0	26.3	29.3	29.7	30.0	28.8	26.5	21.7	16.1	10.3	336.7
<b>Medha</b>	12.3	12.9	14.9	17.8	20.9	23.6	25.3	28.1	30.6	31.6	31.6	30.6	28.2	23.2	17.3	11.1	360.0
<b>Patan</b>	13.6	14.4	16.5	19.6	22.1	25.6	28.2	29.7	31.3	34.5	33.7	33.4	30.8	25.3	19.0	12.2	390.0
<b>Phaltan</b>	14.2	15.0	17.0	20.3	24.0	26.9	29.9	32.5	34.6	35.0	34.8	34.1	31.5	26.1	19.7	12.6	408.1
<b>10</b>	13.5	14.2	16.2	19.3	22.3	25.4	27.8	29.9	31.6	33.9	33.4	32.9	30.4	25.0	18.7	12.0	386.4
<b>Shirwal</b>	13.9	14.6	16.6	19.9	23.6	26.3	29.1	31.9	34.4	34.2	34.3	33.4	30.9	25.6	19.3	12.3	400.0
<b>Vaduj</b>	14.1	14.9	17.0	20.3	23.5	26.8	29.5	31.6	33.1	35.0	34.5	34.0	31.6	26.0	19.4	12.4	403.5
<b>Wai</b>	12.6	13.3	15.2	18.2	21.5	24.1	26.0	28.9	31.5	32.0	32.1	31.1	28.7	23.7	17.6	11.3	368.0

**Table No. B-72: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Satara District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Dahivadi</b>	13.5	14.3	16.2	19.4	22.7	25.8	28.3	30.5	31.9	33.5	32.8	32.4	30.1	24.8	18.5	11.9	386.7
<b>Karad</b>	13.0	13.7	15.8	18.6	20.4	23.9	26.6	27.2	27.9	33.0	32.3	32.0	29.5	24.2	18.1	11.7	367.8
<b>Koregaon</b>	13.1	13.8	15.8	18.8	21.8	24.7	27.3	29.3	31.0	32.7	32.3	31.8	29.4	24.2	18.2	11.6	375.9
<b>Mahabaleshwar</b>	10.7	11.2	13.1	15.7	18.6	20.8	21.8	24.9	27.7	28.2	28.4	27.3	25.1	20.6	15.2	9.8	319.0
<b>Medha</b>	11.6	12.3	14.1	16.9	19.8	22.4	23.9	26.6	29.0	29.9	29.9	29.0	26.7	22.0	16.3	10.5	341.0
<b>Patan</b>	12.9	13.6	15.7	18.6	21.0	24.3	26.7	28.1	29.6	32.7	32.0	31.6	29.2	24.0	18.0	11.5	369.5
<b>Phaltan</b>	13.4	14.2	16.1	19.2	22.8	25.5	28.3	30.8	32.8	33.2	33.0	32.3	29.9	24.7	18.7	11.9	386.7
<b>Satara</b>	12.7	13.4	15.4	18.3	21.1	24.1	26.4	28.3	30.0	32.1	31.6	31.2	28.8	23.7	17.7	11.3	366.1
<b>Shirwal</b>	13.1	13.8	15.7	18.8	22.3	24.9	27.5	30.2	32.5	32.4	32.5	31.6	29.2	24.2	18.3	11.7	378.9
<b>Vaduj</b>	13.4	14.1	16.1	19.2	22.2	25.4	28.0	29.9	31.3	33.2	32.6	32.2	29.9	24.7	18.4	11.7	382.3
<b>Wai</b>	11.9	12.6	14.4	17.3	20.4	22.9	24.7	27.4	29.8	30.4	30.4	29.5	27.2	22.4	16.7	10.7	348.6

**Taluka wise Crop and Irrigation Water Requirement (mm) of *rabi* Gram by Different Irrigation Methods, Ignoring Effective Rainfall in Solapur District**

**Table No. B-73: Taluka Wise Crop Water Requirement (mm) of *rabi* Gram in Solapur District**

Taluka	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	MW	Seasonal WR (mm)
	44	45	46	47	48	49	50	51	52	1	2	3	4	5	6	7	
	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	CW	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
<b>Akalkot</b>	13.1	14.3	16.2	19.5	23.7	27.5	30.4	33.6	35.3	36.0	35.9	35.1	32.6	27.0	20.2	13.0	413.3
<b>Barsi</b>	13.2	14.4	16.3	19.7	23.8	28.1	31.1	34.4	36.0	37.0	36.8	35.9	33.4	27.6	20.8	13.4	422.0
<b>Karmal</b>	12.9	13.9	15.8	18.5	22.2	24.9	27.9	30.5	32.6	33.2	33.0	31.5	29.2	24.4	18.5	12.0	381.3
<b>Madha</b>	13.1	14.1	15.9	19.0	22.9	26.1	29.0	31.8	33.6	34.0	33.8	32.6	30.2	25.1	19.0	12.2	392.4
<b>Malsiras</b>	13.0	13.9	15.7	18.7	22.3	25.3	27.7	30.1	31.5	32.4	31.9	31.2	29.0	24.0	18.1	11.6	376.1
<b>Mangalwedha</b>	13.2	14.1	15.9	19.0	23.0	26.1	28.6	31.3	32.7	32.9	32.5	31.9	29.5	24.3	18.3	11.7	385.1
<b>Mohol</b>	13.3	14.3	16.0	19.1	23.2	26.4	29.2	32.0	33.8	33.5	33.4	32.4	29.8	24.5	18.5	11.9	391.4
<b>south-Solapur</b>	13.3	14.3	16.0	19.3	23.3	26.6	29.3	32.2	33.9	33.9	33.8	33.1	30.6	25.4	19.0	12.2	396.1
<b>Pandharpur</b>	13.1	14.0	15.7	18.9	22.9	25.7	28.1	30.8	32.3	32.0	31.7	30.8	28.6	23.7	17.9	11.4	377.5
<b>Sangole</b>	13.0	13.9	15.7	18.8	22.5	25.5	27.8	30.1	31.1	32.3	31.5	31.2	29.0	23.9	17.9	11.5	375.8
<b>Solapur</b>	13.3	14.3	16.0	19.2	23.3	26.4	29.2	32.0	33.7	33.7	33.6	32.8	30.4	25.2	18.8	12.2	394.3

**Table No. B-74: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 40% efficiency in Solapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akalkot</b>	32.8	35.7	40.4	48.8	59.2	68.7	76.0	84.1	88.2	90.0	89.7	87.8	81.4	67.4	50.5	32.6	1033.3
<b>Barsi</b>	33.1	35.9	40.8	49.3	59.5	70.2	77.8	86.0	89.9	92.5	92.1	89.9	83.5	69.0	52.0	33.6	1055.0
<b>Karmal</b>	32.3	34.8	39.5	46.4	55.5	62.3	69.8	76.3	81.4	83.1	82.6	78.7	73.0	61.0	46.3	30.0	953.2
<b>Madha</b>	32.7	35.3	39.9	47.5	57.3	65.3	72.4	79.4	83.9	84.9	84.5	81.5	75.6	62.7	47.4	30.5	981.0
<b>Malsiras</b>	32.4	34.7	39.1	46.7	55.7	63.1	69.3	75.3	78.7	81.0	79.7	78.0	72.5	59.9	45.1	28.9	940.3
<b>Mangalwedha</b>	32.9	35.3	39.7	47.6	57.6	65.2	71.6	78.2	81.7	82.3	81.4	79.7	73.7	60.7	45.6	29.3	962.6
<b>Mohol</b>	33.2	35.7	39.9	47.8	58.1	66.0	73.1	79.9	84.6	83.8	83.6	81.1	74.5	61.2	46.2	29.8	978.5
<b>south-Solapur</b>	33.2	35.7	40.1	48.1	58.3	66.4	73.3	80.5	84.7	84.8	84.6	82.7	76.5	63.5	47.4	30.6	990.3
<b>Pandharpur</b>	32.7	35.1	39.3	47.2	57.4	64.3	70.2	77.0	80.7	79.9	79.2	77.0	71.6	59.1	44.7	28.5	943.8
<b>Sangole</b>	32.6	34.8	39.4	47.1	56.2	63.9	69.6	75.2	77.7	80.7	78.6	78.1	72.5	59.7	44.8	28.7	939.5
<b>Solapur</b>	33.3	35.8	40.1	48.1	58.2	66.1	73.0	80.1	84.3	84.2	84.1	82.1	75.9	63.1	47.1	30.4	985.8



**Table No. B-75: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 50% efficiency in Solapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akalkot</b>	26.2	28.6	32.3	39.0	47.4	55.0	60.8	67.3	70.6	72.0	71.7	70.2	65.2	53.9	40.4	26.1	826.7
<b>Barsi</b>	26.5	28.7	32.6	39.4	47.6	56.1	62.2	68.8	71.9	74.0	73.7	71.9	66.8	55.2	41.6	26.9	844.0
<b>Karmal</b>	25.9	27.9	31.6	37.1	44.4	49.9	55.9	61.0	65.1	66.5	66.1	63.0	58.4	48.8	37.1	24.0	762.5
<b>Madha</b>	26.2	28.3	31.9	38.0	45.8	52.3	57.9	63.5	67.1	67.9	67.6	65.2	60.5	50.1	37.9	24.4	784.8
<b>Malsiras</b>	25.9	27.7	31.3	37.3	44.5	50.5	55.5	60.2	63.0	64.8	63.8	62.4	58.0	47.9	36.1	23.1	752.2
<b>Mangalwedha</b>	26.3	28.3	31.8	38.1	46.1	52.2	57.3	62.5	65.3	65.9	65.1	63.8	59.0	48.6	36.5	23.5	770.1
<b>Mohol</b>	26.6	28.6	31.9	38.2	46.5	52.8	58.4	63.9	67.6	67.0	66.9	64.9	59.6	49.0	36.9	23.8	782.8
<b>south-Solapur</b>	26.6	28.6	32.1	38.5	46.7	53.1	58.6	64.4	67.7	67.8	67.7	66.2	61.2	50.8	37.9	24.5	792.3
<b>Pandharpur</b>	26.2	28.0	31.5	37.8	45.9	51.4	56.1	61.6	64.6	63.9	63.4	61.6	57.2	47.3	35.8	22.8	755.0
<b>Sangole</b>	26.1	27.9	31.5	37.7	44.9	51.1	55.6	60.2	62.1	64.6	62.9	62.4	58.0	47.8	35.8	23.0	751.6
<b>Solapur</b>	26.6	28.6	32.1	38.5	46.6	52.9	58.4	64.1	67.5	67.3	67.3	65.7	60.7	50.5	37.7	24.3	788.6

**Table No. B-76: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Surface Irrigation at 60% efficiency in Solapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akalkot</b>	21.9	23.8	26.9	32.5	39.5	45.8	50.7	56.1	58.8	60.0	59.8	58.5	54.3	44.9	33.7	21.7	688.9
<b>Barsi</b>	22.1	23.9	27.2	32.9	39.6	46.8	51.9	57.3	59.9	61.7	61.4	59.9	55.7	46.0	34.6	22.4	703.3
<b>Karmal</b>	21.5	23.2	26.4	30.9	37.0	41.6	46.6	50.8	54.3	55.4	55.1	52.5	48.7	40.7	30.9	20.0	635.5
<b>Madha</b>	21.8	23.5	26.6	31.7	38.2	43.6	48.3	53.0	55.9	56.6	56.3	54.3	50.4	41.8	31.6	20.4	654.0
<b>Malsiras</b>	21.6	23.1	26.1	31.1	37.1	42.1	46.2	50.2	52.5	54.0	53.2	52.0	48.3	39.9	30.1	19.3	626.9
<b>Mangalwedha</b>	22.0	23.6	26.5	31.7	38.4	43.5	47.7	52.1	54.5	54.9	54.2	53.2	49.2	40.5	30.4	19.6	641.8
<b>Mohol</b>	22.1	23.8	26.6	31.9	38.7	44.0	48.7	53.3	56.4	55.9	55.7	54.1	49.7	40.8	30.8	19.8	652.3
<b>south-Solapur</b>	22.1	23.8	26.7	32.1	38.9	44.3	48.9	53.7	56.4	56.5	56.4	55.1	51.0	42.3	31.6	20.4	660.2
<b>Pandharpur</b>	21.8	23.4	26.2	31.5	38.2	42.9	46.8	51.3	53.8	53.3	52.8	51.3	47.7	39.4	29.8	19.0	629.2
<b>Sangole</b>	21.7	23.2	26.2	31.4	37.4	42.6	46.4	50.1	51.8	53.8	52.4	52.0	48.3	39.8	29.9	19.1	626.3
<b>Solapur</b>	22.2	23.8	26.7	32.1	38.8	44.1	48.6	53.4	56.2	56.1	56.1	54.7	50.6	42.1	31.4	20.3	657.2

**Table No. B-77: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 80% efficiency in Solapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akalkot</b>	16.4	17.8	20.2	24.4	29.6	34.4	38.0	42.1	44.1	45.0	44.8	43.9	40.7	33.7	25.3	16.3	516.7
<b>Barsi</b>	16.6	18.0	20.4	24.7	29.7	35.1	38.9	43.0	44.9	46.3	46.0	44.9	41.7	34.5	26.0	16.8	527.5
<b>Karmal</b>	16.2	17.4	19.8	23.2	27.7	31.2	34.9	38.1	40.7	41.5	41.3	39.4	36.5	30.5	23.2	15.0	476.6
<b>Madha</b>	16.4	17.7	19.9	23.8	28.6	32.7	36.2	39.7	42.0	42.5	42.2	40.8	37.8	31.3	23.7	15.3	490.5
<b>Malsiras</b>	16.2	17.3	19.6	23.3	27.8	31.6	34.7	37.7	39.4	40.5	39.9	39.0	36.2	30.0	22.6	14.5	470.2
<b>Mangalwedha</b>	16.5	17.7	19.9	23.8	28.8	32.6	35.8	39.1	40.8	41.2	40.7	39.9	36.9	30.4	22.8	14.7	481.3
<b>Mohol</b>	16.6	17.9	20.0	23.9	29.1	33.0	36.5	39.9	42.3	41.9	41.8	40.6	37.3	30.6	23.1	14.9	489.2
<b>south-Solapur</b>	16.6	17.9	20.0	24.1	29.2	33.2	36.6	40.2	42.3	42.4	42.3	41.4	38.2	31.7	23.7	15.3	495.2
<b>Pandharpur</b>	16.3	17.5	19.7	23.6	28.7	32.2	35.1	38.5	40.4	39.9	39.6	38.5	35.8	29.6	22.3	14.3	471.9
<b>Sangole</b>	16.3	17.4	19.7	23.6	28.1	31.9	34.8	37.6	38.8	40.4	39.3	39.0	36.2	29.8	22.4	14.4	469.7
<b>Solapur</b>	16.6	17.9	20.0	24.0	29.1	33.0	36.5	40.1	42.2	42.1	42.1	41.1	38.0	31.6	23.5	15.2	492.9

**Table No. B-78: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Sprinkler Irrigation at 85% efficiency in Solapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akalkot</b>	15.4	16.8	19.0	22.9	27.9	32.3	35.8	39.6	41.5	42.4	42.2	41.3	38.3	31.7	23.8	15.3	486.3
<b>Barsi</b>	15.6	16.9	19.2	23.2	28.0	33.0	36.6	40.5	42.3	43.5	43.3	42.3	39.3	32.5	24.4	15.8	496.5
<b>Karmal</b>	15.2	16.4	18.6	21.8	26.1	29.3	32.9	35.9	38.3	39.1	38.9	37.0	34.4	28.7	21.8	14.1	448.6
<b>Madha</b>	15.4	16.6	18.8	22.4	27.0	30.7	34.1	37.4	39.5	40.0	39.7	38.4	35.6	29.5	22.3	14.4	461.6
<b>Malsiras</b>	15.3	16.3	18.4	22.0	26.2	29.7	32.6	35.4	37.1	38.1	37.5	36.7	34.1	28.2	21.2	13.6	442.5
<b>Mangalwedha</b>	15.5	16.6	18.7	22.4	27.1	30.7	33.7	36.8	38.4	38.7	38.3	37.5	34.7	28.6	21.5	13.8	453.0
<b>Mohol</b>	15.6	16.8	18.8	22.5	27.4	31.1	34.4	37.6	39.8	39.4	39.3	38.2	35.1	28.8	21.7	14.0	460.4
<b>south-Solapur</b>	15.6	16.8	18.9	22.7	27.4	31.2	34.5	37.9	39.8	39.9	39.8	38.9	36.0	29.9	22.3	14.4	466.0
<b>Pandharpur</b>	15.4	16.5	18.5	22.2	27.0	30.3	33.0	36.2	38.0	37.6	37.3	36.2	33.7	27.8	21.0	13.4	444.1
<b>Sangole</b>	15.3	16.4	18.5	22.2	26.4	30.1	32.7	35.4	36.6	38.0	37.0	36.7	34.1	28.1	21.1	13.5	442.1
<b>Solapur</b>	15.7	16.8	18.9	22.6	27.4	31.1	34.3	37.7	39.7	39.6	39.6	38.6	35.7	29.7	22.2	14.3	463.9

**Table No. B-79: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 90% efficiency in Solapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akalkot</b>	14.6	15.9	18.0	21.7	26.3	30.5	33.8	37.4	39.2	40.0	39.8	39.0	36.2	30.0	22.4	14.5	459.3
<b>Barsi</b>	14.7	16.0	18.1	21.9	26.4	31.2	34.6	38.2	40.0	41.1	40.9	39.9	37.1	30.7	23.1	14.9	468.9
<b>Karmal</b>	14.4	15.5	17.6	20.6	24.7	27.7	31.0	33.9	36.2	36.9	36.7	35.0	32.5	27.1	20.6	13.3	423.6
<b>Madha</b>	14.6	15.7	17.7	21.1	25.5	29.0	32.2	35.3	37.3	37.7	37.5	36.2	33.6	27.9	21.1	13.6	436.0
<b>Malsiras</b>	14.4	15.4	17.4	20.7	24.7	28.1	30.8	33.5	35.0	36.0	35.4	34.7	32.2	26.6	20.1	12.9	417.9
<b>Mangalwedha</b>	14.6	15.7	17.6	21.2	25.6	29.0	31.8	34.7	36.3	36.6	36.2	35.4	32.8	27.0	20.3	13.0	427.8
<b>Mohol</b>	14.8	15.9	17.7	21.2	25.8	29.3	32.5	35.5	37.6	37.2	37.1	36.1	33.1	27.2	20.5	13.2	434.9
<b>south-Solapur</b>	14.8	15.9	17.8	21.4	25.9	29.5	32.6	35.8	37.6	37.7	37.6	36.8	34.0	28.2	21.1	13.6	440.1
<b>Pandharpur</b>	14.5	15.6	17.5	21.0	25.5	28.6	31.2	34.2	35.9	35.5	35.2	34.2	31.8	26.3	19.9	12.7	419.5
<b>Sangole</b>	14.5	15.5	17.5	20.9	25.0	28.4	30.9	33.4	34.5	35.9	34.9	34.7	32.2	26.5	19.9	12.8	417.6
<b>Solapur</b>	14.8	15.9	17.8	21.4	25.9	29.4	32.4	35.6	37.5	37.4	37.4	36.5	33.7	28.0	20.9	13.5	438.1

**Table No. B-80: Taluka Wise Irrigation Water Requirement (mm) of *rabi* Gram by Drip Irrigation at 95% efficiency in Solapur District**

Taluka	MW 44	MW 45	MW 46	MW 47	MW 48	MW 49	MW 50	MW 51	MW 52	MW 1	MW 2	MW 3	MW 4	MW 5	MW 6	MW 7	Seasonal WR (mm)
	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	CW 14	CW 15	CW 16	
<b>Akalkot</b>	13.8	15.0	17.0	20.5	24.9	28.9	32.0	35.4	37.1	37.9	37.8	37.0	34.3	28.4	21.3	13.7	435.1
<b>Barsi</b>	13.9	15.1	17.2	20.8	25.0	29.5	32.8	36.2	37.9	39.0	38.8	37.8	35.2	29.1	21.9	14.1	444.2
<b>Karmal</b>	13.6	14.7	16.6	19.5	23.4	26.3	29.4	32.1	34.3	35.0	34.8	33.1	30.7	25.7	19.5	12.6	401.3
<b>Madha</b>	13.8	14.9	16.8	20.0	24.1	27.5	30.5	33.4	35.3	35.8	35.6	34.3	31.8	26.4	20.0	12.9	413.0
<b>Malsiras</b>	13.7	14.6	16.5	19.7	23.4	26.6	29.2	31.7	33.2	34.1	33.6	32.8	30.5	25.2	19.0	12.2	395.9
<b>Mangalwedha</b>	13.9	14.9	16.7	20.0	24.2	27.4	30.1	32.9	34.4	34.7	34.3	33.6	31.0	25.6	19.2	12.4	405.3
<b>Mohol</b>	14.0	15.0	16.8	20.1	24.5	27.8	30.8	33.6	35.6	35.3	35.2	34.2	31.4	25.8	19.4	12.5	412.0
<b>south-Solapur</b>	14.0	15.0	16.9	20.3	24.6	28.0	30.9	33.9	35.6	35.7	35.6	34.8	32.2	26.7	20.0	12.9	417.0
<b>Pandharpur</b>	13.8	14.8	16.6	19.9	24.2	27.1	29.6	32.4	34.0	33.6	33.4	32.4	30.1	24.9	18.8	12.0	397.4
<b>Sangole</b>	13.7	14.7	16.6	19.8	23.6	26.9	29.3	31.7	32.7	34.0	33.1	32.9	30.5	25.1	18.9	12.1	395.6
<b>Solapur</b>	14.0	15.1	16.9	20.2	24.5	27.8	30.7	33.7	35.5	35.4	35.4	34.6	32.0	26.6	19.8	12.8	415.1

**APPENDIX – C**

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra (with single cut) by Different Irrigation Methods, Ignoring Effective Rainfall in Ten Districts of Western Maharashtra**

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Ahmednagar District**

**Table No. C-1: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	13.5	14.3	20.3	27.9	35.4	42.6	46.6	50.2	47.6	45.6	36.4	29.4	20.3	10.4	9.8	<b>450.6</b>
<b>Shevgaon</b>	14.4	15.3	21.1	28.1	34.8	39.9	47.0	50.3	47.7	43.5	34.6	27.2	16.2	12.4	8.9	<b>441.2</b>
<b>Pathardi</b>	14.3	15.2	21.0	28.1	34.7	40.0	46.9	50.1	47.6	43.6	34.7	27.5	16.5	12.2	9.0	<b>441.5</b>
<b>Parner</b>	13.8	14.8	20.7	28.0	35.0	41.3	46.2	49.7	46.7	43.8	35.3	28.0	18.3	10.9	9.3	<b>441.8</b>
<b>Sangamner</b>	14.6	15.5	21.3	28.0	34.8	38.9	46.2	50.6	47.4	42.4	33.7	26.0	14.8	12.0	8.5	<b>434.7</b>
<b>Kopargaon</b>	14.4	14.5	20.8	27.2	34.6	38.0	47.8	52.3	47.8	43.4	33.4	27.8	13.8	12.5	8.5	<b>436.7</b>
<b>Akole</b>	14.7	16.0	21.6	28.1	34.6	38.8	45.0	49.4	46.6	41.0	32.6	24.2	14.6	11.2	8.2	<b>426.7</b>
<b>Shrirampur</b>	14.3	14.9	21.0	27.8	34.8	38.8	47.2	51.4	47.2	42.5	33.9	26.6	14.4	12.6	8.5	<b>436.0</b>
<b>Newasa</b>	14.3	15.1	21.0	28.1	34.9	39.4	47.0	50.9	47.1	42.5	34.4	26.3	15.1	12.5	8.7	<b>437.2</b>
<b>Rahata</b>	14.3	14.4	20.8	27.1	34.5	37.9	47.8	52.2	47.7	43.3	33.3	27.8	13.7	12.5	8.5	<b>435.8</b>
<b>Rahuri</b>	14.2	14.7	20.8	28.3	34.7	38.8	47.3	51.4	46.3	40.9	34.1	25.0	13.2	13.5	8.2	<b>431.5</b>
<b>Shrigonda</b>	14.1	15.3	20.9	27.9	34.3	40.1	45.8	48.9	45.9	42.6	34.3	27.7	17.3	11.4	9.0	<b>435.4</b>
<b>Karjat</b>	14.2	15.5	21.1	27.9	34.2	39.8	45.9	49.2	46.0	42.6	34.4	28.0	17.1	12.3	9.1	<b>437.2</b>
<b>Jamkhed</b>	14.3	15.2	21.3	27.6	34.6	40.2	45.7	49.3	46.1	43.2	34.2	27.1	17.2	12.6	9.2	<b>437.8</b>



**Table No. C-2: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	33.7	35.8	50.9	69.9	88.6	106.4	116.6	125.5	119.1	114.0	91.1	73.5	50.8	26.0	24.5	<b>1126.4</b>
<b>Shevgaon</b>	35.9	38.2	52.7	70.3	87.0	99.6	117.6	125.7	119.2	108.7	86.5	68.0	40.4	31.0	22.2	<b>1103.1</b>
<b>Pathardi</b>	35.7	38.0	52.5	70.1	86.9	100.1	117.4	125.2	119.1	109.1	86.6	68.8	41.4	30.6	22.4	<b>1103.8</b>
<b>Parner</b>	34.5	36.9	51.7	69.9	87.5	103.4	115.5	124.3	116.7	109.4	88.2	70.1	45.8	27.3	23.3	<b>1104.4</b>
<b>Sangamner</b>	36.5	38.6	53.2	70.1	87.0	97.2	115.6	126.5	118.5	105.9	84.1	65.1	37.1	29.9	21.4	<b>1086.8</b>
<b>Kopargaon</b>	35.9	36.3	52.1	67.9	86.4	94.9	119.5	130.7	119.5	108.6	83.4	69.5	34.4	31.1	21.4	<b>1091.8</b>
<b>Akole</b>	36.8	39.9	54.0	70.2	86.6	96.9	112.4	123.5	116.6	102.6	81.5	60.6	36.5	28.0	20.6	<b>1066.8</b>
<b>Shrirampur</b>	35.9	37.2	52.4	69.6	86.9	97.0	118.1	128.5	118.1	106.3	84.9	66.4	35.9	31.5	21.4	<b>1090.0</b>
<b>Newasa</b>	35.8	37.7	52.5	70.3	87.2	98.5	117.4	127.2	117.8	106.1	85.9	65.6	37.8	31.3	21.7	<b>1092.9</b>
<b>Rahata</b>	35.8	36.1	52.0	67.8	86.2	94.9	119.6	130.5	119.2	108.4	83.2	69.5	34.2	31.2	21.3	<b>1089.6</b>
<b>Rahuri</b>	35.5	36.8	52.1	70.7	86.8	96.9	118.3	128.6	115.8	102.2	85.3	62.4	33.1	33.7	20.5	<b>1078.7</b>
<b>Shrigonda</b>	35.2	38.2	52.3	69.8	85.8	100.2	114.6	122.2	114.8	106.6	85.6	69.2	43.2	28.5	22.6	<b>1088.6</b>
<b>Karjat</b>	35.6	38.8	52.8	69.7	85.6	99.5	114.7	122.9	114.9	106.4	86.0	69.9	42.8	30.7	22.7	<b>1093.1</b>
<b>Jamkhed</b>	35.8	38.0	53.3	69.0	86.5	100.5	114.3	123.3	115.3	108.0	85.5	67.8	43.0	31.5	23.0	<b>1094.5</b>

**Table No. C-3: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	27.0	28.6	40.7	55.9	70.9	85.1	93.3	100.4	95.2	91.2	72.9	58.8	40.6	20.8	19.6	<b>901.2</b>
<b>Shevgaon</b>	28.8	30.5	42.2	56.2	69.6	79.7	94.1	100.6	95.4	86.9	69.2	54.4	32.3	24.8	17.8	<b>882.4</b>
<b>Pathardi</b>	28.6	30.4	42.0	56.1	69.5	80.1	93.9	100.2	95.3	87.3	69.3	55.0	33.1	24.5	17.9	<b>883.1</b>
<b>Parner</b>	27.6	29.5	41.3	55.9	70.0	82.7	92.4	99.4	93.4	87.5	70.5	56.0	36.7	21.8	18.7	<b>883.5</b>
<b>Sangamner</b>	29.2	30.9	42.6	56.1	69.6	77.8	92.5	101.2	94.8	84.7	67.3	52.1	29.7	23.9	17.1	<b>869.4</b>
<b>Kopargaon</b>	28.8	29.0	41.7	54.4	69.1	75.9	95.6	104.5	95.6	86.9	66.7	55.6	27.5	24.9	17.1	<b>873.4</b>
<b>Akole</b>	29.5	31.9	43.2	56.2	69.3	77.5	89.9	98.8	93.3	82.1	65.2	48.5	29.2	22.4	16.5	<b>853.4</b>
<b>Shrirampur</b>	28.7	29.7	41.9	55.7	69.5	77.6	94.5	102.8	94.5	85.1	67.9	53.1	28.7	25.2	17.1	<b>872.0</b>
<b>Newasa</b>	28.6	30.1	42.0	56.2	69.7	78.8	93.9	101.8	94.2	84.9	68.7	52.5	30.3	25.0	17.3	<b>874.3</b>
<b>Rahata</b>	28.7	28.9	41.6	54.2	69.0	75.9	95.7	104.4	95.3	86.7	66.5	55.6	27.4	24.9	17.0	<b>871.7</b>
<b>Rahuri</b>	28.4	29.4	41.7	56.6	69.5	77.5	94.6	102.9	92.6	81.7	68.2	50.0	26.5	26.9	16.4	<b>863.0</b>
<b>Shrigonda</b>	28.1	30.5	41.8	55.8	68.7	80.1	91.7	97.7	91.8	85.3	68.5	55.3	34.5	22.8	18.1	<b>870.9</b>
<b>Karjat</b>	28.5	31.0	42.2	55.8	68.5	79.6	91.8	98.3	91.9	85.1	68.8	55.9	34.3	24.6	18.1	<b>874.5</b>
<b>Jamkhed</b>	28.6	30.4	42.6	55.2	69.2	80.4	91.4	98.6	92.2	86.4	68.4	54.2	34.4	25.2	18.4	<b>875.6</b>

**Table No. C-4: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	22.5	23.9	33.9	46.6	59.1	70.9	77.7	83.7	79.4	76.0	60.7	49.0	33.9	17.3	16.4	<b>751.0</b>
<b>Shevgaon</b>	24.0	25.4	35.1	46.8	58.0	66.4	78.4	83.8	79.5	72.5	57.6	45.4	27.0	20.7	14.8	<b>735.4</b>
<b>Pathardi</b>	23.8	25.3	35.0	46.8	57.9	66.7	78.2	83.5	79.4	72.7	57.8	45.8	27.6	20.4	14.9	<b>735.9</b>
<b>Parner</b>	23.0	24.6	34.4	46.6	58.3	68.9	77.0	82.9	77.8	72.9	58.8	46.7	30.6	18.2	15.6	<b>736.3</b>
<b>Sangamner</b>	24.3	25.8	35.5	46.7	58.0	64.8	77.1	84.4	79.0	70.6	56.1	43.4	24.7	19.9	14.2	<b>724.5</b>
<b>Kopargaon</b>	24.0	24.2	34.7	45.3	57.6	63.3	79.7	87.1	79.7	72.4	55.6	46.4	23.0	20.8	14.2	<b>727.8</b>
<b>Akole</b>	24.6	26.6	36.0	46.8	57.7	64.6	74.9	82.3	77.7	68.4	54.3	40.4	24.3	18.7	13.7	<b>711.2</b>
<b>Shrirampur</b>	23.9	24.8	34.9	46.4	57.9	64.7	78.7	85.7	78.7	70.9	56.6	44.3	24.0	21.0	14.2	<b>726.6</b>
<b>Newasa</b>	23.9	25.1	35.0	46.9	58.1	65.7	78.3	84.8	78.5	70.8	57.3	43.8	25.2	20.9	14.4	<b>728.6</b>
<b>Rahata</b>	23.9	24.1	34.6	45.2	57.5	63.2	79.7	87.0	79.4	72.2	55.4	46.3	22.8	20.8	14.2	<b>726.4</b>
<b>Rahuri</b>	23.7	24.5	34.7	47.2	57.9	64.6	78.9	85.7	77.2	68.1	56.9	41.6	22.1	22.4	13.7	<b>719.1</b>
<b>Shrigonda</b>	23.5	25.4	34.9	46.5	57.2	66.8	76.4	81.4	76.5	71.1	57.1	46.1	28.8	19.0	15.1	<b>725.7</b>
<b>Karjat</b>	23.7	25.9	35.2	46.5	57.1	66.3	76.5	81.9	76.6	70.9	57.3	46.6	28.5	20.5	15.1	<b>728.7</b>
<b>Jamkhed</b>	23.8	25.3	35.5	46.0	57.7	67.0	76.2	82.2	76.8	72.0	57.0	45.2	28.7	21.0	15.3	<b>729.7</b>

**Table No. C-5: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	16.9	17.9	25.4	34.9	44.3	53.2	58.3	62.8	59.5	57.0	45.5	36.7	25.4	13.0	12.3	<b>563.2</b>
<b>Shevgaon</b>	18.0	19.1	26.4	35.1	43.5	49.8	58.8	62.8	59.6	54.3	43.2	34.0	20.2	15.5	11.1	<b>551.5</b>
<b>Pathardi</b>	17.9	19.0	26.3	35.1	43.4	50.0	58.7	62.6	59.5	54.6	43.3	34.4	20.7	15.3	11.2	<b>551.9</b>
<b>Parner</b>	17.3	18.4	25.8	34.9	43.7	51.7	57.8	62.1	58.4	54.7	44.1	35.0	22.9	13.6	11.7	<b>552.2</b>
<b>Sangamner</b>	18.2	19.3	26.6	35.1	43.5	48.6	57.8	63.3	59.2	52.9	42.1	32.6	18.5	15.0	10.7	<b>543.4</b>
<b>Kopargaon</b>	18.0	18.1	26.0	34.0	43.2	47.5	59.8	65.3	59.8	54.3	41.7	34.8	17.2	15.6	10.7	<b>545.9</b>
<b>Akole</b>	18.4	19.9	27.0	35.1	43.3	48.5	56.2	61.7	58.3	51.3	40.8	30.3	18.2	14.0	10.3	<b>533.4</b>
<b>Shrirampur</b>	17.9	18.6	26.2	34.8	43.4	48.5	59.0	64.3	59.1	53.2	42.4	33.2	18.0	15.7	10.7	<b>545.0</b>
<b>Newasa</b>	17.9	18.8	26.3	35.1	43.6	49.3	58.7	63.6	58.9	53.1	43.0	32.8	18.9	15.6	10.8	<b>546.5</b>
<b>Rahata</b>	17.9	18.0	26.0	33.9	43.1	47.4	59.8	65.3	59.6	54.2	41.6	34.7	17.1	15.6	10.6	<b>544.8</b>
<b>Rahuri</b>	17.7	18.4	26.0	35.4	43.4	48.4	59.1	64.3	57.9	51.1	42.6	31.2	16.5	16.8	10.3	<b>539.3</b>
<b>Shrigonda</b>	17.6	19.1	26.1	34.9	42.9	50.1	57.3	61.1	57.4	53.3	42.8	34.6	21.6	14.3	11.3	<b>544.3</b>
<b>Karjat</b>	17.8	19.4	26.4	34.9	42.8	49.8	57.4	61.4	57.5	53.2	43.0	35.0	21.4	15.4	11.3	<b>546.5</b>
<b>Jamkhed</b>	17.9	19.0	26.6	34.5	43.3	50.3	57.1	61.6	57.6	54.0	42.8	33.9	21.5	15.8	11.5	<b>547.3</b>

**Table No. C-6: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	15.9	16.8	23.9	32.9	41.7	50.1	54.9	59.1	56.0	53.7	42.9	34.6	23.9	12.2	11.5	<b>530.1</b>
<b>Shevgaon</b>	16.9	18.0	24.8	33.1	40.9	46.9	55.3	59.1	56.1	51.1	40.7	32.0	19.0	14.6	10.5	<b>519.1</b>
<b>Pathardi</b>	16.8	17.9	24.7	33.0	40.9	47.1	55.2	58.9	56.0	51.4	40.8	32.4	19.5	14.4	10.5	<b>519.5</b>
<b>Parner</b>	16.2	17.4	24.3	32.9	41.2	48.6	54.4	58.5	54.9	51.5	41.5	33.0	21.6	12.8	11.0	<b>519.7</b>
<b>Sangamner</b>	17.2	18.2	25.1	33.0	40.9	45.7	54.4	59.6	55.8	49.8	39.6	30.6	17.4	14.1	10.1	<b>511.4</b>
<b>Kopargaon</b>	16.9	17.1	24.5	32.0	40.7	44.7	56.2	61.5	56.2	51.1	39.3	32.7	16.2	14.7	10.1	<b>513.8</b>
<b>Akole</b>	17.3	18.8	25.4	33.0	40.8	45.6	52.9	58.1	54.9	48.3	38.4	28.5	17.2	13.2	9.7	<b>502.0</b>
<b>Shrirampur</b>	16.9	17.5	24.7	32.8	40.9	45.7	55.6	60.5	55.6	50.0	39.9	31.2	16.9	14.8	10.1	<b>512.9</b>
<b>Newasa</b>	16.8	17.7	24.7	33.1	41.0	46.4	55.2	59.9	55.4	50.0	40.4	30.9	17.8	14.7	10.2	<b>514.3</b>
<b>Rahata</b>	16.9	17.0	24.5	31.9	40.6	44.6	56.3	61.4	56.1	51.0	39.1	32.7	16.1	14.7	10.0	<b>512.8</b>
<b>Rahuri</b>	16.7	17.3	24.5	33.3	40.9	45.6	55.7	60.5	54.5	48.1	40.1	29.4	15.6	15.8	9.7	<b>507.6</b>
<b>Shrigonda</b>	16.6	18.0	24.6	32.8	40.4	47.1	53.9	57.5	54.0	50.2	40.3	32.5	20.3	13.4	10.6	<b>512.3</b>
<b>Karjat</b>	16.8	18.3	24.8	32.8	40.3	46.8	54.0	57.8	54.1	50.1	40.5	32.9	20.1	14.4	10.7	<b>514.4</b>
<b>Jamkhed</b>	16.8	17.9	25.1	32.5	40.7	47.3	53.8	58.0	54.2	50.8	40.2	31.9	20.2	14.8	10.8	<b>515.1</b>

**Table No. C-7: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	15.0	15.9	22.6	31.1	39.4	47.3	51.8	55.8	52.9	50.7	40.5	32.7	22.6	11.6	10.9	<b>500.6</b>
<b>Shevgaon</b>	16.0	17.0	23.4	31.2	38.7	44.3	52.3	55.9	53.0	48.3	38.4	30.2	18.0	13.8	9.9	<b>490.2</b>
<b>Pathardi</b>	15.9	16.9	23.3	31.2	38.6	44.5	52.2	55.6	52.9	48.5	38.5	30.6	18.4	13.6	10.0	<b>490.6</b>
<b>Parner</b>	15.3	16.4	23.0	31.1	38.9	45.9	51.3	55.2	51.9	48.6	39.2	31.1	20.4	12.1	10.4	<b>490.8</b>
<b>Sangamner</b>	16.2	17.2	23.7	31.2	38.7	43.2	51.4	56.2	52.7	47.1	37.4	28.9	16.5	13.3	9.5	<b>483.0</b>
<b>Kopargaon</b>	16.0	16.1	23.1	30.2	38.4	42.2	53.1	58.1	53.1	48.3	37.1	30.9	15.3	13.8	9.5	<b>485.2</b>
<b>Akole</b>	16.4	17.7	24.0	31.2	38.5	43.1	50.0	54.9	51.8	45.6	36.2	26.9	16.2	12.4	9.1	<b>474.1</b>
<b>Shrirampur</b>	15.9	16.5	23.3	30.9	38.6	43.1	52.5	57.1	52.5	47.3	37.7	29.5	16.0	14.0	9.5	<b>484.4</b>
<b>Newasa</b>	15.9	16.7	23.4	31.2	38.7	43.8	52.2	56.6	52.3	47.2	38.2	29.2	16.8	13.9	9.6	<b>485.7</b>
<b>Rahata</b>	15.9	16.0	23.1	30.1	38.3	42.2	53.2	58.0	53.0	48.2	37.0	30.9	15.2	13.8	9.5	<b>484.3</b>
<b>Rahuri</b>	15.8	16.4	23.1	31.4	38.6	43.1	52.6	57.1	51.5	45.4	37.9	27.8	14.7	15.0	9.1	<b>479.4</b>
<b>Shrigonda</b>	15.6	17.0	23.2	31.0	38.1	44.5	50.9	54.3	51.0	47.4	38.1	30.7	19.2	12.7	10.0	<b>483.8</b>
<b>Karjat</b>	15.8	17.2	23.5	31.0	38.0	44.2	51.0	54.6	51.1	47.3	38.2	31.1	19.0	13.6	10.1	<b>485.8</b>
<b>Jamkhed</b>	15.9	16.9	23.7	30.7	38.4	44.7	50.8	54.8	51.2	48.0	38.0	30.1	19.1	14.0	10.2	<b>486.4</b>

**Table No. C-8: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Ahmednagar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nagar</b>	14.2	15.1	21.4	29.4	37.3	44.8	49.1	52.9	50.1	48.0	38.4	30.9	21.4	10.9	10.3	<b>474.3</b>
<b>Shevgaon</b>	15.1	16.1	22.2	29.6	36.6	42.0	49.5	52.9	50.2	45.8	36.4	28.6	17.0	13.1	9.4	<b>464.4</b>
<b>Pathardi</b>	15.0	16.0	22.1	29.5	36.6	42.1	49.4	52.7	50.1	45.9	36.5	29.0	17.4	12.9	9.4	<b>464.8</b>
<b>Parner</b>	14.5	15.5	21.8	29.4	36.8	43.5	48.6	52.3	49.2	46.1	37.1	29.5	19.3	11.5	9.8	<b>465.0</b>
<b>Sangamner</b>	15.4	16.3	22.4	29.5	36.6	40.9	48.7	53.3	49.9	44.6	35.4	27.4	15.6	12.6	9.0	<b>457.6</b>
<b>Kopargaon</b>	15.1	15.3	21.9	28.6	36.4	40.0	50.3	55.0	50.3	45.7	35.1	29.3	14.5	13.1	9.0	<b>459.7</b>
<b>Akole</b>	15.5	16.8	22.7	29.6	36.5	40.8	47.3	52.0	49.1	43.2	34.3	25.5	15.4	11.8	8.7	<b>449.2</b>
<b>Shrirampur</b>	15.1	15.6	22.1	29.3	36.6	40.8	49.7	54.1	49.7	44.8	35.7	28.0	15.1	13.3	9.0	<b>458.9</b>
<b>Newasa</b>	15.1	15.9	22.1	29.6	36.7	41.5	49.4	53.6	49.6	44.7	36.2	27.6	15.9	13.2	9.1	<b>460.2</b>
<b>Rahata</b>	15.1	15.2	21.9	28.5	36.3	39.9	50.4	55.0	50.2	45.6	35.0	29.2	14.4	13.1	9.0	<b>458.8</b>
<b>Rahuri</b>	14.9	15.5	21.9	29.8	36.6	40.8	49.8	54.1	48.8	43.0	35.9	26.3	13.9	14.2	8.6	<b>454.2</b>
<b>Shrigonda</b>	14.8	16.1	22.0	29.4	36.1	42.2	48.2	51.4	48.3	44.9	36.1	29.1	18.2	12.0	9.5	<b>458.4</b>
<b>Karjat</b>	15.0	16.3	22.2	29.4	36.0	41.9	48.3	51.7	48.4	44.8	36.2	29.4	18.0	12.9	9.5	<b>460.3</b>
<b>Jamkhed</b>	15.1	16.0	22.4	29.1	36.4	42.3	48.1	51.9	48.5	45.5	36.0	28.5	18.1	13.3	9.7	<b>460.8</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Dhule District**

**Table No. C-9: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	17.2	19.2	25.1	34.9	44.6	49.4	55.7	61.8	57.6	52.7	46.5	23.5	22.5	17.4	10.8	<b>538.9</b>
Sakri	16.1	17.7	23.4	31.8	40.0	44.4	51.0	56.2	53.2	48.0	40.5	24.6	19.2	14.9	9.8	<b>490.9</b>
Sindkheda	16.6	18.3	24.1	33.1	41.9	46.6	53.2	58.5	55.0	50.1	43.0	24.1	20.6	16.0	10.2	<b>511.5</b>
Shirpur	16.4	18.1	23.9	32.6	41.2	45.9	52.5	57.6	54.4	49.4	42.2	24.2	20.2	15.7	10.1	<b>504.5</b>

**Table No. C-10: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	43.0	48.0	62.8	87.2	111.6	123.6	139.1	154.4	143.9	131.8	116.2	58.8	56.3	43.6	27.0	<b>1347.3</b>
Sakri	40.3	44.3	58.6	79.5	100.0	111.1	127.6	140.5	132.9	120.1	101.3	61.4	48.0	37.2	24.5	<b>1227.3</b>
Sindkheda	41.5	45.8	60.3	82.6	104.8	116.5	132.9	146.2	137.6	125.3	107.6	60.2	51.6	40.1	25.5	<b>1278.6</b>
Shirpur	41.1	45.2	59.7	81.5	103.1	114.8	131.3	144.1	136.0	123.6	105.4	60.6	50.4	39.3	25.2	<b>1261.3</b>

**Table No. C-11: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	34.4	38.4	50.3	69.7	89.3	98.9	111.3	123.5	115.1	105.4	92.9	47.0	45.0	34.9	21.6	<b>1077.8</b>
Sakri	32.3	35.4	46.9	63.6	80.0	88.9	102.1	112.4	106.3	96.1	81.0	49.1	38.4	29.8	19.6	<b>981.8</b>
Sindkheda	33.2	36.6	48.3	66.1	83.9	93.2	106.3	117.0	110.1	100.2	86.1	48.2	41.3	32.1	20.4	<b>1022.9</b>
Shirpur	32.8	36.2	47.8	65.2	82.5	91.8	105.1	115.3	108.8	98.9	84.3	48.4	40.4	31.4	20.2	<b>1009.0</b>

**Table No. C-12: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	28.6	32.0	41.9	58.1	74.4	82.4	92.8	102.9	95.9	87.8	77.4	39.2	37.5	29.1	18.0	<b>898.2</b>
Sakri	26.9	29.5	39.1	53.0	66.7	74.1	85.0	93.6	88.6	80.1	67.5	41.0	32.0	24.8	16.3	<b>818.2</b>
Sindkheda	27.6	30.5	40.2	55.1	69.9	77.7	88.6	97.5	91.7	83.5	71.7	40.1	34.4	26.7	17.0	<b>852.4</b>
Shirpur	27.4	30.2	39.8	54.3	68.7	76.5	87.6	96.1	90.7	82.4	70.3	40.4	33.6	26.2	16.8	<b>840.8</b>



**Table No. C-13: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	21.5	24.0	31.4	43.6	55.8	61.8	69.6	77.2	71.9	65.9	58.1	29.4	28.1	21.8	13.5	<b>673.6</b>
Sakri	20.2	22.1	29.3	39.7	50.0	55.5	63.8	70.2	66.5	60.0	50.7	30.7	24.0	18.6	12.2	<b>613.6</b>
Sindkheda	20.7	22.9	30.2	41.3	52.4	58.3	66.4	73.1	68.8	62.6	53.8	30.1	25.8	20.1	12.8	<b>639.3</b>
Shirpur	20.5	22.6	29.8	40.7	51.6	57.4	65.7	72.1	68.0	61.8	52.7	30.3	25.2	19.6	12.6	<b>630.6</b>

**Table No. C-14: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	20.2	22.6	29.6	41.0	52.5	58.2	65.5	72.7	67.7	62.0	54.7	27.7	26.5	20.5	12.7	<b>634.0</b>
Sakri	19.0	20.8	27.6	37.4	47.1	52.3	60.0	66.1	62.6	56.5	47.7	28.9	22.6	17.5	11.5	<b>577.5</b>
Sindkheda	19.5	21.6	28.4	38.9	49.3	54.8	62.5	68.8	64.8	59.0	50.6	28.3	24.3	18.9	12.0	<b>601.7</b>
Shirpur	19.3	21.3	28.1	38.3	48.5	54.0	61.8	67.8	64.0	58.2	49.6	28.5	23.7	18.5	11.9	<b>593.5</b>

**Table No. C-15: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	19.1	21.3	27.9	38.7	49.6	54.9	61.8	68.6	64.0	58.6	51.6	26.1	25.0	19.4	12.0	<b>598.8</b>
Sakri	17.9	19.7	26.0	35.3	44.4	49.4	56.7	62.4	59.1	53.4	45.0	27.3	21.3	16.5	10.9	<b>545.5</b>
Sindkheda	18.4	20.4	26.8	36.7	46.6	51.8	59.1	65.0	61.2	55.7	47.8	26.8	22.9	17.8	11.4	<b>568.3</b>
Shirpur	18.2	20.1	26.5	36.2	45.8	51.0	58.4	64.0	60.4	54.9	46.8	26.9	22.4	17.5	11.2	<b>560.6</b>

**Table No. C-16: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Dhule District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
Dhule	18.1	20.2	26.5	36.7	47.0	52.1	58.6	65.0	60.6	55.5	48.9	24.7	23.7	18.4	11.4	<b>567.3</b>
Sakri	17.0	18.7	24.7	33.5	42.1	46.8	53.7	59.1	56.0	50.6	42.7	25.9	20.2	15.7	10.3	<b>516.7</b>
Sindkheda	17.5	19.3	25.4	34.8	44.1	49.1	55.9	61.6	57.9	52.7	45.3	25.4	21.7	16.9	10.8	<b>538.4</b>
Shirpur	17.3	19.0	25.1	34.3	43.4	48.3	55.3	60.7	57.3	52.1	44.4	25.5	21.2	16.5	10.6	<b>531.1</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Jalgaon District**

**Table No. C-17: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	15.8	17.1	22.8	30.7	38.5	43.1	50.4	54.3	52.1	47.3	38.8	25.5	18.4	14.5	9.5	<b>478.8</b>
<b>Jamner</b>	15.5	16.7	22.4	29.9	37.2	42.0	49.3	52.9	51.0	46.2	37.3	26.0	17.6	14.0	9.3	<b>467.3</b>
<b>Erandol</b>	16.1	17.6	23.3	31.7	39.9	44.5	51.6	56.1	53.4	48.5	40.5	25.0	19.3	15.2	9.8	<b>492.3</b>
<b>Dharangaon</b>	16.3	17.8	23.6	32.0	40.5	45.1	52.1	56.7	53.9	49.0	41.2	24.8	19.7	15.4	9.9	<b>498.0</b>
<b>Bhusaval</b>	15.6	16.8	22.5	30.1	37.5	42.2	49.6	53.1	51.2	46.4	37.6	25.8	17.8	14.1	9.4	<b>469.7</b>
<b>Raver</b>	15.4	16.7	22.3	29.6	36.8	41.6	49.0	52.3	50.7	45.9	36.9	26.1	17.5	13.8	9.3	<b>463.9</b>
<b>Muktainagar</b>	15.4	16.6	22.2	29.5	36.7	41.5	48.9	52.2	50.6	45.8	36.7	26.2	17.4	13.8	9.2	<b>462.6</b>
<b>Bodwad</b>	15.4	16.6	22.2	29.5	36.7	41.4	48.9	52.2	50.5	45.8	36.7	26.2	17.4	13.8	9.2	<b>462.4</b>
<b>Yawal</b>	15.7	17.0	22.6	30.3	37.9	42.6	49.9	53.6	51.6	46.8	38.1	25.7	18.0	14.3	9.4	<b>473.3</b>
<b>Amalner</b>	16.7	18.5	24.3	33.4	42.4	47.1	53.6	59.1	55.5	50.6	43.6	24.0	21.0	16.3	10.3	<b>516.3</b>
<b>Parola</b>	16.5	18.2	24.0	32.9	41.7	46.4	53.1	58.2	55.0	50.1	42.8	24.4	20.5	16.0	10.2	<b>509.9</b>
<b>Chopda</b>	16.1	17.6	23.3	31.6	39.8	44.4	51.5	55.9	53.3	48.4	40.4	25.0	19.2	15.1	9.8	<b>491.5</b>
<b>Pachora</b>	15.8	17.2	22.9	30.9	38.8	43.4	50.6	54.9	52.3	47.5	39.2	25.4	18.5	14.6	9.6	<b>481.9</b>
<b>Bhadgaon</b>	16.0	17.5	23.2	31.5	39.6	44.2	51.2	55.8	53.0	48.2	40.1	25.1	19.0	15.0	9.7	<b>489.2</b>
<b>Chalisgaon</b>	15.8	17.1	22.9	30.9	38.8	43.3	50.2	55.1	52.0	47.0	39.2	25.1	18.4	14.4	9.6	<b>479.8</b>

**Table No. C-18: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	39.5	42.8	57.1	76.8	96.1	107.8	125.9	135.8	130.3	118.2	96.9	63.7	46.0	36.3	23.9	<b>1197.0</b>
<b>Jamner</b>	38.7	41.8	55.9	74.7	93.1	104.9	123.3	132.2	127.4	115.5	93.4	64.9	44.1	34.9	23.3	<b>1168.3</b>
<b>Erandol</b>	40.3	44.0	58.4	79.1	99.7	111.3	128.9	140.2	133.4	121.2	101.3	62.5	48.2	37.9	24.5	<b>1230.8</b>
<b>Dharangaon</b>	40.6	44.5	58.9	80.1	101.1	112.8	130.1	141.9	134.8	122.5	103.0	62.0	49.1	38.6	24.8	<b>1245.0</b>
<b>Bhusaval</b>	38.9	42.1	56.2	75.1	93.7	105.5	123.9	132.8	128.1	116.1	94.0	64.6	44.5	35.2	23.4	<b>1174.4</b>
<b>Raver</b>	38.6	41.6	55.7	74.1	92.1	104.0	122.6	130.8	126.8	114.8	92.1	65.2	43.7	34.6	23.2	<b>1159.8</b>
<b>Muktainagar</b>	38.5	41.5	55.5	73.8	91.7	103.7	122.3	130.4	126.4	114.5	91.8	65.4	43.5	34.4	23.1	<b>1156.6</b>
<b>Bodwad</b>	38.4	41.4	55.5	73.8	91.7	103.6	122.3	130.4	126.3	114.4	91.7	65.5	43.4	34.4	23.1	<b>1156.0</b>
<b>Yawal</b>	39.2	42.4	56.6	75.8	94.7	106.4	124.7	133.9	129.0	116.9	95.2	64.2	45.1	35.7	23.6	<b>1183.3</b>
<b>Amalner</b>	41.7	46.1	60.7	83.4	106.0	117.8	134.1	147.7	138.7	126.5	109.1	60.0	52.4	40.8	25.8	<b>1290.8</b>
<b>Parola</b>	41.3	45.5	60.1	82.2	104.2	115.9	132.8	145.6	137.5	125.2	106.9	61.0	51.2	40.1	25.4	<b>1274.8</b>
<b>Chopda</b>	40.3	44.0	58.3	79.0	99.4	111.1	128.7	139.7	133.3	121.1	100.9	62.4	48.1	37.8	24.5	<b>1228.7</b>
<b>Pachora</b>	39.6	43.0	57.3	77.4	97.1	108.6	126.5	137.2	130.8	118.7	98.0	63.5	46.3	36.6	24.0	<b>1204.7</b>
<b>Bhadgaon</b>	40.0	43.6	58.1	78.6	99.0	110.5	128.1	139.5	132.6	120.4	100.4	62.8	47.5	37.4	24.4	<b>1222.9</b>
<b>Chalisgaon</b>	39.4	42.8	57.3	77.3	97.1	108.3	125.6	137.7	129.9	117.5	97.9	62.8	45.9	36.0	23.9	<b>1199.4</b>

**Table No. C-19: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	31.6	34.3	45.7	61.4	76.9	86.3	100.7	108.7	104.2	94.5	77.6	50.9	36.8	29.0	19.1	<b>957.6</b>
<b>Jamner</b>	31.0	33.4	44.8	59.8	74.5	83.9	98.7	105.8	102.0	92.4	74.7	51.9	35.3	27.9	18.6	<b>934.7</b>
<b>Erandol</b>	32.2	35.2	46.7	63.3	79.7	89.1	103.1	112.1	106.7	97.0	81.0	50.0	38.5	30.3	19.6	<b>984.6</b>
<b>Dharangaon</b>	32.5	35.6	47.1	64.1	80.9	90.2	104.1	113.5	107.8	98.0	82.4	49.6	39.3	30.9	19.9	<b>996.0</b>
<b>Bhusaval</b>	31.1	33.7	45.0	60.1	75.0	84.4	99.1	106.3	102.5	92.9	75.2	51.7	35.6	28.2	18.7	<b>939.5</b>
<b>Raver</b>	30.9	33.3	44.5	59.3	73.7	83.2	98.1	104.6	101.4	91.9	73.7	52.2	34.9	27.7	18.5	<b>927.8</b>
<b>Muktainagar</b>	30.8	33.2	44.4	59.1	73.4	82.9	97.9	104.3	101.1	91.6	73.4	52.4	34.8	27.6	18.5	<b>925.3</b>
<b>Bodwad</b>	30.7	33.1	44.4	59.0	73.4	82.9	97.8	104.3	101.1	91.5	73.4	52.4	34.7	27.5	18.5	<b>924.8</b>
<b>Yawal</b>	31.3	33.9	45.3	60.6	75.7	85.1	99.7	107.2	103.2	93.5	76.1	51.3	36.1	28.5	18.9	<b>946.6</b>
<b>Amalner</b>	33.4	36.9	48.6	66.7	84.8	94.2	107.3	118.1	111.0	101.2	87.3	48.0	41.9	32.6	20.6	<b>1032.7</b>
<b>Parola</b>	33.1	36.4	48.0	65.8	83.4	92.7	106.2	116.5	110.0	100.2	85.5	48.8	40.9	32.0	20.4	<b>1019.9</b>
<b>Chopda</b>	32.2	35.2	46.7	63.2	79.5	88.9	103.0	111.8	106.6	96.9	80.7	49.9	38.5	30.3	19.6	<b>982.9</b>
<b>Pachora</b>	31.7	34.4	45.9	61.9	77.7	86.9	101.2	109.8	104.7	95.0	78.4	50.8	37.1	29.2	19.2	<b>963.7</b>
<b>Bhadgaon</b>	32.0	34.9	46.4	62.9	79.2	88.4	102.5	111.6	106.1	96.3	80.3	50.2	38.0	30.0	19.5	<b>978.3</b>
<b>Chalisgaon</b>	31.5	34.3	45.8	61.9	77.7	86.6	100.5	110.1	103.9	94.0	78.4	50.2	36.7	28.8	19.2	<b>959.6</b>

**Table No. C-20: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	26.3	28.6	38.1	51.2	64.1	71.9	83.9	90.6	86.8	78.8	64.6	42.5	30.6	24.2	15.9	<b>798.0</b>
<b>Jamner</b>	25.8	27.9	37.3	49.8	62.1	69.9	82.2	88.2	85.0	77.0	62.2	43.3	29.4	23.3	15.5	<b>778.9</b>
<b>Erandol</b>	26.9	29.3	38.9	52.8	66.4	74.2	85.9	93.4	88.9	80.8	67.5	41.6	32.1	25.3	16.4	<b>820.5</b>
<b>Dharangaon</b>	27.1	29.7	39.3	53.4	67.4	75.2	86.8	94.6	89.8	81.7	68.7	41.3	32.8	25.7	16.5	<b>830.0</b>
<b>Bhusaval</b>	25.9	28.0	37.5	50.1	62.5	70.3	82.6	88.6	85.4	77.4	62.7	43.1	29.7	23.5	15.6	<b>782.9</b>
<b>Raver</b>	25.7	27.8	37.1	49.4	61.4	69.3	81.7	87.2	84.5	76.6	61.4	43.5	29.1	23.1	15.4	<b>773.2</b>
<b>Muktainagar</b>	25.6	27.7	37.0	49.2	61.2	69.1	81.5	86.9	84.3	76.3	61.2	43.6	29.0	23.0	15.4	<b>771.1</b>
<b>Bodwad</b>	25.6	27.6	37.0	49.2	61.1	69.1	81.5	86.9	84.2	76.3	61.2	43.7	28.9	22.9	15.4	<b>770.7</b>
<b>Yawal</b>	26.1	28.3	37.7	50.5	63.1	70.9	83.1	89.3	86.0	78.0	63.4	42.8	30.1	23.8	15.7	<b>788.8</b>
<b>Amalner</b>	27.8	30.8	40.5	55.6	70.7	78.5	89.4	98.5	92.5	84.3	72.7	40.0	34.9	27.2	17.2	<b>860.6</b>
<b>Parola</b>	27.5	30.3	40.0	54.8	69.5	77.3	88.5	97.1	91.6	83.5	71.3	40.7	34.1	26.7	17.0	<b>849.9</b>
<b>Chopda</b>	26.9	29.3	38.9	52.7	66.3	74.1	85.8	93.1	88.9	80.7	67.3	41.6	32.0	25.2	16.3	<b>819.1</b>
<b>Pachora</b>	26.4	28.7	38.2	51.6	64.7	72.4	84.3	91.5	87.2	79.1	65.4	42.3	30.9	24.4	16.0	<b>803.1</b>
<b>Bhadgaon</b>	26.7	29.1	38.7	52.4	66.0	73.7	85.4	93.0	88.4	80.3	66.9	41.9	31.7	25.0	16.2	<b>815.3</b>
<b>Chalisgaon</b>	26.3	28.6	38.2	51.6	64.7	72.2	83.7	91.8	86.6	78.3	65.3	41.9	30.6	24.0	16.0	<b>799.6</b>

**Table No. C-21: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	19.7	21.4	28.5	38.4	48.1	53.9	62.9	67.9	65.1	59.1	48.5	31.8	23.0	18.1	11.9	<b>598.5</b>
<b>Jamner</b>	19.4	20.9	28.0	37.4	46.6	52.5	61.7	66.1	63.7	57.7	46.7	32.5	22.1	17.5	11.7	<b>584.2</b>
<b>Erandol</b>	20.1	22.0	29.2	39.6	49.8	55.7	64.4	70.1	66.7	60.6	50.6	31.2	24.1	19.0	12.3	<b>615.4</b>
<b>Dharangaon</b>	20.3	22.2	29.5	40.1	50.6	56.4	65.1	70.9	67.4	61.3	51.5	31.0	24.6	19.3	12.4	<b>622.5</b>
<b>Bhusaval</b>	19.5	21.0	28.1	37.6	46.9	52.8	61.9	66.4	64.1	58.0	47.0	32.3	22.3	17.6	11.7	<b>587.2</b>
<b>Raver</b>	19.3	20.8	27.8	37.0	46.0	52.0	61.3	65.4	63.4	57.4	46.1	32.6	21.8	17.3	11.6	<b>579.9</b>
<b>Muktainagar</b>	19.2	20.7	27.8	36.9	45.9	51.8	61.2	65.2	63.2	57.3	45.9	32.7	21.7	17.2	11.5	<b>578.3</b>
<b>Bodwad</b>	19.2	20.7	27.7	36.9	45.8	51.8	61.1	65.2	63.2	57.2	45.9	32.8	21.7	17.2	11.5	<b>578.0</b>
<b>Yawal</b>	19.6	21.2	28.3	37.9	47.3	53.2	62.3	67.0	64.5	58.5	47.6	32.1	22.6	17.8	11.8	<b>591.6</b>
<b>Amalner</b>	20.9	23.1	30.4	41.7	53.0	58.9	67.0	73.8	69.4	63.2	54.6	30.0	26.2	20.4	12.9	<b>645.4</b>
<b>Parola</b>	20.7	22.8	30.0	41.1	52.1	58.0	66.4	72.8	68.7	62.6	53.4	30.5	25.6	20.0	12.7	<b>637.4</b>
<b>Chopda</b>	20.1	22.0	29.2	39.5	49.7	55.6	64.4	69.9	66.7	60.5	50.5	31.2	24.0	18.9	12.2	<b>614.3</b>
<b>Pachora</b>	19.8	21.5	28.7	38.7	48.5	54.3	63.3	68.6	65.4	59.4	49.0	31.7	23.2	18.3	12.0	<b>602.3</b>
<b>Bhadgaon</b>	20.0	21.8	29.0	39.3	49.5	55.2	64.1	69.8	66.3	60.2	50.2	31.4	23.8	18.7	12.2	<b>611.5</b>
<b>Chalisgaon</b>	19.7	21.4	28.6	38.7	48.6	54.1	62.8	68.8	65.0	58.8	49.0	31.4	23.0	18.0	12.0	<b>599.7</b>

**Table No. C-22: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	18.6	20.2	26.9	36.1	45.2	50.7	59.2	63.9	61.3	55.6	45.6	30.0	21.6	17.1	11.2	<b>563.3</b>
<b>Jamner</b>	18.2	19.7	26.3	35.2	43.8	49.4	58.0	62.2	60.0	54.3	43.9	30.6	20.8	16.4	11.0	<b>549.8</b>
<b>Erandol</b>	19.0	20.7	27.5	37.2	46.9	52.4	60.6	66.0	62.8	57.0	47.7	29.4	22.7	17.8	11.5	<b>579.2</b>
<b>Dharangaon</b>	19.1	20.9	27.7	37.7	47.6	53.1	61.2	66.8	63.4	57.7	48.5	29.2	23.1	18.2	11.7	<b>585.9</b>
<b>Bhusaval</b>	18.3	19.8	26.5	35.4	44.1	49.7	58.3	62.5	60.3	54.6	44.3	30.4	21.0	16.6	11.0	<b>552.6</b>
<b>Raver</b>	18.2	19.6	26.2	34.9	43.3	48.9	57.7	61.5	59.7	54.0	43.4	30.7	20.6	16.3	10.9	<b>545.8</b>
<b>Muktainagar</b>	18.1	19.5	26.1	34.7	43.2	48.8	57.6	61.4	59.5	53.9	43.2	30.8	20.5	16.2	10.9	<b>544.3</b>
<b>Bodwad</b>	18.1	19.5	26.1	34.7	43.1	48.8	57.5	61.4	59.4	53.8	43.2	30.8	20.4	16.2	10.9	<b>544.0</b>
<b>Yawal</b>	18.4	20.0	26.6	35.7	44.5	50.1	58.7	63.0	60.7	55.0	44.8	30.2	21.2	16.8	11.1	<b>556.8</b>
<b>Amalner</b>	19.6	21.7	28.6	39.2	49.9	55.4	63.1	69.5	65.3	59.5	51.3	28.3	24.7	19.2	12.1	<b>607.5</b>
<b>Parola</b>	19.4	21.4	28.3	38.7	49.0	54.5	62.5	68.5	64.7	58.9	50.3	28.7	24.1	18.8	12.0	<b>599.9</b>
<b>Chopda</b>	19.0	20.7	27.4	37.2	46.8	52.3	60.6	65.7	62.7	57.0	47.5	29.4	22.6	17.8	11.5	<b>578.2</b>
<b>Pachora</b>	18.6	20.2	27.0	36.4	45.7	51.1	59.5	64.6	61.6	55.9	46.1	29.9	21.8	17.2	11.3	<b>566.9</b>
<b>Bhadgaon</b>	18.8	20.5	27.3	37.0	46.6	52.0	60.3	65.7	62.4	56.7	47.2	29.6	22.4	17.6	11.5	<b>575.5</b>
<b>Chalisgaon</b>	18.5	20.2	27.0	36.4	45.7	50.9	59.1	64.8	61.1	55.3	46.1	29.6	21.6	16.9	11.3	<b>564.4</b>

**Table No. C-23: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	17.5	19.0	25.4	34.1	42.7	47.9	56.0	60.4	57.9	52.5	43.1	28.3	20.4	16.1	10.6	<b>532.0</b>
<b>Jamner</b>	17.2	18.6	24.9	33.2	41.4	46.6	54.8	58.8	56.6	51.3	41.5	28.9	19.6	15.5	10.4	<b>519.3</b>
<b>Erandol</b>	17.9	19.5	25.9	35.2	44.3	49.5	57.3	62.3	59.3	53.9	45.0	27.8	21.4	16.8	10.9	<b>547.0</b>
<b>Dharangaon</b>	18.1	19.8	26.2	35.6	44.9	50.1	57.8	63.0	59.9	54.5	45.8	27.5	21.8	17.2	11.0	<b>553.3</b>
<b>Bhusaval</b>	17.3	18.7	25.0	33.4	41.6	46.9	55.1	59.0	56.9	51.6	41.8	28.7	19.8	15.7	10.4	<b>521.9</b>
<b>Raver</b>	17.2	18.5	24.7	32.9	40.9	46.2	54.5	58.1	56.3	51.0	41.0	29.0	19.4	15.4	10.3	<b>515.5</b>
<b>Muktainagar</b>	17.1	18.4	24.7	32.8	40.8	46.1	54.4	58.0	56.2	50.9	40.8	29.1	19.3	15.3	10.3	<b>514.1</b>
<b>Bodwad</b>	17.1	18.4	24.7	32.8	40.8	46.1	54.3	58.0	56.1	50.9	40.8	29.1	19.3	15.3	10.3	<b>513.8</b>
<b>Yawal</b>	17.4	18.8	25.1	33.7	42.1	47.3	55.4	59.5	57.3	52.0	42.3	28.5	20.0	15.9	10.5	<b>525.9</b>
<b>Amalner</b>	18.5	20.5	27.0	37.1	47.1	52.3	59.6	65.6	61.7	56.2	48.5	26.7	23.3	18.1	11.5	<b>573.7</b>
<b>Parola</b>	18.4	20.2	26.7	36.5	46.3	51.5	59.0	64.7	61.1	55.7	47.5	27.1	22.7	17.8	11.3	<b>566.6</b>
<b>Chopda</b>	17.9	19.6	25.9	35.1	44.2	49.4	57.2	62.1	59.2	53.8	44.9	27.7	21.4	16.8	10.9	<b>546.1</b>
<b>Pachora</b>	17.6	19.1	25.5	34.4	43.1	48.3	56.2	61.0	58.2	52.8	43.6	28.2	20.6	16.2	10.7	<b>535.4</b>
<b>Bhadgaon</b>	17.8	19.4	25.8	35.0	44.0	49.1	56.9	62.0	58.9	53.5	44.6	27.9	21.1	16.6	10.8	<b>543.5</b>
<b>Chalisgaon</b>	17.5	19.0	25.5	34.4	43.2	48.1	55.8	61.2	57.7	52.2	43.5	27.9	20.4	16.0	10.6	<b>533.1</b>



**Table No. C-24: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Jalgaon District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Jalgaon</b>	16.6	18.0	24.0	32.3	40.5	45.4	53.0	57.2	54.8	49.7	40.8	26.8	19.3	15.3	10.0	<b>504.0</b>
<b>Jamner</b>	16.3	17.6	23.6	31.5	39.2	44.2	51.9	55.7	53.7	48.6	39.3	27.3	18.6	14.7	9.8	<b>491.9</b>
<b>Erandol</b>	17.0	18.5	24.6	33.3	42.0	46.9	54.3	59.0	56.2	51.0	42.6	26.3	20.3	16.0	10.3	<b>518.2</b>
<b>Dharangaon</b>	17.1	18.7	24.8	33.7	42.6	47.5	54.8	59.7	56.7	51.6	43.4	26.1	20.7	16.3	10.5	<b>524.2</b>
<b>Bhusaval</b>	16.4	17.7	23.7	31.6	39.5	44.4	52.2	55.9	53.9	48.9	39.6	27.2	18.8	14.8	9.9	<b>494.5</b>
<b>Raver</b>	16.2	17.5	23.4	31.2	38.8	43.8	51.6	55.1	53.4	48.3	38.8	27.5	18.4	14.6	9.7	<b>488.3</b>
<b>Muktainagar</b>	16.2	17.5	23.4	31.1	38.6	43.7	51.5	54.9	53.2	48.2	38.6	27.6	18.3	14.5	9.7	<b>487.0</b>
<b>Bodwad</b>	16.2	17.4	23.4	31.1	38.6	43.6	51.5	54.9	53.2	48.2	38.6	27.6	18.3	14.5	9.7	<b>486.7</b>
<b>Yawal</b>	16.5	17.9	23.8	31.9	39.9	44.8	52.5	56.4	54.3	49.2	40.1	27.0	19.0	15.0	9.9	<b>498.2</b>
<b>Amalner</b>	17.6	19.4	25.6	35.1	44.6	49.6	56.5	62.2	58.4	53.3	45.9	25.3	22.1	17.2	10.9	<b>543.5</b>
<b>Parola</b>	17.4	19.2	25.3	34.6	43.9	48.8	55.9	61.3	57.9	52.7	45.0	25.7	21.5	16.9	10.7	<b>536.8</b>
<b>Chopda</b>	17.0	18.5	24.6	33.3	41.9	46.8	54.2	58.8	56.1	51.0	42.5	26.3	20.2	15.9	10.3	<b>517.3</b>
<b>Pachora</b>	16.7	18.1	24.1	32.6	40.9	45.7	53.3	57.8	55.1	50.0	41.3	26.7	19.5	15.4	10.1	<b>507.2</b>
<b>Bhadgaon</b>	16.9	18.4	24.4	33.1	41.7	46.5	53.9	58.7	55.8	50.7	42.3	26.4	20.0	15.8	10.3	<b>514.9</b>
<b>Chalisgaon</b>	16.6	18.0	24.1	32.6	40.9	45.6	52.9	58.0	54.7	49.5	41.2	26.4	19.3	15.1	10.1	<b>505.0</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Kolhapur District**

**Table No. C-25: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	13.9	15.5	19.8	25.1	29.5	35.5	41.7	42.1	40.0	34.8	29.1	22.9	15.9	12.9	9.4	<b>387.9</b>
<b>Kagal</b>	13.7	15.3	20.5	25.4	29.3	33.8	43.4	43.8	40.5	38.3	31.8	25.9	15.3	13.1	9.6	<b>399.9</b>
<b>Shahuwadi</b>	14.1	15.6	19.6	24.1	29.0	34.8	42.2	41.8	36.6	33.6	30.5	24.0	16.7	12.7	8.8	<b>383.8</b>
<b>Panhala</b>	13.9	15.4	20.0	24.7	28.9	33.9	42.6	42.8	39.1	36.8	31.4	25.2	15.5	12.9	9.2	<b>392.2</b>
<b>Karvir</b>	13.7	15.4	20.9	25.8	29.5	33.7	44.1	44.5	40.8	39.1	32.5	26.8	15.3	13.3	9.6	<b>404.8</b>
<b>Gaganbawada</b>	12.9	14.8	17.3	21.0	25.1	31.8	35.2	34.1	34.5	31.8	23.0	17.3	13.2	11.0	8.0	<b>331.0</b>
<b>Hatkangale</b>	13.9	15.1	17.1	21.2	26.5	32.5	37.8	37.4	36.4	33.9	29.3	21.3	14.1	11.9	8.6	<b>356.9</b>
<b>Shirol</b>	13.9	15.0	15.8	19.5	25.4	32.1	35.4	34.8	34.9	32.1	28.2	19.3	13.6	11.4	8.2	<b>339.5</b>
<b>Bhudargad</b>	13.9	15.6	19.4	25.3	29.8	36.9	40.6	40.9	40.6	32.2	26.4	20.2	16.5	13.0	9.6	<b>380.8</b>
<b>Gadhinglaj</b>	13.8	15.6	19.2	25.8	30.0	38.6	39.5	39.5	41.5	29.3	23.0	17.2	17.2	13.2	10.0	<b>373.5</b>
<b>Chandgad</b>	13.9	15.6	19.4	25.4	29.9	37.3	40.3	40.7	40.7	31.7	26.0	19.7	16.6	13.0	9.6	<b>379.9</b>
<b>Ajara</b>	13.8	15.6	19.3	25.6	29.9	37.9	39.9	40.1	41.1	30.6	24.5	18.5	16.9	13.1	9.8	<b>376.7</b>

**Table No. C-26: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	34.7	38.7	49.4	62.7	73.8	88.6	104.2	105.2	99.9	87.0	72.8	57.2	39.8	32.2	23.5	<b>969.7</b>
<b>Kagal</b>	34.4	38.4	51.3	63.6	73.2	84.6	108.5	109.5	101.3	95.6	79.6	64.9	38.2	32.9	23.9	<b>999.7</b>
<b>Shahuwadi</b>	35.3	39.0	48.9	60.1	72.4	86.9	105.5	104.6	91.4	83.9	76.2	60.0	41.6	31.8	21.9	<b>959.6</b>
<b>Panhala</b>	34.6	38.5	49.9	61.7	72.3	84.7	106.6	106.9	97.7	92.0	78.5	62.9	38.7	32.3	23.1	<b>980.4</b>
<b>Karvir</b>	34.3	38.4	52.2	64.5	73.6	84.2	110.2	111.3	102.1	97.7	81.1	66.9	38.1	33.1	24.1	<b>1011.9</b>
<b>Gaganbawada</b>	32.3	37.0	43.3	52.5	62.8	79.5	88.0	85.3	86.3	79.5	57.5	43.3	33.0	27.5	20.0	<b>827.5</b>
<b>Hatkangale</b>	34.7	37.7	42.9	52.9	66.2	81.3	94.5	93.6	91.0	84.8	73.2	53.3	35.2	29.7	21.4	<b>892.2</b>
<b>Shirol</b>	34.8	37.4	39.4	48.6	63.5	80.4	88.6	87.1	87.2	80.4	70.4	48.2	34.0	28.4	20.5	<b>848.8</b>
<b>Bhudargad</b>	34.7	38.9	48.6	63.4	74.4	92.3	101.4	102.2	101.4	80.6	66.0	50.5	41.2	32.4	24.0	<b>952.1</b>
<b>Gadhinglaj</b>	34.5	39.1	48.0	64.6	75.1	96.5	98.8	98.8	103.7	73.2	57.4	42.9	43.0	32.9	25.1	<b>933.7</b>
<b>Chandgad</b>	34.7	39.0	48.4	63.5	74.8	93.3	100.8	101.9	101.8	79.4	64.9	49.2	41.5	32.4	24.1	<b>949.7</b>
<b>Ajara</b>	34.6	39.0	48.2	64.0	74.8	94.6	99.9	100.3	102.7	76.5	61.3	46.3	42.2	32.7	24.6	<b>941.6</b>

**Table No. C-27: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	27.7	31.0	39.5	50.2	59.0	70.9	83.4	84.2	79.9	69.6	58.2	45.7	31.8	25.8	18.8	<b>775.7</b>
<b>Kagal</b>	27.5	30.7	41.0	50.9	58.6	67.7	86.8	87.6	81.0	76.5	63.6	51.9	30.5	26.3	19.1	<b>799.8</b>
<b>Shahuwadi</b>	28.2	31.2	39.1	48.1	57.9	69.5	84.4	83.7	73.1	67.2	60.9	48.0	33.3	25.4	17.5	<b>767.7</b>
<b>Panhala</b>	27.7	30.8	39.9	49.3	57.9	67.8	85.3	85.5	78.2	73.6	62.8	50.3	31.0	25.8	18.5	<b>784.3</b>
<b>Karvir</b>	27.5	30.7	41.7	51.6	58.9	67.3	88.2	89.1	81.6	78.2	64.9	53.5	30.5	26.5	19.3	<b>809.5</b>
<b>Gaganbawada</b>	25.8	29.6	34.6	42.0	50.2	63.6	70.4	68.2	69.0	63.6	46.0	34.6	26.4	22.0	16.0	<b>662.0</b>
<b>Hatkangale</b>	27.7	30.2	34.3	42.3	52.9	65.1	75.6	74.9	72.8	67.8	58.6	42.6	28.2	23.7	17.1	<b>713.8</b>
<b>Shirol</b>	27.8	30.0	31.5	38.9	50.8	64.3	70.9	69.7	69.8	64.3	56.3	38.6	27.2	22.7	16.4	<b>679.1</b>
<b>Bhudargad</b>	27.7	31.1	38.9	50.7	59.6	73.8	81.1	81.8	81.1	64.5	52.8	40.4	32.9	25.9	19.2	<b>761.7</b>
<b>Gadhinglaj</b>	27.6	31.3	38.4	51.7	60.1	77.2	79.0	79.0	83.0	58.6	45.9	34.3	34.4	26.3	20.1	<b>747.0</b>
<b>Chandgad</b>	27.8	31.2	38.7	50.8	59.8	74.6	80.7	81.5	81.4	63.5	51.9	39.4	33.2	25.9	19.2	<b>759.7</b>
<b>Ajara</b>	27.7	31.2	38.6	51.2	59.9	75.7	79.9	80.2	82.1	61.2	49.1	37.0	33.7	26.1	19.7	<b>753.3</b>

**Table No. C-28: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	23.1	25.8	32.9	41.8	49.2	59.1	69.5	70.1	66.6	58.0	48.5	38.1	26.5	21.5	15.7	<b>646.5</b>
<b>Kagal</b>	22.9	25.6	34.2	42.4	48.8	56.4	72.4	73.0	67.5	63.8	53.0	43.2	25.5	21.9	15.9	<b>666.5</b>
<b>Shahuwadi</b>	23.5	26.0	32.6	40.1	48.3	57.9	70.3	69.7	60.9	56.0	50.8	40.0	27.8	21.2	14.6	<b>639.7</b>
<b>Panhala</b>	23.1	25.6	33.3	41.1	48.2	56.5	71.0	71.3	65.2	61.3	52.3	41.9	25.8	21.5	15.4	<b>653.6</b>
<b>Karvir</b>	22.9	25.6	34.8	43.0	49.1	56.1	73.5	74.2	68.0	65.1	54.1	44.6	25.4	22.1	16.1	<b>674.6</b>
<b>Gaganbawada</b>	21.5	24.7	28.8	35.0	41.8	53.0	58.7	56.8	57.5	53.0	38.3	28.8	22.0	18.3	13.3	<b>551.7</b>
<b>Hatkangale</b>	23.1	25.1	28.6	35.3	44.1	54.2	63.0	62.4	60.6	56.5	48.8	35.5	23.5	19.8	14.3	<b>594.8</b>
<b>Shirol</b>	23.2	25.0	26.3	32.4	42.3	53.6	59.1	58.1	58.1	53.6	46.9	32.1	22.7	18.9	13.6	<b>565.9</b>
<b>Bhudargad</b>	23.1	25.9	32.4	42.2	49.6	61.5	67.6	68.1	67.6	53.7	44.0	33.7	27.5	21.6	16.0	<b>634.7</b>
<b>Gadhinglaj</b>	23.0	26.1	32.0	43.1	50.1	64.3	65.9	65.9	69.2	48.8	38.3	28.6	28.7	21.9	16.7	<b>622.5</b>
<b>Chandgad</b>	23.1	26.0	32.3	42.3	49.9	62.2	67.2	67.9	67.9	52.9	43.3	32.8	27.7	21.6	16.0	<b>633.1</b>
<b>Ajara</b>	23.1	26.0	32.1	42.7	49.9	63.1	66.6	66.9	68.4	51.0	40.9	30.9	28.1	21.8	16.4	<b>627.8</b>

**Table No. C-29: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	17.3	19.3	24.7	31.4	36.9	44.3	52.1	52.6	50.0	43.5	36.4	28.6	19.9	16.1	11.7	<b>484.8</b>
<b>Kagal</b>	17.2	19.2	25.6	31.8	36.6	42.3	54.3	54.7	50.6	47.8	39.8	32.4	19.1	16.4	12.0	<b>499.9</b>
<b>Shahuwadi</b>	17.6	19.5	24.5	30.1	36.2	43.5	52.8	52.3	45.7	42.0	38.1	30.0	20.8	15.9	11.0	<b>479.8</b>
<b>Panhala</b>	17.3	19.2	24.9	30.8	36.2	42.4	53.3	53.4	48.9	46.0	39.2	31.4	19.4	16.1	11.6	<b>490.2</b>
<b>Karvir</b>	17.2	19.2	26.1	32.2	36.8	42.1	55.1	55.7	51.0	48.9	40.6	33.5	19.1	16.6	12.0	<b>505.9</b>
<b>Gaganbawada</b>	16.1	18.5	21.6	26.3	31.4	39.8	44.0	42.6	43.1	39.8	28.8	21.6	16.5	13.8	10.0	<b>413.8</b>
<b>Hatkangale</b>	17.3	18.8	21.4	26.4	33.1	40.7	47.2	46.8	45.5	42.4	36.6	26.6	17.6	14.8	10.7	<b>446.1</b>
<b>Shirol</b>	17.4	18.7	19.7	24.3	31.7	40.2	44.3	43.6	43.6	40.2	35.2	24.1	17.0	14.2	10.2	<b>424.4</b>
<b>Bhudargad</b>	17.3	19.5	24.3	31.7	37.2	46.2	50.7	51.1	50.7	40.3	33.0	25.3	20.6	16.2	12.0	<b>476.0</b>
<b>Gadhinglaj</b>	17.3	19.6	24.0	32.3	37.6	48.3	49.4	49.4	51.9	36.6	28.7	21.5	21.5	16.4	12.5	<b>466.9</b>
<b>Chandgad</b>	17.4	19.5	24.2	31.8	37.4	46.6	50.4	50.9	50.9	39.7	32.4	24.6	20.7	16.2	12.0	<b>474.8</b>
<b>Ajara</b>	17.3	19.5	24.1	32.0	37.4	47.3	49.9	50.1	51.3	38.3	30.7	23.1	21.1	16.3	12.3	<b>470.8</b>

**Table No. C-30: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	16.3	18.2	23.3	29.5	34.7	41.7	49.0	49.5	47.0	40.9	34.2	26.9	18.7	15.2	11.1	<b>456.3</b>
<b>Kagal</b>	16.2	18.1	24.1	29.9	34.4	39.8	51.1	51.5	47.7	45.0	37.4	30.5	18.0	15.5	11.2	<b>470.5</b>
<b>Shahuwadi</b>	16.6	18.3	23.0	28.3	34.1	40.9	49.7	49.2	43.0	39.5	35.9	28.2	19.6	15.0	10.3	<b>451.6</b>
<b>Panhala</b>	16.3	18.1	23.5	29.0	34.0	39.9	50.1	50.3	46.0	43.3	36.9	29.6	18.2	15.2	10.9	<b>461.4</b>
<b>Karvir</b>	16.1	18.1	24.5	30.3	34.7	39.6	51.9	52.4	48.0	46.0	38.2	31.5	18.0	15.6	11.3	<b>476.2</b>
<b>Gaganbawada</b>	15.2	17.4	20.4	24.7	29.5	37.4	41.4	40.1	40.6	37.4	27.1	20.4	15.5	12.9	9.4	<b>389.4</b>
<b>Hatkangale</b>	16.3	17.7	20.2	24.9	31.1	38.3	44.5	44.0	42.8	39.9	34.5	25.1	16.6	14.0	10.1	<b>419.9</b>
<b>Shirol</b>	16.4	17.6	18.5	22.9	29.9	37.8	41.7	41.0	41.0	37.8	33.1	22.7	16.0	13.4	9.6	<b>399.5</b>
<b>Bhudargad</b>	16.3	18.3	22.9	29.8	35.0	43.4	47.7	48.1	47.7	37.9	31.1	23.8	19.4	15.3	11.3	<b>448.0</b>
<b>Gadhinglaj</b>	16.2	18.4	22.6	30.4	35.4	45.4	46.5	46.5	48.8	34.5	27.0	20.2	20.2	15.5	11.8	<b>439.4</b>
<b>Chandgad</b>	16.3	18.3	22.8	29.9	35.2	43.9	47.5	47.9	47.9	37.4	30.5	23.2	19.5	15.2	11.3	<b>446.9</b>
<b>Ajara</b>	16.3	18.4	22.7	30.1	35.2	44.5	47.0	47.2	48.3	36.0	28.9	21.8	19.8	15.4	11.6	<b>443.1</b>

**Table No. C-31: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	15.4	17.2	22.0	27.9	32.8	39.4	46.3	46.8	44.4	38.7	32.3	25.4	17.7	14.3	10.4	<b>431.0</b>
<b>Kagal</b>	15.3	17.1	22.8	28.3	32.5	37.6	48.2	48.7	45.0	42.5	35.4	28.8	17.0	14.6	10.6	<b>444.3</b>
<b>Shahuwadi</b>	15.7	17.3	21.7	26.7	32.2	38.6	46.9	46.5	40.6	37.3	33.9	26.7	18.5	14.1	9.7	<b>426.5</b>
<b>Panhala</b>	15.4	17.1	22.2	27.4	32.1	37.7	47.4	47.5	43.4	40.9	34.9	28.0	17.2	14.3	10.3	<b>435.7</b>
<b>Karvir</b>	15.3	17.1	23.2	28.7	32.7	37.4	49.0	49.5	45.4	43.4	36.1	29.7	17.0	14.7	10.7	<b>449.7</b>
<b>Gaganbawada</b>	14.3	16.4	19.2	23.3	27.9	35.3	39.1	37.9	38.3	35.3	25.6	19.2	14.7	12.2	8.9	<b>367.8</b>
<b>Hatkangale</b>	15.4	16.8	19.0	23.5	29.4	36.2	42.0	41.6	40.4	37.7	32.6	23.7	15.6	13.2	9.5	<b>396.6</b>
<b>Shirol</b>	15.5	16.6	17.5	21.6	28.2	35.7	39.4	38.7	38.8	35.7	31.3	21.4	15.1	12.6	9.1	<b>377.3</b>
<b>Bhudargad</b>	15.4	17.3	21.6	28.2	33.1	41.0	45.1	45.4	45.1	35.8	29.3	22.5	18.3	14.4	10.7	<b>423.1</b>
<b>Gadhinglaj</b>	15.3	17.4	21.3	28.7	33.4	42.9	43.9	43.9	46.1	32.5	25.5	19.1	19.1	14.6	11.2	<b>415.0</b>
<b>Chandgad</b>	15.4	17.3	21.5	28.2	33.2	41.5	44.8	45.3	45.2	35.3	28.8	21.9	18.4	14.4	10.7	<b>422.1</b>
<b>Ajara</b>	15.4	17.3	21.4	28.4	33.3	42.1	44.4	44.6	45.6	34.0	27.3	20.6	18.7	14.5	10.9	<b>418.5</b>

**Table No. C-32: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Kolhapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Radhanagari</b>	14.6	16.3	20.8	26.4	31.1	37.3	43.9	44.3	42.1	36.6	30.6	24.1	16.8	13.6	9.9	<b>408.3</b>
<b>Kagal</b>	14.5	16.2	21.6	26.8	30.8	35.6	45.7	46.1	42.6	40.3	33.5	27.3	16.1	13.8	10.1	<b>420.9</b>
<b>Shahuwadi</b>	14.8	16.4	20.6	25.3	30.5	36.6	44.4	44.0	38.5	35.3	32.1	25.3	17.5	13.4	9.2	<b>404.0</b>
<b>Panhala</b>	14.6	16.2	21.0	26.0	30.5	35.7	44.9	45.0	41.1	38.7	33.0	26.5	16.3	13.6	9.7	<b>412.8</b>
<b>Karvir</b>	14.4	16.2	22.0	27.2	31.0	35.4	46.4	46.9	43.0	41.1	34.2	28.2	16.1	14.0	10.1	<b>426.1</b>
<b>Gaganbawada</b>	13.6	15.6	18.2	22.1	26.4	33.5	37.1	35.9	36.3	33.5	24.2	18.2	13.9	11.6	8.4	<b>348.4</b>
<b>Hatkangale</b>	14.6	15.9	18.0	22.3	27.9	34.2	39.8	39.4	38.3	35.7	30.8	22.4	14.8	12.5	9.0	<b>375.7</b>
<b>Shirol</b>	14.6	15.8	16.6	20.5	26.7	33.8	37.3	36.7	36.7	33.8	29.7	20.3	14.3	12.0	8.6	<b>357.4</b>
<b>Bhudargad</b>	14.6	16.4	20.5	26.7	31.3	38.9	42.7	43.0	42.7	33.9	27.8	21.3	17.3	13.6	10.1	<b>400.9</b>
<b>Gadhinglaj</b>	14.5	16.5	20.2	27.2	31.6	40.6	41.6	41.6	43.7	30.8	24.2	18.1	18.1	13.9	10.6	<b>393.1</b>
<b>Chandgad</b>	14.6	16.4	20.4	26.7	31.5	39.3	42.5	42.9	42.9	33.4	27.3	20.7	17.5	13.6	10.1	<b>399.9</b>
<b>Ajara</b>	14.6	16.4	20.3	26.9	31.5	39.8	42.1	42.2	43.2	32.2	25.8	19.5	17.8	13.7	10.4	<b>396.5</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Nandurbar District**

**Table No. C-33: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	15.6	17.0	22.6	30.1	37.5	42.1	48.7	53.0	50.6	45.5	37.4	24.8	17.6	13.6	9.3	<b>465.3</b>
<b>Navapur</b>	15.4	16.8	22.4	29.7	36.9	41.1	47.6	52.2	49.9	44.5	36.3	24.9	17.0	13.0	9.0	<b>456.6</b>
<b>Taloda</b>	15.7	17.2	22.8	30.6	38.2	42.7	49.4	53.9	51.3	46.2	38.2	24.7	18.1	14.0	9.4	<b>472.4</b>
<b>Akkalkuva</b>	15.6	17.0	22.6	30.1	37.5	42.0	48.6	53.0	50.6	45.4	37.3	24.8	17.5	13.5	9.2	<b>464.5</b>
<b>Akrani</b>	15.6	17.0	22.6	30.2	37.6	42.1	48.8	53.0	50.7	45.6	37.4	24.8	17.7	13.7	9.3	<b>466.0</b>
<b>Shahada</b>	15.5	17.2	22.6	30.6	36.8	42.6	49.2	53.2	50.4	45.8	37.4	24.6	17.7	13.6	9.2	<b>466.4</b>

**Table No. C-34: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	38.9	42.4	56.4	75.3	93.9	105.2	121.8	132.5	126.6	113.7	93.4	61.9	44.1	34.0	23.2	<b>1163.3</b>
<b>Navapur</b>	38.5	42.0	55.9	74.3	92.1	102.8	119.0	130.4	124.7	111.2	90.8	62.1	42.4	32.5	22.6	<b>1141.4</b>
<b>Taloda</b>	39.3	42.9	57.0	76.4	95.5	106.8	123.4	134.7	128.3	115.5	95.5	61.8	45.1	34.9	23.5	<b>1180.9</b>
<b>Akkalkuva</b>	38.9	42.4	56.4	75.3	93.8	105.0	121.5	132.4	126.4	113.4	93.2	61.9	43.9	33.8	23.1	<b>1161.3</b>
<b>Akrani</b>	39.0	42.5	56.5	75.4	93.9	105.4	122.0	132.6	126.7	113.9	93.6	61.9	44.2	34.2	23.2	<b>1164.9</b>
<b>Shahada</b>	38.8	43.0	56.5	76.5	92.0	106.5	123.0	133.0	126.0	114.5	93.5	61.5	44.3	34.0	23.0	<b>1166.0</b>

**Table No. C-35: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	31.1	34.0	45.2	60.3	75.1	84.2	97.4	106.0	101.2	91.0	74.7	49.5	35.3	27.2	18.5	<b>930.7</b>
<b>Navapur</b>	30.8	33.6	44.7	59.4	73.7	82.3	95.2	104.3	99.8	89.0	72.6	49.7	33.9	26.0	18.1	<b>913.1</b>
<b>Taloda</b>	31.4	34.3	45.6	61.2	76.4	85.5	98.8	107.7	102.7	92.4	76.4	49.4	36.1	27.9	18.8	<b>944.7</b>
<b>Akkalkuva</b>	31.1	33.9	45.1	60.2	75.0	84.0	97.2	105.9	101.1	90.7	74.5	49.5	35.1	27.1	18.5	<b>929.0</b>
<b>Akrani</b>	31.2	34.0	45.2	60.3	75.2	84.3	97.6	106.1	101.3	91.1	74.9	49.5	35.4	27.3	18.6	<b>931.9</b>
<b>Shahada</b>	31.0	34.4	45.2	61.2	73.6	85.2	98.4	106.4	100.8	91.6	74.8	49.2	35.4	27.2	18.4	<b>932.8</b>

**Table No. C-36: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	25.9	28.3	37.6	50.2	62.6	70.1	81.2	88.3	84.4	75.8	62.3	41.3	29.4	22.7	15.4	<b>775.6</b>
<b>Navapur</b>	25.7	28.0	37.3	49.5	61.4	68.6	79.4	87.0	83.1	74.1	60.5	41.4	28.3	21.6	15.1	<b>760.9</b>
<b>Taloda</b>	26.2	28.6	38.0	51.0	63.7	71.2	82.3	89.8	85.5	77.0	63.7	41.2	30.1	23.3	15.7	<b>787.3</b>
<b>Akkalkuva</b>	25.9	28.3	37.6	50.2	62.5	70.0	81.0	88.3	84.3	75.6	62.1	41.3	29.2	22.5	15.4	<b>774.2</b>
<b>Akrani</b>	26.0	28.3	37.6	50.3	62.6	70.2	81.4	88.4	84.5	75.9	62.4	41.3	29.5	22.8	15.5	<b>776.6</b>
<b>Shahada</b>	25.8	28.7	37.7	51.0	61.3	71.0	82.0	88.7	84.0	76.3	62.3	41.0	29.5	22.7	15.3	<b>777.3</b>

**Table No. C-37: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	19.5	21.2	28.2	37.7	46.9	52.6	60.9	66.2	63.3	56.9	46.7	31.0	22.0	17.0	11.6	<b>581.7</b>
<b>Navapur</b>	19.3	21.0	27.9	37.1	46.1	51.4	59.5	65.2	62.3	55.6	45.4	31.1	21.2	16.2	11.3	<b>570.7</b>
<b>Taloda</b>	19.7	21.5	28.5	38.2	47.8	53.4	61.7	67.3	64.2	57.7	47.8	30.9	22.6	17.5	11.8	<b>590.4</b>
<b>Akkalkuva</b>	19.4	21.2	28.2	37.6	46.9	52.5	60.7	66.2	63.2	56.7	46.6	31.0	21.9	16.9	11.6	<b>580.7</b>
<b>Akrani</b>	19.5	21.2	28.2	37.7	47.0	52.7	61.0	66.3	63.3	56.9	46.8	31.0	22.1	17.1	11.6	<b>582.5</b>
<b>Shahada</b>	19.4	21.5	28.3	38.3	46.0	53.3	61.5	66.5	63.0	57.3	46.8	30.8	22.1	17.0	11.5	<b>583.0</b>

**Table No. C-38: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	18.3	20.0	26.6	35.4	44.2	49.5	57.3	62.4	59.6	53.5	44.0	29.1	20.7	16.0	10.9	<b>547.5</b>
<b>Navapur</b>	18.1	19.8	26.3	34.9	43.4	48.4	56.0	61.4	58.7	52.3	42.7	29.2	20.0	15.3	10.6	<b>537.1</b>
<b>Taloda</b>	18.5	20.2	26.8	36.0	45.0	50.3	58.1	63.4	60.4	54.3	45.0	29.1	21.2	16.4	11.1	<b>555.7</b>
<b>Akkalkuva</b>	18.3	20.0	26.6	35.4	44.1	49.4	57.2	62.3	59.5	53.4	43.8	29.1	20.6	15.9	10.9	<b>546.5</b>
<b>Akrani</b>	18.3	20.0	26.6	35.5	44.2	49.6	57.4	62.4	59.6	53.6	44.0	29.1	20.8	16.1	10.9	<b>548.2</b>
<b>Shahada</b>	18.2	20.2	26.6	36.0	43.3	50.1	57.9	62.6	59.3	53.9	44.0	28.9	20.8	16.0	10.8	<b>548.7</b>

**Table No. C-39: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	17.3	18.9	25.1	33.5	41.7	46.8	54.1	58.9	56.2	50.5	41.5	27.5	19.6	15.1	10.3	<b>517.0</b>
<b>Navapur</b>	17.1	18.7	24.8	33.0	41.0	45.7	52.9	58.0	55.4	49.4	40.3	27.6	18.8	14.4	10.1	<b>507.3</b>
<b>Taloda</b>	17.5	19.1	25.3	34.0	42.5	47.5	54.9	59.9	57.0	51.3	42.5	27.5	20.1	15.5	10.5	<b>524.8</b>
<b>Akkalkuva</b>	17.3	18.9	25.1	33.5	41.7	46.6	54.0	58.8	56.2	50.4	41.4	27.5	19.5	15.0	10.3	<b>516.1</b>
<b>Akrani</b>	17.3	18.9	25.1	33.5	41.8	46.8	54.2	58.9	56.3	50.6	41.6	27.5	19.7	15.2	10.3	<b>517.7</b>
<b>Shahada</b>	17.2	19.1	25.1	34.0	40.9	47.3	54.7	59.1	56.0	50.9	41.6	27.3	19.7	15.1	10.2	<b>518.2</b>

**Table No. C-40: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Nandurbar District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nandurbar</b>	16.4	17.9	23.8	31.7	39.5	44.3	51.3	55.8	53.3	47.9	39.3	26.1	18.6	14.3	9.8	<b>489.8</b>
<b>Navapur</b>	16.2	17.7	23.5	31.3	38.8	43.3	50.1	54.9	52.5	46.8	38.2	26.2	17.9	13.7	9.5	<b>480.6</b>
<b>Taloda</b>	16.6	18.1	24.0	32.2	40.2	45.0	52.0	56.7	54.0	48.6	40.2	26.0	19.0	14.7	9.9	<b>497.2</b>
<b>Akkalkuva</b>	16.4	17.9	23.8	31.7	39.5	44.2	51.1	55.7	53.2	47.8	39.2	26.1	18.5	14.2	9.7	<b>489.0</b>
<b>Akrani</b>	16.4	17.9	23.8	31.7	39.6	44.4	51.4	55.8	53.3	48.0	39.4	26.1	18.6	14.4	9.8	<b>490.5</b>
<b>Shahada</b>	16.3	18.1	23.8	32.2	38.7	44.8	51.8	56.0	53.1	48.2	39.4	25.9	18.6	14.3	9.7	<b>490.9</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Nashik District**

**Table No. C-41: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	15.2	16.7	22.0	28.7	35.4	38.3	44.5	50.3	48.6	41.8	33.1	23.8	14.9	11.0	8.2	<b>432.6</b>
<b>Igatpuri</b>	15.0	16.8	22.3	26.8	34.1	35.6	41.8	47.4	47.0	37.9	26.4	16.4	11.2	8.2	6.1	<b>392.9</b>
<b>Dindori</b>	15.3	16.8	22.1	29.4	35.9	39.0	45.2	51.3	49.7	43.3	35.1	25.7	16.0	11.8	8.8	<b>445.6</b>
<b>Peth</b>	15.1	16.5	22.0	28.5	35.1	38.6	44.6	49.7	47.7	41.3	32.7	23.3	14.8	11.0	8.1	<b>429.1</b>
<b>Trimbakeshwar</b>	15.0	16.6	22.1	27.7	34.6	37.3	43.3	48.5	47.1	39.6	29.9	20.3	13.2	9.8	7.2	<b>412.1</b>
<b>Kalwan</b>	15.4	16.8	22.2	29.7	36.5	39.9	46.3	52.1	50.1	44.2	36.1	26.1	16.6	12.4	9.0	<b>453.5</b>
<b>Deola</b>	15.4	16.8	22.2	29.9	36.6	40.0	46.5	52.4	50.4	44.4	36.5	26.4	16.8	12.5	9.1	<b>456.0</b>
<b>Surgana</b>	15.2	16.6	22.0	29.0	35.7	39.5	45.7	50.8	48.5	42.6	34.5	24.6	15.8	11.8	8.6	<b>441.0</b>
<b>Baglan</b>	15.6	17.0	22.6	30.3	37.6	41.5	48.1	53.4	50.9	45.4	37.4	25.4	17.4	13.3	9.3	<b>465.0</b>
<b>Malegaon</b>	15.9	17.3	23.0	31.2	39.0	43.2	49.9	55.2	52.3	47.1	39.4	25.2	18.4	14.3	9.6	<b>481.0</b>
<b>Nandgaon</b>	15.3	16.4	22.1	29.6	36.9	40.9	48.2	53.1	50.1	45.0	36.7	26.1	16.7	13.2	9.2	<b>459.6</b>
<b>Chandwad</b>	15.4	16.8	22.1	29.9	36.5	39.7	46.2	52.5	50.5	44.5	36.6	26.9	16.8	12.5	9.2	<b>456.0</b>
<b>Niphad</b>	15.7	17.5	22.4	30.9	37.0	39.3	45.2	53.1	52.0	45.2	38.0	28.3	17.6	12.4	9.6	<b>464.0</b>
<b>Sinnar</b>	15.2	16.6	22.0	29.2	35.7	38.8	45.2	51.2	49.4	43.1	34.7	25.8	15.7	11.7	8.7	<b>443.0</b>
<b>Yeola</b>	14.7	15.4	21.3	28.3	35.3	38.8	47.1	52.1	48.7	43.7	34.6	27.2	15.0	12.4	8.8	<b>443.4</b>

**Table No. C-42: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	37.9	41.7	55.1	71.9	88.4	95.8	111.2	125.7	121.5	104.6	82.9	59.5	37.4	27.5	20.5	<b>1081.6</b>
<b>Igatpuri</b>	37.6	42.1	55.6	67.1	85.3	88.9	104.6	118.4	117.4	94.9	66.0	40.9	27.9	20.5	15.1	<b>982.3</b>
<b>Dindori</b>	38.3	42.0	55.2	73.6	89.8	97.6	113.1	128.3	124.3	108.2	87.7	64.3	40.1	29.5	22.0	<b>1114.0</b>
<b>Peth</b>	37.6	41.3	54.9	71.2	87.8	96.5	111.5	124.3	119.3	103.3	81.8	58.2	37.1	27.6	20.4	<b>1072.8</b>
<b>Trimbakeshwar</b>	37.5	41.5	55.2	69.2	86.4	93.3	108.2	121.2	117.7	99.1	74.7	50.8	33.0	24.4	18.1	<b>1030.3</b>
<b>Kalwan</b>	38.4	42.0	55.5	74.3	91.2	99.8	115.8	130.3	125.3	110.4	90.3	65.2	41.5	31.1	22.6	<b>1133.8</b>
<b>Deola</b>	38.5	42.1	55.5	74.7	91.5	99.9	116.1	131.1	126.0	111.1	91.2	66.1	41.9	31.4	22.8	<b>1139.9</b>
<b>Surgana</b>	37.9	41.5	55.1	72.5	89.4	98.8	114.2	127.0	121.2	106.4	86.2	61.6	39.6	29.6	21.6	<b>1102.5</b>
<b>Baglan</b>	38.9	42.5	56.4	75.7	93.9	103.8	120.2	133.4	127.3	113.5	93.6	63.6	43.5	33.2	23.1	<b>1162.5</b>
<b>Malegaon</b>	39.6	43.3	57.5	77.9	97.5	108.0	124.9	138.1	130.7	117.6	98.4	63.0	46.1	35.7	24.0	<b>1202.4</b>
<b>Nandgaon</b>	38.1	41.0	55.3	74.1	92.3	102.3	120.4	132.8	125.4	112.5	91.8	65.1	41.9	33.0	22.9	<b>1149.0</b>
<b>Chandwad</b>	38.5	42.0	55.3	74.7	91.3	99.2	115.5	131.2	126.3	111.2	91.5	67.4	41.9	31.2	23.0	<b>1140.1</b>
<b>Niphad</b>	39.3	43.7	56.0	77.1	92.4	98.2	113.0	132.7	130.0	112.9	95.0	70.8	44.1	30.9	23.9	<b>1160.0</b>
<b>Sinnar</b>	38.0	41.5	54.9	73.0	89.2	97.0	113.0	128.0	123.4	107.7	86.9	64.6	39.3	29.3	21.8	<b>1107.6</b>
<b>Yeola</b>	36.9	38.6	53.4	70.6	88.2	97.0	117.8	130.2	121.6	109.2	86.4	68.0	37.5	31.1	21.9	<b>1108.6</b>

**Table No. C-43: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	30.3	33.4	44.1	57.5	70.7	76.7	89.0	100.5	97.2	83.7	66.3	47.6	29.9	22.0	16.4	<b>865.3</b>
<b>Igatpuri</b>	30.1	33.7	44.5	53.7	68.2	71.1	83.7	94.7	93.9	75.9	52.8	32.7	22.3	16.4	12.1	<b>785.9</b>
<b>Dindori</b>	30.6	33.6	44.2	58.9	71.9	78.0	90.5	102.7	99.4	86.6	70.2	51.5	32.1	23.6	17.6	<b>891.2</b>
<b>Peth</b>	30.1	33.1	44.0	56.9	70.3	77.2	89.2	99.4	95.4	82.6	65.4	46.6	29.7	22.1	16.3	<b>858.3</b>
<b>Trimbakeshwar</b>	30.0	33.2	44.1	55.4	69.1	74.6	86.6	96.9	94.2	79.3	59.8	40.6	26.4	19.5	14.5	<b>824.3</b>
<b>Kalwan</b>	30.7	33.6	44.4	59.4	72.9	79.8	92.7	104.3	100.3	88.3	72.3	52.2	33.2	24.9	18.1	<b>907.0</b>
<b>Deola</b>	30.8	33.7	44.4	59.7	73.2	79.9	92.9	104.9	100.8	88.9	73.0	52.9	33.5	25.1	18.3	<b>911.9</b>
<b>Surgana</b>	30.3	33.2	44.1	58.0	71.5	79.0	91.3	101.6	96.9	85.1	68.9	49.3	31.7	23.7	17.3	<b>882.0</b>
<b>Baglan</b>	31.1	34.0	45.1	60.5	75.1	83.0	96.2	106.7	101.8	90.8	74.9	50.9	34.8	26.6	18.5	<b>930.0</b>
<b>Malegaon</b>	31.7	34.6	46.0	62.3	78.0	86.4	99.9	110.5	104.6	94.1	78.7	50.4	36.8	28.6	19.2	<b>961.9</b>
<b>Nandgaon</b>	30.5	32.8	44.3	59.3	73.9	81.8	96.3	106.3	100.3	90.0	73.5	52.1	33.5	26.4	18.3	<b>919.2</b>
<b>Chandwad</b>	30.8	33.6	44.3	59.8	73.0	79.3	92.4	105.0	101.1	89.0	73.2	53.9	33.5	24.9	18.4	<b>912.1</b>
<b>Niphad</b>	31.4	35.0	44.8	61.7	73.9	78.6	90.4	106.2	104.0	90.3	76.0	56.6	35.3	24.7	19.1	<b>928.0</b>
<b>Sinnar</b>	30.4	33.2	43.9	58.4	71.4	77.6	90.4	102.4	98.7	86.2	69.5	51.7	31.4	23.4	17.4	<b>886.1</b>
<b>Yeola</b>	29.5	30.9	42.7	56.5	70.6	77.6	94.2	104.2	97.3	87.3	69.2	54.4	30.0	24.9	17.6	<b>886.9</b>

**Table No. C-44: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	25.3	27.8	36.7	47.9	59.0	63.9	74.1	83.8	81.0	69.7	55.2	39.7	24.9	18.4	13.7	<b>721.1</b>
<b>Igatpuri</b>	25.0	28.1	37.1	44.7	56.9	59.3	69.7	78.9	78.3	63.2	44.0	27.3	18.6	13.7	10.1	<b>654.9</b>
<b>Dindori</b>	25.5	28.0	36.8	49.0	59.9	65.0	75.4	85.6	82.8	72.2	58.5	42.9	26.7	19.7	14.6	<b>742.6</b>
<b>Peth</b>	25.1	27.6	36.6	47.4	58.6	64.3	74.3	82.8	79.5	68.9	54.5	38.8	24.7	18.4	13.6	<b>715.2</b>
<b>Trimbakeshwar</b>	25.0	27.7	36.8	46.2	57.6	62.2	72.2	80.8	78.5	66.1	49.8	33.8	22.0	16.3	12.1	<b>686.9</b>
<b>Kalwan</b>	25.6	28.0	37.0	49.5	60.8	66.5	77.2	86.9	83.5	73.6	60.2	43.5	27.7	20.7	15.1	<b>755.9</b>
<b>Deola</b>	25.7	28.0	37.0	49.8	61.0	66.6	77.4	87.4	84.0	74.1	60.8	44.1	27.9	20.9	15.2	<b>759.9</b>
<b>Surgana</b>	25.3	27.6	36.7	48.4	59.6	65.9	76.1	84.6	80.8	71.0	57.5	41.1	26.4	19.7	14.4	<b>735.0</b>
<b>Baglan</b>	25.9	28.3	37.6	50.5	62.6	69.2	80.1	88.9	84.8	75.6	62.4	42.4	29.0	22.2	15.4	<b>775.0</b>
<b>Malegaon</b>	26.4	28.9	38.4	51.9	65.0	72.0	83.2	92.1	87.1	78.4	65.6	42.0	30.7	23.8	16.0	<b>801.6</b>
<b>Nandgaon</b>	25.4	27.3	36.9	49.4	61.5	68.2	80.3	88.6	83.6	75.0	61.2	43.4	27.9	22.0	15.3	<b>766.0</b>
<b>Chandwad</b>	25.6	28.0	36.9	49.8	60.8	66.1	77.0	87.5	84.2	74.1	61.0	44.9	27.9	20.8	15.3	<b>760.1</b>
<b>Niphad</b>	26.2	29.2	37.3	51.4	61.6	65.5	75.3	88.5	86.7	75.3	63.3	47.2	29.4	20.6	15.9	<b>773.3</b>
<b>Sinnar</b>	25.3	27.7	36.6	48.6	59.5	64.7	75.4	85.4	82.3	71.8	57.9	43.1	26.2	19.5	14.5	<b>738.4</b>
<b>Yeola</b>	24.6	25.7	35.6	47.1	58.8	64.6	78.5	86.8	81.1	72.8	57.6	45.4	25.0	20.7	14.6	<b>739.1</b>

**Table No. C-45: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	19.0	20.9	27.6	35.9	44.2	47.9	55.6	62.8	60.7	52.3	41.4	29.8	18.7	13.8	10.3	<b>540.8</b>
<b>Igatpuri</b>	18.8	21.1	27.8	33.6	42.7	44.5	52.3	59.2	58.7	47.4	33.0	20.4	13.9	10.3	7.6	<b>491.2</b>
<b>Dindori</b>	19.1	21.0	27.6	36.8	44.9	48.8	56.5	64.2	62.1	54.1	43.9	32.2	20.0	14.7	11.0	<b>557.0</b>
<b>Peth</b>	18.8	20.7	27.5	35.6	43.9	48.3	55.8	62.1	59.6	51.6	40.9	29.1	18.6	13.8	10.2	<b>536.4</b>
<b>Trimbakeshwar</b>	18.8	20.8	27.6	34.6	43.2	46.6	54.1	60.6	58.9	49.6	37.3	25.4	16.5	12.2	9.0	<b>515.2</b>
<b>Kalwan</b>	19.2	21.0	27.7	37.2	45.6	49.9	57.9	65.2	62.7	55.2	45.2	32.6	20.8	15.5	11.3	<b>566.9</b>
<b>Deola</b>	19.2	21.0	27.8	37.3	45.8	50.0	58.1	65.5	63.0	55.6	45.6	33.0	21.0	15.7	11.4	<b>570.0</b>
<b>Surgana</b>	19.0	20.7	27.6	36.3	44.7	49.4	57.1	63.5	60.6	53.2	43.1	30.8	19.8	14.8	10.8	<b>551.3</b>
<b>Baglan</b>	19.5	21.2	28.2	37.8	47.0	51.9	60.1	66.7	63.6	56.7	46.8	31.8	21.7	16.6	11.6	<b>581.3</b>
<b>Malegaon</b>	19.8	21.7	28.8	38.9	48.8	54.0	62.4	69.1	65.3	58.8	49.2	31.5	23.0	17.9	12.0	<b>601.2</b>
<b>Nandgaon</b>	19.1	20.5	27.7	37.0	46.2	51.1	60.2	66.4	62.7	56.3	45.9	32.6	20.9	16.5	11.4	<b>574.5</b>
<b>Chandwad</b>	19.2	21.0	27.7	37.4	45.6	49.6	57.7	65.6	63.2	55.6	45.7	33.7	20.9	15.6	11.5	<b>570.0</b>
<b>Niphad</b>	19.6	21.9	28.0	38.6	46.2	49.1	56.5	66.3	65.0	56.4	47.5	35.4	22.0	15.5	11.9	<b>580.0</b>
<b>Sinnar</b>	19.0	20.8	27.4	36.5	44.6	48.5	56.5	64.0	61.7	53.8	43.4	32.3	19.7	14.6	10.9	<b>553.8</b>
<b>Yeola</b>	18.4	19.3	26.7	35.3	44.1	48.5	58.9	65.1	60.8	54.6	43.2	34.0	18.8	15.6	11.0	<b>554.3</b>

**Table No. C-46: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	17.8	19.6	25.9	33.8	41.6	45.1	52.3	59.1	57.2	49.2	39.0	28.0	17.6	13.0	9.7	<b>509.0</b>
<b>Igatpuri</b>	17.7	19.8	26.2	31.6	40.1	41.8	49.2	55.7	55.3	44.6	31.1	19.2	13.1	9.6	7.1	<b>462.3</b>
<b>Dindori</b>	18.0	19.8	26.0	34.6	42.3	45.9	53.2	60.4	58.5	50.9	41.3	30.3	18.9	13.9	10.3	<b>524.2</b>
<b>Peth</b>	17.7	19.5	25.9	33.5	41.3	45.4	52.5	58.5	56.1	48.6	38.5	27.4	17.5	13.0	9.6	<b>504.9</b>
<b>Trimbakeshwar</b>	17.7	19.5	26.0	32.6	40.7	43.9	50.9	57.0	55.4	46.6	35.1	23.9	15.5	11.5	8.5	<b>484.9</b>
<b>Kalwan</b>	18.1	19.8	26.1	35.0	42.9	47.0	54.5	61.3	59.0	52.0	42.5	30.7	19.5	14.6	10.6	<b>533.5</b>
<b>Deola</b>	18.1	19.8	26.1	35.1	43.1	47.0	54.7	61.7	59.3	52.3	42.9	31.1	19.7	14.8	10.7	<b>536.4</b>
<b>Surgana</b>	17.8	19.5	25.9	34.1	42.1	46.5	53.7	59.7	57.0	50.1	40.6	29.0	18.6	13.9	10.2	<b>518.8</b>
<b>Baglan</b>	18.3	20.0	26.5	35.6	44.2	48.8	56.6	62.8	59.9	53.4	44.0	29.9	20.5	15.6	10.9	<b>547.1</b>
<b>Malegaon</b>	18.7	20.4	27.1	36.6	45.9	50.8	58.8	65.0	61.5	55.4	46.3	29.7	21.7	16.8	11.3	<b>565.8</b>
<b>Nandgaon</b>	17.9	19.3	26.0	34.9	43.4	48.1	56.7	62.5	59.0	52.9	43.2	30.7	19.7	15.5	10.8	<b>540.7</b>
<b>Chandwad</b>	18.1	19.8	26.0	35.2	42.9	46.7	54.3	61.7	59.5	52.3	43.0	31.7	19.7	14.7	10.8	<b>536.5</b>
<b>Niphad</b>	18.5	20.6	26.3	36.3	43.5	46.2	53.2	62.4	61.2	53.1	44.7	33.3	20.7	14.6	11.2	<b>545.9</b>
<b>Sinnar</b>	17.9	19.5	25.8	34.3	42.0	45.6	53.2	60.2	58.1	50.7	40.9	30.4	18.5	13.8	10.3	<b>521.2</b>
<b>Yeola</b>	17.3	18.2	25.1	33.2	41.5	45.6	55.4	61.3	57.2	51.4	40.7	32.0	17.7	14.6	10.3	<b>521.7</b>

**Table No. C-47: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	16.8	18.5	24.5	31.9	39.3	42.6	49.4	55.8	54.0	46.5	36.8	26.5	16.6	12.2	9.1	<b>480.7</b>
<b>Igatpuri</b>	16.7	18.7	24.7	29.8	37.9	39.5	46.5	52.6	52.2	42.2	29.3	18.2	12.4	9.1	6.7	<b>436.6</b>
<b>Dindori</b>	17.0	18.7	24.5	32.7	39.9	43.4	50.3	57.0	55.2	48.1	39.0	28.6	17.8	13.1	9.8	<b>495.1</b>
<b>Peth</b>	16.7	18.4	24.4	31.6	39.0	42.9	49.6	55.2	53.0	45.9	36.3	25.9	16.5	12.3	9.1	<b>476.8</b>
<b>Trimbakeshwar</b>	16.7	18.5	24.5	30.8	38.4	41.5	48.1	53.9	52.3	44.0	33.2	22.6	14.7	10.8	8.0	<b>457.9</b>
<b>Kalwan</b>	17.1	18.7	24.6	33.0	40.5	44.4	51.5	57.9	55.7	49.1	40.1	29.0	18.5	13.8	10.0	<b>503.9</b>
<b>Deola</b>	17.1	18.7	24.7	33.2	40.7	44.4	51.6	58.3	56.0	49.4	40.5	29.4	18.6	13.9	10.2	<b>506.6</b>
<b>Surgana</b>	16.8	18.4	24.5	32.2	39.7	43.9	50.7	56.4	53.9	47.3	38.3	27.4	17.6	13.2	9.6	<b>490.0</b>
<b>Baglan</b>	17.3	18.9	25.1	33.6	41.7	46.1	53.4	59.3	56.6	50.4	41.6	28.3	19.3	14.8	10.3	<b>516.7</b>
<b>Malegaon</b>	17.6	19.2	25.6	34.6	43.3	48.0	55.5	61.4	58.1	52.3	43.7	28.0	20.5	15.9	10.7	<b>534.4</b>
<b>Nandgaon</b>	16.9	18.2	24.6	32.9	41.0	45.5	53.5	59.0	55.7	50.0	40.8	28.9	18.6	14.7	10.2	<b>510.7</b>
<b>Chandwad</b>	17.1	18.7	24.6	33.2	40.6	44.1	51.3	58.3	56.1	49.4	40.6	29.9	18.6	13.9	10.2	<b>506.7</b>
<b>Niphad</b>	17.5	19.4	24.9	34.3	41.1	43.7	50.2	59.0	57.8	50.2	42.2	31.5	19.6	13.7	10.6	<b>515.6</b>
<b>Sinnar</b>	16.9	18.4	24.4	32.4	39.7	43.1	50.2	56.9	54.9	47.9	38.6	28.7	17.5	13.0	9.7	<b>492.3</b>
<b>Yeola</b>	16.4	17.1	23.7	31.4	39.2	43.1	52.4	57.9	54.1	48.5	38.4	30.2	16.7	13.8	9.8	<b>492.7</b>

**Table No. C-48: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Nashik District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Nashik</b>	16.0	17.6	23.2	30.3	37.2	40.4	46.8	52.9	51.1	44.0	34.9	25.1	15.7	11.6	8.7	<b>455.4</b>
<b>Igatpuri</b>	15.8	17.7	23.4	28.3	35.9	37.4	44.0	49.8	49.4	39.9	27.8	17.2	11.7	8.6	6.4	<b>413.6</b>
<b>Dindori</b>	16.1	17.7	23.3	31.0	37.8	41.1	47.6	54.0	52.3	45.6	36.9	27.1	16.9	12.4	9.3	<b>469.0</b>
<b>Peth</b>	15.8	17.4	23.1	30.0	37.0	40.6	47.0	52.3	50.2	43.5	34.4	24.5	15.6	11.6	8.6	<b>451.7</b>
<b>Trimbakeshwar</b>	15.8	17.5	23.2	29.1	36.4	39.3	45.6	51.0	49.6	41.7	31.4	21.4	13.9	10.3	7.6	<b>433.8</b>
<b>Kalwan</b>	16.2	17.7	23.4	31.3	38.4	42.0	48.8	54.9	52.8	46.5	38.0	27.5	17.5	13.1	9.5	<b>477.4</b>
<b>Deola</b>	16.2	17.7	23.4	31.4	38.5	42.1	48.9	55.2	53.1	46.8	38.4	27.8	17.7	13.2	9.6	<b>480.0</b>
<b>Surgana</b>	16.0	17.5	23.2	30.5	37.6	41.6	48.1	53.5	51.0	44.8	36.3	25.9	16.7	12.5	9.1	<b>464.2</b>
<b>Baglan</b>	16.4	17.9	23.7	31.9	39.5	43.7	50.6	56.2	53.6	47.8	39.4	26.8	18.3	14.0	9.7	<b>489.5</b>
<b>Malegaon</b>	16.7	18.2	24.2	32.8	41.1	45.5	52.6	58.2	55.0	49.5	41.4	26.5	19.4	15.0	10.1	<b>506.3</b>
<b>Nandgaon</b>	16.1	17.3	23.3	31.2	38.9	43.1	50.7	55.9	52.8	47.4	38.7	27.4	17.6	13.9	9.6	<b>483.8</b>
<b>Chandwad</b>	16.2	17.7	23.3	31.5	38.4	41.8	48.6	55.2	53.2	46.8	38.5	28.4	17.6	13.1	9.7	<b>480.0</b>
<b>Niphad</b>	16.5	18.4	23.6	32.5	38.9	41.4	47.6	55.9	54.7	47.5	40.0	29.8	18.6	13.0	10.1	<b>488.4</b>
<b>Sinnar</b>	16.0	17.5	23.1	30.7	37.6	40.8	47.6	53.9	52.0	45.3	36.6	27.2	16.5	12.3	9.2	<b>466.3</b>
<b>Yeola</b>	15.5	16.2	22.5	29.7	37.2	40.8	49.6	54.8	51.2	46.0	36.4	28.7	15.8	13.1	9.2	<b>466.8</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Pune District**

**Table No. C-49: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	14.8	16.6	22.2	27.3	35.2	36.5	43.6	48.9	45.6	37.8	34.3	24.0	14.7	12.3	8.8	<b>422.5</b>
<b>Haveli</b>	14.8	16.6	22.1	27.3	35.1	36.6	43.6	48.7	45.4	37.7	34.2	24.0	14.7	12.2	8.8	<b>421.9</b>
<b>Khed</b>	14.7	16.2	21.8	28.2	32.9	40.9	43.5	44.7	40.6	36.4	31.2	23.6	13.1	10.8	8.3	<b>407.0</b>
<b>Junnar</b>	14.6	16.0	21.7	28.0	33.8	39.9	44.1	47.1	43.8	39.0	31.9	23.9	14.3	11.0	8.3	<b>417.5</b>
<b>Ambegaon</b>	14.6	16.1	21.8	28.1	33.2	40.8	43.7	45.5	41.7	37.5	31.5	23.9	13.8	10.9	8.3	<b>411.5</b>
<b>Vadgaon Maval</b>	15.0	16.7	21.7	29.2	29.7	45.2	42.9	38.3	32.6	30.4	27.2	20.6	7.7	8.9	7.8	<b>373.9</b>
<b>Mulshi</b>	14.6	16.2	22.0	27.9	33.1	41.0	42.6	44.6	40.6	36.7	31.3	24.1	14.3	11.2	8.3	<b>408.6</b>
<b>Shirur</b>	14.1	15.2	21.0	27.9	34.4	40.3	45.5	48.7	45.5	42.0	34.1	26.9	16.9	11.1	9.0	<b>432.6</b>
<b>Purandar</b>	14.4	16.0	21.4	27.7	33.7	37.5	43.6	47.1	43.7	38.9	32.3	25.1	14.9	11.2	8.4	<b>416.1</b>
<b>Velhe</b>	14.2	15.8	20.9	26.4	32.6	36.8	41.5	44.3	39.8	34.8	29.4	22.0	13.5	10.6	7.9	<b>390.6</b>
<b>Bhor</b>	13.9	15.5	20.2	25.8	32.0	34.7	41.0	43.9	39.4	34.8	28.0	21.8	13.5	10.1	7.6	<b>382.3</b>
<b>Baramati</b>	14.3	15.7	21.0	28.2	33.5	38.4	45.1	48.0	44.9	42.2	33.2	28.1	16.5	11.6	8.7	<b>429.4</b>
<b>Indapur</b>	14.7	16.1	21.6	27.9	34.3	39.9	46.6	49.9	47.5	43.7	35.1	29.1	17.7	14.0	9.3	<b>447.4</b>
<b>Daund</b>	14.2	15.6	21.0	28.0	33.9	39.1	45.1	48.2	44.9	41.7	33.4	27.4	16.5	11.5	8.8	<b>429.4</b>

**Table No. C-50: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	36.9	41.5	55.4	68.3	87.9	91.3	109.1	122.2	113.9	94.4	85.8	60.0	36.8	30.6	22.1	<b>1056.2</b>
<b>Haveli</b>	36.9	41.4	55.3	68.3	87.7	91.6	109.0	121.8	113.5	94.3	85.5	60.0	36.7	30.5	22.0	<b>1054.8</b>
<b>Khed</b>	36.7	40.6	54.4	70.4	82.2	102.2	108.7	111.8	101.6	91.0	78.0	59.0	32.7	27.0	20.9	<b>1017.4</b>
<b>Junnar</b>	36.6	40.0	54.2	70.0	84.6	99.7	110.3	117.7	109.5	97.6	79.7	59.9	35.9	27.5	20.7	<b>1043.6</b>
<b>Ambegaon</b>	36.6	40.3	54.4	70.4	83.1	102.0	109.2	113.8	104.3	93.8	78.6	59.9	34.4	27.3	20.8	<b>1028.9</b>
<b>Vadgaon Maval</b>	37.4	41.7	54.3	73.0	74.3	113.1	107.3	95.7	81.4	76.0	68.0	51.5	19.3	22.1	19.6	<b>934.8</b>
<b>Mulshi</b>	36.5	40.5	54.9	69.8	82.9	102.6	106.5	111.4	101.5	91.8	78.2	60.1	35.9	28.1	20.8	<b>1021.4</b>
<b>Shirur</b>	35.2	38.1	52.4	69.8	86.1	100.8	113.6	121.7	113.8	105.0	85.3	67.3	42.3	27.8	22.5	<b>1081.6</b>
<b>Purandar</b>	36.0	40.1	53.5	69.4	84.4	93.8	109.1	117.8	109.3	97.3	80.8	62.7	37.2	28.0	21.1	<b>1040.3</b>
<b>Velhe</b>	35.6	39.5	52.4	65.9	81.4	92.0	103.8	110.8	99.5	87.0	73.5	55.1	33.8	26.4	19.8	<b>976.6</b>
<b>Bhor</b>	34.9	38.6	50.6	64.4	80.0	86.8	102.6	109.8	98.6	86.9	70.1	54.5	33.6	25.2	18.9	<b>955.7</b>
<b>Baramati</b>	35.7	39.3	52.5	70.5	83.7	96.0	112.7	120.0	112.4	105.6	82.9	70.2	41.3	29.1	21.7	<b>1073.5</b>
<b>Indapur</b>	36.7	40.1	53.9	69.9	85.7	99.7	116.6	124.7	118.7	109.3	87.7	72.8	44.4	35.0	23.3	<b>1118.5</b>
<b>Daund</b>	35.5	38.9	52.6	70.0	84.6	97.7	112.8	120.5	112.4	104.4	83.6	68.5	41.2	28.8	21.9	<b>1073.5</b>

**Table No. C-51: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	29.5	33.2	44.3	54.6	70.4	73.0	87.3	97.7	91.2	75.5	68.7	48.0	29.4	24.5	17.7	<b>844.9</b>
<b>Haveli</b>	29.5	33.1	44.3	54.7	70.2	73.3	87.2	97.5	90.8	75.5	68.4	48.0	29.3	24.4	17.6	<b>843.8</b>
<b>Khed</b>	29.3	32.5	43.5	56.3	65.8	81.8	87.0	89.4	81.3	72.8	62.4	47.2	26.2	21.6	16.7	<b>813.9</b>
<b>Junnar</b>	29.3	32.0	43.3	56.0	67.7	79.7	88.2	94.2	87.6	78.1	63.8	47.9	28.7	22.0	16.5	<b>834.9</b>
<b>Ambegaon</b>	29.3	32.3	43.5	56.3	66.5	81.6	87.3	91.0	83.5	75.1	62.9	47.9	27.5	21.8	16.6	<b>823.1</b>
<b>Vadgaon Maval</b>	29.9	33.4	43.4	58.4	59.4	90.5	85.9	76.5	65.1	60.8	54.4	41.2	15.4	17.7	15.7	<b>747.8</b>
<b>Mulshi</b>	29.2	32.4	43.9	55.9	66.3	82.1	85.2	89.1	81.2	73.4	62.5	48.1	28.7	22.4	16.7	<b>817.1</b>
<b>Shirur</b>	28.2	30.5	41.9	55.8	68.9	80.6	90.9	97.4	91.1	84.0	68.2	53.8	33.9	22.2	18.0	<b>865.3</b>
<b>Purandar</b>	28.8	32.1	42.8	55.5	67.5	75.0	87.3	94.3	87.4	77.8	64.7	50.2	29.7	22.4	16.8	<b>832.2</b>
<b>Velhe</b>	28.5	31.6	41.9	52.8	65.2	73.6	83.0	88.6	79.6	69.6	58.8	44.1	27.1	21.1	15.8	<b>781.2</b>
<b>Bhor</b>	27.9	30.9	40.5	51.6	64.0	69.5	82.1	87.8	78.9	69.6	56.1	43.6	26.9	20.1	15.1	<b>764.6</b>
<b>Baramati</b>	28.6	31.5	42.0	56.4	67.0	76.8	90.1	96.0	89.9	84.5	66.3	56.2	33.0	23.3	17.3	<b>858.8</b>
<b>Indapur</b>	29.3	32.1	43.1	55.9	68.6	79.8	93.2	99.8	95.0	87.5	70.2	58.2	35.5	28.0	18.7	<b>894.8</b>
<b>Daund</b>	28.4	31.1	42.1	56.0	67.7	78.2	90.3	96.4	89.9	83.5	66.9	54.8	33.0	23.0	17.5	<b>858.8</b>

**Table No. C-52: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	24.6	27.6	36.9	45.5	58.6	60.9	72.7	81.4	76.0	62.9	57.2	40.0	24.5	20.4	14.7	<b>704.1</b>
<b>Haveli</b>	24.6	27.6	36.9	45.6	58.5	61.0	72.7	81.2	75.7	62.9	57.0	40.0	24.4	20.4	14.7	<b>703.2</b>
<b>Khed</b>	24.5	27.1	36.3	46.9	54.8	68.1	72.5	74.5	67.7	60.7	52.0	39.4	21.8	18.0	13.9	<b>678.3</b>
<b>Junnar</b>	24.4	26.7	36.1	46.7	56.4	66.4	73.5	78.5	73.0	65.0	53.1	39.9	23.9	18.3	13.8	<b>695.8</b>
<b>Ambegaon</b>	24.4	26.9	36.3	46.9	55.4	68.0	72.8	75.9	69.6	62.6	52.4	39.9	22.9	18.2	13.9	<b>685.9</b>
<b>Vadgaon Maval</b>	24.9	27.8	36.2	48.7	49.5	75.4	71.6	63.8	54.3	50.7	45.3	34.4	12.9	14.8	13.1	<b>623.2</b>
<b>Mulshi</b>	24.3	27.0	36.6	46.6	55.2	68.4	71.0	74.3	67.7	61.2	52.1	40.1	23.9	18.7	13.9	<b>681.0</b>
<b>Shirur</b>	23.5	25.4	34.9	46.5	57.4	67.2	75.8	81.1	75.9	70.0	56.8	44.8	28.2	18.5	15.0	<b>721.1</b>
<b>Purandar</b>	24.0	26.7	35.6	46.2	56.2	62.5	72.7	78.5	72.9	64.8	53.9	41.8	24.8	18.6	14.0	<b>693.5</b>
<b>Velhe</b>	23.7	26.4	34.9	44.0	54.3	61.3	69.2	73.9	66.4	58.0	49.0	36.7	22.6	17.6	13.2	<b>651.0</b>
<b>Bhor</b>	23.2	25.8	33.7	43.0	53.4	57.9	68.4	73.2	65.7	58.0	46.7	36.3	22.4	16.8	12.6	<b>637.1</b>
<b>Baramati</b>	23.8	26.2	35.0	47.0	55.8	64.0	75.1	80.0	74.9	70.4	55.3	46.8	27.5	19.4	14.4	<b>715.7</b>
<b>Indapur</b>	24.4	26.8	35.9	46.6	57.2	66.5	77.7	83.2	79.2	72.9	58.5	48.5	29.6	23.3	15.5	<b>745.7</b>
<b>Daund</b>	23.7	26.0	35.1	46.7	56.4	65.2	75.2	80.3	74.9	69.6	55.7	45.7	27.5	19.2	14.6	<b>715.7</b>

**Table No. C-53: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	18.4	20.7	27.7	34.2	44.0	45.6	54.5	61.1	57.0	47.2	42.9	30.0	18.4	15.3	11.0	<b>528.1</b>
<b>Haveli</b>	18.4	20.7	27.7	34.2	43.9	45.8	54.5	60.9	56.8	47.2	42.8	30.0	18.3	15.3	11.0	<b>527.4</b>
<b>Khed</b>	18.3	20.3	27.2	35.2	41.1	51.1	54.4	55.9	50.8	45.5	39.0	29.5	16.4	13.5	10.4	<b>508.7</b>
<b>Junnar</b>	18.3	20.0	27.1	35.0	42.3	49.8	55.1	58.9	54.7	48.8	39.9	29.9	17.9	13.7	10.3	<b>521.8</b>
<b>Ambegaon</b>	18.3	20.2	27.2	35.2	41.5	51.0	54.6	56.9	52.2	46.9	39.3	29.9	17.2	13.6	10.4	<b>514.4</b>
<b>Vadgaon Maval</b>	18.7	20.8	27.2	36.5	37.1	56.6	53.7	47.8	40.7	38.0	34.0	25.8	9.6	11.1	9.8	<b>467.4</b>
<b>Mulshi</b>	18.2	20.2	27.5	34.9	41.4	51.3	53.3	55.7	50.7	45.9	39.1	30.1	17.9	14.0	10.4	<b>510.7</b>
<b>Shirur</b>	17.6	19.1	26.2	34.9	43.0	50.4	56.8	60.9	56.9	52.5	42.6	33.6	21.2	13.9	11.2	<b>540.8</b>
<b>Purandar</b>	18.0	20.0	26.7	34.7	42.2	46.9	54.5	58.9	54.6	48.6	40.4	31.4	18.6	14.0	10.5	<b>520.1</b>
<b>Velhe</b>	17.8	19.8	26.2	33.0	40.7	46.0	51.9	55.4	49.8	43.5	36.8	27.5	16.9	13.2	9.9	<b>488.3</b>
<b>Bhor</b>	17.4	19.3	25.3	32.2	40.0	43.4	51.3	54.9	49.3	43.5	35.1	27.3	16.8	12.6	9.5	<b>477.8</b>
<b>Baramati</b>	17.8	19.7	26.3	35.3	41.9	48.0	56.3	60.0	56.2	52.8	41.5	35.1	20.6	14.5	10.8	<b>536.8</b>
<b>Indapur</b>	18.3	20.1	27.0	34.9	42.9	49.9	58.3	62.4	59.4	54.7	43.8	36.4	22.2	17.5	11.7	<b>559.2</b>
<b>Daund</b>	17.8	19.5	26.3	35.0	42.3	48.9	56.4	60.2	56.2	52.2	41.8	34.3	20.6	14.4	11.0	<b>536.8</b>

**Table No. C-54: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	17.4	19.5	26.1	32.1	41.4	43.0	51.3	57.5	53.6	44.4	40.4	28.2	17.3	14.4	10.4	<b>497.0</b>
<b>Haveli</b>	17.4	19.5	26.0	32.2	41.3	43.1	51.3	57.3	53.4	44.4	40.3	28.2	17.3	14.4	10.4	<b>496.4</b>
<b>Khed</b>	17.3	19.1	25.6	33.1	38.7	48.1	51.2	52.6	47.8	42.8	36.7	27.8	15.4	12.7	9.8	<b>478.8</b>
<b>Junnar</b>	17.2	18.8	25.5	32.9	39.8	46.9	51.9	55.4	51.5	45.9	37.5	28.2	16.9	12.9	9.7	<b>491.1</b>
<b>Ambegaon</b>	17.2	19.0	25.6	33.1	39.1	48.0	51.4	53.6	49.1	44.2	37.0	28.2	16.2	12.8	9.8	<b>484.2</b>
<b>Vadgaon Maval</b>	17.6	19.6	25.6	34.4	35.0	53.2	50.5	45.0	38.3	35.8	32.0	24.3	9.1	10.4	9.2	<b>439.9</b>
<b>Mulshi</b>	17.2	19.0	25.8	32.9	39.0	48.3	50.1	52.4	47.8	43.2	36.8	28.3	16.9	13.2	9.8	<b>480.7</b>
<b>Shirur</b>	16.6	17.9	24.7	32.8	40.5	47.4	53.5	57.3	53.6	49.4	40.1	31.7	19.9	13.1	10.6	<b>509.0</b>
<b>Purandar</b>	17.0	18.9	25.2	32.6	39.7	44.1	51.3	55.4	51.4	45.8	38.0	29.5	17.5	13.2	9.9	<b>489.5</b>
<b>Velhe</b>	16.7	18.6	24.6	31.0	38.3	43.3	48.8	52.1	46.8	40.9	34.6	25.9	15.9	12.4	9.3	<b>459.6</b>
<b>Bhor</b>	16.4	18.2	23.8	30.3	37.7	40.9	48.3	51.7	46.4	40.9	33.0	25.6	15.8	11.8	8.9	<b>449.7</b>
<b>Baramati</b>	16.8	18.5	24.7	33.2	39.4	45.2	53.0	56.4	52.9	49.7	39.0	33.0	19.4	13.7	10.2	<b>505.2</b>
<b>Indapur</b>	17.2	18.9	25.4	32.9	40.3	46.9	54.8	58.7	55.9	51.4	41.3	34.2	20.9	16.5	11.0	<b>526.4</b>
<b>Daund</b>	16.7	18.3	24.8	32.9	39.8	46.0	53.1	56.7	52.9	49.1	39.3	32.3	19.4	13.5	10.3	<b>505.2</b>

**Table No. C-55: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	16.4	18.4	24.6	30.4	39.1	40.6	48.5	54.3	50.6	42.0	38.1	26.7	16.3	13.6	9.8	<b>469.4</b>
<b>Haveli</b>	16.4	18.4	24.6	30.4	39.0	40.7	48.5	54.1	50.5	41.9	38.0	26.6	16.3	13.6	9.8	<b>468.8</b>
<b>Khed</b>	16.3	18.1	24.2	31.3	36.5	45.4	48.3	49.7	45.2	40.5	34.7	26.2	14.6	12.0	9.3	<b>452.2</b>
<b>Junnar</b>	16.3	17.8	24.1	31.1	37.6	44.3	49.0	52.3	48.7	43.4	35.4	26.6	15.9	12.2	9.2	<b>463.8</b>
<b>Ambegaon</b>	16.3	17.9	24.2	31.3	36.9	45.3	48.5	50.6	46.4	41.7	35.0	26.6	15.3	12.1	9.2	<b>457.3</b>
<b>Vadgaon Maval</b>	16.6	18.5	24.1	32.5	33.0	50.3	47.7	42.5	36.2	33.8	30.2	22.9	8.6	9.8	8.7	<b>415.5</b>
<b>Mulshi</b>	16.2	18.0	24.4	31.0	36.8	45.6	47.3	49.5	45.1	40.8	34.7	26.7	15.9	12.5	9.3	<b>454.0</b>
<b>Shirur</b>	15.6	16.9	23.3	31.0	38.3	44.8	50.5	54.1	50.6	46.7	37.9	29.9	18.8	12.3	10.0	<b>480.7</b>
<b>Purandar</b>	16.0	17.8	23.8	30.8	37.5	41.7	48.5	52.4	48.6	43.2	35.9	27.9	16.5	12.4	9.4	<b>462.4</b>
<b>Velhe</b>	15.8	17.6	23.3	29.3	36.2	40.9	46.1	49.2	44.2	38.7	32.7	24.5	15.0	11.7	8.8	<b>434.0</b>
<b>Bhor</b>	15.5	17.2	22.5	28.6	35.6	38.6	45.6	48.8	43.8	38.6	31.2	24.2	14.9	11.2	8.4	<b>424.8</b>
<b>Baramati</b>	15.9	17.5	23.4	31.3	37.2	42.7	50.1	53.3	49.9	46.9	36.9	31.2	18.3	12.9	9.6	<b>477.1</b>
<b>Indapur</b>	16.3	17.8	24.0	31.0	38.1	44.3	51.8	55.4	52.8	48.6	39.0	32.3	19.7	15.6	10.4	<b>497.1</b>
<b>Daund</b>	15.8	17.3	23.4	31.1	37.6	43.4	50.1	53.5	49.9	46.4	37.2	30.5	18.3	12.8	9.7	<b>477.1</b>

**Table No. C-56: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Pune District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Pune City</b>	15.5	17.5	23.3	28.8	37.0	38.4	45.9	51.4	48.0	39.8	36.1	25.3	15.5	12.9	9.3	<b>444.7</b>
<b>Haveli</b>	15.5	17.4	23.3	28.8	36.9	38.6	45.9	51.3	47.8	39.7	36.0	25.2	15.4	12.9	9.3	<b>444.1</b>
<b>Khed</b>	15.4	17.1	22.9	29.6	34.6	43.0	45.8	47.1	42.8	38.3	32.9	24.9	13.8	11.4	8.8	<b>428.4</b>
<b>Junnar</b>	15.4	16.9	22.8	29.5	35.6	42.0	46.4	49.6	46.1	41.1	33.6	25.2	15.1	11.6	8.7	<b>439.4</b>
<b>Ambegaon</b>	15.4	17.0	22.9	29.6	35.0	43.0	46.0	47.9	43.9	39.5	33.1	25.2	14.5	11.5	8.8	<b>433.2</b>
<b>Vadgaon Maval</b>	15.7	17.6	22.9	30.8	31.3	47.6	45.2	40.3	34.3	32.0	28.6	21.7	8.1	9.3	8.2	<b>393.6</b>
<b>Mulshi</b>	15.4	17.0	23.1	29.4	34.9	43.2	44.9	46.9	42.7	38.7	32.9	25.3	15.1	11.8	8.8	<b>430.1</b>
<b>Shirur</b>	14.8	16.0	22.1	29.4	36.2	42.4	47.8	51.2	47.9	44.2	35.9	28.3	17.8	11.7	9.5	<b>455.4</b>
<b>Purandar</b>	15.2	16.9	22.5	29.2	35.5	39.5	45.9	49.6	46.0	41.0	34.0	26.4	15.6	11.8	8.9	<b>438.0</b>
<b>Velhe</b>	15.0	16.6	22.0	27.8	34.3	38.7	43.7	46.6	41.9	36.6	31.0	23.2	14.2	11.1	8.3	<b>411.2</b>
<b>Bhor</b>	14.7	16.3	21.3	27.1	33.7	36.6	43.2	46.2	41.5	36.6	29.5	22.9	14.2	10.6	8.0	<b>402.4</b>
<b>Baramati</b>	15.0	16.6	22.1	29.7	35.2	40.4	47.4	50.5	47.3	44.5	34.9	29.6	17.4	12.2	9.1	<b>452.0</b>
<b>Indapur</b>	15.4	16.9	22.7	29.4	36.1	42.0	49.1	52.5	50.0	46.0	36.9	30.6	18.7	14.7	9.8	<b>470.9</b>
<b>Daund</b>	15.0	16.4	22.1	29.5	35.6	41.2	47.5	50.7	47.3	43.9	35.2	28.9	17.4	12.1	9.2	<b>452.0</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Sangli District**

**Table No. C-57: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	13.9	14.9	15.1	18.5	24.7	31.7	34.3	33.6	34.1	31.5	27.8	18.5	13.2	11.1	8.0	<b>331.1</b>
<b>Kavathe Mahakal</b>	14.2	15.4	17.7	22.1	28.0	34.5	38.9	39.4	37.8	34.5	30.0	22.0	15.2	12.3	8.5	<b>370.5</b>
<b>Tasgaon</b>	14.0	14.9	15.0	18.4	24.7	31.7	34.3	33.5	33.7	31.3	27.9	18.5	13.4	11.1	7.9	<b>330.4</b>
<b>Jath</b>	14.5	15.9	20.2	25.6	31.7	37.7	43.7	45.9	43.7	39.6	33.2	26.3	17.0	13.9	9.2	<b>418.4</b>
<b>Walwa</b>	14.0	15.2	16.6	20.2	26.0	32.7	37.1	36.2	34.1	31.7	28.8	20.5	14.8	11.7	8.2	<b>347.7</b>
<b>Shirala</b>	14.1	15.6	19.2	23.4	28.4	34.4	41.8	41.0	35.7	33.0	30.5	23.8	16.8	12.7	8.7	<b>379.2</b>
<b>Vita</b>	14.3	15.6	18.6	22.9	28.4	34.8	40.8	40.4	35.8	32.9	30.3	23.1	16.6	12.5	8.5	<b>375.5</b>
<b>Atpadi</b>	14.7	16.1	20.7	26.2	32.6	38.6	45.0	47.4	45.1	41.1	34.1	27.3	17.7	14.3	9.3	<b>430.2</b>
<b>Palus</b>	14.1	15.2	16.7	20.4	26.2	33.0	37.4	36.5	34.1	31.5	28.9	20.6	15.0	11.8	8.2	<b>349.6</b>
<b>Kadegaon</b>	14.5	16.0	19.8	23.5	28.5	35.4	43.8	41.5	32.2	29.6	30.8	24.7	19.5	13.4	8.5	<b>381.8</b>

**Table No. C-58: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	34.8	37.2	37.7	46.3	61.9	79.3	85.8	83.9	85.2	78.8	69.6	46.3	33.1	27.8	20.0	<b>827.7</b>
<b>Kavathe Mahakal</b>	35.4	38.4	44.3	55.3	70.1	86.2	97.2	98.5	94.4	86.3	75.1	55.1	38.0	30.6	21.3	<b>926.3</b>
<b>Tasgaon</b>	34.9	37.3	37.5	46.0	61.7	79.3	85.8	83.7	84.4	78.3	69.8	46.3	33.4	27.7	19.8	<b>826.0</b>
<b>Jath</b>	36.3	39.8	50.6	64.1	79.2	94.3	109.4	114.7	109.3	99.1	83.1	65.8	42.6	34.8	23.1	<b>1046.1</b>
<b>Walwa</b>	35.1	37.9	41.4	50.5	64.9	81.7	92.8	90.4	85.4	79.1	72.1	51.2	36.9	29.3	20.5	<b>869.2</b>
<b>Shirala</b>	35.3	38.9	48.0	58.6	70.9	86.1	104.6	102.6	89.2	82.4	76.2	59.5	42.0	31.9	21.8	<b>947.9</b>
<b>Vita</b>	35.6	38.9	46.4	57.2	71.0	87.1	102.0	101.0	89.6	82.3	75.8	57.8	41.6	31.2	21.2	<b>938.7</b>
<b>Atpadi</b>	36.6	40.1	51.8	65.6	81.5	96.5	112.5	118.5	112.7	102.7	85.2	68.3	44.3	35.8	23.2	<b>1075.4</b>
<b>Palus</b>	35.2	38.1	41.7	50.9	65.5	82.4	93.5	91.2	85.2	78.8	72.4	51.6	37.6	29.4	20.5	<b>874.1</b>
<b>Kadegaon</b>	36.2	39.9	49.5	58.8	71.2	88.6	109.6	103.7	80.5	74.0	77.1	61.7	48.8	33.4	21.3	<b>954.4</b>

**Table No. C-59: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	27.9	29.8	30.2	37.1	49.5	63.4	68.7	67.2	68.2	63.0	55.7	37.0	26.5	22.2	16.0	<b>662.2</b>
<b>Kavathe Mahakal</b>	28.3	30.8	35.4	44.2	56.1	69.0	77.8	78.8	75.5	69.0	60.1	44.1	30.4	24.5	17.1	<b>741.1</b>
<b>Tasgaon</b>	27.9	29.8	30.0	36.8	49.4	63.4	68.6	67.0	67.5	62.6	55.8	37.1	26.7	22.2	15.8	<b>660.8</b>
<b>Jath</b>	29.1	31.8	40.5	51.3	63.4	75.5	87.5	91.8	87.4	79.3	66.5	52.6	34.0	27.9	18.4	<b>836.9</b>
<b>Walwa</b>	28.1	30.3	33.1	40.4	51.9	65.4	74.2	72.3	68.3	63.3	57.7	40.9	29.5	23.4	16.4	<b>695.3</b>
<b>Shirala</b>	28.3	31.1	38.4	46.9	56.7	68.9	83.7	82.0	71.4	65.9	60.9	47.6	33.6	25.5	17.4	<b>758.3</b>
<b>Vita</b>	28.5	31.1	37.2	45.7	56.8	69.7	81.6	80.8	71.6	65.8	60.7	46.3	33.3	24.9	16.9	<b>751.0</b>
<b>Atpadi</b>	29.3	32.1	41.4	52.5	65.2	77.2	90.0	94.8	90.1	82.1	68.1	54.6	35.4	28.6	18.6	<b>860.3</b>
<b>Palus</b>	28.2	30.4	33.4	40.7	52.4	65.9	74.8	73.0	68.2	63.1	57.9	41.3	30.1	23.5	16.4	<b>699.3</b>
<b>Kadegaon</b>	29.0	31.9	39.6	47.1	57.0	70.9	87.7	83.0	64.4	59.2	61.7	49.3	39.0	26.7	17.1	<b>763.5</b>

**Table No. C-60: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	23.2	24.8	25.1	30.9	41.2	52.9	57.2	56.0	56.8	52.5	46.4	30.8	22.1	18.5	13.3	<b>551.8</b>
<b>Kavathe Mahakal</b>	23.6	25.6	29.5	36.9	46.7	57.5	64.8	65.7	62.9	57.5	50.1	36.7	25.3	20.4	14.2	<b>617.6</b>
<b>Tasgaon</b>	23.3	24.9	25.0	30.7	41.2	52.9	57.2	55.8	56.2	52.2	46.5	30.9	22.3	18.5	13.2	<b>550.6</b>
<b>Jath</b>	24.2	26.5	33.7	42.7	52.8	62.9	72.9	76.5	72.9	66.0	55.4	43.8	28.4	23.2	15.4	<b>697.4</b>
<b>Walwa</b>	23.4	25.3	27.6	33.7	43.3	54.5	61.9	60.3	56.9	52.8	48.1	34.1	24.6	19.5	13.7	<b>579.4</b>
<b>Shirala</b>	23.6	25.9	32.0	39.1	47.3	57.4	69.7	68.4	59.5	54.9	50.8	39.7	28.0	21.2	14.5	<b>631.9</b>
<b>Vita</b>	23.8	26.0	31.0	38.1	47.3	58.0	68.0	67.4	59.7	54.9	50.5	38.5	27.7	20.8	14.1	<b>625.8</b>
<b>Atpadi</b>	24.4	26.8	34.5	43.7	54.3	64.4	75.0	79.0	75.1	68.4	56.8	45.5	29.5	23.9	15.5	<b>717.0</b>
<b>Palus</b>	23.5	25.4	27.8	33.9	43.6	55.0	62.4	60.8	56.8	52.6	48.2	34.4	25.1	19.6	13.6	<b>582.7</b>
<b>Kadegaon</b>	24.1	26.6	33.0	39.2	47.5	59.1	73.1	69.1	53.7	49.3	51.4	41.1	32.5	22.3	14.2	<b>636.3</b>

**Table No. C-61: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	17.4	18.6	18.8	23.2	30.9	39.6	42.9	42.0	42.6	39.4	34.8	23.1	16.6	13.9	10.0	<b>413.9</b>
<b>Kavathe Mahakal</b>	17.7	19.2	22.1	27.7	35.0	43.1	48.6	49.3	47.2	43.1	37.6	27.6	19.0	15.3	10.7	<b>463.2</b>
<b>Tasgaon</b>	17.5	18.6	18.8	23.0	30.9	39.7	42.9	41.9	42.2	39.1	34.9	23.2	16.7	13.9	9.9	<b>413.0</b>
<b>Jath</b>	18.2	19.9	25.3	32.0	39.6	47.2	54.7	57.4	54.7	49.5	41.5	32.9	21.3	17.4	11.5	<b>523.1</b>
<b>Walwa</b>	17.5	19.0	20.7	25.2	32.5	40.9	46.4	45.2	42.7	39.6	36.0	25.6	18.4	14.6	10.3	<b>434.6</b>
<b>Shirala</b>	17.7	19.5	24.0	29.3	35.5	43.1	52.3	51.3	44.6	41.2	38.1	29.7	21.0	15.9	10.9	<b>474.0</b>
<b>Vita</b>	17.8	19.5	23.2	28.6	35.5	43.5	51.0	50.5	44.8	41.2	37.9	28.9	20.8	15.6	10.6	<b>469.4</b>
<b>Atpadi</b>	18.3	20.1	25.9	32.8	40.8	48.3	56.3	59.2	56.3	51.3	42.6	34.2	22.2	17.9	11.6	<b>537.7</b>
<b>Palus</b>	17.6	19.0	20.9	25.5	32.7	41.2	46.8	45.6	42.6	39.4	36.2	25.8	18.8	14.7	10.2	<b>437.0</b>
<b>Kadegaon</b>	18.1	19.9	24.7	29.4	35.6	44.3	54.8	51.9	40.3	37.0	38.6	30.8	24.4	16.7	10.7	<b>477.2</b>

**Table No. C-62: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	16.4	17.5	17.7	21.8	29.1	37.3	40.4	39.5	40.1	37.1	32.7	21.8	15.6	13.1	9.4	<b>389.5</b>
<b>Kavathe Mahakal</b>	16.7	18.1	20.8	26.0	33.0	40.6	45.8	46.4	44.4	40.6	35.3	25.9	17.9	14.4	10.0	<b>435.9</b>
<b>Tasgaon</b>	16.4	17.6	17.7	21.7	29.1	37.3	40.4	39.4	39.7	36.8	32.8	21.8	15.7	13.0	9.3	<b>388.7</b>
<b>Jath</b>	17.1	18.7	23.8	30.2	37.3	44.4	51.5	54.0	51.4	46.6	39.1	30.9	20.0	16.4	10.9	<b>492.3</b>
<b>Walwa</b>	16.5	17.8	19.5	23.8	30.5	38.5	43.7	42.6	40.2	37.2	33.9	24.1	17.4	13.8	9.6	<b>409.0</b>
<b>Shirala</b>	16.6	18.3	22.6	27.6	33.4	40.5	49.2	48.3	42.0	38.8	35.8	28.0	19.8	15.0	10.3	<b>446.1</b>
<b>Vita</b>	16.8	18.3	21.9	26.9	33.4	41.0	48.0	47.5	42.1	38.7	35.7	27.2	19.6	14.7	10.0	<b>441.8</b>
<b>Atpadi</b>	17.2	18.9	24.4	30.9	38.4	45.4	52.9	55.8	53.0	48.3	40.1	32.1	20.8	16.8	10.9	<b>506.1</b>
<b>Palus</b>	16.6	17.9	19.6	24.0	30.8	38.8	44.0	42.9	40.1	37.1	34.0	24.3	17.7	13.9	9.6	<b>411.3</b>
<b>Kadegaon</b>	17.0	18.8	23.3	27.7	33.5	41.7	51.6	48.8	37.9	34.8	36.3	29.0	23.0	15.7	10.0	<b>449.1</b>

**Table No. C-63: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	15.5	16.6	16.8	20.6	27.5	35.2	38.1	37.3	37.9	35.0	30.9	20.6	14.7	12.3	8.9	<b>367.9</b>
<b>Kavathe Mahakal</b>	15.7	17.1	19.7	24.6	31.1	38.3	43.2	43.8	42.0	38.4	33.4	24.5	16.9	13.6	9.5	<b>411.7</b>
<b>Tasgaon</b>	15.5	16.6	16.7	20.5	27.4	35.2	38.1	37.2	37.5	34.8	31.0	20.6	14.9	12.3	8.8	<b>367.1</b>
<b>Jath</b>	16.1	17.7	22.5	28.5	35.2	41.9	48.6	51.0	48.6	44.0	36.9	29.2	18.9	15.5	10.2	<b>464.9</b>
<b>Walwa</b>	15.6	16.9	18.4	22.4	28.9	36.3	41.2	40.2	37.9	35.2	32.0	22.7	16.4	13.0	9.1	<b>386.3</b>
<b>Shirala</b>	15.7	17.3	21.3	26.0	31.5	38.3	46.5	45.6	39.6	36.6	33.9	26.4	18.7	14.2	9.7	<b>421.3</b>
<b>Vita</b>	15.8	17.3	20.6	25.4	31.5	38.7	45.3	44.9	39.8	36.6	33.7	25.7	18.5	13.9	9.4	<b>417.2</b>
<b>Atpadi</b>	16.3	17.8	23.0	29.2	36.2	42.9	50.0	52.7	50.1	45.6	37.9	30.4	19.7	15.9	10.3	<b>478.0</b>
<b>Palus</b>	15.6	16.9	18.5	22.6	29.1	36.6	41.6	40.5	37.9	35.0	32.2	22.9	16.7	13.1	9.1	<b>388.5</b>
<b>Kadegaon</b>	16.1	17.7	22.0	26.2	31.6	39.4	48.7	46.1	35.8	32.9	34.3	27.4	21.7	14.8	9.5	<b>424.2</b>

**Table No. C-64: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Sangli District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Miraj</b>	14.7	15.7	15.9	19.5	26.0	33.4	36.1	35.3	35.9	33.2	29.3	19.5	13.9	11.7	8.4	<b>348.5</b>
<b>Kavathe Mahakal</b>	14.9	16.2	18.6	23.3	29.5	36.3	40.9	41.5	39.7	36.3	31.6	23.2	16.0	12.9	9.0	<b>390.0</b>
<b>Tasgaon</b>	14.7	15.7	15.8	19.4	26.0	33.4	36.1	35.3	35.5	33.0	29.4	19.5	14.1	11.7	8.3	<b>347.8</b>
<b>Jath</b>	15.3	16.8	21.3	27.0	33.4	39.7	46.0	48.3	46.0	41.7	35.0	27.7	17.9	14.7	9.7	<b>440.5</b>
<b>Walwa</b>	14.8	16.0	17.4	21.3	27.3	34.4	39.1	38.1	35.9	33.3	30.4	21.5	15.5	12.3	8.6	<b>366.0</b>
<b>Shirala</b>	14.9	16.4	20.2	24.7	29.9	36.3	44.0	43.2	37.6	34.7	32.1	25.0	17.7	13.4	9.2	<b>399.1</b>
<b>Vita</b>	15.0	16.4	19.6	24.1	29.9	36.7	43.0	42.5	37.7	34.7	31.9	24.3	17.5	13.1	8.9	<b>395.3</b>
<b>Atpadi</b>	15.4	16.9	21.8	27.6	34.3	40.6	47.4	49.9	47.4	43.2	35.9	28.8	18.7	15.1	9.8	<b>452.8</b>
<b>Palus</b>	14.8	16.0	17.6	21.4	27.6	34.7	39.4	38.4	35.9	33.2	30.5	21.7	15.8	12.4	8.6	<b>368.0</b>
<b>Kadegaon</b>	15.2	16.8	20.8	24.8	30.0	37.3	46.1	43.7	33.9	31.1	32.5	26.0	20.6	14.1	9.0	<b>401.8</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Satara District**

**Table No. C-65: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	14.0	15.5	20.0	25.5	31.0	35.1	42.2	43.6	38.1	34.6	29.3	23.6	15.6	11.1	8.0	<b>387.2</b>
<b>Jaoli</b>	13.0	14.2	17.5	20.6	31.2	26.8	34.6	36.9	30.6	24.1	18.1	13.5	10.8	9.5	6.2	<b>307.6</b>
<b>Koregaon</b>	14.2	15.7	20.3	26.2	31.4	36.1	43.3	44.7	39.6	36.6	30.8	25.3	16.4	11.5	8.3	<b>400.3</b>
<b>Wai</b>	13.7	15.1	19.5	24.7	31.1	32.9	39.8	42.4	37.4	32.9	25.9	20.3	12.9	9.5	7.1	<b>365.3</b>
<b>Mahabaleshwar</b>	12.9	14.2	17.6	20.5	28.7	26.6	34.5	36.7	30.4	23.9	17.6	12.4	8.9	7.5	5.4	<b>297.6</b>
<b>Khandala</b>	14.1	15.6	20.7	28.4	33.1	36.8	44.1	47.1	44.1	41.7	31.5	27.3	15.5	10.3	8.1	<b>418.4</b>
<b>Phaltan</b>	14.2	15.7	21.0	29.1	33.4	37.9	45.3	48.2	45.7	43.9	33.1	29.4	16.6	10.9	8.5	<b>432.8</b>
<b>Dahivadi</b>	14.3	15.8	20.4	26.4	31.8	37.2	43.9	45.6	41.5	38.5	32.1	26.4	16.9	12.3	8.6	<b>411.6</b>
<b>Vaduj</b>	14.3	15.8	20.1	25.5	30.8	36.5	43.4	44.2	39.0	36.1	31.5	25.5	17.1	12.4	8.6	<b>400.7</b>
<b>Patan</b>	14.3	15.7	19.9	24.3	29.5	35.2	42.9	42.3	34.8	31.6	30.0	23.9	17.5	12.4	8.3	<b>382.5</b>
<b>Karad</b>	14.6	16.2	20.3	23.7	28.3	35.8	45.3	41.8	30.0	27.6	31.2	25.4	21.2	13.9	8.6	<b>383.9</b>

**Table No. C-66: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	35.1	38.8	50.0	63.7	77.5	87.8	105.4	109.1	95.3	86.6	73.1	58.9	38.9	27.7	19.9	<b>967.9</b>
<b>Jaoli</b>	32.5	35.5	43.8	51.5	78.0	67.0	86.5	92.3	76.5	60.3	45.3	33.8	27.0	23.8	15.5	<b>769.0</b>
<b>Koregaon</b>	35.4	39.1	50.7	65.6	78.4	90.3	108.2	111.7	98.9	91.6	76.9	63.4	41.1	28.6	20.6	<b>1000.7</b>
<b>Wai</b>	34.2	37.8	48.8	61.8	77.7	82.3	99.6	106.0	93.6	82.3	64.7	50.8	32.2	23.7	17.8	<b>913.2</b>
<b>Mahabaleshwar</b>	32.3	35.5	44.1	51.2	71.6	66.4	86.2	91.8	76.0	59.6	43.9	30.9	22.3	18.7	13.5	<b>744.1</b>
<b>Khandala</b>	35.2	39.0	51.9	71.0	82.7	92.1	110.2	117.6	110.3	104.1	78.6	68.3	38.8	25.9	20.3	<b>1046.0</b>
<b>Phaltan</b>	35.5	39.2	52.4	72.7	83.6	94.8	113.3	120.5	114.2	109.8	82.6	73.5	41.4	27.3	21.2	<b>1082.1</b>
<b>Dahivadi</b>	35.8	39.4	51.0	66.1	79.5	92.9	109.6	114.1	103.7	96.1	80.3	66.0	42.2	30.7	21.6	<b>1029.0</b>
<b>Vaduj</b>	35.8	39.4	50.2	63.8	77.1	91.2	108.4	110.6	97.6	90.1	78.7	63.8	42.8	30.9	21.4	<b>1001.8</b>
<b>Patan</b>	35.6	39.4	49.7	60.7	73.8	88.1	107.2	105.7	86.9	78.9	74.9	59.6	43.8	31.1	20.8	<b>956.2</b>
<b>Karad</b>	36.6	40.4	50.8	59.1	70.8	89.4	113.3	104.5	75.1	69.0	78.0	63.5	53.1	34.8	21.4	<b>959.9</b>

**Table No. C-67: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	28.1	31.0	40.0	50.9	62.0	70.3	84.3	87.3	76.3	69.3	58.5	47.1	31.2	22.2	15.9	<b>774.3</b>
<b>Jaoli</b>	26.0	28.4	35.0	41.2	62.4	53.6	69.2	73.8	61.2	48.2	36.2	27.0	21.6	19.0	12.4	<b>615.2</b>
<b>Koregaon</b>	28.3	31.3	40.5	52.5	62.7	72.3	86.6	89.4	79.2	73.3	61.5	50.7	32.9	22.9	16.5	<b>800.6</b>
<b>Wai</b>	27.3	30.2	39.1	49.4	62.2	65.8	79.6	84.8	74.9	65.8	51.7	40.7	25.8	19.0	14.2	<b>730.6</b>
<b>Mahabaleshwar</b>	25.8	28.4	35.3	40.9	57.3	53.1	68.9	73.5	60.8	47.7	35.1	24.7	17.8	15.0	10.8	<b>595.3</b>
<b>Khandala</b>	28.2	31.2	41.5	56.8	66.2	73.7	88.1	94.1	88.2	83.3	62.9	54.6	31.1	20.7	16.2	<b>836.8</b>
<b>Phaltan</b>	28.4	31.4	41.9	58.2	66.9	75.8	90.7	96.4	91.4	87.8	66.1	58.8	33.1	21.9	16.9	<b>865.7</b>
<b>Dahivadi</b>	28.6	31.5	40.8	52.9	63.6	74.3	87.7	91.3	82.9	76.9	64.3	52.8	33.7	24.6	17.3	<b>823.2</b>
<b>Vaduj</b>	28.6	31.5	40.2	51.1	61.7	72.9	86.7	88.5	78.1	72.1	63.0	51.0	34.3	24.7	17.1	<b>801.4</b>
<b>Patan</b>	28.5	31.5	39.8	48.5	59.1	70.5	85.7	84.6	69.5	63.1	59.9	47.7	35.0	24.9	16.7	<b>765.0</b>
<b>Karad</b>	29.3	32.4	40.6	47.3	56.6	71.5	90.7	83.6	60.1	55.2	62.4	50.8	42.5	27.8	17.2	<b>767.9</b>

**Table No. C-68: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	23.4	25.9	33.3	42.4	51.7	58.6	70.3	72.7	63.6	57.7	48.8	39.3	26.0	18.5	13.3	<b>645.3</b>
<b>Jaoli</b>	21.7	23.7	29.2	34.3	52.0	44.7	57.7	61.5	51.0	40.2	30.2	22.5	18.0	15.8	10.3	<b>512.7</b>
<b>Koregaon</b>	23.6	26.1	33.8	43.7	52.3	60.2	72.1	74.5	66.0	61.1	51.3	42.2	27.4	19.1	13.8	<b>667.1</b>
<b>Wai</b>	22.8	25.2	32.6	41.2	51.8	54.9	66.4	70.6	62.4	54.8	43.1	33.9	21.5	15.8	11.9	<b>608.8</b>
<b>Mahabaleshwar</b>	21.5	23.7	29.4	34.1	47.8	44.3	57.5	61.2	50.7	39.8	29.3	20.6	14.9	12.5	9.0	<b>496.0</b>
<b>Khandala</b>	23.5	26.0	34.6	47.4	55.2	61.4	73.4	78.4	73.5	69.4	52.4	45.5	25.9	17.2	13.5	<b>697.3</b>
<b>Phaltan</b>	23.7	26.2	34.9	48.5	55.7	63.2	75.6	80.3	76.1	73.2	55.1	49.0	27.6	18.2	14.1	<b>721.4</b>
<b>Dahivadi</b>	23.9	26.3	34.0	44.0	53.0	61.9	73.1	76.1	69.1	64.1	53.6	44.0	28.1	20.5	14.4	<b>686.0</b>
<b>Vaduj</b>	23.9	26.3	33.5	42.6	51.4	60.8	72.3	73.7	65.1	60.1	52.5	42.5	28.5	20.6	14.3	<b>667.9</b>
<b>Patan</b>	23.8	26.2	33.1	40.4	49.2	58.7	71.4	70.5	57.9	52.6	49.9	39.8	29.2	20.7	13.9	<b>637.5</b>
<b>Karad</b>	24.4	27.0	33.9	39.4	47.2	59.6	75.5	69.6	50.1	46.0	52.0	42.3	35.4	23.2	14.3	<b>639.9</b>

**Table No. C-69: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	17.5	19.4	25.0	31.8	38.7	43.9	52.7	54.5	47.7	43.3	36.6	29.5	19.5	13.9	9.9	<b>484.0</b>
<b>Jaoli</b>	16.3	17.8	21.9	25.8	39.0	33.5	43.3	46.1	38.3	30.1	22.6	16.9	13.5	11.9	7.8	<b>384.5</b>
<b>Koregaon</b>	17.7	19.6	25.3	32.8	39.2	45.2	54.1	55.9	49.5	45.8	38.5	31.7	20.5	14.3	10.3	<b>500.4</b>
<b>Wai</b>	17.1	18.9	24.4	30.9	38.8	41.1	49.8	53.0	46.8	41.1	32.3	25.4	16.1	11.9	8.9	<b>456.6</b>
<b>Mahabaleshwar</b>	16.1	17.8	22.1	25.6	35.8	33.2	43.1	45.9	38.0	29.8	22.0	15.5	11.2	9.4	6.8	<b>372.0</b>
<b>Khandala</b>	17.6	19.5	25.9	35.5	41.4	46.0	55.1	58.8	55.1	52.1	39.3	34.1	19.4	12.9	10.1	<b>523.0</b>
<b>Phaltan</b>	17.7	19.6	26.2	36.4	41.8	47.4	56.7	60.2	57.1	54.9	41.3	36.7	20.7	13.7	10.6	<b>541.0</b>
<b>Dahivadi</b>	17.9	19.7	25.5	33.0	39.7	46.4	54.8	57.0	51.8	48.1	40.2	33.0	21.1	15.3	10.8	<b>514.5</b>
<b>Vaduj</b>	17.9	19.7	25.1	31.9	38.5	45.6	54.2	55.3	48.8	45.1	39.3	31.9	21.4	15.5	10.7	<b>500.9</b>
<b>Patan</b>	17.8	19.7	24.9	30.3	36.9	44.0	53.6	52.9	43.4	39.4	37.5	29.8	21.9	15.6	10.4	<b>478.1</b>
<b>Karad</b>	18.3	20.2	25.4	29.6	35.4	44.7	56.7	52.2	37.6	34.5	39.0	31.7	26.5	17.4	10.7	<b>479.9</b>

**Table No. C-70: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	16.5	18.3	23.5	30.0	36.5	41.3	49.6	51.3	44.9	40.8	34.4	27.7	18.3	13.0	9.4	<b>455.5</b>
<b>Jaoli</b>	15.3	16.7	20.6	24.2	36.7	31.5	40.7	43.4	36.0	28.4	21.3	15.9	12.7	11.2	7.3	<b>361.9</b>
<b>Koregaon</b>	16.7	18.4	23.8	30.9	36.9	42.5	50.9	52.6	46.6	43.1	36.2	29.8	19.3	13.5	9.7	<b>470.9</b>
<b>Wai</b>	16.1	17.8	23.0	29.1	36.6	38.7	46.8	49.9	44.1	38.7	30.4	23.9	15.2	11.2	8.4	<b>429.8</b>
<b>Mahabaleshwar</b>	15.2	16.7	20.8	24.1	33.7	31.2	40.6	43.2	35.8	28.1	20.7	14.5	10.5	8.8	6.4	<b>350.1</b>
<b>Khandala</b>	16.6	18.4	24.4	33.4	38.9	43.3	51.8	55.4	51.9	49.0	37.0	32.1	18.3	12.2	9.5	<b>492.2</b>
<b>Phaltan</b>	16.7	18.5	24.7	34.2	39.3	44.6	53.3	56.7	53.7	51.7	38.9	34.6	19.5	12.9	10.0	<b>509.2</b>
<b>Dahivadi</b>	16.8	18.6	24.0	31.1	37.4	43.7	51.6	53.7	48.8	45.2	37.8	31.1	19.8	14.4	10.2	<b>484.2</b>
<b>Vaduj</b>	16.8	18.5	23.6	30.0	36.3	42.9	51.0	52.0	45.9	42.4	37.0	30.0	20.2	14.5	10.1	<b>471.4</b>
<b>Patan</b>	16.8	18.5	23.4	28.6	34.8	41.4	50.4	49.7	40.9	37.1	35.3	28.1	20.6	14.6	9.8	<b>450.0</b>
<b>Karad</b>	17.2	19.0	23.9	27.8	33.3	42.1	53.3	49.2	35.3	32.5	36.7	29.9	25.0	16.4	10.1	<b>451.7</b>

**Table No. C-71: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	15.6	17.2	22.2	28.3	34.4	39.0	46.9	48.4	42.3	38.4	32.6	26.2	17.3	12.3	8.9	430.2
<b>Jaoli</b>	14.4	15.8	19.4	22.9	34.7	29.8	38.4	41.0	34.0	26.8	20.1	15.0	12.0	10.6	6.9	341.8
<b>Koregaon</b>	15.8	17.4	22.6	29.1	34.9	40.1	48.1	49.7	44.0	40.7	34.2	28.1	18.2	12.8	9.2	444.8
<b>Wai</b>	15.2	16.8	21.7	27.4	34.6	36.6	44.2	47.1	41.6	36.6	28.8	22.6	14.3	10.6	7.9	405.9
<b>Mahabaleshwar</b>	14.3	15.8	19.6	22.8	31.9	29.6	38.3	40.8	33.8	26.6	19.6	13.8	9.9	8.3	6.0	330.7
<b>Khandala</b>	15.7	17.3	23.0	31.6	36.8	40.9	49.0	52.3	49.0	46.3	35.0	30.3	17.2	11.4	9.0	464.9
<b>Phaltan</b>	15.8	17.4	23.3	32.3	37.1	42.1	50.3	53.6	50.8	48.8	36.8	32.7	18.4	12.1	9.4	480.9
<b>Dahivadi</b>	15.9	17.6	22.7	29.3	35.3	41.3	48.8	50.7	46.1	42.8	35.7	29.3	18.8	13.7	9.6	457.3
<b>Vaduj</b>	15.9	17.6	22.3	28.3	34.2	40.6	48.2	49.1	43.3	40.1	35.0	28.3	19.0	13.8	9.6	445.2
<b>Patan</b>	15.9	17.4	22.1	27.0	32.8	39.1	47.7	47.0	38.7	35.1	33.3	26.6	19.4	13.8	9.2	425.0
<b>Karad</b>	16.2	18.0	22.6	26.3	31.4	39.8	50.3	46.4	33.3	30.7	34.7	28.2	23.6	15.4	9.6	426.6

**Table No. C-72: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Satara District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Satara</b>	14.8	16.3	21.1	26.8	32.6	37.0	44.4	45.9	40.1	36.5	30.8	24.8	16.4	11.7	8.4	<b>407.5</b>
<b>Jaoli</b>	13.7	14.9	18.4	21.7	32.8	28.2	36.4	38.8	32.2	25.4	19.1	14.2	11.4	10.0	6.5	<b>323.8</b>
<b>Koregaon</b>	14.9	16.5	21.3	27.6	33.0	38.0	45.6	47.1	41.7	38.6	32.4	26.7	17.3	12.1	8.7	<b>421.4</b>
<b>Wai</b>	14.4	15.9	20.6	26.0	32.7	34.6	41.9	44.6	39.4	34.6	27.2	21.4	13.6	10.0	7.5	<b>384.5</b>
<b>Mahabaleshwar</b>	13.6	15.0	18.6	21.5	30.2	28.0	36.3	38.7	32.0	25.1	18.5	13.0	9.4	7.9	5.7	<b>313.3</b>
<b>Khandala</b>	14.8	16.4	21.8	29.9	34.8	38.8	46.4	49.5	46.4	43.8	33.1	28.7	16.4	10.9	8.5	<b>440.4</b>
<b>Phaltan</b>	14.9	16.5	22.1	30.6	35.2	39.9	47.7	50.7	48.1	46.2	34.8	30.9	17.4	11.5	8.9	<b>455.6</b>
<b>Dahivadi</b>	15.1	16.6	21.5	27.8	33.5	39.1	46.2	48.0	43.7	40.5	33.8	27.8	17.8	12.9	9.1	<b>433.3</b>
<b>Vaduj</b>	15.1	16.6	21.2	26.9	32.5	38.4	45.7	46.6	41.1	37.9	33.1	26.9	18.0	13.0	9.0	<b>421.8</b>
<b>Patan</b>	15.0	16.6	20.9	25.5	31.1	37.1	45.1	44.5	36.6	33.2	31.5	25.1	18.4	13.1	8.8	<b>402.6</b>
<b>Karad</b>	15.4	17.0	21.4	24.9	29.8	37.7	47.7	44.0	31.6	29.0	32.8	26.7	22.4	14.7	9.0	<b>404.2</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Solapur District**

**Table No. C-73: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	15.2	16.6	23.3	30.3	34.2	39.2	49.0	53.9	50.2	46.2	40.2	35.8	17.5	16.2	10.3	<b>478.1</b>
<b>Solapur-S</b>	15.2	16.5	22.9	29.6	34.3	39.6	48.6	53.0	49.9	45.8	39.0	34.2	17.8	16.0	10.1	<b>472.3</b>
<b>Barshi</b>	14.9	16.2	22.1	28.6	34.5	40.0	47.7	51.3	48.7	44.7	36.7	31.0	17.8	14.9	9.7	<b>458.8</b>
<b>Akkalkot</b>	15.1	16.4	22.8	29.5	34.1	39.3	48.3	52.6	49.3	45.2	38.7	33.9	17.5	15.8	10.0	<b>468.5</b>
<b>Madha</b>	15.0	16.4	22.4	28.7	35.2	41.0	48.6	52.5	50.8	46.4	37.5	31.6	18.7	15.9	9.9	<b>470.6</b>
<b>Karmala</b>	14.5	15.8	21.4	28.0	34.3	39.8	46.4	49.6	46.8	43.1	34.8	28.6	17.3	13.3	9.2	<b>442.9</b>
<b>Pandharpur</b>	15.6	17.1	23.6	29.6	38.1	44.6	51.8	57.2	57.5	52.0	40.4	33.6	21.7	18.7	10.8	<b>512.4</b>
<b>Mohol</b>	15.2	16.6	22.8	29.2	35.3	41.0	49.0	53.4	51.5	47.0	38.6	32.9	18.8	16.4	10.2	<b>477.9</b>
<b>Malshiras</b>	14.7	16.1	21.5	27.6	34.0	39.6	46.4	49.5	47.1	43.1	34.9	28.7	17.9	14.2	9.3	<b>444.5</b>
<b>Sangola</b>	15.1	16.6	22.2	28.1	35.3	41.5	48.5	52.4	51.4	46.6	37.3	30.7	19.5	16.5	10.0	<b>471.7</b>
<b>Mangalwedha</b>	15.3	16.8	22.9	29.0	36.5	42.7	50.0	54.6	53.9	48.9	38.8	32.3	20.2	17.4	10.4	<b>489.6</b>

**Table No. C-74: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	38.1	41.4	58.3	75.6	85.5	98.1	122.6	134.6	125.4	115.6	100.5	89.4	43.8	40.6	25.6	<b>1195.1</b>
<b>Solapur-S</b>	37.9	41.2	57.3	74.0	85.7	98.9	121.4	132.5	124.6	114.4	97.6	85.4	44.5	40.1	25.3	<b>1180.7</b>
<b>Barshi</b>	37.2	40.5	55.3	71.4	86.2	100.0	119.2	128.3	121.9	111.8	91.7	77.6	44.5	37.3	24.1	<b>1146.9</b>
<b>Akkalkot</b>	37.8	41.1	57.0	73.7	85.2	98.3	120.7	131.5	123.2	113.1	96.8	84.7	43.9	39.5	25.1	<b>1171.3</b>
<b>Madha</b>	37.6	41.1	56.0	71.8	88.0	102.5	121.5	131.2	126.9	116.0	93.6	79.0	46.8	39.7	24.8	<b>1176.5</b>
<b>Karmala</b>	36.2	39.5	53.5	69.9	85.7	99.5	115.9	124.1	117.1	107.8	87.1	71.6	43.3	33.1	23.0	<b>1107.4</b>
<b>Pandharpur</b>	39.0	42.8	59.1	74.1	95.3	111.6	129.4	143.0	143.7	130.1	101.1	83.9	54.1	46.7	27.0	<b>1281.1</b>
<b>Mohol</b>	38.0	41.4	57.0	73.0	88.2	102.4	122.6	133.6	128.6	117.4	96.5	82.3	47.0	41.1	25.4	<b>1194.7</b>
<b>Malshiras</b>	36.7	40.3	53.6	69.1	84.9	99.0	116.0	123.6	117.7	107.7	87.2	71.7	44.8	35.5	23.3	<b>1111.1</b>
<b>Sangola</b>	37.8	41.4	55.6	70.3	88.4	103.8	121.2	130.9	128.4	116.6	93.2	76.8	48.7	41.2	25.1	<b>1179.3</b>
<b>Mangalwedha</b>	38.3	42.0	57.3	72.5	91.2	106.7	124.9	136.4	134.8	122.3	97.0	80.9	50.5	43.4	25.9	<b>1224.0</b>

**Table No. C-75: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	30.5	33.1	46.6	60.5	68.4	78.5	98.1	107.7	100.3	92.5	80.4	71.5	35.1	32.5	20.5	<b>956.1</b>
<b>Solapur-S</b>	30.3	33.0	45.8	59.2	68.5	79.1	97.1	106.0	99.7	91.5	78.1	68.3	35.6	32.0	20.2	<b>944.5</b>
<b>Barshi</b>	29.7	32.4	44.2	57.1	69.0	80.0	95.4	102.6	97.5	89.4	73.3	62.1	35.6	29.9	19.3	<b>917.6</b>
<b>Akkalkot</b>	30.2	32.9	45.6	59.0	68.1	78.6	96.5	105.2	98.6	90.5	77.4	67.8	35.1	31.6	20.0	<b>937.1</b>
<b>Madha</b>	30.1	32.9	44.8	57.4	70.4	82.0	97.2	105.0	101.5	92.8	74.9	63.2	37.4	31.7	19.8	<b>941.2</b>
<b>Karmala</b>	29.0	31.6	42.8	55.9	68.5	79.6	92.7	99.3	93.7	86.2	69.7	57.3	34.6	26.5	18.4	<b>885.9</b>
<b>Pandharpur</b>	31.2	34.2	47.3	59.3	76.3	89.3	103.6	114.4	114.9	104.1	80.9	67.2	43.3	37.4	21.6	<b>1024.8</b>
<b>Mohol</b>	30.4	33.2	45.6	58.4	70.5	81.9	98.1	106.9	102.9	93.9	77.2	65.9	37.6	32.9	20.3	<b>955.8</b>
<b>Malshiras</b>	29.4	32.2	42.9	55.3	67.9	79.2	92.8	98.9	94.1	86.2	69.7	57.3	35.8	28.4	18.7	<b>888.9</b>
<b>Sangola</b>	30.2	33.1	44.5	56.2	70.7	83.0	96.9	104.7	102.8	93.3	74.6	61.4	39.0	32.9	20.1	<b>943.4</b>
<b>Mangalwedha</b>	30.6	33.6	45.9	58.0	72.9	85.3	99.9	109.1	107.8	97.8	77.6	64.7	40.4	34.7	20.8	<b>979.2</b>

**Table No. C-76: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	25.4	27.6	38.8	50.4	57.0	65.4	81.7	89.8	83.6	77.0	67.0	59.6	29.2	27.1	17.1	<b>796.8</b>
<b>Solapur-S</b>	25.3	27.5	38.2	49.3	57.1	65.9	80.9	88.3	83.1	76.3	65.1	56.9	29.6	26.7	16.8	<b>787.1</b>
<b>Barshi</b>	24.8	27.0	36.8	47.6	57.5	66.7	79.5	85.5	81.2	74.5	61.1	51.7	29.7	24.9	16.1	<b>764.6</b>
<b>Akkalkot</b>	25.2	27.4	38.0	49.1	56.8	65.5	80.4	87.6	82.1	75.4	64.5	56.5	29.2	26.3	16.7	<b>780.9</b>
<b>Madha</b>	25.1	27.4	37.4	47.9	58.7	68.3	81.0	87.5	84.6	77.4	62.4	52.7	31.2	26.5	16.5	<b>784.4</b>
<b>Karmala</b>	24.1	26.4	35.7	46.6	57.1	66.3	77.3	82.7	78.1	71.9	58.1	47.7	28.9	22.1	15.4	<b>738.2</b>
<b>Pandharpur</b>	26.0	28.5	39.4	49.4	63.5	74.4	86.3	95.3	95.8	86.7	67.4	56.0	36.1	31.2	18.0	<b>854.0</b>
<b>Mohol</b>	25.3	27.6	38.0	48.7	58.8	68.3	81.7	89.1	85.8	78.3	64.3	54.9	31.3	27.4	16.9	<b>796.5</b>
<b>Malshiras</b>	24.5	26.9	35.8	46.0	56.6	66.0	77.3	82.4	78.5	71.8	58.1	47.8	29.9	23.7	15.6	<b>740.8</b>
<b>Sangola</b>	25.2	27.6	37.1	46.9	58.9	69.2	80.8	87.3	85.6	77.7	62.1	51.2	32.5	27.4	16.7	<b>786.2</b>
<b>Mangalwedha</b>	25.5	28.0	38.2	48.3	60.8	71.1	83.3	90.9	89.8	81.5	64.7	53.9	33.7	28.9	17.3	<b>816.0</b>

**Table No. C-77: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	19.1	20.7	29.1	37.8	42.7	49.1	61.3	67.3	62.7	57.8	50.2	44.7	21.9	20.3	12.8	<b>597.6</b>
<b>Solapur-S</b>	18.9	20.6	28.6	37.0	42.8	49.5	60.7	66.3	62.3	57.2	48.8	42.7	22.2	20.0	12.6	<b>590.3</b>
<b>Barshi</b>	18.6	20.3	27.6	35.7	43.1	50.0	59.6	64.1	60.9	55.9	45.8	38.8	22.2	18.7	12.1	<b>573.5</b>
<b>Akkalkot</b>	18.9	20.5	28.5	36.9	42.6	49.1	60.3	65.7	61.6	56.6	48.4	42.3	21.9	19.7	12.5	<b>585.7</b>
<b>Madha</b>	18.8	20.5	28.0	35.9	44.0	51.2	60.7	65.6	63.5	58.0	46.8	39.5	23.4	19.8	12.4	<b>588.3</b>
<b>Karmala</b>	18.1	19.8	26.8	34.9	42.8	49.7	57.9	62.0	58.6	53.9	43.6	35.8	21.6	16.6	11.5	<b>553.7</b>
<b>Pandharpur</b>	19.5	21.4	29.5	37.1	47.7	55.8	64.7	71.5	71.8	65.0	50.5	42.0	27.1	23.4	13.5	<b>640.5</b>
<b>Mohol</b>	19.0	20.7	28.5	36.5	44.1	51.2	61.3	66.8	64.3	58.7	48.3	41.2	23.5	20.6	12.7	<b>597.4</b>
<b>Malshiras</b>	18.4	20.2	26.8	34.5	42.5	49.5	58.0	61.8	58.8	53.9	43.6	35.8	22.4	17.8	11.7	<b>555.6</b>
<b>Sangola</b>	18.9	20.7	27.8	35.1	44.2	51.9	60.6	65.4	64.2	58.3	46.6	38.4	24.3	20.6	12.6	<b>589.6</b>
<b>Mangalwedha</b>	19.2	21.0	28.7	36.2	45.6	53.3	62.5	68.2	67.4	61.2	48.5	40.4	25.2	21.7	13.0	<b>612.0</b>

**Table No. C-78: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	17.9	19.5	27.4	35.6	40.2	46.2	57.7	63.4	59.0	54.4	47.3	42.1	20.6	19.1	12.1	<b>562.4</b>
<b>Solapur-S</b>	17.8	19.4	26.9	34.8	40.3	46.5	57.1	62.4	58.7	53.8	45.9	40.2	20.9	18.9	11.9	<b>555.6</b>
<b>Barshi</b>	17.5	19.1	26.0	33.6	40.6	47.1	56.1	60.4	57.3	52.6	43.1	36.5	20.9	17.6	11.4	<b>539.7</b>
<b>Akkalkot</b>	17.8	19.3	26.8	34.7	40.1	46.3	56.8	61.9	58.0	53.2	45.6	39.9	20.6	18.6	11.8	<b>551.2</b>
<b>Madha</b>	17.7	19.3	26.4	33.8	41.4	48.2	57.2	61.8	59.7	54.6	44.1	37.2	22.0	18.7	11.7	<b>553.7</b>
<b>Karmala</b>	17.0	18.6	25.2	32.9	40.3	46.8	54.5	58.4	55.1	50.7	41.0	33.7	20.4	15.6	10.8	<b>521.1</b>
<b>Pandharpur</b>	18.3	20.1	27.8	34.9	44.9	52.5	60.9	67.3	67.6	61.2	47.6	39.5	25.5	22.0	12.7	<b>602.9</b>
<b>Mohol</b>	17.9	19.5	26.8	34.4	41.5	48.2	57.7	62.9	60.5	55.3	45.4	38.8	22.1	19.3	11.9	<b>562.2</b>
<b>Malshiras</b>	17.3	19.0	25.2	32.5	40.0	46.6	54.6	58.2	55.4	50.7	41.0	33.7	21.1	16.7	11.0	<b>522.9</b>
<b>Sangola</b>	17.8	19.5	26.2	33.1	41.6	48.8	57.0	61.6	60.4	54.9	43.9	36.1	22.9	19.4	11.8	<b>555.0</b>
<b>Mangalwedha</b>	18.0	19.8	27.0	34.1	42.9	50.2	58.8	64.2	63.4	57.6	45.7	38.1	23.8	20.4	12.2	<b>576.0</b>

**Table No. C-79: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	16.9	18.4	25.9	33.6	38.0	43.6	54.5	59.8	55.7	51.4	44.7	39.7	19.5	18.0	11.4	<b>531.2</b>
<b>Solapur-S</b>	16.8	18.3	25.4	32.9	38.1	44.0	54.0	58.9	55.4	50.8	43.4	37.9	19.8	17.8	11.2	<b>524.7</b>
<b>Barshi</b>	16.5	18.0	24.6	31.7	38.3	44.5	53.0	57.0	54.2	49.7	40.7	34.5	19.8	16.6	10.7	<b>509.8</b>
<b>Akkalkot</b>	16.8	18.3	25.3	32.8	37.9	43.7	53.6	58.4	54.8	50.3	43.0	37.6	19.5	17.5	11.1	<b>520.6</b>
<b>Madha</b>	16.7	18.3	24.9	31.9	39.1	45.5	54.0	58.3	56.4	51.6	41.6	35.1	20.8	17.6	11.0	<b>522.9</b>
<b>Karmala</b>	16.1	17.6	23.8	31.1	38.1	44.2	51.5	55.1	52.0	47.9	38.7	31.8	19.2	14.7	10.2	<b>492.2</b>
<b>Pandharpur</b>	17.3	19.0	26.3	32.9	42.4	49.6	57.5	63.6	63.9	57.8	44.9	37.3	24.1	20.8	12.0	<b>569.4</b>
<b>Mohol</b>	16.9	18.4	25.3	32.5	39.2	45.5	54.5	59.4	57.2	52.2	42.9	36.6	20.9	18.3	11.3	<b>531.0</b>
<b>Malshiras</b>	16.3	17.9	23.8	30.7	37.7	44.0	51.5	55.0	52.3	47.9	38.7	31.8	19.9	15.8	10.4	<b>493.8</b>
<b>Sangola</b>	16.8	18.4	24.7	31.2	39.3	46.1	53.9	58.2	57.1	51.8	41.4	34.1	21.6	18.3	11.2	<b>524.1</b>
<b>Mangalwedha</b>	17.0	18.7	25.5	32.2	40.5	47.4	55.5	60.6	59.9	54.4	43.1	35.9	22.4	19.3	11.5	<b>544.0</b>

**Table No. C-80: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Solapur District**

Taluka	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	MW25	MW26	MW27	MW28	MW29	MW30	Seasonal WR
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	CW14	CW15	
<b>Solapur-N</b>	16.0	17.4	24.5	31.8	36.0	41.3	51.6	56.7	52.8	48.7	42.3	37.6	18.5	17.1	10.8	<b>503.2</b>
<b>Solapur-S</b>	15.9	17.4	24.1	31.1	36.1	41.6	51.1	55.8	52.5	48.2	41.1	35.9	18.7	16.9	10.6	<b>497.1</b>
<b>Barshi</b>	15.6	17.1	23.3	30.1	36.3	42.1	50.2	54.0	51.3	47.1	38.6	32.7	18.7	15.7	10.2	<b>482.9</b>
<b>Akkalkot</b>	15.9	17.3	24.0	31.0	35.9	41.4	50.8	55.4	51.9	47.6	40.8	35.7	18.5	16.6	10.6	<b>493.2</b>
<b>Madha</b>	15.8	17.3	23.6	30.2	37.1	43.1	51.1	55.3	53.4	48.9	39.4	33.3	19.7	16.7	10.4	<b>495.4</b>
<b>Karmala</b>	15.3	16.6	22.5	29.4	36.1	41.9	48.8	52.2	49.3	45.4	36.7	30.1	18.2	13.9	9.7	<b>466.3</b>
<b>Pandharpur</b>	16.4	18.0	24.9	31.2	40.1	47.0	54.5	60.2	60.5	54.8	42.6	35.3	22.8	19.7	11.4	<b>539.4</b>
<b>Mohol</b>	16.0	17.4	24.0	30.7	37.1	43.1	51.6	56.3	54.2	49.4	40.6	34.7	19.8	17.3	10.7	<b>503.0</b>
<b>Malshiras</b>	15.5	17.0	22.6	29.1	35.7	41.7	48.8	52.1	49.6	45.4	36.7	30.2	18.9	15.0	9.8	<b>467.8</b>
<b>Sangola</b>	15.9	17.4	23.4	29.6	37.2	43.7	51.0	55.1	54.1	49.1	39.2	32.3	20.5	17.3	10.6	<b>496.5</b>
<b>Mangalwedha</b>	16.1	17.7	24.1	30.5	38.4	44.9	52.6	57.4	56.7	51.5	40.9	34.1	21.3	18.3	10.9	<b>515.4</b>

**Appendix - D**

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods,  
Ignoring Effective Rainfall in Ten Districts of Western Maharashtra**

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Ahmednagar District**

**Table No. D-1: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Ahmednagar District Table**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	15.59	17.23	21.78	23.89	33.34	41.33	49.75	44.66	42.75	34.12	31.96	25.92	18.33	400.65
Shevgaon	15.58	17.22	21.77	23.88	33.33	41.33	49.76	44.65	42.73	34.12	31.95	25.89	18.30	400.53
Pathardi	15.62	17.16	21.97	24.36	33.73	40.89	48.87	45.03	42.27	33.51	31.58	25.72	18.42	399.13
Parner	16.52	18.16	22.09	23.78	33.78	41.05	49.79	45.67	44.76	35.79	33.16	28.78	20.92	414.24
Sangamner	16.75	18.36	22.27	23.98	34.25	41.05	49.68	46.20	45.44	36.21	33.44	29.46	22.06	419.14
Kopargaon	16.11	17.74	21.95	23.86	33.51	41.32	49.87	44.64	43.64	34.78	32.53	27.13	19.33	406.41
Akole	15.92	17.53	22.03	24.08	33.67	41.43	49.69	44.39	43.07	34.20	32.17	26.30	18.67	403.16
Shrirampur	17.12	18.67	22.49	24.21	34.75	41.21	49.75	46.17	46.23	36.59	33.74	30.07	23.24	424.22
Newasa	16.80	18.39	22.15	23.82	33.80	41.34	50.05	44.68	44.91	35.75	33.26	28.77	20.87	414.58
Rahata	16.26	17.89	22.13	23.96	33.68	41.66	50.13	43.94	43.73	34.70	32.62	26.95	19.11	406.77
Rahuri	16.97	18.52	22.36	24.11	34.40	41.28	49.82	45.47	45.56	36.11	33.45	29.36	22.16	419.59
Shrigonda	16.77	18.39	22.09	23.69	33.51	41.48	50.32	44.02	44.70	35.58	33.23	28.44	20.27	412.49
karjat	17.21	18.74	22.55	24.29	34.88	41.19	49.73	46.20	46.45	36.67	33.81	30.25	23.62	425.60
Jamkhed	16.98	18.58	22.11	23.65	33.57	41.41	50.31	44.15	45.11	35.92	33.46	29.04	20.84	415.13

**Table No. D-2: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	38.97	43.07	54.45	59.71	83.36	103.31	124.39	111.66	106.87	85.31	79.90	64.80	45.82	1001.62
Shevgaon	38.95	43.05	54.44	59.70	83.33	103.33	124.41	111.62	106.83	85.29	79.88	64.74	45.76	1001.32
Pathardi	39.05	42.90	54.93	60.89	84.32	102.23	122.17	112.57	105.69	83.77	78.96	64.29	46.06	997.82
Parner	41.29	45.40	55.23	59.46	84.44	102.62	124.48	114.16	111.89	89.47	82.90	71.96	52.31	1035.61
Sangamner	41.88	45.91	55.67	59.94	85.63	102.62	124.20	115.49	113.60	90.53	83.59	73.64	55.15	1047.85
Kopargaon	40.28	44.34	54.88	59.64	83.78	103.30	124.68	111.61	109.09	86.96	81.32	67.83	48.32	1016.04
Akole	39.80	43.82	55.08	60.21	84.17	103.56	124.23	110.99	107.67	85.49	80.43	65.76	46.68	1007.90
Shrirampur	42.79	46.67	56.23	60.52	86.87	103.02	124.36	115.43	115.56	91.46	84.34	75.17	58.11	1060.54
Newasa	42.00	45.97	55.37	59.55	84.49	103.35	125.14	111.69	112.27	89.38	83.15	71.91	52.18	1036.46
Rahata	40.66	44.73	55.31	59.90	84.21	104.16	125.32	109.85	109.33	86.74	81.56	67.38	47.77	1016.93
Rahuri	42.43	46.30	55.91	60.28	86.01	103.19	124.55	113.68	113.91	90.28	83.63	73.41	55.39	1048.97
Shrigonda	41.93	45.96	55.23	59.23	83.78	103.69	125.79	110.05	111.75	88.94	83.08	71.11	50.66	1031.21
karjat	43.03	46.86	56.38	60.71	87.20	102.97	124.33	115.51	116.14	91.68	84.52	75.62	59.06	1064.01
Jamkhed	42.45	46.44	55.26	59.14	83.92	103.52	125.79	110.37	112.77	89.81	83.64	72.59	52.11	1037.82

**Table No. D-3: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	31.18	34.45	43.56	47.77	66.69	82.65	99.51	89.33	85.49	68.25	63.92	51.84	36.66	801.30
Shevgaon	31.16	34.44	43.55	47.76	66.67	82.66	99.53	89.30	85.46	68.23	63.90	51.79	36.61	801.06
Pathardi	31.24	34.32	43.94	48.71	67.45	81.79	97.73	90.05	84.55	67.01	63.17	51.43	36.84	798.26
Parner	33.03	36.32	44.18	47.57	67.55	82.10	99.58	91.33	89.51	71.58	66.32	57.57	41.84	828.48
Sangamner	33.50	36.72	44.53	47.95	68.51	82.10	99.36	92.39	90.88	72.42	66.87	58.91	44.12	838.28
Kopargaon	32.22	35.47	43.91	47.71	67.03	82.64	99.74	89.29	87.27	69.56	65.06	54.27	38.65	812.83
Akole	31.84	35.06	44.06	48.17	67.34	82.85	99.39	88.79	86.14	68.40	64.34	52.61	37.35	806.32
Shrirampur	34.23	37.33	44.98	48.41	69.50	82.41	99.49	92.34	92.45	73.17	67.47	60.14	46.49	848.43
Newasa	33.60	36.78	44.30	47.64	67.60	82.68	100.11	89.36	89.81	71.51	66.52	57.53	41.74	829.17
Rahata	32.52	35.78	44.25	47.92	67.37	83.33	100.25	87.88	87.47	69.40	65.25	53.90	38.22	813.54
Rahuri	33.95	37.04	44.72	48.23	68.81	82.56	99.64	90.94	91.12	72.22	66.91	58.73	44.31	839.18
Shrigonda	33.54	36.77	44.19	47.38	67.03	82.95	100.63	88.04	89.40	71.15	66.47	56.89	40.53	824.97
karjat	34.42	37.49	45.11	48.57	69.76	82.38	99.47	92.41	92.91	73.35	67.62	60.50	47.25	851.21
Jamkhed	33.96	37.15	44.21	47.31	67.13	82.82	100.63	88.30	90.21	71.85	66.91	58.08	41.69	830.25



**Table No. D-4: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	25.98	28.71	36.30	39.81	55.57	68.88	82.92	74.44	71.24	56.87	53.27	43.20	30.55	667.75
Shevgaon	25.96	28.70	36.29	39.80	55.56	68.89	82.94	74.42	71.22	56.86	53.25	43.16	30.51	667.55
Pathardi	26.03	28.60	36.62	40.60	56.21	68.16	81.45	75.05	70.46	55.85	52.64	42.86	30.70	665.22
Parner	27.53	30.26	36.82	39.64	56.30	68.41	82.98	76.11	74.59	59.65	55.27	47.97	34.87	690.40
Sangamner	27.92	30.60	37.11	39.96	57.09	68.42	82.80	76.99	75.74	60.35	55.73	49.09	36.77	698.57
Kopargaon	26.85	29.56	36.59	39.76	55.86	68.86	83.12	74.41	72.73	57.97	54.21	45.22	32.21	677.36
Akole	26.53	29.21	36.72	40.14	56.12	69.04	82.82	73.99	71.78	57.00	53.62	43.84	31.12	671.93
Shrirampur	28.53	31.11	37.49	40.34	57.92	68.68	82.91	76.95	77.04	60.98	56.23	50.11	38.74	707.03
Newasa	28.00	30.65	36.91	39.70	56.33	68.90	83.42	74.46	74.84	59.59	55.43	47.94	34.79	690.97
Rahata	27.10	29.82	36.88	39.94	56.14	69.44	83.54	73.23	72.89	57.83	54.37	44.92	31.85	677.95
Rahuri	28.29	30.87	37.27	40.19	57.34	68.80	83.03	75.79	75.94	60.19	55.75	48.94	36.93	699.31
Shrigonda	27.95	30.64	36.82	39.49	55.86	69.13	83.86	73.37	74.50	59.29	55.39	47.41	33.78	687.48
karjat	28.69	31.24	37.59	40.48	58.13	68.65	82.89	77.01	77.42	61.12	56.35	50.41	39.37	709.34
Jamkhed	28.30	30.96	36.84	39.42	55.94	69.02	83.86	73.58	75.18	59.87	55.76	48.40	34.74	691.88

**Table No. D-5: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	19.49	21.53	27.23	29.86	41.68	51.66	62.19	55.83	53.43	42.66	39.95	32.40	22.91	500.81
Shevgaon	19.47	21.52	27.22	29.85	41.67	51.66	62.20	55.81	53.41	42.64	39.94	32.37	22.88	500.66
Pathardi	19.52	21.45	27.46	30.45	42.16	51.12	61.08	56.28	52.84	41.88	39.48	32.15	23.03	498.91
Parner	20.65	22.70	27.61	29.73	42.22	51.31	62.24	57.08	55.94	44.74	41.45	35.98	26.15	517.80
Sangamner	20.94	22.95	27.83	29.97	42.82	51.31	62.10	57.75	56.80	45.26	41.80	36.82	27.58	523.93
Kopargaon	20.14	22.17	27.44	29.82	41.89	51.65	62.34	55.80	54.55	43.48	40.66	33.92	24.16	508.02
Akole	19.90	21.91	27.54	30.10	42.09	51.78	62.12	55.49	53.84	42.75	40.21	32.88	23.34	503.95
Shrirampur	21.40	23.33	28.12	30.26	43.44	51.51	62.18	57.71	57.78	45.73	42.17	37.59	29.06	530.27
Newasa	21.00	22.99	27.68	29.78	42.25	51.68	62.57	55.85	56.13	44.69	41.58	35.96	26.09	518.23
Rahata	20.33	22.36	27.66	29.95	42.10	52.08	62.66	54.92	54.67	43.37	40.78	33.69	23.89	508.46
Rahuri	21.22	23.15	27.95	30.14	43.01	51.60	62.27	56.84	56.95	45.14	41.82	36.71	27.70	524.49
Shrigonda	20.96	22.98	27.62	29.62	41.89	51.84	62.90	55.02	55.87	44.47	41.54	35.55	25.33	515.61
karjat	21.52	23.43	28.19	30.36	43.60	51.49	62.17	57.76	58.07	45.84	42.26	37.81	29.53	532.01
Jamkhed	21.23	23.22	27.63	29.57	41.96	51.76	62.89	55.19	56.38	44.90	41.82	36.30	26.06	518.91

**Table No. D-6: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	18.34	20.27	25.62	28.10	39.23	48.62	58.54	52.54	50.29	40.15	37.60	30.49	21.56	471.35
Shevgaon	18.33	20.26	25.62	28.10	39.22	48.63	58.54	52.53	50.27	40.14	37.59	30.46	21.54	471.21
Pathardi	18.38	20.19	25.85	28.66	39.68	48.11	57.49	52.97	49.73	39.42	37.16	30.26	21.67	469.56
Parner	19.43	21.36	25.99	27.98	39.74	48.29	58.58	53.72	52.65	42.10	39.01	33.86	24.61	487.34
Sangamner	19.71	21.60	26.20	28.21	40.30	48.29	58.45	54.35	53.46	42.60	39.34	34.65	25.96	493.11
Kopargaon	18.96	20.87	25.83	28.06	39.43	48.61	58.67	52.52	51.34	40.92	38.27	31.92	22.74	478.13
Akole	18.73	20.62	25.92	28.33	39.61	48.74	58.46	52.23	50.67	40.23	37.85	30.94	21.97	474.31
Shrirampur	20.14	21.96	26.46	28.48	40.88	48.48	58.52	54.32	54.38	43.04	39.69	35.37	27.35	499.08
Newasa	19.76	21.63	26.06	28.02	39.76	48.64	58.89	52.56	52.83	42.06	39.13	33.84	24.55	487.75
Rahata	19.13	21.05	26.03	28.19	39.63	49.02	58.97	51.69	51.45	40.82	38.38	31.71	22.48	478.55
Rahuri	19.97	21.79	26.31	28.37	40.48	48.56	58.61	53.50	53.60	42.49	39.36	34.55	26.07	493.63
Shrigonda	19.73	21.63	25.99	27.87	39.43	48.80	59.20	51.79	52.59	41.85	39.10	33.46	23.84	485.28
karjat	20.25	22.05	26.53	28.57	41.03	48.46	58.51	54.36	54.65	43.14	39.77	35.59	27.79	500.71
Jamkhed	19.98	21.85	26.01	27.83	39.49	48.72	59.19	51.94	53.07	42.26	39.36	34.16	24.52	488.38

**Table No. D-7: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	17.32	19.14	24.20	26.54	37.05	45.92	55.28	49.63	47.50	37.92	35.51	28.80	20.37	445.16
Shevgaon	17.31	19.13	24.19	26.54	37.04	45.92	55.29	49.61	47.48	37.91	35.50	28.77	20.34	445.03
Pathardi	17.36	19.07	24.41	27.06	37.47	45.44	54.30	50.03	46.97	37.23	35.09	28.57	20.47	443.48
Parner	18.35	20.18	24.55	26.43	37.53	45.61	55.32	50.74	49.73	39.76	36.85	31.98	23.25	460.27
Sangamner	18.61	20.40	24.74	26.64	38.06	45.61	55.20	51.33	50.49	40.23	37.15	32.73	24.51	465.71
Kopargaon	17.90	19.71	24.39	26.51	37.24	45.91	55.41	49.60	48.49	38.65	36.14	30.15	21.47	451.57
Akole	17.69	19.48	24.48	26.76	37.41	46.03	55.21	49.33	47.85	38.00	35.75	29.23	20.75	447.96
Shrirampur	19.02	20.74	24.99	26.90	38.61	45.79	55.27	51.30	51.36	40.65	37.48	33.41	25.83	471.35
Newasa	18.67	20.43	24.61	26.47	37.55	45.93	55.62	49.64	49.90	39.73	36.96	31.96	23.19	460.65
Rahata	18.07	19.88	24.58	26.62	37.43	46.29	55.70	48.82	48.59	38.55	36.25	29.95	21.23	451.97
Rahuri	18.86	20.58	24.85	26.79	38.23	45.86	55.35	50.52	50.62	40.12	37.17	32.63	24.62	466.21
Shrigonda	18.63	20.43	24.55	26.32	37.24	46.08	55.91	48.91	49.67	39.53	36.93	31.60	22.52	458.32
karjat	19.12	20.83	25.06	26.98	38.75	45.76	55.26	51.34	51.62	40.75	37.57	33.61	26.25	472.89
Jamkhed	18.87	20.64	24.56	26.28	37.30	46.01	55.91	49.06	50.12	39.92	37.17	32.26	23.16	461.25

**Table No. D-8: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nagar	16.41	18.13	22.93	25.14	35.10	43.50	52.37	47.01	45.00	35.92	33.64	27.28	19.29	421.73
Shevgaon	16.40	18.13	22.92	25.14	35.09	43.51	52.38	47.00	44.98	35.91	33.63	27.26	19.27	421.61
Pathardi	16.44	18.06	23.13	25.64	35.50	43.05	51.44	47.40	44.50	35.27	33.25	27.07	19.39	420.14
Parner	17.39	19.11	23.25	25.04	35.56	43.21	52.41	48.07	47.11	37.67	34.91	30.30	22.02	436.04
Sangamner	17.63	19.33	23.44	25.24	36.06	43.21	52.29	48.63	47.83	38.12	35.20	31.01	23.22	441.20
Kopargaon	16.96	18.67	23.11	25.11	35.28	43.49	52.50	46.99	45.93	36.61	34.24	28.56	20.34	427.80
Akole	16.76	18.45	23.19	25.35	35.44	43.61	52.31	46.73	45.34	36.00	33.86	27.69	19.66	424.38
Shrirampur	18.02	19.65	23.68	25.48	36.58	43.38	52.36	48.60	48.66	38.51	35.51	31.65	24.47	446.54
Newasa	17.68	19.36	23.31	25.07	35.58	43.52	52.69	47.03	47.27	37.63	35.01	30.28	21.97	436.40
Rahata	17.12	18.83	23.29	25.22	35.46	43.86	52.77	46.25	46.03	36.52	34.34	28.37	20.11	428.18
Rahuri	17.87	19.50	23.54	25.38	36.22	43.45	52.44	47.86	47.96	38.01	35.21	30.91	23.32	441.67
Shrigonda	17.65	19.35	23.26	24.94	35.28	43.66	52.97	46.34	47.05	37.45	34.98	29.94	21.33	434.20
karjat	18.12	19.73	23.74	25.56	36.71	43.36	52.35	48.64	48.90	38.60	35.59	31.84	24.87	448.00
Jamkhed	17.88	19.55	23.27	24.90	35.33	43.59	52.96	46.47	47.48	37.81	35.22	30.57	21.94	436.98

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Dhule District**

**Table No. D-9: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	17.72	18.96	22.57	24.53	34.93	43.50	50.42	41.55	44.29	35.09	33.13	27.47	19.68	413.82
Sakri	17.90	19.05	23.06	24.79	35.47	44.03	50.39	40.20	43.50	34.43	32.28	26.87	19.27	411.25
Sindkheda	17.88	19.03	23.03	24.77	35.41	43.96	50.35	40.19	43.47	34.38	32.24	26.81	19.22	410.74
Shirpur	17.60	18.83	22.78	24.53	34.95	43.28	50.14	40.79	43.50	34.34	32.17	26.81	19.21	408.93

**Table No. D-10: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	44.29	47.39	56.42	61.31	87.32	108.74	126.06	103.88	110.72	87.72	82.83	68.67	49.19	1034.55
Sakri	44.74	47.63	57.64	61.99	88.68	110.07	125.99	100.49	108.76	86.09	80.71	67.17	48.17	1028.12
Sindkheda	44.69	47.58	57.58	61.92	88.54	109.89	125.87	100.48	108.66	85.96	80.59	67.03	48.06	1026.86
Shirpur	43.99	47.08	56.95	61.32	87.37	108.20	125.34	101.98	108.74	85.86	80.43	67.04	48.03	1022.34

**Table No. D-11: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	35.43	37.91	45.14	49.05	69.85	86.99	100.85	83.10	88.58	70.18	66.26	54.94	39.35	827.64
Sakri	35.79	38.10	46.12	49.59	70.95	88.05	100.79	80.39	87.01	68.87	64.57	53.74	38.54	822.50
Sindkheda	35.75	38.07	46.06	49.54	70.83	87.91	100.70	80.39	86.93	68.77	64.47	53.62	38.45	821.48
Shirpur	35.19	37.66	45.56	49.06	69.89	86.56	100.27	81.59	86.99	68.69	64.35	53.63	38.43	817.87

**Table No. D-12: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	29.53	31.60	37.61	40.88	58.21	72.50	84.04	69.25	73.81	58.48	55.22	45.78	32.80	689.70
Sakri	29.83	31.75	38.43	41.32	59.12	73.38	83.99	66.99	72.51	57.39	53.81	44.78	32.11	685.41
Sindkheda	29.79	31.72	38.39	41.28	59.02	73.26	83.91	66.99	72.44	57.31	53.73	44.69	32.04	684.57
Shirpur	29.33	31.39	37.96	40.88	58.25	72.14	83.56	67.99	72.49	57.24	53.62	44.69	32.02	681.56

**Table No. D-13: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	22.15	23.70	28.21	30.66	43.66	54.37	63.03	51.94	55.36	43.86	41.41	34.34	24.60	517.28
Sakri	22.37	23.81	28.82	30.99	44.34	55.03	62.99	50.25	54.38	43.04	40.36	33.59	24.08	514.06
Sindkheda	22.34	23.79	28.79	30.96	44.27	54.94	62.94	50.24	54.33	42.98	40.30	33.52	24.03	513.43
Shirpur	22.00	23.54	28.47	30.66	43.68	54.10	62.67	50.99	54.37	42.93	40.22	33.52	24.02	511.17

**Table No. D-14: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	20.84	22.30	26.55	28.85	41.09	51.17	59.32	48.88	52.10	41.28	38.98	32.32	23.15	486.85
Sakri	21.05	22.41	27.13	29.17	41.73	51.80	59.29	47.29	51.18	40.51	37.98	31.61	22.67	483.82
Sindkheda	21.03	22.39	27.10	29.14	41.66	51.71	59.23	47.29	51.14	40.45	37.93	31.54	22.62	483.23
Shirpur	20.70	22.15	26.80	28.86	41.11	50.92	58.98	47.99	51.17	40.41	37.85	31.55	22.60	481.10

**Table No. D-15: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	19.69	21.06	25.08	27.25	38.81	48.33	56.03	46.17	49.21	38.99	36.81	30.52	21.86	459.80
Sakri	19.88	21.17	25.62	27.55	39.41	48.92	55.99	44.66	48.34	38.26	35.87	29.85	21.41	456.94
Sindkheda	19.86	21.15	25.59	27.52	39.35	48.84	55.94	44.66	48.30	38.20	35.82	29.79	21.36	456.38
Shirpur	19.55	20.92	25.31	27.25	38.83	48.09	55.71	45.33	48.33	38.16	35.75	29.79	21.35	454.37

**Table No. D-16: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Dhule	18.65	19.95	23.76	25.82	36.77	45.79	53.08	43.74	46.62	36.93	34.88	28.91	20.71	435.60
Sakri	18.84	20.05	24.27	26.10	37.34	46.34	53.05	42.31	45.79	36.25	33.98	28.28	20.28	432.89
Sindkheda	18.82	20.03	24.24	26.07	37.28	46.27	53.00	42.31	45.75	36.19	33.93	28.22	20.24	432.36
Shirpur	18.52	19.82	23.98	25.82	36.79	45.56	52.77	42.94	45.79	36.15	33.87	28.23	20.22	430.46



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Jalgaon District**

**Table No. D-17: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	17.35	18.83	22.61	24.37	34.98	41.40	49.78	45.62	46.36	36.51	33.73	30.04	23.47	425.04
Jamner	17.11	18.57	22.11	23.97	34.05	42.17	50.29	42.55	44.49	35.20	33.02	27.84	19.73	411.09
Erandol	17.32	18.74	21.95	23.86	34.00	42.18	50.37	42.31	44.86	35.49	33.26	28.27	19.94	412.56
Dharangaon	17.31	18.76	21.77	23.69	33.79	41.98	50.41	42.27	45.05	35.62	33.36	28.48	19.95	412.44
Bhusaval	17.39	18.76	22.27	24.17	34.40	42.57	50.31	42.43	44.65	35.34	33.18	28.00	20.07	413.55
Raver	17.57	18.88	22.36	24.33	34.63	43.08	50.42	41.98	44.55	35.30	33.27	27.79	19.85	414.02
Muktainagar	17.38	18.79	22.54	24.33	34.77	42.15	50.02	43.78	45.23	35.73	33.26	28.74	21.53	418.26
Bodwad	17.62	18.90	22.41	24.37	34.71	43.20	50.44	41.83	44.48	35.24	33.24	27.71	19.78	413.93
Yawal	17.68	18.95	22.46	24.47	34.82	43.39	50.48	41.93	44.55	35.32	33.40	27.71	19.85	415.01
Amalner	17.52	18.84	22.50	24.40	34.75	42.88	50.25	42.38	44.56	35.26	33.13	27.87	20.23	414.55
Parola	17.51	18.83	22.40	24.27	34.59	42.91	50.34	41.65	44.29	35.04	32.90	27.63	19.67	412.03
Chopda	17.45	18.78	22.45	24.29	34.59	42.87	50.29	41.66	44.15	34.93	32.77	27.50	19.61	411.32
Pachora	17.71	18.96	22.51	24.51	34.89	43.48	50.47	41.75	44.44	35.23	33.31	27.60	19.77	414.62
Bhadgaon	17.75	18.96	22.84	24.62	35.17	43.64	50.35	40.74	43.75	34.62	32.49	27.09	19.40	411.43
Chalisgaon	17.76	18.98	22.70	24.59	35.07	43.64	50.42	41.16	44.07	34.91	32.90	27.30	19.55	413.05

**Table No. D-18: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	43.37	47.07	56.53	60.93	87.44	103.50	124.46	114.05	115.91	91.28	84.32	75.10	58.67	1062.61
Jamner	42.78	46.42	55.27	59.93	85.12	105.44	125.72	106.37	111.23	88.00	82.54	69.60	49.33	1027.73
Erandol	43.30	46.86	54.88	59.65	85.00	105.46	125.92	105.78	112.16	88.72	83.15	70.67	49.86	1031.39
Dharangaon	43.27	46.89	54.43	59.23	84.49	104.96	126.01	105.67	112.63	89.06	83.40	71.20	49.86	1031.10
Bhusaval	43.48	46.91	55.67	60.42	86.01	106.42	125.77	106.08	111.62	88.36	82.95	70.01	50.17	1033.87
Raver	43.93	47.20	55.91	60.81	86.59	107.69	126.06	104.96	111.38	88.24	83.18	69.48	49.62	1035.05
Muktainagar	43.45	46.97	56.36	60.82	86.94	105.37	125.06	109.44	113.07	89.32	83.15	71.85	53.83	1045.64
Bodwad	44.04	47.26	56.03	60.93	86.78	108.00	126.10	104.57	111.20	88.11	83.10	69.27	49.45	1034.84
Yawal	44.20	47.37	56.14	61.17	87.06	108.49	126.20	104.82	111.38	88.31	83.50	69.28	49.62	1037.53
Amalner	43.80	47.09	56.24	60.99	86.87	107.20	125.64	105.94	111.40	88.15	82.81	69.68	50.57	1036.38
Parola	43.77	47.07	56.01	60.67	86.47	107.29	125.85	104.14	110.72	87.61	82.24	69.07	49.18	1030.08
Chopda	43.64	46.95	56.11	60.71	86.47	107.18	125.72	104.15	110.39	87.32	81.91	68.74	49.01	1028.30
Pachora	44.28	47.40	56.28	61.27	87.22	108.70	126.16	104.38	111.10	88.07	83.26	68.99	49.42	1036.54
Bhadgaon	44.38	47.41	57.10	61.56	87.92	109.10	125.89	101.85	109.38	86.56	81.22	67.73	48.50	1028.57
Chalisgaon	44.41	47.46	56.74	61.48	87.67	109.11	126.05	102.91	110.17	87.26	82.24	68.24	48.87	1032.62

**Table No. D-19: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	34.69	37.66	45.22	48.74	69.95	82.80	99.57	91.24	92.72	73.02	67.46	60.08	46.93	850.09
Jamner	34.23	37.14	44.21	47.94	68.10	84.35	100.58	85.09	88.99	70.40	66.03	55.68	39.46	822.19
Erandol	34.64	37.49	43.90	47.72	68.00	84.37	100.73	84.62	89.73	70.98	66.52	56.53	39.89	825.11
Dharangaon	34.62	37.51	43.54	47.39	67.59	83.97	100.81	84.54	90.10	71.25	66.72	56.96	39.89	824.88
Bhusaval	34.78	37.53	44.54	48.34	68.81	85.14	100.61	84.86	89.30	70.69	66.36	56.01	40.14	827.09
Raver	35.15	37.76	44.73	48.65	69.27	86.15	100.85	83.97	89.10	70.59	66.55	55.59	39.69	828.04
Muktainagar	34.76	37.57	45.09	48.66	69.55	84.30	100.05	87.56	90.46	71.46	66.52	57.48	43.06	836.51
Bodwad	35.23	37.81	44.83	48.75	69.42	86.40	100.88	83.66	88.96	70.48	66.48	55.42	39.56	827.87
Yawal	35.36	37.89	44.91	48.93	69.65	86.79	100.96	83.86	89.10	70.65	66.80	55.43	39.70	830.02
Amalner	35.04	37.67	44.99	48.79	69.50	85.76	100.51	84.75	89.12	70.52	66.25	55.74	40.45	829.11
Parola	35.02	37.65	44.81	48.54	69.17	85.83	100.68	83.31	88.58	70.09	65.79	55.25	39.34	824.07
Chopda	34.91	37.56	44.89	48.57	69.18	85.74	100.57	83.32	88.31	69.85	65.53	55.00	39.21	822.64
Pachora	35.42	37.92	45.02	49.02	69.78	86.96	100.93	83.50	88.88	70.45	66.61	55.19	39.54	829.23
Bhadgaon	35.50	37.92	45.68	49.25	70.33	87.28	100.71	81.48	87.50	69.25	64.97	54.18	38.80	822.85
Chalisingaon	35.53	37.96	45.39	49.19	70.14	87.28	100.84	82.33	88.14	69.81	65.80	54.60	39.09	826.09

**Table No. D-20: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	28.91	31.38	37.68	40.62	58.29	69.00	82.97	76.03	77.27	60.85	56.22	50.06	39.11	708.41
Jamner	28.52	30.95	36.84	39.95	56.75	70.29	83.81	70.91	74.15	58.66	55.03	46.40	32.89	685.16
Erandol	28.87	31.24	36.59	39.77	56.66	70.31	83.94	70.52	74.77	59.15	55.43	47.11	33.24	687.60
Dharangaon	28.85	31.26	36.28	39.49	56.32	69.97	84.01	70.45	75.09	59.37	55.60	47.47	33.24	687.40
Bhusaval	28.98	31.27	37.12	40.28	57.34	70.95	83.84	70.72	74.41	58.90	55.30	46.67	33.45	689.24
Raver	29.29	31.47	37.27	40.54	57.72	71.79	84.04	69.97	74.25	58.83	55.45	46.32	33.08	690.03
Muktainagar	28.97	31.31	37.57	40.55	57.96	70.25	83.37	72.96	75.38	59.55	55.44	47.90	35.89	697.09
Bodwad	29.36	31.51	37.36	40.62	57.85	72.00	84.06	69.71	74.13	58.74	55.40	46.18	32.97	689.89
Yawal	29.47	31.58	37.43	40.78	58.04	72.32	84.13	69.88	74.25	58.87	55.67	46.19	33.08	691.69
Amalner	29.20	31.39	37.49	40.66	57.91	71.47	83.76	70.63	74.27	58.77	55.21	46.45	33.71	690.92
Parola	29.18	31.38	37.34	40.45	57.64	71.52	83.90	69.42	73.82	58.41	54.83	46.05	32.79	686.72
Chopda	29.09	31.30	37.41	40.48	57.65	71.45	83.81	69.43	73.59	58.21	54.61	45.83	32.68	685.54
Pachora	29.52	31.60	37.52	40.85	58.15	72.47	84.11	69.59	74.06	58.71	55.51	46.00	32.95	691.03
Bhadgaon	29.59	31.60	38.06	41.04	58.61	72.73	83.92	67.90	72.92	57.70	54.14	45.15	32.33	685.71
Chalisingaon	29.61	31.64	37.83	40.99	58.45	72.74	84.03	68.61	73.45	58.18	54.83	45.50	32.58	688.41

**Table No. D-21: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	21.68	23.54	28.26	30.46	43.72	51.75	62.23	57.03	57.95	45.64	42.16	37.55	29.33	531.31
Jamner	21.39	23.21	27.63	29.96	42.56	52.72	62.86	53.18	55.62	44.00	41.27	34.80	24.66	513.87
Erandol	21.65	23.43	27.44	29.82	42.50	52.73	62.96	52.89	56.08	44.36	41.58	35.33	24.93	515.70
Dharangaon	21.64	23.45	27.21	29.62	42.24	52.48	63.01	52.84	56.32	44.53	41.70	35.60	24.93	515.55
Bhusaval	21.74	23.46	27.84	30.21	43.01	53.21	62.88	53.04	55.81	44.18	41.47	35.01	25.09	516.93
Raver	21.97	23.60	27.96	30.41	43.29	53.84	63.03	52.48	55.69	44.12	41.59	34.74	24.81	517.52
Muktainagar	21.72	23.48	28.18	30.41	43.47	52.69	62.53	54.72	56.54	44.66	41.58	35.93	26.91	522.82
Bodwad	22.02	23.63	28.02	30.47	43.39	54.00	63.05	52.29	55.60	44.05	41.55	34.64	24.72	517.42
Yawal	22.10	23.68	28.07	30.58	43.53	54.24	63.10	52.41	55.69	44.15	41.75	34.64	24.81	518.77
Amalner	21.90	23.55	28.12	30.50	43.44	53.60	62.82	52.97	55.70	44.08	41.41	34.84	25.28	518.19
Parola	21.89	23.53	28.01	30.33	43.23	53.64	62.92	52.07	55.36	43.81	41.12	34.53	24.59	515.04
Chopda	21.82	23.47	28.06	30.36	43.24	53.59	62.86	52.07	55.19	43.66	40.96	34.37	24.51	514.15
Pachora	22.14	23.70	28.14	30.63	43.61	54.35	63.08	52.19	55.55	44.03	41.63	34.50	24.71	518.27
Bhadgaon	22.19	23.70	28.55	30.78	43.96	54.55	62.94	50.92	54.69	43.28	40.61	33.86	24.25	514.28
Chalisgaon	22.21	23.73	28.37	30.74	43.83	54.55	63.02	51.45	55.09	43.63	41.12	34.12	24.43	516.31

**Table No. D-22: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	20.41	22.15	26.60	28.67	41.15	48.71	58.57	53.67	54.54	42.95	39.68	35.34	27.61	500.05
Jamner	20.13	21.84	26.01	28.20	40.06	49.62	59.16	50.06	52.34	41.41	38.84	32.75	23.21	483.64
Erandol	20.38	22.05	25.83	28.07	40.00	49.63	59.25	49.78	52.78	41.75	39.13	33.26	23.46	485.36
Dharangaon	20.36	22.07	25.61	27.87	39.76	49.39	59.30	49.73	53.00	41.91	39.24	33.51	23.47	485.23
Bhusaval	20.46	22.08	26.20	28.43	40.48	50.08	59.18	49.92	52.53	41.58	39.03	32.95	23.61	486.53
Raver	20.67	22.21	26.31	28.62	40.75	50.68	59.32	49.39	52.41	41.52	39.14	32.70	23.35	487.08
Muktainagar	20.45	22.10	26.52	28.62	40.91	49.59	58.85	51.50	53.21	42.03	39.13	33.81	25.33	492.07
Bodwad	20.73	22.24	26.37	28.68	40.84	50.83	59.34	49.21	52.33	41.46	39.10	32.60	23.27	486.98
Yawal	20.80	22.29	26.42	28.78	40.97	51.05	59.39	49.33	52.41	41.56	39.30	32.60	23.35	488.25
Amalner	20.61	22.16	26.47	28.70	40.88	50.45	59.12	49.85	52.42	41.48	38.97	32.79	23.80	487.71
Parola	20.60	22.15	26.36	28.55	40.69	50.49	59.22	49.01	52.11	41.23	38.70	32.50	23.14	484.75
Chopda	20.53	22.09	26.41	28.57	40.69	50.44	59.16	49.01	51.95	41.09	38.55	32.35	23.06	483.91
Pachora	20.84	22.31	26.48	28.83	41.05	51.16	59.37	49.12	52.28	41.44	39.18	32.47	23.26	487.78
Bhadgaon	20.88	22.31	26.87	28.97	41.37	51.34	59.24	47.93	51.47	40.73	38.22	31.87	22.82	484.03
Chalisingaon	20.90	22.33	26.70	28.93	41.26	51.34	59.32	48.43	51.85	41.06	38.70	32.12	23.00	485.94

**Table No. D-23: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	19.27	20.92	25.12	27.08	38.86	46.00	55.32	50.69	51.51	40.57	37.48	33.38	26.07	472.27
Jamner	19.01	20.63	24.56	26.63	37.83	46.86	55.88	47.27	49.44	39.11	36.68	30.93	21.92	456.77
Erandol	19.24	20.83	24.39	26.51	37.78	46.87	55.96	47.01	49.85	39.43	36.96	31.41	22.16	458.40
Dharangaon	19.23	20.84	24.19	26.33	37.55	46.65	56.01	46.97	50.06	39.58	37.06	31.64	22.16	458.27
Bhusaval	19.32	20.85	24.74	26.85	38.23	47.30	55.90	47.15	49.61	39.27	36.87	31.12	22.30	459.50
Raver	19.53	20.98	24.85	27.03	38.48	47.86	56.03	46.65	49.50	39.22	36.97	30.88	22.05	460.02
Muktainagar	19.31	20.87	25.05	27.03	38.64	46.83	55.58	48.64	50.25	39.70	36.96	31.93	23.92	464.73
Bodwad	19.57	21.01	24.90	27.08	38.57	48.00	56.04	46.48	49.42	39.16	36.93	30.79	21.98	459.93
Yawal	19.64	21.05	24.95	27.18	38.69	48.22	56.09	46.59	49.50	39.25	37.11	30.79	22.05	461.12
Amalner	19.47	20.93	24.99	27.11	38.61	47.65	55.84	47.08	49.51	39.18	36.81	30.97	22.47	460.62
Parola	19.45	20.92	24.89	26.96	38.43	47.68	55.93	46.28	49.21	38.94	36.55	30.70	21.86	457.82
Chopda	19.39	20.87	24.94	26.98	38.43	47.64	55.87	46.29	49.06	38.81	36.41	30.55	21.78	457.02
Pachora	19.68	21.07	25.01	27.23	38.77	48.31	56.07	46.39	49.38	39.14	37.01	30.66	21.96	460.68
Bhadgaon	19.72	21.07	25.38	27.36	39.07	48.49	55.95	45.26	48.61	38.47	36.10	30.10	21.55	457.14
Chalisgaon	19.74	21.09	25.22	27.33	38.96	48.49	56.02	45.74	48.97	38.78	36.55	30.33	21.72	458.94

**Table No. D-24: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	18.26	19.82	23.80	25.65	36.82	43.58	52.41	48.02	48.80	38.43	35.50	31.62	24.70	447.42
Jamner	18.01	19.55	23.27	25.23	35.84	44.39	52.94	44.79	46.83	37.05	34.75	29.30	20.77	432.73
Erandol	18.23	19.73	23.11	25.12	35.79	44.40	53.02	44.54	47.23	37.36	35.01	29.76	20.99	434.27
Dharangaon	18.22	19.74	22.92	24.94	35.57	44.19	53.06	44.49	47.42	37.50	35.11	29.98	21.00	434.15
Bhusaval	18.31	19.75	23.44	25.44	36.21	44.81	52.95	44.67	47.00	37.20	34.93	29.48	21.13	435.31
Raver	18.50	19.87	23.54	25.61	36.46	45.34	53.08	44.19	46.90	37.15	35.02	29.26	20.89	435.81
Muktainagar	18.29	19.78	23.73	25.61	36.61	44.37	52.66	46.08	47.61	37.61	35.01	30.25	22.66	440.27
Bodwad	18.54	19.90	23.59	25.66	36.54	45.48	53.09	44.03	46.82	37.10	34.99	29.17	20.82	435.72
Yawal	18.61	19.94	23.64	25.75	36.66	45.68	53.14	44.14	46.90	37.18	35.16	29.17	20.89	436.86
Amalner	18.44	19.83	23.68	25.68	36.58	45.14	52.90	44.61	46.91	37.12	34.87	29.34	21.29	436.37
Parola	18.43	19.82	23.58	25.55	36.41	45.17	52.99	43.85	46.62	36.89	34.63	29.08	20.71	433.72
Chopda	18.37	19.77	23.63	25.56	36.41	45.13	52.93	43.85	46.48	36.77	34.49	28.94	20.64	432.97
Pachora	18.64	19.96	23.70	25.80	36.73	45.77	53.12	43.95	46.78	37.08	35.06	29.05	20.81	436.44
Bhadgaon	18.69	19.96	24.04	25.92	37.02	45.94	53.00	42.88	46.05	36.44	34.20	28.52	20.42	433.08
Chalisgaon	18.70	19.98	23.89	25.89	36.91	45.94	53.07	43.33	46.39	36.74	34.63	28.73	20.58	434.79



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Kolhapur District**

**Table No. D-25: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	15.91	17.69	22.24	24.06	34.62	41.32	49.48	50.31	45.22	36.63	33.23	29.66	22.32	422.71
Kagal	15.91	17.70	22.24	24.06	34.62	41.32	49.47	50.28	45.21	36.62	33.23	29.66	22.30	422.62
Shahuwadi	15.88	17.68	22.26	24.09	34.68	41.36	49.51	50.70	45.34	36.75	33.27	29.81	22.51	423.83
Panhala	15.91	17.70	22.23	24.04	34.62	41.32	49.46	50.27	45.20	36.62	33.24	29.65	22.28	422.55
Karvir	15.72	17.57	22.35	24.30	34.94	41.53	49.74	52.45	45.83	37.21	33.34	30.34	23.36	428.68
Gaganbawada	15.68	17.54	22.36	24.35	35.00	41.57	49.79	52.83	45.92	37.29	33.35	30.44	23.53	429.65
Hatkangale	15.83	17.65	22.31	24.21	34.84	41.41	49.63	51.70	45.71	37.08	33.35	30.23	23.14	427.11
Shirol	16.04	17.81	22.25	24.03	34.59	41.20	49.45	49.96	45.38	36.71	33.32	29.85	22.52	423.13
Bhudargad	15.96	17.75	22.27	24.08	34.68	41.27	49.51	50.60	45.50	36.86	33.34	30.00	22.74	424.57
Gadhinglaj	15.95	17.73	22.21	23.97	34.58	41.29	49.37	49.90	45.07	36.54	33.24	29.55	22.08	421.46
Chandgad	15.66	17.53	22.38	24.38	35.03	41.59	49.82	53.08	45.99	37.36	33.36	30.52	23.66	430.36
Ajara	15.99	17.78	22.26	24.06	34.65	41.24	49.49	50.37	45.47	36.82	33.34	29.96	22.67	424.09

**Table No. D-26: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	39.76	44.24	55.60	60.16	86.56	103.31	123.71	125.77	113.05	91.58	83.08	74.16	55.80	1056.77
Kagal	39.77	44.24	55.60	60.14	86.55	103.31	123.68	125.71	113.02	91.56	83.08	74.14	55.75	1056.55
Shahuwadi	39.69	44.19	55.64	60.23	86.71	103.40	123.78	126.75	113.34	91.88	83.17	74.52	56.28	1059.58
Panhala	39.78	44.25	55.59	60.11	86.55	103.30	123.64	125.66	112.99	91.56	83.09	74.13	55.71	1056.37
Karvir	39.30	43.93	55.87	60.76	87.35	103.82	124.36	131.13	114.57	93.02	83.35	75.85	58.41	1071.70
Gaganbawada	39.20	43.86	55.91	60.87	87.49	103.92	124.47	132.07	114.79	93.23	83.37	76.10	58.82	1074.12
Hatkangale	39.57	44.14	55.78	60.52	87.10	103.53	124.08	129.25	114.28	92.70	83.38	75.58	57.85	1067.77
Shirol	40.10	44.52	55.62	60.08	86.48	103.00	123.63	124.91	113.45	91.78	83.31	74.63	56.31	1057.82
Bhudargad	39.90	44.39	55.67	60.21	86.70	103.19	123.77	126.49	113.75	92.14	83.35	75.00	56.85	1061.42
Gadhinglaj	39.87	44.31	55.52	59.93	86.44	103.23	123.42	124.75	112.69	91.34	83.10	73.87	55.19	1053.66
Chandgad	39.15	43.82	55.95	60.95	87.58	103.98	124.56	132.71	114.98	93.40	83.40	76.30	59.14	1075.91
Ajara	39.98	44.45	55.65	60.14	86.62	103.11	123.71	125.92	113.66	92.04	83.36	74.91	56.67	1060.23

**Table No. D-27: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	31.81	35.39	44.48	48.13	69.24	82.65	98.96	100.61	90.44	73.26	66.46	59.33	44.64	845.41
Kagal	31.81	35.39	44.48	48.11	69.24	82.64	98.95	100.57	90.42	73.25	66.46	59.31	44.60	845.24
Shahuwadi	31.75	35.36	44.51	48.18	69.37	82.72	99.02	101.40	90.67	73.51	66.53	59.62	45.02	847.66
Panhala	31.82	35.40	44.47	48.09	69.24	82.64	98.91	100.53	90.40	73.25	66.48	59.31	44.57	845.10
Karvir	31.44	35.14	44.69	48.61	69.88	83.06	99.49	104.90	91.65	74.41	66.68	60.68	46.73	857.36
Gaganbawada	31.36	35.09	44.73	48.70	69.99	83.14	99.58	105.65	91.84	74.58	66.70	60.88	47.06	859.29
Hatkangale	31.65	35.31	44.63	48.42	69.68	82.82	99.27	103.40	91.42	74.16	66.70	60.47	46.28	854.21
Shirol	32.08	35.62	44.49	48.06	69.19	82.40	98.91	99.93	90.76	73.42	66.65	59.70	45.05	846.25
Bhudargad	31.92	35.51	44.53	48.17	69.36	82.55	99.02	101.20	91.00	73.71	66.68	60.00	45.48	849.13
Gadhinglaj	31.89	35.45	44.42	47.94	69.15	82.58	98.74	99.80	90.15	73.08	66.48	59.10	44.15	842.92
Chandgad	31.32	35.06	44.76	48.76	70.07	83.18	99.65	106.16	91.98	74.72	66.72	61.04	47.31	860.73
Ajara	31.98	35.56	44.52	48.11	69.29	82.49	98.97	100.74	90.93	73.64	66.69	59.93	45.34	848.18

**Table No. D-28: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	26.51	29.49	37.07	40.11	57.70	68.87	82.47	83.84	75.37	61.05	55.39	49.44	37.20	704.51
Kagal	26.51	29.49	37.06	40.09	57.70	68.87	82.45	83.81	75.35	61.04	55.39	49.43	37.17	704.36
Shahuwadi	26.46	29.46	37.10	40.15	57.81	68.93	82.52	84.50	75.56	61.26	55.44	49.68	37.52	706.39
Panhala	26.52	29.50	37.06	40.07	57.70	68.87	82.43	83.78	75.33	61.04	55.40	49.42	37.14	704.25
Karvir	26.20	29.29	37.24	40.51	58.23	69.21	82.91	87.42	76.38	62.01	55.56	50.57	38.94	714.46
Gaganbawada	26.14	29.24	37.27	40.58	58.33	69.28	82.98	88.04	76.53	62.15	55.58	50.73	39.22	716.08
Hatkangale	26.38	29.42	37.19	40.35	58.06	69.02	82.72	86.17	76.18	61.80	55.59	50.39	38.57	711.84
Shirol	26.73	29.68	37.08	40.05	57.66	68.67	82.42	83.27	75.64	61.19	55.54	49.75	37.54	705.21
Bhudargad	26.60	29.59	37.11	40.14	57.80	68.79	82.52	84.33	75.83	61.43	55.57	50.00	37.90	707.61
Gadhinglaj	26.58	29.54	37.02	39.95	57.63	68.82	82.28	83.16	75.12	60.90	55.40	49.25	36.79	702.44
Chandgad	26.10	29.21	37.30	40.64	58.39	69.32	83.04	88.47	76.65	62.27	55.60	50.87	39.43	717.27
Ajara	26.65	29.63	37.10	40.10	57.75	68.74	82.48	83.95	75.78	61.36	55.57	49.94	37.78	706.82

**Table No. D-29: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	19.88	22.12	27.80	30.08	43.28	51.65	61.85	62.88	56.53	45.79	41.54	37.08	27.90	528.38
Kagal	19.88	22.12	27.80	30.07	43.28	51.65	61.84	62.85	56.51	45.78	41.54	37.07	27.88	528.27
Shahuwadi	19.85	22.10	27.82	30.11	43.36	51.70	61.89	63.37	56.67	45.94	41.58	37.26	28.14	529.79
Panhala	19.89	22.12	27.79	30.05	43.28	51.65	61.82	62.83	56.50	45.78	41.55	37.07	27.85	528.18
Karvir	19.65	21.96	27.93	30.38	43.67	51.91	62.18	65.56	57.28	46.51	41.67	37.93	29.20	535.85
Gaganbawada	19.60	21.93	27.96	30.44	43.75	51.96	62.23	66.03	57.40	46.62	41.69	38.05	29.41	537.06
Hatkangale	19.78	22.07	27.89	30.26	43.55	51.76	62.04	64.63	57.14	46.35	41.69	37.79	28.93	533.88
Shirol	20.05	22.26	27.81	30.04	43.24	51.50	61.82	62.45	56.73	45.89	41.65	37.32	28.15	528.91
Bhudargad	19.95	22.19	27.83	30.11	43.35	51.59	61.89	63.25	56.87	46.07	41.68	37.50	28.43	530.71
Gadhinglaj	19.93	22.16	27.76	29.96	43.22	51.61	61.71	62.37	56.34	45.67	41.55	36.94	27.59	526.83
Chandgad	19.57	21.91	27.97	30.48	43.79	51.99	62.28	66.35	57.49	46.70	41.70	38.15	29.57	537.95
Ajara	19.99	22.22	27.82	30.07	43.31	51.55	61.86	62.96	56.83	46.02	41.68	37.46	28.34	530.12

**Table No. D-30: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	18.71	20.82	26.17	28.31	40.73	48.62	58.21	59.18	53.20	43.10	39.10	34.90	26.26	497.30
Kagal	18.71	20.82	26.16	28.30	40.73	48.61	58.20	59.16	53.19	43.09	39.10	34.89	26.24	497.20
Shahuwadi	18.68	20.80	26.18	28.34	40.81	48.66	58.25	59.65	53.34	43.24	39.14	35.07	26.48	498.63
Panhala	18.72	20.82	26.16	28.29	40.73	48.61	58.18	59.14	53.17	43.09	39.10	34.89	26.21	497.11
Karvir	18.49	20.67	26.29	28.59	41.11	48.86	58.52	61.71	53.91	43.77	39.22	35.70	27.49	504.33
Gaganbawada	18.45	20.64	26.31	28.65	41.17	48.90	58.57	62.15	54.02	43.87	39.23	35.81	27.68	505.47
Hatkangale	18.62	20.77	26.25	28.48	40.99	48.72	58.39	60.82	53.78	43.63	39.24	35.57	27.23	502.48
Shirol	18.87	20.95	26.17	28.27	40.70	48.47	58.18	58.78	53.39	43.19	39.20	35.12	26.50	497.80
Bhudargad	18.78	20.89	26.20	28.34	40.80	48.56	58.25	59.53	53.53	43.36	39.22	35.29	26.75	499.49
Gadhinglaj	18.76	20.85	26.13	28.20	40.68	48.58	58.08	58.70	53.03	42.99	39.10	34.76	25.97	495.84
Chandgad	18.42	20.62	26.33	28.68	41.22	48.93	58.62	62.45	54.11	43.95	39.25	35.91	27.83	506.31
Ajara	18.81	20.92	26.19	28.30	40.76	48.52	58.22	59.26	53.49	43.32	39.23	35.25	26.67	498.93

**Table No. D-31: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	17.67	19.66	24.71	26.74	38.47	45.92	54.98	55.90	50.25	40.70	36.92	32.96	24.80	469.67
Kagal	17.67	19.66	24.71	26.73	38.47	45.91	54.97	55.87	50.23	40.69	36.92	32.95	24.78	469.58
Shahuwadi	17.64	19.64	24.73	26.77	38.54	45.96	55.01	56.33	50.37	40.84	36.96	33.12	25.01	470.92
Panhala	17.68	19.66	24.71	26.71	38.47	45.91	54.95	55.85	50.22	40.69	36.93	32.95	24.76	469.50
Karvir	17.47	19.52	24.83	27.00	38.82	46.14	55.27	58.28	50.92	41.34	37.04	33.71	25.96	476.31
Gaganbawada	17.42	19.49	24.85	27.06	38.89	46.19	55.32	58.70	51.02	41.44	37.05	33.82	26.14	477.38
Hatkangale	17.59	19.62	24.79	26.90	38.71	46.01	55.15	57.45	50.79	41.20	37.06	33.59	25.71	474.56
Shirol	17.82	19.79	24.72	26.70	38.44	45.78	54.95	55.51	50.42	40.79	37.03	33.17	25.03	470.14
Bhudargad	17.73	19.73	24.74	26.76	38.53	45.86	55.01	56.22	50.55	40.95	37.05	33.33	25.27	471.74
Gadhinglaj	17.72	19.69	24.68	26.63	38.42	45.88	54.85	55.44	50.08	40.60	36.93	32.83	24.53	468.29
Chandgad	17.40	19.48	24.86	27.09	38.93	46.21	55.36	58.98	51.10	41.51	37.07	33.91	26.29	478.18
Ajara	17.77	19.75	24.73	26.73	38.50	45.83	54.98	55.96	50.52	40.91	37.05	33.29	25.19	471.21

**Table No. D-32: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Radhanagari	16.74	18.63	23.41	25.33	36.44	43.50	52.09	52.95	47.60	38.56	34.98	31.23	23.49	444.95
Kagal	16.74	18.63	23.41	25.32	36.44	43.50	52.08	52.93	47.59	38.55	34.98	31.22	23.47	444.86
Shahuwadi	16.71	18.61	23.43	25.36	36.51	43.54	52.12	53.37	47.72	38.69	35.02	31.38	23.70	446.14
Panhala	16.75	18.63	23.41	25.31	36.44	43.50	52.06	52.91	47.58	38.55	34.99	31.21	23.46	444.79
Karvir	16.55	18.50	23.52	25.58	36.78	43.71	52.36	55.21	48.24	39.16	35.09	31.94	24.59	451.24
Gaganbawada	16.51	18.47	23.54	25.63	36.84	43.76	52.41	55.61	48.33	39.26	35.10	32.04	24.77	452.26
Hatkangale	16.66	18.58	23.49	25.48	36.67	43.59	52.25	54.42	48.12	39.03	35.11	31.82	24.36	449.59
Shirol	16.88	18.75	23.42	25.30	36.41	43.37	52.06	52.59	47.77	38.64	35.08	31.42	23.71	445.40
Bhudargad	16.80	18.69	23.44	25.35	36.51	43.45	52.11	53.26	47.89	38.80	35.10	31.58	23.94	446.91
Gadhinglaj	16.79	18.66	23.38	25.23	36.40	43.46	51.97	52.53	47.45	38.46	34.99	31.10	23.24	443.64
Chandgad	16.48	18.45	23.56	25.66	36.88	43.78	52.45	55.88	48.41	39.33	35.11	32.13	24.90	453.01
Ajara	16.83	18.71	23.43	25.32	36.47	43.41	52.09	53.02	47.86	38.76	35.10	31.54	23.86	446.41



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Nandurbar District**

**Table No. D-33: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	17.72	18.89	22.93	24.61	35.09	43.49	50.04	40.08	43.10	33.97	31.78	26.39	18.90	406.99
Navapur	17.87	18.88	23.30	24.69	35.13	43.59	49.34	37.48	41.24	32.13	29.84	24.40	17.35	395.24
Taloda	17.75	18.86	23.06	24.62	35.06	43.46	49.72	39.08	42.33	33.20	30.96	25.56	18.27	401.93
Akkalkuva	17.81	18.87	23.18	24.65	35.09	43.51	49.51	38.24	41.75	32.63	30.36	24.94	17.78	398.33
Akrani	17.73	18.84	23.06	24.61	35.02	43.38	49.64	39.02	42.23	33.09	30.84	25.46	18.20	401.12
Shahada	17.78	18.87	23.11	24.64	35.08	43.48	49.65	38.78	42.13	33.00	30.76	25.35	18.10	400.72

**Table No. D-34: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	44.29	47.23	57.32	61.53	87.73	108.73	125.10	100.19	107.75	84.92	79.45	65.98	47.25	1017.47
Navapur	44.68	47.20	58.24	61.72	87.83	108.97	123.35	93.70	103.10	80.33	74.59	60.99	43.38	988.09
Taloda	44.38	47.16	57.65	61.56	87.66	108.64	124.29	97.69	105.82	83.00	77.40	63.91	45.67	1004.83
Akkalkuva	44.53	47.18	57.96	61.63	87.73	108.78	123.77	95.60	104.37	81.57	75.90	62.35	44.46	995.82
Akrani	44.32	47.10	57.65	61.51	87.56	108.45	124.11	97.55	105.57	82.73	77.10	63.64	45.51	1002.80
Shahada	44.44	47.17	57.77	61.59	87.70	108.71	124.12	96.95	105.32	82.51	76.89	63.37	45.25	1001.80

**Table No. D-35: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	35.43	37.78	45.86	49.23	70.18	86.98	100.08	80.16	86.20	67.93	63.56	52.79	37.80	813.98
Navapur	35.75	37.76	46.59	49.37	70.26	87.17	98.68	74.96	82.48	64.27	59.68	48.79	34.70	790.47
Taloda	35.50	37.73	46.12	49.25	70.13	86.91	99.43	78.15	84.66	66.40	61.92	51.13	36.54	803.86
Akkalkuva	35.62	37.74	46.37	49.31	70.19	87.02	99.02	76.48	83.50	65.26	60.72	49.88	35.57	796.65
Akrani	35.46	37.68	46.12	49.21	70.05	86.76	99.29	78.04	84.46	66.18	61.68	50.91	36.41	802.24
Shahada	35.55	37.74	46.21	49.27	70.16	86.97	99.30	77.56	84.26	66.01	61.51	50.70	36.20	801.44

**Table No. D-36: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	29.53	31.48	38.22	41.02	58.49	72.49	83.40	66.80	71.83	56.61	52.97	43.99	31.50	678.31
Navapur	29.79	31.47	38.83	41.14	58.55	72.65	82.23	62.47	68.74	53.56	49.73	40.66	28.92	658.73
Taloda	29.59	31.44	38.43	41.04	58.44	72.43	82.86	65.13	70.55	55.33	51.60	42.60	30.45	669.89
Akkalkuva	29.69	31.45	38.64	41.09	58.49	72.52	82.51	63.73	69.58	54.38	50.60	41.57	29.64	663.88
Akrani	29.55	31.40	38.43	41.01	58.37	72.30	82.74	65.03	70.38	55.15	51.40	42.43	30.34	668.54
Shahada	29.63	31.45	38.51	41.06	58.47	72.47	82.75	64.63	70.22	55.01	51.26	42.25	30.17	667.87

**Table No. D-37: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	22.14	23.61	28.66	30.77	43.86	54.36	62.55	50.10	53.87	42.46	39.72	32.99	23.63	508.74
Navapur	22.34	23.60	29.12	30.86	43.91	54.48	61.67	46.85	51.55	40.17	37.30	30.49	21.69	494.05
Taloda	22.19	23.58	28.83	30.78	43.83	54.32	62.15	48.85	52.91	41.50	38.70	31.95	22.84	502.42
Akkalkuva	22.27	23.59	28.98	30.82	43.87	54.39	61.88	47.80	52.19	40.79	37.95	31.17	22.23	497.91
Akrani	22.16	23.55	28.83	30.76	43.78	54.22	62.06	48.78	52.79	41.36	38.55	31.82	22.75	501.40
Shahada	22.22	23.59	28.88	30.80	43.85	54.36	62.06	48.47	52.66	41.25	38.44	31.69	22.63	500.90

**Table No. D-38: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	20.84	22.22	26.98	28.96	41.28	51.17	58.87	47.15	50.70	39.96	37.39	31.05	22.24	478.81
Navapur	21.03	22.21	27.41	29.04	41.33	51.28	58.05	44.10	48.52	37.80	35.10	28.70	20.41	464.99
Taloda	20.88	22.19	27.13	28.97	41.25	51.12	58.49	45.97	49.80	39.06	36.43	30.07	21.49	472.86
Akkalkuva	20.96	22.20	27.27	29.00	41.29	51.19	58.24	44.99	49.12	38.39	35.72	29.34	20.92	468.62
Akrani	20.86	22.17	27.13	28.95	41.20	51.03	58.41	45.91	49.68	38.93	36.28	29.95	21.42	471.91
Shahada	20.91	22.20	27.18	28.98	41.27	51.16	58.41	45.62	49.56	38.83	36.18	29.82	21.30	471.44

**Table No. D-39: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	19.68	20.99	25.48	27.35	38.99	48.32	55.60	44.53	47.89	37.74	35.31	29.33	21.00	452.21
Navapur	19.86	20.98	25.89	27.43	39.04	48.43	54.82	41.65	45.82	35.70	33.15	27.11	19.28	439.15
Taloda	19.72	20.96	25.62	27.36	38.96	48.28	55.24	43.42	47.03	36.89	34.40	28.40	20.30	446.59
Akkalkuva	19.79	20.97	25.76	27.39	38.99	48.35	55.01	42.49	46.39	36.25	33.73	27.71	19.76	442.59
Akrani	19.70	20.93	25.62	27.34	38.92	48.20	55.16	43.36	46.92	36.77	34.27	28.28	20.23	445.69
Shahada	19.75	20.97	25.67	27.37	38.98	48.32	55.17	43.09	46.81	36.67	34.17	28.17	20.11	445.25

**Table No. D-40: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nandurbar	18.65	19.88	24.14	25.91	36.94	45.78	52.67	42.19	45.37	35.76	33.45	27.78	19.90	428.41
Navapur	18.81	19.88	24.52	25.99	36.98	45.88	51.94	39.45	43.41	33.82	31.41	25.68	18.27	416.04
Taloda	18.69	19.86	24.27	25.92	36.91	45.74	52.33	41.13	44.56	34.95	32.59	26.91	19.23	423.09
Akkalkuva	18.75	19.86	24.40	25.95	36.94	45.80	52.11	40.25	43.95	34.35	31.96	26.25	18.72	419.29
Akrani	18.66	19.83	24.27	25.90	36.87	45.66	52.26	41.07	44.45	34.83	32.46	26.80	19.16	422.23
Shahada	18.71	19.86	24.32	25.93	36.93	45.77	52.26	40.82	44.35	34.74	32.37	26.68	19.05	421.81

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Nashik District**

**Table No. D-41: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nashik	16.17	17.88	22.40	24.12	33.89	42.39	50.72	42.75	43.55	34.29	32.62	25.94	18.09	404.83
Igatpuri	16.42	18.06	22.22	23.96	33.76	41.88	50.36	43.53	43.97	34.82	32.81	27.08	19.15	408.02
Dindori	16.16	17.88	22.41	24.12	33.90	42.41	50.74	42.73	43.55	34.28	32.62	25.92	18.07	404.80
Peth	17.14	18.66	22.41	24.13	34.49	41.52	49.96	44.94	45.64	36.12	33.49	29.34	22.13	419.96
Trimbakeshwar	17.33	18.84	22.65	24.39	35.06	41.15	49.69	46.26	46.72	36.76	33.86	30.46	24.12	427.30
Kalwan	16.94	18.47	22.13	23.86	33.83	41.83	50.27	43.34	44.59	35.38	33.11	28.14	20.04	411.96
Deola	17.07	18.56	22.22	23.99	34.07	41.84	50.17	43.57	44.82	35.52	33.18	28.41	20.58	414.00
Surgana	16.82	18.36	22.16	23.92	33.86	41.91	50.28	43.25	44.36	35.16	32.98	27.74	19.71	410.50
Baglan	17.42	18.92	22.72	24.48	35.26	40.98	49.60	46.78	47.19	37.05	34.05	30.95	24.94	430.34
Malegaon	17.41	18.92	22.72	24.48	35.25	40.99	49.61	46.76	47.17	37.03	34.04	30.93	24.90	430.20
Nandgaon	17.13	18.60	22.18	23.99	34.08	42.00	50.22	43.17	44.74	35.44	33.15	28.25	20.31	413.24
Chandwad	17.35	18.85	22.67	24.42	35.10	41.15	49.67	46.29	46.76	36.78	33.87	30.50	24.21	427.62
Niphad	17.37	18.86	22.67	24.42	35.11	41.17	49.69	46.23	46.77	36.78	33.88	30.49	24.20	427.64
Sinnar	17.37	18.87	22.68	24.43	35.14	41.12	49.66	46.37	46.85	36.83	33.91	30.59	24.36	428.20
Yeola	17.31	18.76	22.48	24.26	34.68	41.89	50.01	44.29	45.51	35.96	33.43	29.08	21.89	419.53

**Table No. D-42: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nashik	40.42	44.71	56.01	60.30	84.74	105.98	126.81	106.87	108.89	85.73	81.55	64.85	45.24	1012.08
Igatpuri	41.05	45.15	55.54	59.90	84.40	104.71	125.89	108.84	109.94	87.06	82.01	67.69	47.87	1020.04
Dindori	40.41	44.71	56.02	60.30	84.74	106.02	126.84	106.81	108.88	85.71	81.55	64.80	45.18	1011.99
Peth	42.85	46.64	56.03	60.32	86.21	103.80	124.90	112.34	114.10	90.30	83.71	73.36	55.34	1049.91
Trimbakeshwar	43.33	47.10	56.62	60.99	87.65	102.88	124.22	115.65	116.80	91.90	84.66	76.16	60.29	1068.24
Kalwan	42.35	46.18	55.32	59.65	84.58	104.58	125.67	108.36	111.48	88.46	82.78	70.34	50.11	1029.89
Deola	42.68	46.41	55.56	59.97	85.18	104.61	125.41	108.93	112.05	88.81	82.95	71.02	51.44	1035.00
Surgana	42.04	45.91	55.39	59.81	84.66	104.78	125.69	108.12	110.90	87.90	82.45	69.35	49.27	1026.25
Baglan	43.54	47.30	56.81	61.20	88.14	102.46	124.01	116.95	117.99	92.62	85.13	77.37	62.34	1075.84
Malegaon	43.52	47.29	56.80	61.19	88.12	102.48	124.02	116.91	117.93	92.58	85.10	77.33	62.24	1075.51
Nandgaon	42.82	46.49	55.46	59.96	85.20	104.99	125.55	107.92	111.84	88.60	82.88	70.62	50.77	1033.11
Chandwad	43.38	47.13	56.66	61.04	87.75	102.88	124.19	115.72	116.91	91.95	84.68	76.26	60.52	1069.06
Niphad	43.42	47.16	56.66	61.05	87.76	102.93	124.22	115.58	116.92	91.94	84.71	76.24	60.50	1069.09
Sinnar	43.42	47.18	56.70	61.08	87.84	102.81	124.16	115.93	117.14	92.08	84.78	76.49	60.89	1070.50
Yeola	43.27	46.89	56.19	60.64	86.69	104.72	125.03	110.73	113.77	89.90	83.57	72.70	54.72	1048.82

**Table No. D-43: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nashik	32.33	35.77	44.81	48.24	67.79	84.79	101.45	85.50	87.11	68.58	65.24	51.88	36.19	809.67
Igatpuri	32.84	36.12	44.43	47.92	67.52	83.76	100.71	87.07	87.95	69.65	65.61	54.15	38.29	816.03
Dindori	32.33	35.77	44.82	48.24	67.79	84.81	101.48	85.45	87.10	68.57	65.24	51.84	36.15	809.59
Peth	34.28	37.31	44.82	48.26	68.97	83.04	99.92	89.87	91.28	72.24	66.97	58.69	44.27	839.93
Trimbakeshwar	34.67	37.68	45.29	48.79	70.12	82.31	99.37	92.52	93.44	73.52	67.73	60.92	48.24	854.60
Kalwan	33.88	36.95	44.25	47.72	67.66	83.66	100.54	86.69	89.19	70.77	66.23	56.28	40.09	823.91
Deola	34.14	37.13	44.45	47.97	68.14	83.68	100.33	87.14	89.64	71.05	66.36	56.82	41.15	828.00
Surgana	33.63	36.72	44.31	47.85	67.72	83.82	100.55	86.50	88.72	70.32	65.96	55.48	39.42	821.00
Baglan	34.83	37.84	45.45	48.96	70.51	81.96	99.21	93.56	94.39	74.09	68.10	61.90	49.87	860.67
Malegaon	34.82	37.83	45.44	48.95	70.49	81.98	99.21	93.53	94.34	74.06	68.08	61.86	49.79	860.41
Nandgaon	34.25	37.19	44.37	47.97	68.16	83.99	100.44	86.34	89.47	70.88	66.30	56.50	40.62	826.49
Chandwad	34.70	37.71	45.33	48.83	70.20	82.30	99.35	92.57	93.53	73.56	67.75	61.01	48.41	855.25
Niphad	34.73	37.73	45.33	48.84	70.21	82.35	99.37	92.47	93.54	73.56	67.76	60.99	48.40	855.28
Sinnar	34.74	37.74	45.36	48.86	70.27	82.25	99.33	92.74	93.71	73.67	67.82	61.19	48.71	856.40
Yeola	34.61	37.51	44.95	48.51	69.36	83.78	100.03	88.58	91.02	71.92	66.86	58.16	43.77	839.05

**Table No. D-44: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nashik	26.94	29.80	37.34	40.20	56.49	70.65	84.54	71.25	72.59	57.15	54.37	43.24	30.16	674.72
Igatpuri	27.37	30.10	37.03	39.94	56.26	69.80	83.93	72.56	73.29	58.04	54.68	45.13	31.91	680.03
Dindori	26.94	29.80	37.35	40.20	56.49	70.68	84.56	71.21	72.59	57.14	54.37	43.20	30.12	674.66
Peth	28.57	31.09	37.35	40.22	57.48	69.20	83.27	74.90	76.07	60.20	55.81	48.91	36.89	699.94
Trimbakeshwar	28.89	31.40	37.74	40.66	58.44	68.59	82.81	77.10	77.87	61.27	56.44	50.77	40.20	712.16
Kalwan	28.24	30.79	36.88	39.77	56.39	69.72	83.78	72.24	74.32	58.97	55.19	46.90	33.41	686.59
Deola	28.45	30.94	37.04	39.98	56.78	69.74	83.61	72.62	74.70	59.20	55.30	47.35	34.29	690.00
Surgana	28.03	30.60	36.93	39.87	56.44	69.85	83.79	72.08	73.93	58.60	54.96	46.23	32.85	684.17
Baglan	29.03	31.53	37.87	40.80	58.76	68.30	82.67	77.97	78.66	61.74	56.75	51.58	41.56	717.23
Malegaon	29.01	31.53	37.87	40.80	58.75	68.32	82.68	77.94	78.62	61.72	56.74	51.55	41.49	717.00
Nandgaon	28.54	30.99	36.97	39.98	56.80	70.00	83.70	71.95	74.56	59.07	55.25	47.08	33.85	688.74
Chandwad	28.92	31.42	37.78	40.69	58.50	68.59	82.79	77.14	77.94	61.30	56.45	50.84	40.35	712.71
Niphad	28.95	31.44	37.78	40.70	58.51	68.62	82.81	77.06	77.95	61.30	56.47	50.82	40.33	712.73
Sinnar	28.95	31.45	37.80	40.72	58.56	68.54	82.77	77.29	78.09	61.39	56.52	50.99	40.59	713.66
Yeola	28.84	31.26	37.46	40.43	57.80	69.81	83.35	73.82	75.85	59.93	55.71	48.47	36.48	699.21



**Table No. D-45: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nashik	20.21	22.35	28.00	30.15	42.37	52.99	63.40	53.44	54.44	42.86	40.78	32.43	22.62	506.04
Igatpuri	20.53	22.57	27.77	29.95	42.20	52.35	62.95	54.42	54.97	43.53	41.01	33.85	23.93	510.02
Dindori	20.21	22.35	28.01	30.15	42.37	53.01	63.42	53.41	54.44	42.85	40.78	32.40	22.59	505.99
Peth	21.42	23.32	28.01	30.16	43.11	51.90	62.45	56.17	57.05	45.15	41.86	36.68	27.67	524.96
Trimbakeshwar	21.67	23.55	28.31	30.49	43.83	51.44	62.11	57.82	58.40	45.95	42.33	38.08	30.15	534.12
Kalwan	21.18	23.09	27.66	29.83	42.29	52.29	62.84	54.18	55.74	44.23	41.39	35.17	25.06	514.94
Deola	21.34	23.21	27.78	29.98	42.59	52.30	62.71	54.47	56.02	44.40	41.47	35.51	25.72	517.50
Surgana	21.02	22.95	27.70	29.90	42.33	52.39	62.85	54.06	55.45	43.95	41.22	34.68	24.63	513.13
Baglan	21.77	23.65	28.41	30.60	44.07	51.23	62.00	58.47	58.99	46.31	42.56	38.69	31.17	537.92
Malegaon	21.76	23.64	28.40	30.60	44.06	51.24	62.01	58.45	58.96	46.29	42.55	38.67	31.12	537.75
Nandgaon	21.41	23.25	27.73	29.98	42.60	52.50	62.77	53.96	55.92	44.30	41.44	35.31	25.39	516.55
Chandwad	21.69	23.57	28.33	30.52	43.88	51.44	62.09	57.86	58.45	45.97	42.34	38.13	30.26	534.53
Niphad	21.71	23.58	28.33	30.52	43.88	51.47	62.11	57.79	58.46	45.97	42.35	38.12	30.25	534.55
Sinnar	21.71	23.59	28.35	30.54	43.92	51.41	62.08	57.97	58.57	46.04	42.39	38.24	30.45	535.25
Yeola	21.63	23.45	28.09	30.32	43.35	52.36	62.52	55.36	56.89	44.95	41.78	36.35	27.36	524.41

**Table No. D-46: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	20.41	22.15	26.60	28.67	41.15	48.71	58.57	53.67	54.54	42.95	39.68	35.34	27.61	500.05
Jamner	20.13	21.84	26.01	28.20	40.06	49.62	59.16	50.06	52.34	41.41	38.84	32.75	23.21	483.64
Erandol	20.38	22.05	25.83	28.07	40.00	49.63	59.25	49.78	52.78	41.75	39.13	33.26	23.46	485.36
Dharangaon	20.36	22.07	25.61	27.87	39.76	49.39	59.30	49.73	53.00	41.91	39.24	33.51	23.47	485.23
Bhusaval	20.46	22.08	26.20	28.43	40.48	50.08	59.18	49.92	52.53	41.58	39.03	32.95	23.61	486.53
Raver	20.67	22.21	26.31	28.62	40.75	50.68	59.32	49.39	52.41	41.52	39.14	32.70	23.35	487.08
Muktainagar	20.45	22.10	26.52	28.62	40.91	49.59	58.85	51.50	53.21	42.03	39.13	33.81	25.33	492.07
Bodwad	20.73	22.24	26.37	28.68	40.84	50.83	59.34	49.21	52.33	41.46	39.10	32.60	23.27	486.98
Yawal	20.80	22.29	26.42	28.78	40.97	51.05	59.39	49.33	52.41	41.56	39.30	32.60	23.35	488.25
Amalner	20.61	22.16	26.47	28.70	40.88	50.45	59.12	49.85	52.42	41.48	38.97	32.79	23.80	487.71
Parola	20.60	22.15	26.36	28.55	40.69	50.49	59.22	49.01	52.11	41.23	38.70	32.50	23.14	484.75
Chopda	20.53	22.09	26.41	28.57	40.69	50.44	59.16	49.01	51.95	41.09	38.55	32.35	23.06	483.91
Pachora	20.84	22.31	26.48	28.83	41.05	51.16	59.37	49.12	52.28	41.44	39.18	32.47	23.26	487.78
Bhadgaon	20.88	22.31	26.87	28.97	41.37	51.34	59.24	47.93	51.47	40.73	38.22	31.87	22.82	484.03
Chalisgaon	20.90	22.33	26.70	28.93	41.26	51.34	59.32	48.43	51.85	41.06	38.70	32.12	23.00	485.94

**Table No. D-47: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Jalgaon	19.27	20.92	25.12	27.08	38.86	46.00	55.32	50.69	51.51	40.57	37.48	33.38	26.07	472.27
Jamner	19.01	20.63	24.56	26.63	37.83	46.86	55.88	47.27	49.44	39.11	36.68	30.93	21.92	456.77
Erandol	19.24	20.83	24.39	26.51	37.78	46.87	55.96	47.01	49.85	39.43	36.96	31.41	22.16	458.40
Dharangaon	19.23	20.84	24.19	26.33	37.55	46.65	56.01	46.97	50.06	39.58	37.06	31.64	22.16	458.27
Bhusaval	19.32	20.85	24.74	26.85	38.23	47.30	55.90	47.15	49.61	39.27	36.87	31.12	22.30	459.50
Raver	19.53	20.98	24.85	27.03	38.48	47.86	56.03	46.65	49.50	39.22	36.97	30.88	22.05	460.02
Muktainagar	19.31	20.87	25.05	27.03	38.64	46.83	55.58	48.64	50.25	39.70	36.96	31.93	23.92	464.73
Bodwad	19.57	21.01	24.90	27.08	38.57	48.00	56.04	46.48	49.42	39.16	36.93	30.79	21.98	459.93
Yawal	19.64	21.05	24.95	27.18	38.69	48.22	56.09	46.59	49.50	39.25	37.11	30.79	22.05	461.12
Amalner	19.47	20.93	24.99	27.11	38.61	47.65	55.84	47.08	49.51	39.18	36.81	30.97	22.47	460.62
Parola	19.45	20.92	24.89	26.96	38.43	47.68	55.93	46.28	49.21	38.94	36.55	30.70	21.86	457.82
Chopda	19.39	20.87	24.94	26.98	38.43	47.64	55.87	46.29	49.06	38.81	36.41	30.55	21.78	457.02
Pachora	19.68	21.07	25.01	27.23	38.77	48.31	56.07	46.39	49.38	39.14	37.01	30.66	21.96	460.68
Bhadgaon	19.72	21.07	25.38	27.36	39.07	48.49	55.95	45.26	48.61	38.47	36.10	30.10	21.55	457.14
Chalisgaon	19.74	21.09	25.22	27.33	38.96	48.49	56.02	45.74	48.97	38.78	36.55	30.33	21.72	458.94

**Table No. D-48: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Nashik	17.02	18.82	23.58	25.39	35.68	44.62	53.39	45.00	45.85	36.10	34.34	27.31	19.05	426.14
Igatpuri	17.28	19.01	23.38	25.22	35.54	44.09	53.01	45.83	46.29	36.66	34.53	28.50	20.15	429.49
Dindori	17.01	18.82	23.59	25.39	35.68	44.64	53.41	44.97	45.84	36.09	34.34	27.29	19.02	426.10
Peth	18.04	19.64	23.59	25.40	36.30	43.71	52.59	47.30	48.04	38.02	35.25	30.89	23.30	442.07
Trimbakeshwar	18.25	19.83	23.84	25.68	36.91	43.32	52.30	48.69	49.18	38.70	35.65	32.07	25.39	449.79
Kalwan	17.83	19.45	23.29	25.12	35.61	44.03	52.92	45.63	46.94	37.25	34.86	29.62	21.10	433.64
Deola	17.97	19.54	23.39	25.25	35.86	44.04	52.81	45.87	47.18	37.39	34.92	29.90	21.66	435.79
Surgana	17.70	19.33	23.32	25.18	35.64	44.12	52.92	45.52	46.69	37.01	34.71	29.20	20.75	432.11
Baglan	18.33	19.91	23.92	25.77	37.11	43.14	52.21	49.24	49.68	39.00	35.84	32.58	26.25	452.99
Malegaon	18.32	19.91	23.92	25.77	37.10	43.15	52.22	49.22	49.65	38.98	35.83	32.56	26.21	452.85
Nandgaon	18.03	19.58	23.35	25.25	35.88	44.21	52.86	45.44	47.09	37.30	34.90	29.74	21.38	434.99
Chandwad	18.26	19.85	23.86	25.70	36.95	43.32	52.29	48.72	49.22	38.71	35.66	32.11	25.48	450.13
Niphad	18.28	19.86	23.86	25.70	36.95	43.34	52.30	48.67	49.23	38.71	35.67	32.10	25.47	450.14
Sinnar	18.28	19.86	23.87	25.72	36.99	43.29	52.28	48.81	49.32	38.77	35.70	32.20	25.64	450.74
Yeola	18.22	19.74	23.66	25.53	36.50	44.09	52.65	46.62	47.90	37.85	35.19	30.61	23.04	441.61

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Pune District**

**Table No. D-49: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	16.02	17.75	22.12	23.80	34.32	41.16	49.21	48.56	44.49	36.00	33.07	28.91	21.13	416.53
Haveli	16.33	18.17	22.21	23.54	34.36	40.64	49.24	49.23	45.72	37.27	33.78	30.56	22.49	423.52
Khed	16.30	18.06	22.16	23.69	34.21	40.76	49.33	48.52	45.34	36.72	33.49	29.99	22.18	420.74
Junnar	15.88	17.53	22.04	23.98	33.98	41.04	49.21	46.97	43.62	35.00	32.49	27.61	19.98	409.33
Ambegaon	16.33	18.08	22.15	23.68	34.12	40.68	49.37	48.31	45.32	36.66	33.47	29.97	22.14	420.29
Vadgaon Maval	16.42	18.17	22.04	23.48	33.56	40.11	49.54	47.96	45.40	36.73	33.51	30.37	22.20	419.48
Mulshi	15.79	17.40	21.97	24.06	33.79	41.01	49.22	46.00	43.18	34.49	32.19	26.89	19.35	405.34
Shirur	16.33	18.08	22.06	23.58	33.72	40.40	49.48	47.72	45.12	36.46	33.36	29.84	21.79	417.94
Purandar	15.73	17.35	21.90	24.01	33.62	41.10	49.40	45.39	43.03	34.33	32.11	26.54	18.98	403.49
Velhe	16.24	17.94	22.04	23.70	33.75	40.70	49.51	46.95	44.63	35.92	33.09	28.99	21.07	414.54
Bhor	15.52	17.16	21.73	23.85	33.33	41.35	49.84	44.74	42.84	34.21	32.07	25.99	18.36	401.01
Baramati	16.53	18.21	22.19	23.81	34.13	40.83	49.52	47.02	45.34	36.37	33.42	29.63	22.02	419.03
Indapur	16.41	18.09	22.09	23.72	33.80	40.73	49.61	46.72	44.91	36.06	33.22	29.23	21.35	415.94
Daund	16.59	18.24	22.17	23.84	34.02	40.92	49.65	46.42	45.17	36.16	33.35	29.35	21.67	417.54

**Table No. D-50: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	40.06	44.37	55.29	59.50	85.81	102.89	123.03	121.39	111.21	90.01	82.68	72.27	52.82	1041.32
Haveli	40.81	45.41	55.52	58.84	85.90	101.59	123.10	123.07	114.30	93.16	84.45	76.41	56.23	1058.81
Khed	40.74	45.14	55.39	59.23	85.52	101.89	123.33	121.29	113.35	91.79	83.73	74.98	55.45	1051.84
Junnar	39.70	43.83	55.09	59.96	84.95	102.59	123.04	117.43	109.06	87.49	81.21	69.03	49.94	1023.32
Ambegaon	40.82	45.20	55.37	59.21	85.31	101.71	123.41	120.77	113.31	91.66	83.68	74.93	55.35	1050.73
Vadgaon Maval	41.05	45.43	55.10	58.70	83.89	100.28	123.85	119.89	113.49	91.82	83.77	75.92	55.50	1048.69
Mulshi	39.47	43.51	54.93	60.14	84.48	102.53	123.04	114.99	107.94	86.22	80.49	67.23	48.38	1013.34
Shirur	40.83	45.19	55.14	58.94	84.31	101.01	123.70	119.30	112.79	91.15	83.41	74.61	54.47	1044.85
Purandar	39.32	43.37	54.76	60.03	84.05	102.75	123.51	113.48	107.57	85.83	80.28	66.35	47.45	1008.73
Velhe	40.60	44.86	55.10	59.25	84.38	101.75	123.77	117.38	111.59	89.81	82.71	72.47	52.67	1036.35
Bhor	38.80	42.90	54.32	59.64	83.34	103.37	124.60	111.86	107.11	85.51	80.18	64.97	45.91	1002.52
Baramati	41.33	45.54	55.48	59.53	85.32	102.07	123.80	117.56	113.34	90.92	83.56	74.09	55.04	1047.58
Indapur	41.02	45.23	55.22	59.30	84.49	101.83	124.03	116.80	112.27	90.15	83.05	73.08	53.38	1039.84
Daund	41.46	45.59	55.43	59.59	85.06	102.30	124.12	116.05	112.93	90.39	83.36	73.38	54.18	1043.84

**Table No. D-51: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	32.04	35.50	44.23	47.60	68.65	82.31	98.42	97.11	88.97	72.00	66.14	57.81	42.26	833.06
Haveli	32.65	36.33	44.42	47.07	68.72	81.28	98.48	98.46	91.44	74.53	67.56	61.13	44.98	847.05
Khed	32.59	36.11	44.31	47.39	68.41	81.51	98.66	97.03	90.68	73.44	66.98	59.99	44.36	841.47
Junnar	31.76	35.06	44.07	47.97	67.96	82.07	98.43	93.94	87.25	69.99	64.97	55.22	39.95	818.65
Ambegaon	32.65	36.16	44.29	47.37	68.25	81.37	98.73	96.61	90.65	73.33	66.95	59.94	44.28	840.58
Vadgaon Maval	32.84	36.35	44.08	46.96	67.11	80.23	99.08	95.91	90.79	73.46	67.01	60.74	44.40	838.95
Mulshi	31.58	34.81	43.94	48.11	67.58	82.02	98.43	92.00	86.35	68.98	64.39	53.79	38.70	810.68
Shirur	32.67	36.15	44.11	47.15	67.45	80.81	98.96	95.44	90.23	72.92	66.73	59.69	43.57	835.88
Purandar	31.46	34.69	43.80	48.02	67.24	82.20	98.81	90.78	86.05	68.66	64.23	53.08	37.96	806.98
Velhe	32.48	35.89	44.08	47.40	67.50	81.40	99.02	93.90	89.27	71.85	66.17	57.98	42.13	829.08
Bhor	31.04	34.32	43.46	47.71	66.67	82.70	99.68	89.49	85.69	68.41	64.15	51.98	36.73	802.02
Baramati	33.07	36.43	44.38	47.63	68.26	81.65	99.04	94.05	90.67	72.74	66.85	59.27	44.03	838.07
Indapur	32.82	36.19	44.17	47.44	67.59	81.46	99.22	93.44	89.81	72.12	66.44	58.47	42.71	831.88
Daund	33.17	36.47	44.34	47.67	68.05	81.84	99.29	92.84	90.34	72.31	66.69	58.70	43.35	835.07

**Table No. D-52: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	26.70	29.58	36.86	39.67	57.21	68.59	82.02	80.93	74.14	60.00	55.12	48.18	35.21	694.21
Haveli	27.21	30.28	37.01	39.23	57.27	67.73	82.06	82.05	76.20	62.11	56.30	50.94	37.49	705.87
Khed	27.16	30.10	36.93	39.49	57.01	67.93	82.22	80.86	75.57	61.20	55.82	49.99	36.97	701.23
Junnar	26.47	29.22	36.73	39.97	56.63	68.40	82.02	78.29	72.71	58.33	54.14	46.02	33.29	682.21
Ambegaon	27.21	30.13	36.91	39.47	56.87	67.81	82.28	80.51	75.54	61.11	55.79	49.95	36.90	700.48
Vadgaon Maval	27.37	30.29	36.74	39.13	55.93	66.85	82.56	79.93	75.66	61.21	55.85	50.62	37.00	699.13
Mulshi	26.31	29.01	36.62	40.09	56.32	68.35	82.03	76.66	71.96	57.48	53.66	44.82	32.25	675.56
Shirur	27.22	30.13	36.76	39.29	56.21	67.34	82.47	79.53	75.19	60.76	55.61	49.74	36.31	696.56
Purandar	26.21	28.91	36.50	40.02	56.03	68.50	82.34	75.65	71.71	57.22	53.52	44.23	31.64	672.49
Velhe	27.07	29.91	36.73	39.50	56.25	67.83	82.52	78.25	74.39	59.87	55.14	48.32	35.11	690.90
Bhor	25.87	28.60	36.22	39.76	55.56	68.92	83.07	74.57	71.41	57.01	53.46	43.32	30.61	668.35
Baramati	27.56	30.36	36.98	39.69	56.88	68.04	82.53	78.37	75.56	60.62	55.71	49.39	36.69	698.39
Indapur	27.35	30.16	36.81	39.53	56.33	67.89	82.69	77.87	74.84	60.10	55.37	48.72	35.59	693.23
Daund	27.64	30.39	36.95	39.73	56.71	68.20	82.75	77.37	75.29	60.26	55.58	48.92	36.12	695.89



**Table No. D-53: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	20.03	22.18	27.64	29.75	42.90	51.44	61.51	60.70	55.61	45.00	41.34	36.13	26.41	520.66
Haveli	20.41	22.71	27.76	29.42	42.95	50.80	61.55	61.54	57.15	46.58	42.23	38.21	28.11	529.41
Khed	20.37	22.57	27.70	29.62	42.76	50.94	61.66	60.64	56.68	45.90	41.87	37.49	27.73	525.92
Junnar	19.85	21.91	27.54	29.98	42.47	51.30	61.52	58.72	54.53	43.74	40.61	34.51	24.97	511.66
Ambegaon	20.41	22.60	27.68	29.60	42.66	50.85	61.71	60.38	56.66	45.83	41.84	37.47	27.68	525.36
Vadgaon Maval	20.52	22.72	27.55	29.35	41.94	50.14	61.92	59.94	56.74	45.91	41.88	37.96	27.75	524.35
Mulshi	19.73	21.76	27.46	30.07	42.24	51.26	61.52	57.50	53.97	43.11	40.24	33.62	24.19	506.67
Shirur	20.42	22.59	27.57	29.47	42.16	50.51	61.85	59.65	56.39	45.57	41.71	37.30	27.23	522.42
Purandar	19.66	21.68	27.38	30.01	42.02	51.37	61.75	56.74	53.78	42.91	40.14	33.17	23.73	504.37
Velhe	20.30	22.43	27.55	29.63	42.19	50.88	61.89	58.69	55.79	44.91	41.36	36.24	26.33	518.17
Bhor	19.40	21.45	27.16	29.82	41.67	51.69	62.30	55.93	53.55	42.76	40.09	32.49	22.96	501.26
Baramati	20.67	22.77	27.74	29.77	42.66	51.03	61.90	58.78	56.67	45.46	41.78	37.04	27.52	523.79
Indapur	20.51	22.62	27.61	29.65	42.24	50.91	62.01	58.40	56.13	45.07	41.53	36.54	26.69	519.92
Daund	20.73	22.79	27.72	29.80	42.53	51.15	62.06	58.02	56.46	45.20	41.68	36.69	27.09	521.92

**Table No. D-54: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	18.85	20.88	26.02	28.00	40.38	48.42	57.89	57.13	52.34	42.36	38.91	34.01	24.86	490.03
Haveli	19.21	21.37	26.13	27.69	40.42	47.81	57.93	57.92	53.79	43.84	39.74	35.96	26.46	498.26
Khed	19.17	21.24	26.07	27.87	40.24	47.95	58.04	57.08	53.34	43.20	39.40	35.29	26.10	494.98
Junnar	18.68	20.62	25.92	28.21	39.98	48.28	57.90	55.26	51.32	41.17	38.22	32.48	23.50	481.56
Ambegaon	19.21	21.27	26.06	27.86	40.15	47.86	58.08	56.83	53.32	43.13	39.38	35.26	26.05	494.46
Vadgaon Maval	19.32	21.38	25.93	27.62	39.48	47.19	58.28	56.42	53.41	43.21	39.42	35.73	26.12	493.50
Mulshi	18.57	20.48	25.85	28.30	39.75	48.25	57.90	54.12	50.79	40.57	37.88	31.64	22.77	476.87
Shirur	19.22	21.26	25.95	27.74	39.68	47.53	58.21	56.14	53.08	42.89	39.25	35.11	25.63	491.69
Purandar	18.50	20.41	25.77	28.25	39.55	48.35	58.12	53.40	50.62	40.39	37.78	31.22	22.33	474.70
Velhe	19.11	21.11	25.93	27.88	39.71	47.88	58.25	55.24	52.51	42.26	38.92	34.11	24.78	487.69
Bhor	18.26	20.19	25.56	28.06	39.22	48.65	58.64	52.64	50.40	40.24	37.73	30.58	21.61	471.77
Baramati	19.45	21.43	26.11	28.02	40.15	48.03	58.26	55.32	53.34	42.79	39.32	34.86	25.90	492.98
Indapur	19.30	21.29	25.98	27.90	39.76	47.92	58.37	54.96	52.83	42.42	39.08	34.39	25.12	489.34
Daund	19.51	21.45	26.09	28.04	40.03	48.14	58.41	54.61	53.14	42.54	39.23	34.53	25.50	491.22

**Table No. D-55: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	17.80	19.72	24.57	26.45	38.14	45.73	54.68	53.95	49.43	40.00	36.75	32.12	23.48	462.81
Haveli	18.14	20.18	24.68	26.15	38.18	45.15	54.71	54.70	50.80	41.41	37.54	33.96	24.99	470.58
Khed	18.11	20.06	24.62	26.33	38.01	45.28	54.81	53.91	50.38	40.80	37.21	33.33	24.65	467.48
Junnar	17.65	19.48	24.48	26.65	37.75	45.60	54.68	52.19	48.47	38.88	36.09	30.68	22.20	454.81
Ambegaon	18.14	20.09	24.61	26.31	37.92	45.20	54.85	53.67	50.36	40.74	37.19	33.30	24.60	466.99
Vadgaon Maval	18.24	20.19	24.49	26.09	37.28	44.57	55.04	53.28	50.44	40.81	37.23	33.74	24.67	466.09
Mulshi	17.54	19.34	24.41	26.73	37.55	45.57	54.68	51.11	47.97	38.32	35.77	29.88	21.50	450.38
Shirur	18.15	20.08	24.51	26.20	37.47	44.89	54.98	53.02	50.13	40.51	37.07	33.16	24.21	464.38
Purandar	17.48	19.27	24.34	26.68	37.35	45.67	54.89	50.44	47.81	38.15	35.68	29.49	21.09	448.32
Velhe	18.05	19.94	24.49	26.33	37.50	45.22	55.01	52.17	49.59	39.92	36.76	32.21	23.41	460.60
Bhor	17.24	19.07	24.14	26.50	37.04	45.94	55.38	49.71	47.60	38.01	35.64	28.88	20.41	445.56
Baramati	18.37	20.24	24.66	26.46	37.92	45.36	55.02	52.25	50.37	40.41	37.14	32.93	24.46	465.59
Indapur	18.23	20.10	24.54	26.35	37.55	45.26	55.12	51.91	49.90	40.07	36.91	32.48	23.73	462.15
Daund	18.43	20.26	24.64	26.48	37.80	45.47	55.16	51.58	50.19	40.17	37.05	32.61	24.08	463.93

**Table No. D-56: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Pune City	16.87	18.68	23.28	25.05	36.13	43.32	51.80	51.11	46.83	37.90	34.81	30.43	22.24	438.45
Haveli	17.18	19.12	23.38	24.78	36.17	42.78	51.83	51.82	48.13	39.23	35.56	32.17	23.68	445.81
Khed	17.15	19.01	23.32	24.94	36.01	42.90	51.93	51.07	47.73	38.65	35.26	31.57	23.35	442.88
Junnar	16.72	18.45	23.20	25.24	35.77	43.20	51.81	49.44	45.92	36.84	34.20	29.07	21.03	430.87
Ambegaon	17.19	19.03	23.31	24.93	35.92	42.82	51.96	50.85	47.71	38.59	35.23	31.55	23.31	442.41
Vadgaon Maval	17.28	19.13	23.20	24.71	35.32	42.22	52.15	50.48	47.78	38.66	35.27	31.97	23.37	441.55
Mulshi	16.62	18.32	23.13	25.32	35.57	43.17	51.81	48.42	45.45	36.30	33.89	28.31	20.37	426.67
Shirur	17.19	19.03	23.22	24.82	35.50	42.53	52.08	50.23	47.49	38.38	35.12	31.41	22.93	439.94
Purandar	16.56	18.26	23.06	25.28	35.39	43.26	52.00	47.78	45.29	36.14	33.80	27.94	19.98	424.73
Velhe	17.10	18.89	23.20	24.95	35.53	42.84	52.12	49.42	46.98	37.82	34.83	30.52	22.18	436.36
Bhor	16.34	18.06	22.87	25.11	35.09	43.53	52.46	47.10	45.10	36.01	33.76	27.36	19.33	422.11
Baramati	17.40	19.17	23.36	25.07	35.93	42.98	52.13	49.50	47.72	38.28	35.18	31.19	23.17	441.09
Indapur	17.27	19.05	23.25	24.97	35.57	42.88	52.22	49.18	47.27	37.96	34.97	30.77	22.48	437.83
Daund	17.46	19.20	23.34	25.09	35.81	43.07	52.26	48.86	47.55	38.06	35.10	30.90	22.81	439.51

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Sangli District**

**Table No. D-57: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	16.05	17.82	22.24	24.02	34.58	41.18	49.44	49.87	45.38	36.71	33.33	29.85	22.51	423.00
Kavathe Mahakal	15.79	17.63	22.33	24.25	34.89	41.45	49.68	52.08	45.80	37.18	33.37	30.34	23.30	428.07
Tasgaon	15.92	17.73	22.28	24.11	34.73	41.31	49.54	50.95	45.58	36.95	33.36	30.10	22.88	425.44
Jath	15.80	17.63	22.30	24.18	34.85	41.46	49.61	51.77	45.66	37.09	33.36	30.21	23.06	426.99
Walwa	15.83	17.66	22.31	24.20	34.85	41.41	49.63	51.76	45.74	37.12	33.37	30.28	23.18	427.35
Shirala	15.54	17.43	22.44	24.54	35.20	41.72	49.98	54.25	46.26	37.60	33.37	30.79	24.16	433.28
Vita	16.06	17.83	22.24	24.01	34.58	41.18	49.44	49.86	45.39	36.72	33.34	29.87	22.51	423.02
Atpadi	15.71	17.57	22.36	24.33	34.99	41.53	49.76	52.74	45.94	37.32	33.38	30.49	23.56	429.69
Palus	16.02	17.80	22.25	24.03	34.62	41.22	49.47	50.22	45.46	36.81	33.36	29.96	22.63	423.85
Kadegaon	15.96	17.78	22.22	23.91	34.70	41.33	49.33	50.47	45.40	36.94	33.45	30.03	22.53	424.03

**Table No. D-58: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	40.14	44.56	55.61	60.04	86.45	102.96	123.61	124.68	113.45	91.77	83.33	74.63	56.27	1057.50
Kavathe Mahakal	39.47	44.07	55.82	60.62	87.23	103.63	124.19	130.19	114.50	92.94	83.42	75.84	58.25	1070.18
Tasgaon	39.81	44.32	55.70	60.28	86.82	103.28	123.86	127.37	113.94	92.37	83.39	75.24	57.19	1063.59
Jath	39.49	44.08	55.76	60.44	87.14	103.65	124.01	129.44	114.16	92.74	83.40	75.52	57.65	1067.48
Walwa	39.57	44.15	55.79	60.50	87.11	103.53	124.08	129.39	114.35	92.80	83.43	75.70	57.96	1068.37
Shirala	38.84	43.59	56.10	61.36	88.01	104.30	124.95	135.62	115.65	93.99	83.41	76.98	60.40	1083.21
Vita	40.15	44.57	55.61	60.02	86.44	102.94	123.60	124.65	113.47	91.80	83.35	74.67	56.28	1057.56
Atpadi	39.28	43.93	55.90	60.82	87.47	103.83	124.40	131.85	114.86	93.29	83.44	76.22	58.91	1074.22
Palus	40.04	44.50	55.63	60.07	86.56	103.04	123.66	125.55	113.64	92.03	83.40	74.91	56.59	1059.63
Kadegaon	39.90	44.44	55.55	59.77	86.74	103.32	123.32	126.17	113.49	92.35	83.62	75.07	56.33	1060.08

**Table No. D-59: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	32.11	35.65	44.49	48.04	69.16	82.37	98.89	99.74	90.76	73.42	66.66	59.71	45.02	846.00
Kavathe Mahakal	31.58	35.26	44.66	48.49	69.78	82.91	99.35	104.15	91.60	74.35	66.73	60.68	46.60	856.14
Tasgaon	31.84	35.46	44.56	48.23	69.46	82.63	99.09	101.90	91.16	73.89	66.72	60.19	45.76	850.87
Jath	31.59	35.27	44.61	48.35	69.71	82.92	99.21	103.55	91.32	74.19	66.72	60.42	46.12	853.98
Walwa	31.66	35.32	44.63	48.40	69.69	82.82	99.27	103.51	91.48	74.24	66.74	60.56	46.37	854.70
Shirala	31.07	34.87	44.88	49.09	70.41	83.44	99.96	108.50	92.52	75.20	66.73	61.58	48.32	866.57
Vita	32.12	35.66	44.48	48.02	69.15	82.36	98.88	99.72	90.78	73.44	66.68	59.74	45.02	846.05
Atpadi	31.43	35.14	44.72	48.65	69.98	83.07	99.52	105.48	91.89	74.63	66.75	60.98	47.13	859.37
Palus	32.03	35.60	44.50	48.06	69.25	82.43	98.93	100.44	90.91	73.62	66.72	59.93	45.27	847.71
Kadegaon	31.92	35.55	44.44	47.82	69.39	82.66	98.66	100.93	90.79	73.88	66.89	60.06	45.06	848.06

**Table No. D-60: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	26.76	29.71	37.07	40.03	57.63	68.64	82.41	83.12	75.63	61.18	55.55	49.76	37.51	705.00
Kavathe Mahakal	26.31	29.38	37.22	40.41	58.15	69.09	82.79	86.79	76.34	61.96	55.61	50.56	38.83	713.45
Tasgaon	26.54	29.55	37.13	40.19	57.88	68.86	82.57	84.92	75.96	61.58	55.60	50.16	38.13	709.06
Jath	26.33	29.39	37.17	40.29	58.09	69.10	82.68	86.29	76.10	61.82	55.60	50.35	38.43	711.65
Walwa	26.38	29.43	37.19	40.34	58.08	69.02	82.72	86.26	76.24	61.87	55.62	50.47	38.64	712.25
Shirala	25.89	29.06	37.40	40.91	58.67	69.53	83.30	90.42	77.10	62.66	55.61	51.32	40.27	722.14
Vita	26.77	29.72	37.07	40.02	57.63	68.63	82.40	83.10	75.65	61.20	55.57	49.78	37.52	705.04
Atpadi	26.19	29.29	37.27	40.55	58.31	69.22	82.93	87.90	76.57	62.20	55.63	50.82	39.27	716.14
Palus	26.69	29.67	37.09	40.05	57.71	68.70	82.44	83.70	75.76	61.35	55.60	49.94	37.72	706.42
Kadegaon	26.60	29.63	37.03	39.85	57.83	68.88	82.21	84.11	75.66	61.57	55.75	50.05	37.55	706.72



**Table No. D-61: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	20.07	22.28	27.80	30.02	43.23	51.48	61.80	62.34	56.73	45.88	41.67	37.32	28.13	528.75
Kavathe Mahakal	19.74	22.03	27.91	30.31	43.62	51.82	62.10	65.09	57.25	46.47	41.71	37.92	29.12	535.09
Tasgaon	19.90	22.16	27.85	30.14	43.41	51.64	61.93	63.69	56.97	46.18	41.70	37.62	28.60	531.79
Jath	19.74	22.04	27.88	30.22	43.57	51.83	62.01	64.72	57.08	46.37	41.70	37.76	28.82	533.74
Walwa	19.78	22.07	27.89	30.25	43.56	51.77	62.04	64.70	57.18	46.40	41.71	37.85	28.98	534.19
Shirala	19.42	21.79	28.05	30.68	44.01	52.15	62.48	67.81	57.83	47.00	41.71	38.49	30.20	541.60
Vita	20.07	22.29	27.80	30.01	43.22	51.47	61.80	62.32	56.73	45.90	41.68	37.33	28.14	528.78
Atpadi	19.64	21.97	27.95	30.41	43.74	51.92	62.20	65.92	57.43	46.65	41.72	38.11	29.45	537.11
Palus	20.02	22.25	27.81	30.04	43.28	51.52	61.83	62.78	56.82	46.02	41.70	37.46	28.29	529.82
Kadegaon	19.95	22.22	27.78	29.88	43.37	51.66	61.66	63.08	56.75	46.17	41.81	37.54	28.16	530.04

**Table No. D-62: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	18.89	20.97	26.17	28.26	40.68	48.45	58.17	58.67	53.39	43.19	39.21	35.12	26.48	497.65
Kavathe Mahakal	18.57	20.74	26.27	28.53	41.05	48.77	58.44	61.27	53.88	43.74	39.26	35.69	27.41	503.61
Tasgaon	18.73	20.86	26.21	28.37	40.86	48.60	58.29	59.94	53.62	43.47	39.24	35.41	26.92	500.51
Jath	18.58	20.75	26.24	28.44	41.01	48.78	58.36	60.91	53.72	43.64	39.25	35.54	27.13	502.34
Walwa	18.62	20.78	26.25	28.47	41.00	48.72	58.39	60.89	53.81	43.67	39.26	35.62	27.27	502.76
Shirala	18.28	20.51	26.40	28.88	41.42	49.08	58.80	63.82	54.42	44.23	39.25	36.23	28.42	509.74
Vita	18.89	20.98	26.17	28.25	40.68	48.44	58.17	58.66	53.40	43.20	39.22	35.14	26.49	497.67
Atpadi	18.49	20.67	26.31	28.62	41.16	48.86	58.54	62.05	54.05	43.90	39.27	35.87	27.72	505.51
Palus	18.84	20.94	26.18	28.27	40.73	48.49	58.19	59.08	53.48	43.31	39.25	35.25	26.63	498.65
Kadegaon	18.78	20.91	26.14	28.13	40.82	48.62	58.03	59.37	53.41	43.46	39.35	35.33	26.51	498.86

**Table No. D-63: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	17.84	19.80	24.71	26.69	38.42	45.76	54.94	55.41	50.42	40.79	37.04	33.17	25.01	470.00
Kavathe Mahakal	17.54	19.59	24.81	26.94	38.77	46.06	55.20	57.86	50.89	41.31	37.07	33.71	25.89	475.64
Tasgaon	17.69	19.70	24.76	26.79	38.59	45.90	55.05	56.61	50.64	41.05	37.06	33.44	25.42	472.71
Jath	17.55	19.59	24.78	26.86	38.73	46.07	55.12	57.53	50.74	41.22	37.07	33.57	25.62	474.43
Walwa	17.59	19.62	24.79	26.89	38.72	46.01	55.15	57.51	50.82	41.24	37.08	33.64	25.76	474.83
Shirala	17.26	19.37	24.93	27.27	39.12	46.35	55.53	60.28	51.40	41.78	37.07	34.21	26.84	481.43
Vita	17.84	19.81	24.71	26.68	38.42	45.75	54.93	55.40	50.43	40.80	37.05	33.19	25.01	470.03
Atpadi	17.46	19.52	24.85	27.03	38.88	46.15	55.29	58.60	51.05	41.46	37.08	33.88	26.18	477.43
Palus	17.80	19.78	24.72	26.70	38.47	45.80	54.96	55.80	50.51	40.90	37.07	33.29	25.15	470.95
Kadegaon	17.73	19.75	24.69	26.56	38.55	45.92	54.81	56.07	50.44	41.04	37.16	33.37	25.03	471.14

**Table No. D-64: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Miraj	16.90	18.76	23.41	25.28	36.40	43.35	52.05	52.50	47.77	38.64	35.09	31.42	23.69	445.26
Kavathe Mahakal	16.62	18.56	23.51	25.52	36.73	43.64	52.29	54.82	48.21	39.13	35.12	31.93	24.53	450.60
Tasgaon	16.76	18.66	23.45	25.38	36.56	43.49	52.15	53.63	47.98	38.89	35.11	31.68	24.08	447.83
Jath	16.63	18.56	23.48	25.45	36.69	43.64	52.22	54.50	48.07	39.05	35.12	31.80	24.27	449.46
Walwa	16.66	18.59	23.49	25.48	36.68	43.59	52.25	54.48	48.15	39.07	35.13	31.87	24.40	449.84
Shirala	16.35	18.35	23.62	25.84	37.06	43.91	52.61	57.10	48.70	39.58	35.12	32.41	25.43	456.09
Vita	16.91	18.77	23.41	25.27	36.40	43.34	52.04	52.48	47.78	38.65	35.10	31.44	23.70	445.29
Atpadi	16.54	18.50	23.54	25.61	36.83	43.72	52.38	55.52	48.36	39.28	35.13	32.09	24.80	452.30
Palus	16.86	18.74	23.42	25.29	36.45	43.39	52.07	52.87	47.85	38.75	35.12	31.54	23.83	446.16
Kadegaon	16.80	18.71	23.39	25.17	36.52	43.50	51.92	53.12	47.79	38.88	35.21	31.61	23.72	446.35

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Satara District**

**Table No. D-65: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	16.18	18.07	22.16	23.47	34.85	41.31	48.88	50.31	45.89	37.76	34.06	30.99	23.08	427.00
Jaoli	16.14	17.99	22.15	23.57	34.70	41.24	49.02	49.98	45.65	37.40	33.85	30.58	22.73	424.99
Koregaon	16.01	17.76	22.15	23.77	34.54	41.33	49.17	49.31	44.64	36.24	33.21	29.18	21.40	418.72
Wai	15.89	17.53	22.15	23.97	34.40	41.41	49.34	48.86	43.76	35.21	32.64	27.94	20.24	413.34
Mahabaleshwar	16.16	18.04	22.14	23.49	34.79	41.29	48.93	50.22	45.84	37.68	34.03	30.91	23.00	426.51
Khandala	16.09	17.89	22.15	23.66	34.62	41.27	49.07	49.58	45.16	36.84	33.54	29.90	22.08	421.84
Phaltan	16.16	18.04	22.14	23.48	34.78	41.27	48.93	50.19	45.84	37.68	34.03	30.90	22.98	426.41
Dahivadi	15.79	17.36	22.18	24.09	34.42	41.61	49.50	49.09	43.09	34.48	32.25	27.07	19.38	410.30
Vaduj	16.22	18.05	22.16	23.56	34.49	40.97	49.13	49.44	45.59	37.23	33.77	30.45	22.51	423.55
Patan	16.12	17.92	22.13	23.66	34.45	41.09	49.14	49.10	45.14	36.75	33.50	29.84	21.99	420.83
Karad	16.25	18.05	22.16	23.61	34.30	40.81	49.26	48.96	45.43	36.95	33.61	30.19	22.25	421.83

**Table No. D-66: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	40.45	45.17	55.39	58.66	87.12	103.28	122.20	125.77	114.73	94.39	85.14	77.48	57.70	1067.49
Jaoli	40.34	44.97	55.38	58.93	86.75	103.10	122.55	124.96	114.12	93.49	84.62	76.44	56.82	1062.48
Koregaon	40.03	44.39	55.38	59.44	86.34	103.32	122.92	123.28	111.61	90.61	83.02	72.96	53.51	1046.81
Wai	39.72	43.83	55.39	59.93	86.00	103.53	123.34	122.15	109.39	88.03	81.59	69.85	50.60	1033.34
Mahabaleshwar	40.39	45.09	55.35	58.71	86.97	103.21	122.31	125.56	114.61	94.21	85.08	77.27	57.49	1066.27
Khandala	40.22	44.72	55.38	59.15	86.54	103.17	122.67	123.95	112.90	92.10	83.85	74.76	55.21	1054.60
Phaltan	40.41	45.10	55.35	58.71	86.94	103.17	122.33	125.47	114.60	94.19	85.08	77.25	57.46	1066.04
Dahivadi	39.48	43.39	55.46	60.22	86.04	104.01	123.75	122.72	107.73	86.21	80.63	67.68	48.45	1025.74
Vaduj	40.54	45.12	55.39	58.91	86.21	102.42	122.83	123.59	113.96	93.06	84.42	76.13	56.28	1058.87
Patan	40.31	44.79	55.34	59.15	86.11	102.72	122.84	122.76	112.86	91.87	83.74	74.60	54.98	1052.08
Karad	40.61	45.12	55.39	59.04	85.76	102.03	123.14	122.39	113.58	92.38	84.02	75.47	55.63	1054.57

**Table No. D-67: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	32.36	36.14	44.32	46.93	69.69	82.63	97.76	100.61	91.78	75.52	68.12	61.98	46.16	853.99
Jaoli	32.27	35.98	44.30	47.14	69.40	82.48	98.04	99.97	91.29	74.79	67.70	61.16	45.46	849.98
Koregaon	32.03	35.51	44.30	47.55	69.07	82.66	98.34	98.63	89.29	72.49	66.41	58.37	42.81	837.45
Wai	31.78	35.07	44.31	47.94	68.80	82.82	98.67	97.72	87.51	70.42	65.27	55.88	40.48	826.67
Mahabaleshwar	32.31	36.07	44.28	46.97	69.58	82.57	97.85	100.45	91.69	75.37	68.07	61.81	45.99	853.01
Khandala	32.17	35.78	44.30	47.32	69.23	82.54	98.13	99.16	90.32	73.68	67.08	59.81	44.17	843.68
Phaltan	32.32	36.08	44.28	46.97	69.55	82.53	97.86	100.37	91.68	75.35	68.06	61.80	45.96	852.83
Dahivadi	31.58	34.71	44.37	48.17	68.83	83.21	99.00	98.17	86.18	68.97	64.50	54.14	38.76	820.59
Vaduj	32.43	36.10	44.31	47.13	68.97	81.93	98.27	98.87	91.17	74.45	67.53	60.91	45.02	847.10
Patan	32.25	35.83	44.27	47.32	68.89	82.18	98.27	98.21	90.29	73.50	66.99	59.68	43.99	841.66
Karad	32.49	36.10	44.31	47.23	68.61	81.63	98.52	97.91	90.86	73.90	67.22	60.37	44.51	843.66

**Table No. D-68: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	26.97	30.11	36.93	39.11	58.08	68.85	81.47	83.85	76.49	62.93	56.76	51.65	38.47	711.66
Jaoli	26.89	29.98	36.92	39.29	57.84	68.73	81.70	83.31	76.08	62.33	56.41	50.96	37.88	708.32
Koregaon	26.69	29.59	36.92	39.62	57.56	68.88	81.95	82.19	74.41	60.41	55.34	48.64	35.67	697.87
Wai	26.48	29.22	36.92	39.95	57.33	69.02	82.23	81.43	72.93	58.69	54.39	46.57	33.73	688.90
Mahabaleshwar	26.93	30.06	36.90	39.14	57.98	68.81	81.54	83.71	76.41	62.81	56.72	51.51	38.33	710.85
Khandala	26.81	29.81	36.92	39.43	57.70	68.78	81.78	82.63	75.26	61.40	55.90	49.84	36.81	703.07
Phaltan	26.94	30.07	36.90	39.14	57.96	68.78	81.55	83.64	76.40	62.79	56.72	51.50	38.30	710.69
Dahivadi	26.32	28.93	36.97	40.15	57.36	69.34	82.50	81.81	71.82	57.47	53.75	45.12	32.30	683.83
Vaduj	27.03	30.08	36.93	39.27	57.48	68.28	81.89	82.39	75.98	62.04	56.28	50.75	37.52	705.91
Patan	26.87	29.86	36.89	39.44	57.41	68.48	81.89	81.84	75.24	61.25	55.83	49.73	36.65	701.38
Karad	27.08	30.08	36.93	39.36	57.17	68.02	82.10	81.60	75.72	61.58	56.02	50.31	37.09	703.05



**Table No. D-69: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	20.23	22.59	27.70	29.33	43.56	51.64	61.10	62.88	57.37	47.20	42.57	38.74	28.85	533.75
Jaoli	20.17	22.49	27.69	29.46	43.38	51.55	61.28	62.48	57.06	46.74	42.31	38.22	28.41	531.24
Koregaon	20.02	22.20	27.69	29.72	43.17	51.66	61.46	61.64	55.81	45.31	41.51	36.48	26.76	523.40
Wai	19.86	21.92	27.69	29.96	43.00	51.77	61.67	61.07	54.70	44.01	40.79	34.93	25.30	516.67
Mahabaleshwar	20.20	22.54	27.68	29.36	43.49	51.61	61.16	62.78	57.30	47.11	42.54	38.63	28.74	533.13
Khandala	20.11	22.36	27.69	29.57	43.27	51.59	61.33	61.97	56.45	46.05	41.93	37.38	27.61	527.30
Phaltan	20.20	22.55	27.67	29.35	43.47	51.58	61.16	62.73	57.30	47.09	42.54	38.63	28.73	533.02
Dahivadi	19.74	21.69	27.73	30.11	43.02	52.01	61.87	61.36	53.86	43.10	40.31	33.84	24.22	512.87
Vaduj	20.27	22.56	27.70	29.45	43.11	51.21	61.42	61.80	56.98	46.53	42.21	38.07	28.14	529.44
Patan	20.15	22.39	27.67	29.58	43.06	51.36	61.42	61.38	56.43	45.94	41.87	37.30	27.49	526.04
Karad	20.31	22.56	27.70	29.52	42.88	51.02	61.57	61.20	56.79	46.19	42.01	37.73	27.82	527.29

**Table No. D-70: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	19.04	21.26	26.07	27.61	41.00	48.60	57.51	59.18	53.99	44.42	40.07	36.46	27.15	502.35
Jaoli	18.98	21.16	26.06	27.73	40.83	48.52	57.67	58.81	53.70	43.99	39.82	35.97	26.74	499.99
Koregaon	18.84	20.89	26.06	27.97	40.63	48.62	57.85	58.02	52.52	42.64	39.07	34.33	25.18	492.62
Wai	18.69	20.63	26.06	28.20	40.47	48.72	58.04	57.48	51.48	41.43	38.39	32.87	23.81	486.28
Mahabaleshwar	19.01	21.22	26.05	27.63	40.93	48.57	57.56	59.09	53.93	44.33	40.04	36.36	27.05	501.77
Khandala	18.93	21.04	26.06	27.83	40.73	48.55	57.72	58.33	53.13	43.34	39.46	35.18	25.98	496.28
Phaltan	19.01	21.22	26.05	27.63	40.91	48.55	57.57	59.04	53.93	44.32	40.04	36.35	27.04	501.66
Dahivadi	18.58	20.42	26.10	28.34	40.49	48.95	58.23	57.75	50.69	40.57	37.94	31.85	22.80	482.70
Vaduj	19.08	21.23	26.07	27.72	40.57	48.20	57.80	58.16	53.63	43.79	39.72	35.83	26.48	498.29
Patan	18.97	21.08	26.04	27.84	40.52	48.34	57.81	57.77	53.11	43.24	39.41	35.10	25.87	495.10
Karad	19.11	21.23	26.07	27.78	40.36	48.02	57.95	57.60	53.45	43.47	39.54	35.51	26.18	496.27

**Table No. D-71: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	17.98	20.08	24.62	26.07	38.72	45.90	54.31	55.90	50.99	41.95	37.84	34.43	25.64	474.44
Jaoli	17.93	19.99	24.61	26.19	38.56	45.82	54.47	55.54	50.72	41.55	37.61	33.98	25.25	472.21
Koregaon	17.79	19.73	24.61	26.42	38.37	45.92	54.63	54.79	49.61	40.27	36.90	32.43	23.78	465.25
Wai	17.66	19.48	24.62	26.63	38.22	46.01	54.82	54.29	48.62	39.12	36.26	31.05	22.49	459.26
Mahabaleshwar	17.95	20.04	24.60	26.10	38.66	45.87	54.36	55.80	50.94	41.87	37.82	34.34	25.55	473.90
Khandala	17.87	19.88	24.61	26.29	38.46	45.85	54.52	55.09	50.18	40.93	37.27	33.23	24.54	468.71
Phaltan	17.96	20.04	24.60	26.09	38.64	45.85	54.37	55.76	50.93	41.86	37.81	34.33	25.54	473.79
Dahivadi	17.55	19.28	24.65	26.76	38.24	46.23	55.00	54.54	47.88	38.31	35.83	30.08	21.53	455.88
Vaduj	18.02	20.05	24.62	26.18	38.32	45.52	54.59	54.93	50.65	41.36	37.52	33.84	25.01	470.61
Patan	17.91	19.91	24.59	26.29	38.27	45.65	54.60	54.56	50.16	40.83	37.22	33.15	24.44	467.59
Karad	18.05	20.05	24.62	26.24	38.11	45.35	54.73	54.40	50.48	41.06	37.34	33.54	24.73	468.70

**Table No. D-72: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Satara District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Satara	17.03	19.02	23.32	24.70	36.68	43.49	51.45	52.95	48.31	39.75	35.85	32.62	24.29	449.47
Jaoli	16.99	18.94	23.32	24.81	36.53	43.41	51.60	52.62	48.05	39.36	35.63	32.19	23.92	447.36
Koregaon	16.86	18.69	23.32	25.03	36.35	43.50	51.76	51.91	46.99	38.15	34.95	30.72	22.53	440.76
Wai	16.73	18.46	23.32	25.23	36.21	43.59	51.93	51.43	46.06	37.06	34.35	29.41	21.30	435.09
Mahabaleshwar	17.01	18.98	23.31	24.72	36.62	43.46	51.50	52.87	48.26	39.67	35.83	32.53	24.21	448.95
Khandala	16.93	18.83	23.32	24.90	36.44	43.44	51.65	52.19	47.53	38.78	35.31	31.48	23.25	444.04
Phaltan	17.01	18.99	23.30	24.72	36.61	43.44	51.51	52.83	48.25	39.66	35.82	32.53	24.19	448.86
Dahivadi	16.62	18.27	23.35	25.35	36.23	43.79	52.10	51.67	45.36	36.30	33.95	28.50	20.40	431.89
Vaduj	17.07	19.00	23.32	24.80	36.30	43.12	51.72	52.04	47.98	39.18	35.54	32.06	23.70	445.84
Patan	16.97	18.86	23.30	24.91	36.26	43.25	51.72	51.69	47.52	38.68	35.26	31.41	23.15	442.98
Karad	17.10	19.00	23.32	24.86	36.11	42.96	51.85	51.53	47.82	38.90	35.38	31.78	23.42	444.03

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Solapur District**

**Table No. D-73: Taluka Wise Crop Water Requirement (mm) of Summer Sesame in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	15.85	17.68	22.30	24.16	34.82	41.39	49.60	51.62	45.73	37.13	33.40	30.29	23.14	427.11
Solapur-S	15.90	17.72	22.28	24.11	34.76	41.33	49.55	51.18	45.65	37.04	33.39	30.20	22.98	426.11
Barshi	16.00	17.76	22.15	23.83	34.50	41.27	49.23	49.27	44.80	36.35	33.22	29.31	21.62	419.32
Akkalkot	15.88	17.72	22.27	24.03	34.81	41.40	49.47	51.32	45.65	37.16	33.47	30.29	22.97	426.46
Madha	16.05	17.87	22.18	23.74	34.66	41.28	49.15	49.91	45.33	36.97	33.56	30.06	22.35	423.09
Karmala	15.89	17.72	22.27	24.06	34.76	41.36	49.52	51.20	45.63	37.09	33.43	30.23	22.93	426.09
Pandharpur	16.07	17.90	22.18	23.70	34.69	41.28	49.12	50.04	45.45	37.12	33.64	30.24	22.52	423.95
Mohol	16.11	17.95	22.17	23.63	34.72	41.28	49.06	50.06	45.56	37.28	33.76	30.44	22.65	424.66
Malshiras	16.02	17.85	22.20	23.81	34.68	41.27	49.27	50.34	45.53	37.12	33.58	30.26	22.66	424.60
Sangola	15.97	17.69	22.14	23.87	34.44	41.30	49.24	48.95	44.39	35.91	33.01	28.78	21.07	416.76
Mangalwedha	16.07	17.87	22.16	23.69	34.63	41.29	49.08	49.63	45.14	36.81	33.51	29.86	22.08	421.83

**Table No. D-74: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 40% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	39.63	44.21	55.76	60.40	87.06	103.47	124.00	129.04	114.33	92.82	83.49	75.73	57.85	1067.79
Solapur-S	39.76	44.30	55.71	60.27	86.90	103.33	123.87	127.96	114.11	92.60	83.48	75.50	57.45	1065.27
Barshi	40.01	44.41	55.39	59.58	86.24	103.19	123.07	123.17	112.01	90.87	83.05	73.27	54.04	1048.30
Akkalkot	39.70	44.31	55.67	60.08	87.02	103.50	123.67	128.31	114.14	92.90	83.68	75.73	57.43	1066.14
Madha	40.14	44.68	55.44	59.34	86.64	103.20	122.87	124.78	113.32	92.41	83.89	75.14	55.88	1057.72
Karmala	39.72	44.30	55.68	60.14	86.90	103.40	123.80	128.01	114.08	92.73	83.58	75.57	57.32	1065.23
Pandharpur	40.17	44.75	55.44	59.26	86.72	103.21	122.81	125.10	113.62	92.79	84.10	75.60	56.30	1059.88
Mohol	40.26	44.87	55.42	59.08	86.80	103.20	122.64	125.16	113.91	93.21	84.39	76.09	56.63	1061.66
Malshiras	40.06	44.63	55.51	59.53	86.70	103.17	123.17	125.85	113.83	92.79	83.96	75.64	56.65	1061.49
Sangola	39.93	44.22	55.36	59.67	86.09	103.25	123.09	122.38	110.98	89.78	82.51	71.95	52.67	1041.89
Mangalwedha	40.18	44.68	55.39	59.22	86.57	103.22	122.71	124.08	112.85	92.02	83.78	74.66	55.20	1054.56

**Table No. D-75: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 50% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	31.70	35.36	44.61	48.32	69.65	82.78	99.20	103.23	91.46	74.26	66.80	60.58	46.28	854.23
Solapur-S	31.80	35.44	44.57	48.22	69.52	82.67	99.10	102.37	91.29	74.08	66.79	60.40	45.96	852.21
Barshi	32.01	35.52	44.31	47.66	69.00	82.55	98.46	98.53	89.61	72.70	66.44	58.61	43.23	838.64
Akkalkot	31.76	35.44	44.54	48.06	69.62	82.80	98.94	102.65	91.31	74.32	66.95	60.58	45.94	852.91
Madha	32.11	35.74	44.35	47.47	69.31	82.56	98.29	99.82	90.65	73.93	67.11	60.11	44.71	846.18
Karmala	31.77	35.44	44.54	48.12	69.52	82.72	99.04	102.41	91.27	74.18	66.86	60.45	45.85	852.19
Pandharpur	32.14	35.80	44.35	47.41	69.38	82.57	98.24	100.08	90.90	74.23	67.28	60.48	45.04	847.91
Mohol	32.21	35.90	44.34	47.26	69.44	82.56	98.11	100.13	91.13	74.57	67.51	60.87	45.31	849.33
Malshiras	32.05	35.71	44.41	47.62	69.36	82.54	98.54	100.68	91.06	74.23	67.17	60.51	45.32	849.19
Sangola	31.95	35.38	44.29	47.73	68.88	82.60	98.47	97.90	88.79	71.82	66.01	57.56	42.13	833.51
Mangalwedha	32.14	35.74	44.32	47.38	69.26	82.57	98.17	99.27	90.28	73.62	67.02	59.73	44.16	843.65

**Table No. D-76: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Surface Irrigation at 60% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	26.42	29.47	37.17	40.27	58.04	68.98	82.66	86.03	76.22	61.88	55.66	50.49	38.57	711.86
Solapur-S	26.50	29.54	37.14	40.18	57.94	68.89	82.58	85.31	76.08	61.74	55.66	50.34	38.30	710.18
Barshi	26.67	29.60	36.92	39.72	57.50	68.79	82.05	82.11	74.67	60.58	55.37	48.85	36.03	698.86
Akkalkot	26.47	29.54	37.11	40.05	58.02	69.00	82.45	85.54	76.09	61.93	55.79	50.49	38.29	710.76
Madha	26.76	29.78	36.96	39.56	57.76	68.80	81.91	83.18	75.54	61.61	55.93	50.09	37.26	705.15
Karmala	26.48	29.53	37.12	40.10	57.94	68.93	82.54	85.34	76.05	61.82	55.72	50.38	38.21	710.15
Pandharpur	26.78	29.83	36.96	39.51	57.82	68.81	81.87	83.40	75.75	61.86	56.07	50.40	37.53	706.59
Mohol	26.84	29.92	36.95	39.39	57.87	68.80	81.76	83.44	75.94	62.14	56.26	50.73	37.76	707.77
Malshiras	26.71	29.76	37.01	39.69	57.80	68.78	82.11	83.90	75.89	61.86	55.97	50.43	37.77	707.66
Sangola	26.62	29.48	36.91	39.78	57.40	68.83	82.06	81.58	73.99	59.85	55.01	47.97	35.11	694.59
Mangalwedha	26.79	29.78	36.93	39.48	57.71	68.81	81.81	82.72	75.24	61.35	55.85	49.77	36.80	703.04



**Table No. D-77: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 80% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	19.81	22.10	27.88	30.20	43.53	51.74	62.00	64.52	57.16	46.41	41.75	37.87	28.93	533.89
Solapur-S	19.88	22.15	27.86	30.14	43.45	51.67	61.94	63.98	57.06	46.30	41.74	37.75	28.73	532.63
Barshi	20.00	22.20	27.69	29.79	43.12	51.59	61.54	61.58	56.00	45.44	41.53	36.63	27.02	524.15
Akkalkot	19.85	22.15	27.83	30.04	43.51	51.75	61.84	64.16	57.07	46.45	41.84	37.86	28.71	533.07
Madha	20.07	22.34	27.72	29.67	43.32	51.60	61.43	62.39	56.66	46.21	41.95	37.57	27.94	528.86
Karmala	19.86	22.15	27.84	30.07	43.45	51.70	61.90	64.01	57.04	46.36	41.79	37.78	28.66	532.62
Pandharpur	20.09	22.37	27.72	29.63	43.36	51.61	61.40	62.55	56.81	46.40	42.05	37.80	28.15	529.94
Mohol	20.13	22.44	27.71	29.54	43.40	51.60	61.32	62.58	56.95	46.60	42.19	38.05	28.32	530.83
Malshiras	20.03	22.32	27.75	29.76	43.35	51.59	61.59	62.92	56.91	46.40	41.98	37.82	28.32	530.75
Sangola	19.97	22.11	27.68	29.83	43.05	51.63	61.54	61.19	55.49	44.89	41.26	35.98	26.33	520.94
Mangalwedha	20.09	22.34	27.70	29.61	43.29	51.61	61.36	62.04	56.43	46.01	41.89	37.33	27.60	527.28

**Table No. D-78: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Sprinkler Irrigation at 85% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	18.65	20.80	26.24	28.42	40.97	48.69	58.35	60.73	53.80	43.68	39.29	35.64	27.22	502.49
Solapur-S	18.71	20.85	26.22	28.36	40.90	48.63	58.29	60.22	53.70	43.58	39.29	35.53	27.04	501.30
Barshi	18.83	20.90	26.06	28.04	40.59	48.56	57.92	57.96	52.71	42.76	39.08	34.48	25.43	493.32
Akkalkot	18.68	20.85	26.20	28.27	40.95	48.71	58.20	60.38	53.71	43.72	39.38	35.64	27.03	501.71
Madha	18.89	21.02	26.09	27.92	40.77	48.57	57.82	58.72	53.33	43.49	39.48	35.36	26.30	497.75
Karmala	18.69	20.85	26.20	28.30	40.90	48.66	58.26	60.24	53.69	43.64	39.33	35.56	26.97	501.29
Pandharpur	18.91	21.06	26.09	27.89	40.81	48.57	57.79	58.87	53.47	43.67	39.58	35.58	26.49	498.77
Mohol	18.95	21.12	26.08	27.80	40.85	48.56	57.71	58.90	53.60	43.86	39.71	35.81	26.65	499.61
Malshiras	18.85	21.00	26.12	28.01	40.80	48.55	57.96	59.22	53.57	43.67	39.51	35.60	26.66	499.53
Sangola	18.79	20.81	26.05	28.08	40.52	48.59	57.92	57.59	52.23	42.25	38.83	33.86	24.78	490.30
Mangalwedha	18.91	21.02	26.07	27.87	40.74	48.57	57.75	58.39	53.11	43.30	39.42	35.13	25.98	496.27

**Table No. D-79: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 90% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	17.61	19.65	24.78	26.84	38.69	45.99	55.11	57.35	50.81	41.25	37.11	33.66	25.71	474.57
Solapur-S	17.67	19.69	24.76	26.79	38.62	45.93	55.05	56.87	50.72	41.16	37.10	33.56	25.53	473.45
Barshi	17.78	19.74	24.62	26.48	38.33	45.86	54.70	54.74	49.78	40.39	36.91	32.56	24.02	465.91
Akkalkot	17.65	19.69	24.74	26.70	38.68	46.00	54.97	57.03	50.73	41.29	37.19	33.66	25.52	473.84
Madha	17.84	19.86	24.64	26.37	38.51	45.87	54.61	55.46	50.36	41.07	37.28	33.40	24.84	470.10
Karmala	17.65	19.69	24.75	26.73	38.62	45.96	55.02	56.89	50.70	41.21	37.15	33.58	25.47	473.44
Pandharpur	17.86	19.89	24.64	26.34	38.54	45.87	54.58	55.60	50.50	41.24	37.38	33.60	25.02	471.06
Mohol	17.89	19.94	24.63	26.26	38.58	45.87	54.51	55.63	50.63	41.43	37.51	33.82	25.17	471.85
Malshiras	17.80	19.84	24.67	26.46	38.53	45.85	54.74	55.93	50.59	41.24	37.32	33.62	25.18	471.77
Sangola	17.75	19.65	24.61	26.52	38.26	45.89	54.71	54.39	49.33	39.90	36.67	31.98	23.41	463.06
Mangalwedha	17.86	19.86	24.62	26.32	38.48	45.87	54.54	55.15	50.16	40.90	37.23	33.18	24.53	468.69

**Table No. D-80: Taluka Wise Irrigation Water Requirement (mm) of Summer Sesame by Drip Irrigation at 95% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
Solapur-N	16.68	18.61	23.48	25.43	36.66	43.57	52.21	54.33	48.14	39.08	35.16	31.89	24.36	449.59
Solapur-S	16.74	18.65	23.46	25.38	36.59	43.51	52.16	53.88	48.05	38.99	35.15	31.79	24.19	448.53
Barshi	16.85	18.70	23.32	25.09	36.31	43.45	51.82	51.86	47.16	38.26	34.97	30.85	22.76	441.39
Akkalkot	16.72	18.65	23.44	25.29	36.64	43.58	52.07	54.03	48.06	39.11	35.24	31.89	24.18	448.90
Madha	16.90	18.81	23.34	24.98	36.48	43.45	51.73	52.54	47.71	38.91	35.32	31.64	23.53	445.36
Karmala	16.72	18.65	23.44	25.32	36.59	43.54	52.13	53.90	48.03	39.04	35.19	31.82	24.13	448.52
Pandharpur	16.92	18.84	23.34	24.95	36.52	43.46	51.71	52.67	47.84	39.07	35.41	31.83	23.70	446.27
Mohol	16.95	18.89	23.34	24.88	36.55	43.45	51.64	52.70	47.96	39.25	35.53	32.04	23.85	447.02
Malshiras	16.87	18.79	23.37	25.07	36.50	43.44	51.86	52.99	47.93	39.07	35.35	31.85	23.85	446.94
Sangola	16.81	18.62	23.31	25.12	36.25	43.47	51.83	51.53	46.73	37.80	34.74	30.30	22.18	438.69
Mangalwedha	16.92	18.81	23.32	24.93	36.45	43.46	51.67	52.24	47.52	38.75	35.27	31.44	23.24	444.03

## **Appendix - E**

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra (with 2 cuts) by Different Irrigation Methods, Ignoring Effective Rainfall in Ten Districts of Western Maharashtra**

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Ahmednagar District**

**Table No. E-1: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Ahmednagar District Table**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	14.0	24.6	41.2	54.7	67.6	63.7	50.4	21.8	26.4	37.7	51.4	50.3	37.8	<b>541.4</b>
<b>Shevgaon</b>	13.9	24.6	41.1	54.6	67.6	63.7	50.4	21.8	26.4	37.7	51.3	50.3	37.7	<b>541.2</b>
<b>Pathardi</b>	14.0	24.5	41.5	55.7	68.4	63.0	49.5	22.0	26.1	37.0	50.7	49.9	37.9	<b>540.4</b>
<b>Parner</b>	14.8	25.9	41.8	54.4	68.5	63.3	50.4	22.3	27.6	39.6	53.3	55.9	43.1	<b>560.8</b>
<b>Sangamner</b>	15.0	26.2	42.1	54.9	69.5	63.3	50.3	22.6	28.0	40.0	53.7	57.2	45.4	<b>568.2</b>
<b>Kopargaon</b>	14.4	25.3	41.5	54.6	68.0	63.7	50.5	21.8	26.9	38.4	52.3	52.7	39.8	<b>549.9</b>
<b>Akole</b>	14.3	25.0	41.6	55.1	68.3	63.9	50.3	21.7	26.6	37.8	51.7	51.1	38.5	<b>545.7</b>
<b>Shrirampur</b>	15.3	26.6	42.5	55.4	70.5	63.5	50.4	22.5	28.5	40.4	54.2	58.4	47.9	<b>576.2</b>
<b>Newasa</b>	15.0	26.2	41.9	54.5	68.6	63.7	50.7	21.8	27.7	39.5	53.4	55.9	43.0	<b>561.9</b>
<b>Rahata</b>	14.6	25.5	41.8	54.8	68.3	64.2	50.7	21.5	27.0	38.4	52.4	52.3	39.4	<b>550.9</b>
<b>Rahuri</b>	15.2	26.4	42.3	55.2	69.8	63.6	50.4	22.2	28.1	39.9	53.7	57.0	45.6	<b>569.5</b>
<b>Shrigonda</b>	15.0	26.2	41.8	54.2	68.0	63.9	50.9	21.5	27.6	39.3	53.4	55.2	41.8	<b>558.8</b>
<b>karjat</b>	15.4	26.7	42.6	55.6	70.8	63.5	50.3	22.6	28.7	40.5	54.3	58.7	48.7	<b>578.4</b>
<b>Jamkhed</b>	15.2	26.5	41.8	54.1	68.1	63.8	50.9	21.6	27.8	39.7	53.8	56.4	42.9	<b>562.7</b>

**Table No. E-2: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	34.9	61.5	102.9	136.6	169.1	159.3	125.9	54.5	65.9	94.3	128.4	125.8	94.4	<b>1353.5</b>
<b>Shevgaon</b>	34.9	61.4	102.9	136.6	169.0	159.3	125.9	54.5	65.9	94.3	128.3	125.7	94.2	<b>1353.0</b>
<b>Pathardi</b>	35.0	61.2	103.8	139.3	171.1	157.6	123.7	55.0	65.2	92.6	126.9	124.9	94.9	<b>1351.0</b>
<b>Parner</b>	37.0	64.8	104.4	136.0	171.3	158.2	126.0	55.8	69.0	98.9	133.2	139.7	107.7	<b>1402.0</b>
<b>Sangamner</b>	37.5	65.5	105.2	137.1	173.7	158.2	125.7	56.4	70.1	100.0	134.3	143.0	113.6	<b>1420.5</b>
<b>Kopargaon</b>	36.1	63.3	103.7	136.5	170.0	159.2	126.2	54.5	67.3	96.1	130.7	131.7	99.5	<b>1374.8</b>
<b>Akole</b>	35.6	62.5	104.1	137.7	170.8	159.7	125.7	54.2	66.4	94.5	129.2	127.7	96.2	<b>1364.3</b>
<b>Shrirampur</b>	38.3	66.6	106.3	138.5	176.2	158.8	125.9	56.4	71.3	101.1	135.5	146.0	119.7	<b>1440.6</b>
<b>Newasa</b>	37.6	65.6	104.7	136.2	171.4	159.3	126.6	54.5	69.3	98.8	133.6	139.7	107.5	<b>1404.9</b>
<b>Rahata</b>	36.4	63.8	104.6	137.0	170.8	160.5	126.9	53.6	67.5	95.9	131.0	130.8	98.4	<b>1377.3</b>
<b>Rahuri</b>	38.0	66.1	105.7	137.9	174.5	159.1	126.1	55.5	70.3	99.8	134.4	142.5	114.1	<b>1423.8</b>
<b>Shrigonda</b>	37.5	65.6	104.4	135.5	170.0	159.9	127.3	53.7	69.0	98.3	133.5	138.1	104.4	<b>1397.1</b>
<b>karjat</b>	38.5	66.8	106.6	138.9	176.9	158.7	125.8	56.4	71.7	101.3	135.8	146.9	121.6	<b>1446.0</b>
<b>Jamkhed</b>	38.0	66.3	104.5	135.3	170.3	159.6	127.3	53.9	69.6	99.2	134.4	141.0	107.3	<b>1406.6</b>

**Table No. E-3: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	27.9	49.2	82.3	109.3	135.3	127.4	100.7	43.6	52.8	75.4	102.7	100.7	75.5	<b>1082.8</b>
<b>Shevgaon</b>	27.9	49.1	82.3	109.3	135.2	127.4	100.7	43.6	52.7	75.4	102.7	100.6	75.4	<b>1082.4</b>
<b>Pathardi</b>	28.0	49.0	83.1	111.5	136.9	126.1	98.9	44.0	52.2	74.1	101.5	99.9	75.9	<b>1080.8</b>
<b>Parner</b>	29.6	51.8	83.5	108.8	137.1	126.6	100.8	44.6	55.2	79.1	106.6	111.8	86.2	<b>1121.6</b>
<b>Sangamner</b>	30.0	52.4	84.2	109.7	139.0	126.6	100.6	45.1	56.1	80.0	107.5	114.4	90.9	<b>1136.4</b>
<b>Kopargaon</b>	28.8	50.6	83.0	109.2	136.0	127.4	101.0	43.6	53.9	76.9	104.5	105.4	79.6	<b>1099.8</b>
<b>Akole</b>	28.5	50.0	83.3	110.2	136.6	127.7	100.6	43.4	53.2	75.6	103.4	102.2	76.9	<b>1091.5</b>
<b>Shrirampur</b>	30.7	53.3	85.0	110.8	141.0	127.0	100.7	45.1	57.0	80.9	108.4	116.8	95.7	<b>1152.5</b>
<b>Newasa</b>	30.1	52.5	83.7	109.0	137.1	127.5	101.3	43.6	55.4	79.0	106.9	111.7	86.0	<b>1123.9</b>
<b>Rahata</b>	29.1	51.1	83.7	109.6	136.7	128.4	101.5	42.9	54.0	76.7	104.8	104.7	78.7	<b>1101.8</b>
<b>Rahuri</b>	30.4	52.8	84.5	110.3	139.6	127.3	100.9	44.4	56.2	79.8	107.5	114.0	91.3	<b>1139.1</b>
<b>Shrigonda</b>	30.0	52.5	83.5	108.4	136.0	127.9	101.9	43.0	55.2	78.6	106.8	110.5	83.5	<b>1117.7</b>
<b>karjat</b>	30.8	53.5	85.2	111.1	141.5	127.0	100.7	45.1	57.3	81.1	108.7	117.5	97.3	<b>1156.8</b>
<b>Jamkhed</b>	30.4	53.0	83.6	108.2	136.2	127.7	101.8	43.1	55.7	79.4	107.5	112.8	85.9	<b>1125.3</b>



**Table No. E-4: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	23.3	35.5	57.2	112.1	128.0	131.9	126.4	55.6	62.1	88.0	126.9	140.9	106.8	<b>1194.5</b>
<b>Shevgaon</b>	34.8	41.0	68.6	91.1	112.7	106.2	83.9	36.3	43.9	62.8	85.6	83.8	62.8	<b>913.5</b>
<b>Pathardi</b>	39.2	40.8	69.2	92.9	114.1	105.1	82.4	36.7	43.5	61.7	84.6	83.2	63.2	<b>916.6</b>
<b>Parner</b>	45.7	43.2	69.6	90.7	114.2	105.5	84.0	37.2	46.0	65.9	88.8	93.2	71.8	<b>955.8</b>
<b>Sangamner</b>	46.3	43.7	70.2	91.4	115.8	105.5	83.8	37.6	46.7	66.7	89.6	95.4	75.7	<b>968.3</b>
<b>Kopargaon</b>	47.5	42.2	69.1	91.0	113.3	106.2	84.1	36.3	44.9	64.1	87.1	87.8	66.4	<b>940.0</b>
<b>Akole</b>	45.3	41.7	69.4	91.8	113.8	106.4	83.8	36.1	44.3	63.0	86.2	85.1	64.1	<b>931.1</b>
<b>Shrirampur</b>	45.2	44.4	70.9	92.3	117.5	105.9	83.9	37.6	47.5	67.4	90.4	97.3	79.8	<b>980.0</b>
<b>Newasa</b>	25.1	43.7	69.8	90.8	114.3	106.2	84.4	36.4	46.2	65.9	89.1	93.1	71.7	<b>936.6</b>
<b>Rahata</b>	45.9	42.5	69.7	91.4	113.9	107.0	84.6	35.8	45.0	63.9	87.4	87.2	65.6	<b>939.9</b>
<b>Rahuri</b>	47.7	44.0	70.4	91.9	116.3	106.1	84.0	37.0	46.9	66.5	89.6	95.0	76.1	<b>971.6</b>
<b>Shrigonda</b>	43.8	43.7	69.6	90.3	113.3	106.6	84.9	35.8	46.0	65.5	89.0	92.1	69.6	<b>950.2</b>
<b>karjat</b>	44.6	44.6	71.0	92.6	117.9	105.8	83.9	37.6	47.8	67.5	90.5	97.9	81.1	<b>982.9</b>
<b>Jamkhed</b>	43.9	44.2	69.7	90.2	113.5	106.4	84.9	35.9	46.4	66.2	89.6	94.0	71.6	<b>956.3</b>

**Table No. E-5: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	17.4	30.7	51.5	68.3	84.5	79.6	62.9	27.3	33.0	47.1	64.2	62.9	47.2	<b>676.8</b>
<b>Shevgaon</b>	17.4	30.7	51.4	68.3	84.5	79.6	63.0	27.3	33.0	47.1	64.2	62.8	47.1	<b>676.5</b>
<b>Pathardi</b>	17.5	30.6	51.9	69.7	85.5	78.8	61.8	27.5	32.6	46.3	63.4	62.4	47.4	<b>675.5</b>
<b>Parner</b>	18.5	32.4	52.2	68.0	85.7	79.1	63.0	27.9	34.5	49.4	66.6	69.9	53.9	<b>701.0</b>
<b>Sangamner</b>	18.7	32.7	52.6	68.6	86.9	79.1	62.9	28.2	35.0	50.0	67.2	71.5	56.8	<b>710.3</b>
<b>Kopargaoon</b>	18.0	31.6	51.9	68.2	85.0	79.6	63.1	27.2	33.7	48.0	65.3	65.9	49.8	<b>687.4</b>
<b>Akole</b>	17.8	31.3	52.1	68.9	85.4	79.8	62.9	27.1	33.2	47.2	64.6	63.8	48.1	<b>682.2</b>
<b>Shrirampur</b>	19.2	33.3	53.1	69.2	88.1	79.4	62.9	28.2	35.7	50.5	67.8	73.0	59.8	<b>720.3</b>
<b>Newasa</b>	18.8	32.8	52.3	68.1	85.7	79.7	63.3	27.3	34.6	49.4	66.8	69.8	53.7	<b>702.4</b>
<b>Rahata</b>	18.2	31.9	52.3	68.5	85.4	80.3	63.4	26.8	33.7	47.9	65.5	65.4	49.2	<b>688.7</b>
<b>Rahuri</b>	19.0	33.0	52.8	68.9	87.2	79.5	63.0	27.8	35.1	49.9	67.2	71.3	57.1	<b>711.9</b>
<b>Shrigonda</b>	18.8	32.8	52.2	67.7	85.0	79.9	63.7	26.9	34.5	49.2	66.7	69.0	52.2	<b>698.6</b>
<b>karjat</b>	19.3	33.4	53.3	69.5	88.5	79.4	62.9	28.2	35.8	50.7	67.9	73.4	60.8	<b>723.0</b>
<b>Jamkhed</b>	19.0	33.1	52.2	67.6	85.1	79.8	63.7	27.0	34.8	49.6	67.2	70.5	53.7	<b>703.3</b>

**Table No. E-6: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	16.4	28.9	48.4	64.3	79.6	75.0	59.2	25.7	31.0	44.4	60.4	59.2	44.4	<b>637.0</b>
<b>Shevgaon</b>	16.4	28.9	48.4	64.3	79.6	75.0	59.3	25.7	31.0	44.4	60.4	59.2	44.4	<b>636.7</b>
<b>Pathardi</b>	16.5	28.8	48.9	65.6	80.5	74.2	58.2	25.9	30.7	43.6	59.7	58.8	44.6	<b>635.8</b>
<b>Parner</b>	17.4	30.5	49.1	64.0	80.6	74.4	59.3	26.2	32.5	46.5	62.7	65.8	50.7	<b>659.8</b>
<b>Sangamner</b>	17.6	30.8	49.5	64.5	81.7	74.4	59.2	26.5	33.0	47.1	63.2	67.3	53.5	<b>668.5</b>
<b>Kopargaoon</b>	17.0	29.8	48.8	64.2	80.0	74.9	59.4	25.6	31.7	45.2	61.5	62.0	46.8	<b>647.0</b>
<b>Akole</b>	16.8	29.4	49.0	64.8	80.4	75.1	59.2	25.5	31.3	44.5	60.8	60.1	45.2	<b>642.0</b>
<b>Shrirampur</b>	18.0	31.3	50.0	65.2	82.9	74.7	59.2	26.5	33.6	47.6	63.8	68.7	56.3	<b>677.9</b>
<b>Newasa</b>	17.7	30.9	49.3	64.1	80.7	75.0	59.6	25.7	32.6	46.5	62.9	65.7	50.6	<b>661.1</b>
<b>Rahata</b>	17.1	30.0	49.2	64.5	80.4	75.6	59.7	25.2	31.7	45.1	61.7	61.6	46.3	<b>648.1</b>
<b>Rahuri</b>	17.9	31.1	49.7	64.9	82.1	74.9	59.3	26.1	33.1	47.0	63.2	67.1	53.7	<b>670.0</b>
<b>Shrigonda</b>	17.7	30.9	49.1	63.8	80.0	75.2	59.9	25.3	32.4	46.3	62.8	65.0	49.1	<b>657.5</b>
<b>karjat</b>	18.1	31.5	50.1	65.4	83.3	74.7	59.2	26.5	33.7	47.7	63.9	69.1	57.2	<b>680.5</b>
<b>Jamkhed</b>	17.9	31.2	49.2	63.7	80.1	75.1	59.9	25.4	32.7	46.7	63.3	66.3	50.5	<b>661.9</b>

**Table No. E-7: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	15.5	27.3	45.7	60.7	75.2	70.8	56.0	24.2	29.3	41.9	57.1	55.9	42.0	<b>601.6</b>
<b>Shevgaon</b>	15.5	27.3	45.7	60.7	75.1	70.8	56.0	24.2	29.3	41.9	57.0	55.9	41.9	<b>601.3</b>
<b>Pathardi</b>	15.5	27.2	46.1	61.9	76.0	70.0	55.0	24.4	29.0	41.2	56.4	55.5	42.2	<b>600.4</b>
<b>Parner</b>	16.4	28.8	46.4	60.4	76.1	70.3	56.0	24.8	30.7	43.9	59.2	62.1	47.9	<b>623.1</b>
<b>Sangamner</b>	16.7	29.1	46.8	61.0	77.2	70.3	55.9	25.1	31.2	44.5	59.7	63.6	50.5	<b>631.3</b>
<b>Kopargaon</b>	16.0	28.1	46.1	60.6	75.5	70.8	56.1	24.2	29.9	42.7	58.1	58.5	44.2	<b>611.0</b>
<b>Akole</b>	15.8	27.8	46.3	61.2	75.9	71.0	55.9	24.1	29.5	42.0	57.4	56.8	42.7	<b>606.4</b>
<b>Shrirampur</b>	17.0	29.6	47.2	61.5	78.3	70.6	56.0	25.1	31.7	44.9	60.2	64.9	53.2	<b>640.3</b>
<b>Newasa</b>	16.7	29.2	46.5	60.5	76.2	70.8	56.3	24.2	30.8	43.9	59.4	62.1	47.8	<b>624.4</b>
<b>Rahata</b>	16.2	28.4	46.5	60.9	75.9	71.4	56.4	23.8	30.0	42.6	58.2	58.2	43.7	<b>612.1</b>
<b>Rahuri</b>	16.9	29.4	47.0	61.3	77.5	70.7	56.0	24.7	31.2	44.3	59.7	63.4	50.7	<b>632.8</b>
<b>Shrigonda</b>	16.7	29.2	46.4	60.2	75.5	71.0	56.6	23.9	30.6	43.7	59.3	61.4	46.4	<b>620.9</b>
<b>karjat</b>	17.1	29.7	47.4	61.7	78.6	70.5	55.9	25.1	31.8	45.0	60.4	65.3	54.1	<b>642.7</b>
<b>Jamkhed</b>	16.9	29.5	46.4	60.1	75.7	70.9	56.6	24.0	30.9	44.1	59.7	62.7	47.7	<b>625.2</b>

**Table No. E-8: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Ahmednagar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nagar</b>	14.7	25.9	43.3	57.5	71.2	67.1	53.0	23.0	27.8	39.7	54.1	53.0	39.7	<b>569.9</b>
<b>Shevgaon</b>	14.7	25.9	43.3	57.5	71.2	67.1	53.0	23.0	27.8	39.7	54.0	52.9	39.7	<b>569.7</b>
<b>Pathardi</b>	14.7	25.8	43.7	58.7	72.0	66.3	52.1	23.1	27.5	39.0	53.4	52.6	39.9	<b>568.8</b>
<b>Parner</b>	15.6	27.3	44.0	57.3	72.1	66.6	53.0	23.5	29.1	41.6	56.1	58.8	45.4	<b>590.3</b>
<b>Sangamner</b>	15.8	27.6	44.3	57.7	73.1	66.6	52.9	23.7	29.5	42.1	56.6	60.2	47.8	<b>598.1</b>
<b>Kopargaoon</b>	15.2	26.6	43.7	57.5	71.6	67.0	53.1	22.9	28.3	40.5	55.0	55.5	41.9	<b>578.9</b>
<b>Akole</b>	15.0	26.3	43.8	58.0	71.9	67.2	52.9	22.8	28.0	39.8	54.4	53.8	40.5	<b>574.5</b>
<b>Shrirampur</b>	16.1	28.0	44.7	58.3	74.2	66.9	53.0	23.7	30.0	42.6	57.1	61.5	50.4	<b>606.6</b>
<b>Newasa</b>	15.8	27.6	44.1	57.4	72.2	67.1	53.3	23.0	29.2	41.6	56.3	58.8	45.3	<b>591.5</b>
<b>Rahata</b>	15.3	26.9	44.0	57.7	71.9	67.6	53.4	22.6	28.4	40.4	55.2	55.1	41.4	<b>579.9</b>
<b>Rahuri</b>	16.0	27.8	44.5	58.1	73.5	67.0	53.1	23.4	29.6	42.0	56.6	60.0	48.1	<b>599.5</b>
<b>Shrigonda</b>	15.8	27.6	44.0	57.0	71.6	67.3	53.6	22.6	29.0	41.4	56.2	58.1	44.0	<b>588.3</b>
<b>karjat</b>	16.2	28.1	44.9	58.5	74.5	66.8	53.0	23.7	30.2	42.7	57.2	61.8	51.2	<b>608.9</b>
<b>Jamkhed</b>	16.0	27.9	44.0	57.0	71.7	67.2	53.6	22.7	29.3	41.8	56.6	59.4	45.2	<b>592.3</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Dhule District**

**Table No. E-9: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	15.9	27.1	42.7	56.1	70.9	67.1	51.0	20.3	27.3	38.8	53.2	53.3	40.5	<b>564.2</b>
<b>Sakri</b>	16.0	27.2	43.6	56.7	72.0	67.9	51.0	19.6	26.8	38.1	51.9	52.2	39.7	<b>562.6</b>
<b>Sindkheda</b>	16.0	27.2	43.5	56.7	71.8	67.8	51.0	19.6	26.8	38.0	51.8	52.1	39.6	<b>561.8</b>
<b>Shirpur</b>	15.8	26.9	43.1	56.1	70.9	66.7	50.8	19.9	26.8	38.0	51.7	52.1	39.6	<b>558.2</b>

**Table No. E-10: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	39.7	67.6	106.7	140.3	177.2	167.6	127.6	50.7	68.3	97.0	133.1	133.4	101.4	<b>1410.4</b>
<b>Sakri</b>	40.1	68.0	109.0	141.8	179.9	169.7	127.5	49.1	67.1	95.1	129.7	130.5	99.2	<b>1406.5</b>
<b>Sindkheda</b>	40.0	67.9	108.8	141.7	179.6	169.4	127.4	49.1	67.1	95.0	129.5	130.2	99.0	<b>1404.6</b>
<b>Shirpur</b>	39.4	67.2	107.6	140.3	177.3	166.8	126.9	49.8	67.1	94.9	129.2	130.2	98.9	<b>1395.5</b>

**Table No. E-11: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	31.7	54.1	85.3	112.2	141.7	134.1	102.1	40.6	54.7	77.6	106.5	106.7	81.1	<b>1128.3</b>
<b>Sakri</b>	32.0	54.4	87.2	113.4	143.9	135.7	102.0	39.3	53.7	76.1	103.7	104.4	79.4	<b>1125.2</b>
<b>Sindkheda</b>	32.0	54.3	87.1	113.3	143.7	135.5	101.9	39.3	53.6	76.0	103.6	104.1	79.2	<b>1123.7</b>

<b>Shirpur</b>	31.5	53.7	86.1	112.2	141.8	133.4	101.5	39.8	53.7	75.9	103.4	104.1	79.1	<b>1116.4</b>
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**Table No. E-12: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	26.44	45.09	71.10	93.53	118.11	111.76	85.06	33.82	45.55	64.64	88.72	88.91	67.57	<b>940.3</b>
<b>Sakri</b>	26.71	45.30	72.65	94.52	119.93	113.12	85.01	32.72	44.73	63.42	86.45	86.97	66.16	<b>937.7</b>
<b>Sindkheda</b>	26.68	45.25	72.55	94.44	119.73	112.94	84.94	32.71	44.70	63.33	86.34	86.78	65.99	<b>936.4</b>
<b>Shirpur</b>	26.26	44.78	71.76	93.53	118.18	111.19	84.58	33.20	44.73	63.25	86.15	86.78	65.95	<b>930.4</b>

**Table No. E-13: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	19.8	33.8	53.3	70.1	88.6	83.8	63.8	25.4	34.2	48.5	66.5	66.7	50.7	<b>705.2</b>
<b>Sakri</b>	20.0	34.0	54.5	70.9	90.0	84.8	63.8	24.5	33.6	47.6	64.8	65.2	49.6	<b>703.3</b>
<b>Sindkheda</b>	20.0	33.9	54.4	70.8	89.8	84.7	63.7	24.5	33.5	47.5	64.8	65.1	49.5	<b>702.3</b>
<b>Shirpur</b>	19.7	33.6	53.8	70.1	88.6	83.4	63.4	24.9	33.6	47.4	64.6	65.1	49.5	<b>697.8</b>

**Table No. E-14: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	18.7	31.8	50.2	66.0	83.4	78.9	60.0	23.9	32.2	45.6	62.6	62.8	47.7	<b>663.7</b>
<b>Sakri</b>	18.9	32.0	51.3	66.7	84.7	79.8	60.0	23.1	31.6	44.8	61.0	61.4	46.7	<b>661.9</b>
<b>Sindkheda</b>	18.8	31.9	51.2	66.7	84.5	79.7	60.0	23.1	31.6	44.7	60.9	61.3	46.6	<b>661.0</b>

<b>Shirpur</b>	18.5	31.6	50.7	66.0	83.4	78.5	59.7	23.4	31.6	44.6	60.8	61.3	46.6	<b>656.7</b>
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**Table No. E-15: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	17.6	30.1	47.4	62.4	78.7	74.5	56.7	22.5	30.4	43.1	59.1	59.3	45.0	<b>626.9</b>
<b>Sakri</b>	17.8	30.2	48.4	63.0	80.0	75.4	56.7	21.8	29.8	42.3	57.6	58.0	44.1	<b>625.1</b>
<b>Sindkheda</b>	17.8	30.2	48.4	63.0	79.8	75.3	56.6	21.8	29.8	42.2	57.6	57.9	44.0	<b>624.3</b>
<b>Shirpur</b>	17.5	29.9	47.8	62.4	78.8	74.1	56.4	22.1	29.8	42.2	57.4	57.9	44.0	<b>620.2</b>

**Table No. E-16: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Dhule District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Dhule</b>	16.7	28.5	44.9	59.1	74.6	70.6	53.7	21.4	28.8	40.8	56.0	56.2	42.7	<b>593.9</b>
<b>Sakri</b>	16.9	28.6	45.9	59.7	75.7	71.4	53.7	20.7	28.3	40.1	54.6	54.9	41.8	<b>592.2</b>
<b>Sindkheda</b>	16.8	28.6	45.8	59.6	75.6	71.3	53.6	20.7	28.2	40.0	54.5	54.8	41.7	<b>591.4</b>
<b>Shirpur</b>	16.6	28.3	45.3	59.1	74.6	70.2	53.4	21.0	28.3	39.9	54.4	54.8	41.7	<b>587.6</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Jalgaon District**

**Table No. E-17: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	15.5	26.9	42.7	55.8	71.0	63.8	50.4	22.3	28.6	40.4	54.2	58.3	48.3	<b>578.2</b>
<b>Jamner</b>	15.3	26.5	41.8	54.8	69.1	65.0	50.9	20.8	27.5	38.9	53.1	54.1	40.6	<b>558.3</b>
<b>Erandol</b>	15.5	26.7	41.5	54.6	69.0	65.0	51.0	20.7	27.7	39.2	53.4	54.9	41.1	<b>560.3</b>
<b>Dharangaon</b>	15.5	26.8	41.1	54.2	68.6	64.7	51.0	20.6	27.8	39.4	53.6	55.3	41.1	<b>559.7</b>
<b>Bhusaval</b>	15.6	26.8	42.1	55.3	69.8	65.6	50.9	20.7	27.6	39.1	53.3	54.4	41.3	<b>562.4</b>
<b>Raver</b>	15.7	26.9	42.3	55.7	70.3	66.4	51.0	20.5	27.5	39.0	53.5	54.0	40.9	<b>563.6</b>
<b>Muktainagar</b>	15.6	26.8	42.6	55.7	70.5	65.0	50.6	21.4	27.9	39.5	53.4	55.8	44.4	<b>569.2</b>
<b>Bodwad</b>	15.8	27.0	42.4	55.8	70.4	66.6	51.1	20.4	27.4	38.9	53.4	53.8	40.7	<b>563.7</b>
<b>Yawal</b>	15.8	27.0	42.5	56.0	70.6	66.9	51.1	20.5	27.5	39.0	53.7	53.8	40.9	<b>565.3</b>
<b>Amalner</b>	15.7	26.9	42.5	55.8	70.5	66.1	50.9	20.7	27.5	39.0	53.2	54.1	41.7	<b>564.6</b>
<b>Parola</b>	15.7	26.9	42.3	55.5	70.2	66.1	51.0	20.3	27.3	38.7	52.9	53.7	40.5	<b>561.1</b>
<b>Chopda</b>	15.6	26.8	42.4	55.6	70.2	66.1	50.9	20.3	27.2	38.6	52.7	53.4	40.4	<b>560.2</b>
<b>Pachora</b>	15.9	27.1	42.5	56.1	70.8	67.0	51.1	20.4	27.4	38.9	53.5	53.6	40.7	<b>565.0</b>
<b>Bhadgaon</b>	15.9	27.1	43.2	56.3	71.4	67.3	51.0	19.9	27.0	38.3	52.2	52.6	40.0	<b>562.0</b>
<b>Chalisgaon</b>	15.9	27.1	42.9	56.3	71.1	67.3	51.0	20.1	27.2	38.6	52.9	53.0	40.3	<b>563.6</b>

**Table No. E-18: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	38.8	67.2	106.8	139.4	177.4	159.5	126.0	55.7	71.5	100.9	135.5	145.8	120.9	<b>1445.4</b>
<b>Jamner</b>	38.3	66.2	104.5	137.1	172.7	162.5	127.3	51.9	68.6	97.3	132.6	135.2	101.6	<b>1395.8</b>
<b>Erandol</b>	38.8	66.8	103.7	136.5	172.4	162.6	127.5	51.7	69.2	98.1	133.6	137.3	102.7	<b>1400.7</b>
<b>Dharangaon</b>	38.7	66.9	102.9	135.5	171.4	161.8	127.6	51.6	69.5	98.4	134.0	138.3	102.7	<b>1399.3</b>
<b>Bhusaval</b>	38.9	66.9	105.2	138.2	174.5	164.1	127.3	51.8	68.9	97.6	133.3	135.9	103.4	<b>1406.1</b>
<b>Raver</b>	39.3	67.3	105.7	139.2	175.6	166.0	127.6	51.3	68.7	97.5	133.6	134.9	102.2	<b>1409.0</b>
<b>Muktainagar</b>	38.9	67.0	106.5	139.2	176.4	162.4	126.6	53.4	69.8	98.7	133.6	139.5	110.9	<b>1422.9</b>
<b>Bodwad</b>	39.4	67.4	105.9	139.4	176.0	166.5	127.6	51.1	68.6	97.4	133.5	134.5	101.9	<b>1409.3</b>
<b>Yawal</b>	39.6	67.6	106.1	140.0	176.6	167.2	127.7	51.2	68.7	97.6	134.2	134.5	102.2	<b>1413.2</b>
<b>Amalner</b>	39.2	67.2	106.3	139.6	176.2	165.2	127.2	51.7	68.7	97.4	133.1	135.3	104.2	<b>1411.4</b>
<b>Parola</b>	39.2	67.2	105.9	138.8	175.4	165.4	127.4	50.8	68.3	96.8	132.2	134.1	101.3	<b>1402.8</b>
<b>Chopda</b>	39.1	67.0	106.1	138.9	175.4	165.2	127.3	50.9	68.1	96.5	131.6	133.5	101.0	<b>1400.6</b>
<b>Pachora</b>	39.6	67.6	106.4	140.2	177.0	167.6	127.7	51.0	68.6	97.3	133.8	134.0	101.8	<b>1412.5</b>
<b>Bhadgaon</b>	39.7	67.6	107.9	140.8	178.4	168.2	127.4	49.7	67.5	95.7	130.5	131.5	99.9	<b>1404.9</b>
<b>Chalisgaon</b>	39.7	67.7	107.3	140.6	177.9	168.2	127.6	50.3	68.0	96.5	132.2	132.5	100.7	<b>1409.1</b>

**Table No. E-19: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	31.1	53.7	85.5	111.5	141.9	127.6	100.8	44.6	57.2	80.7	108.4	116.7	96.7	<b>1156.4</b>
<b>Jamner</b>	30.6	53.0	83.6	109.7	138.2	130.0	101.8	41.6	54.9	77.8	106.1	108.1	81.3	<b>1116.7</b>
<b>Erandol</b>	31.0	53.5	83.0	109.2	138.0	130.0	102.0	41.3	55.4	78.4	106.9	109.8	82.2	<b>1120.6</b>
<b>Dharangaon</b>	31.0	53.5	82.3	108.4	137.1	129.4	102.0	41.3	55.6	78.7	107.2	110.6	82.2	<b>1119.4</b>
<b>Bhusaval</b>	31.1	53.5	84.2	110.6	139.6	131.2	101.8	41.4	55.1	78.1	106.6	108.8	82.7	<b>1124.8</b>
<b>Raver</b>	31.5	53.9	84.5	111.3	140.5	132.8	102.1	41.0	55.0	78.0	106.9	107.9	81.8	<b>1127.2</b>
<b>Muktainagar</b>	31.1	53.6	85.2	111.3	141.1	129.9	101.3	42.8	55.8	79.0	106.9	111.6	88.7	<b>1138.3</b>
<b>Bodwad</b>	31.5	53.9	84.7	111.5	140.8	133.2	102.1	40.9	54.9	77.9	106.8	107.6	81.5	<b>1127.4</b>
<b>Yawal</b>	31.7	54.1	84.9	112.0	141.3	133.8	102.2	41.0	55.0	78.1	107.3	107.6	81.8	<b>1130.6</b>
<b>Amalner</b>	31.4	53.8	85.1	111.6	141.0	132.2	101.7	41.4	55.0	77.9	106.5	108.2	83.3	<b>1129.1</b>
<b>Parola</b>	31.4	53.7	84.7	111.0	140.4	132.3	101.9	40.7	54.7	77.5	105.7	107.3	81.0	<b>1122.2</b>
<b>Chopda</b>	31.2	53.6	84.9	111.1	140.4	132.2	101.8	40.7	54.5	77.2	105.3	106.8	80.8	<b>1120.5</b>
<b>Pachora</b>	31.7	54.1	85.1	112.1	141.6	134.0	102.2	40.8	54.8	77.9	107.0	107.2	81.5	<b>1130.0</b>
<b>Bhadgaon</b>	31.8	54.1	86.3	112.6	142.7	134.5	101.9	39.8	54.0	76.5	104.4	105.2	79.9	<b>1123.9</b>
<b>Chalisgaon</b>	31.8	54.2	85.8	112.5	142.3	134.5	102.1	40.2	54.4	77.2	105.7	106.0	80.5	<b>1127.3</b>

**Table No. E-20: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	25.9	44.8	71.2	92.9	118.3	106.4	84.0	37.1	47.7	67.3	90.3	97.2	80.6	<b>963.6</b>
<b>Jamner</b>	25.5	44.2	69.7	91.4	115.1	108.3	84.8	34.6	45.8	64.8	88.4	90.1	67.7	<b>930.6</b>
<b>Erandol</b>	25.8	44.6	69.1	91.0	115.0	108.4	85.0	34.4	46.1	65.4	89.1	91.5	68.5	<b>933.8</b>
<b>Dharangaon</b>	25.8	44.6	68.6	90.3	114.3	107.9	85.0	34.4	46.3	65.6	89.3	92.2	68.5	<b>932.9</b>
<b>Bhusaval</b>	25.9	44.6	70.2	92.2	116.3	109.4	84.9	34.5	45.9	65.1	88.9	90.6	68.9	<b>937.4</b>
<b>Raver</b>	26.2	44.9	70.4	92.8	117.1	110.7	85.1	34.2	45.8	65.0	89.1	89.9	68.2	<b>939.4</b>
<b>Muktainagar</b>	25.9	44.7	71.0	92.8	117.6	108.3	84.4	35.6	46.5	65.8	89.1	93.0	73.9	<b>948.6</b>
<b>Bodwad</b>	26.3	44.9	70.6	92.9	117.4	111.0	85.1	34.0	45.7	64.9	89.0	89.7	67.9	<b>939.5</b>
<b>Yawal</b>	26.4	45.1	70.8	93.3	117.7	111.5	85.2	34.1	45.8	65.1	89.4	89.7	68.2	<b>942.2</b>
<b>Amalner</b>	26.1	44.8	70.9	93.0	117.5	110.2	84.8	34.5	45.8	64.9	88.7	90.2	69.5	<b>940.9</b>
<b>Parola</b>	26.1	44.8	70.6	92.5	117.0	110.2	84.9	33.9	45.5	64.5	88.1	89.4	67.5	<b>935.2</b>
<b>Chopda</b>	26.0	44.7	70.7	92.6	117.0	110.1	84.8	33.9	45.4	64.3	87.8	89.0	67.3	<b>933.7</b>
<b>Pachora</b>	26.4	45.1	70.9	93.5	118.0	111.7	85.1	34.0	45.7	64.9	89.2	89.3	67.9	<b>941.7</b>
<b>Bhadgaon</b>	26.5	45.1	72.0	93.9	118.9	112.1	84.9	33.2	45.0	63.8	87.0	87.7	66.6	<b>936.6</b>
<b>Chalisgaon</b>	26.5	45.1	71.5	93.8	118.6	112.1	85.1	33.5	45.3	64.3	88.1	88.4	67.1	<b>939.4</b>

**Table No. E-21: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	19.4	33.6	53.4	69.7	88.7	79.8	63.0	27.8	35.8	50.4	67.7	72.9	60.4	<b>722.7</b>
<b>Jamner</b>	19.1	33.1	52.2	68.5	86.3	81.3	63.6	26.0	34.3	48.6	66.3	67.6	50.8	<b>697.9</b>
<b>Erandol</b>	19.4	33.4	51.9	68.2	86.2	81.3	63.7	25.8	34.6	49.0	66.8	68.6	51.3	<b>700.4</b>
<b>Dharangaon</b>	19.4	33.5	51.4	67.7	85.7	80.9	63.8	25.8	34.7	49.2	67.0	69.1	51.4	<b>699.6</b>
<b>Bhusaval</b>	19.5	33.5	52.6	69.1	87.2	82.0	63.7	25.9	34.4	48.8	66.6	68.0	51.7	<b>703.0</b>
<b>Raver</b>	19.7	33.7	52.8	69.6	87.8	83.0	63.8	25.6	34.4	48.8	66.8	67.5	51.1	<b>704.5</b>
<b>Muktainagar</b>	19.4	33.5	53.3	69.6	88.2	81.2	63.3	26.7	34.9	49.4	66.8	69.8	55.4	<b>711.5</b>
<b>Bodwad</b>	19.7	33.7	52.9	69.7	88.0	83.2	63.8	25.5	34.3	48.7	66.8	67.3	50.9	<b>704.6</b>
<b>Yawal</b>	19.8	33.8	53.1	70.0	88.3	83.6	63.9	25.6	34.4	48.8	67.1	67.3	51.1	<b>706.6</b>
<b>Amalner</b>	19.6	33.6	53.2	69.8	88.1	82.6	63.6	25.9	34.4	48.7	66.5	67.7	52.1	<b>705.7</b>
<b>Parola</b>	19.6	33.6	52.9	69.4	87.7	82.7	63.7	25.4	34.2	48.4	66.1	67.1	50.7	<b>701.4</b>
<b>Chopda</b>	19.5	33.5	53.0	69.5	87.7	82.6	63.6	25.4	34.1	48.3	65.8	66.8	50.5	<b>700.3</b>
<b>Pachora</b>	19.8	33.8	53.2	70.1	88.5	83.8	63.9	25.5	34.3	48.7	66.9	67.0	50.9	<b>706.3</b>
<b>Bhadgaon</b>	19.9	33.8	54.0	70.4	89.2	84.1	63.7	24.9	33.7	47.8	65.3	65.8	50.0	<b>702.4</b>
<b>Chalisgaon</b>	19.9	33.9	53.6	70.3	88.9	84.1	63.8	25.1	34.0	48.2	66.1	66.3	50.3	<b>704.5</b>

**Table No. E-22: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	18.3	31.6	50.3	65.6	83.5	75.1	59.3	26.2	33.7	47.5	63.8	68.6	56.9	<b>680.2</b>
<b>Jamner</b>	18.0	31.2	49.2	64.5	81.3	76.5	59.9	24.4	32.3	45.8	62.4	63.6	47.8	<b>656.9</b>
<b>Erandol</b>	18.2	31.5	48.8	64.2	81.2	76.5	60.0	24.3	32.6	46.1	62.9	64.6	48.3	<b>659.2</b>
<b>Dharangaon</b>	18.2	31.5	48.4	63.8	80.6	76.1	60.0	24.3	32.7	46.3	63.1	65.1	48.3	<b>658.5</b>
<b>Bhusaval</b>	18.3	31.5	49.5	65.1	82.1	77.2	59.9	24.4	32.4	46.0	62.7	64.0	48.6	<b>661.7</b>
<b>Raver</b>	18.5	31.7	49.7	65.5	82.7	78.1	60.0	24.1	32.3	45.9	62.9	63.5	48.1	<b>663.1</b>
<b>Muktainagar</b>	18.3	31.5	50.1	65.5	83.0	76.4	59.6	25.2	32.8	46.5	62.9	65.7	52.2	<b>669.6</b>
<b>Bodwad</b>	18.6	31.7	49.8	65.6	82.8	78.3	60.1	24.0	32.3	45.8	62.8	63.3	47.9	<b>663.2</b>
<b>Yawal</b>	18.6	31.8	49.9	65.9	83.1	78.7	60.1	24.1	32.3	45.9	63.1	63.3	48.1	<b>665.1</b>
<b>Amalner</b>	18.5	31.6	50.0	65.7	82.9	77.8	59.8	24.3	32.3	45.8	62.6	63.7	49.0	<b>664.2</b>
<b>Parola</b>	18.4	31.6	49.8	65.3	82.6	77.8	59.9	23.9	32.2	45.6	62.2	63.1	47.7	<b>660.1</b>
<b>Chopda</b>	18.4	31.5	49.9	65.4	82.6	77.7	59.9	23.9	32.0	45.4	61.9	62.8	47.5	<b>659.1</b>
<b>Pachora</b>	18.7	31.8	50.1	66.0	83.3	78.9	60.1	24.0	32.3	45.8	63.0	63.1	47.9	<b>664.7</b>
<b>Bhadgaon</b>	18.7	31.8	50.8	66.3	83.9	79.1	60.0	23.4	31.8	45.0	61.4	61.9	47.0	<b>661.1</b>
<b>Chalisgaon</b>	18.7	31.9	50.5	66.2	83.7	79.1	60.0	23.6	32.0	45.4	62.2	62.4	47.4	<b>663.1</b>

**Table No. E-23: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	17.3	29.9	47.5	61.9	78.9	70.9	56.0	24.8	31.8	44.8	60.2	64.8	53.7	<b>642.4</b>
<b>Jamner</b>	17.0	29.4	46.4	60.9	76.8	72.2	56.6	23.1	30.5	43.2	59.0	60.1	45.2	<b>620.4</b>
<b>Erandol</b>	17.2	29.7	46.1	60.6	76.6	72.2	56.6	23.0	30.8	43.6	59.4	61.0	45.6	<b>622.5</b>
<b>Dharangaon</b>	17.2	29.7	45.7	60.2	76.2	71.9	56.7	22.9	30.9	43.7	59.6	61.5	45.7	<b>621.9</b>
<b>Bhusaval</b>	17.3	29.7	46.8	61.4	77.5	72.9	56.6	23.0	30.6	43.4	59.2	60.4	45.9	<b>624.9</b>
<b>Raver</b>	17.5	29.9	47.0	61.8	78.1	73.8	56.7	22.8	30.5	43.3	59.4	60.0	45.4	<b>626.2</b>
<b>Muktainagar</b>	17.3	29.8	47.3	61.8	78.4	72.2	56.3	23.8	31.0	43.9	59.4	62.0	49.3	<b>632.4</b>
<b>Bodwad</b>	17.5	30.0	47.1	61.9	78.2	74.0	56.7	22.7	30.5	43.3	59.3	59.8	45.3	<b>626.3</b>
<b>Yawal</b>	17.6	30.0	47.2	62.2	78.5	74.3	56.8	22.8	30.5	43.4	59.6	59.8	45.4	<b>628.1</b>
<b>Amalner</b>	17.4	29.9	47.3	62.0	78.3	73.4	56.5	23.0	30.5	43.3	59.1	60.1	46.3	<b>627.3</b>
<b>Parola</b>	17.4	29.9	47.0	61.7	78.0	73.5	56.6	22.6	30.4	43.0	58.7	59.6	45.0	<b>623.5</b>
<b>Chopda</b>	17.4	29.8	47.1	61.7	78.0	73.4	56.6	22.6	30.3	42.9	58.5	59.3	44.9	<b>622.5</b>
<b>Pachora</b>	17.6	30.1	47.3	62.3	78.6	74.5	56.8	22.7	30.5	43.3	59.5	59.6	45.3	<b>627.8</b>
<b>Bhadgaon</b>	17.7	30.1	48.0	62.6	79.3	74.7	56.6	22.1	30.0	42.5	58.0	58.5	44.4	<b>624.4</b>
<b>Chalisgaon</b>	17.7	30.1	47.7	62.5	79.1	74.7	56.7	22.3	30.2	42.9	58.7	58.9	44.7	<b>626.3</b>

**Table No. E-24: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Jalgaon District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Jalgaon</b>	16.3	28.3	45.0	58.7	74.7	67.2	53.0	23.5	30.1	42.5	57.1	61.4	50.9	<b>608.6</b>
<b>Jamner</b>	16.1	27.9	44.0	57.7	72.7	68.4	53.6	21.9	28.9	41.0	55.9	56.9	42.8	<b>587.7</b>
<b>Erandol</b>	16.3	28.1	43.7	57.5	72.6	68.4	53.7	21.7	29.1	41.3	56.3	57.8	43.2	<b>589.8</b>
<b>Dharangaon</b>	16.3	28.2	43.3	57.0	72.2	68.1	53.7	21.7	29.3	41.4	56.4	58.2	43.3	<b>589.2</b>
<b>Bhusaval</b>	16.4	28.2	44.3	58.2	73.5	69.1	53.6	21.8	29.0	41.1	56.1	57.2	43.5	<b>592.0</b>
<b>Raver</b>	16.6	28.4	44.5	58.6	74.0	69.9	53.7	21.6	28.9	41.1	56.3	56.8	43.0	<b>593.3</b>
<b>Muktainagar</b>	16.4	28.2	44.8	58.6	74.3	68.4	53.3	22.5	29.4	41.6	56.3	58.8	46.7	<b>599.1</b>
<b>Bodwad</b>	16.6	28.4	44.6	58.7	74.1	70.1	53.7	21.5	28.9	41.0	56.2	56.6	42.9	<b>593.4</b>
<b>Yawal</b>	16.7	28.5	44.7	58.9	74.4	70.4	53.8	21.6	28.9	41.1	56.5	56.6	43.0	<b>595.0</b>
<b>Amalner</b>	16.5	28.3	44.8	58.8	74.2	69.6	53.5	21.8	28.9	41.0	56.0	57.0	43.9	<b>594.3</b>
<b>Parola</b>	16.5	28.3	44.6	58.4	73.9	69.6	53.6	21.4	28.8	40.8	55.6	56.5	42.7	<b>590.6</b>
<b>Chopda</b>	16.4	28.2	44.7	58.5	73.9	69.6	53.6	21.4	28.7	40.6	55.4	56.2	42.5	<b>589.7</b>
<b>Pachora</b>	16.7	28.5	44.8	59.0	74.5	70.6	53.8	21.5	28.9	41.0	56.3	56.4	44.8	<b>594.8</b>
<b>Bhadgaon</b>	64.5	60.8	57.6	45.7	45.1	45.4	38.1	38.4	38.3	178.8	178.8	55.4	42.1	<b>591.5</b>
<b>Chalisgaon</b>	16.7	28.5	45.2	59.2	74.9	70.8	53.7	21.2	28.6	40.6	55.6	55.8	42.4	<b>593.3</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Kolhapur District**

**Table No. E-25: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	14.2	25.2	42.0	55.0	70.2	63.7	50.1	24.6	27.9	40.5	53.4	57.6	46.0	<b>570.5</b>
<b>Kagal</b>	14.2	25.3	42.0	55.0	70.2	63.7	50.1	24.6	27.9	40.5	53.4	57.6	45.9	<b>570.4</b>
<b>Shahuwadi</b>	14.2	25.2	42.1	55.1	70.4	63.8	50.1	24.8	28.0	40.6	53.5	57.9	46.4	<b>571.9</b>
<b>Panhala</b>	14.2	25.3	42.0	55.0	70.2	63.7	50.1	24.5	27.9	40.5	53.4	57.6	45.9	<b>570.3</b>
<b>Karvir</b>	14.1	25.1	42.2	55.6	70.9	64.0	50.3	25.6	28.3	41.1	53.6	58.9	48.1	<b>577.9</b>
<b>Gaganbawada</b>	14.0	25.0	42.3	55.7	71.0	64.1	50.4	25.8	28.3	41.2	53.6	59.1	48.5	<b>579.0</b>
<b>Hatkangale</b>	14.2	25.2	42.2	55.4	70.7	63.8	50.2	25.2	28.2	41.0	53.6	58.7	47.7	<b>576.1</b>
<b>Shirol</b>	14.4	25.4	42.1	55.0	70.2	63.5	50.1	24.4	28.0	40.6	53.5	58.0	46.4	<b>571.4</b>
<b>Bhudargad</b>	14.3	25.3	42.1	55.1	70.4	63.6	50.1	24.7	28.1	40.7	53.6	58.3	46.8	<b>573.1</b>
<b>Gadhinglaj</b>	14.3	25.3	42.0	54.8	70.2	63.6	50.0	24.4	27.8	40.4	53.4	57.4	45.5	<b>569.0</b>
<b>Chandgad</b>	14.0	25.0	42.3	55.8	71.1	64.1	50.4	25.9	28.4	41.3	53.6	59.3	48.7	<b>579.9</b>
<b>Ajara</b>	14.3	25.4	42.1	55.0	70.3	63.6	50.1	24.6	28.1	40.7	53.6	58.2	46.7	<b>572.6</b>

**Table No. E-26: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	35.6	63.1	105.1	137.6	175.6	159.2	125.2	61.4	69.8	101.2	133.5	144.0	114.9	<b>1426.3</b>
<b>Kagal</b>	35.6	63.1	105.1	137.6	175.6	159.2	125.2	61.4	69.7	101.2	133.5	144.0	114.8	<b>1426.1</b>
<b>Shahuwadi</b>	35.5	63.1	105.2	137.8	175.9	159.4	125.3	61.9	69.9	101.5	133.6	144.7	115.9	<b>1429.8</b>
<b>Panhala</b>	35.6	63.1	105.0	137.5	175.6	159.2	125.2	61.4	69.7	101.2	133.5	144.0	114.7	<b>1425.8</b>
<b>Karvir</b>	35.2	62.7	105.6	139.0	177.2	160.0	125.9	64.0	70.7	102.8	133.9	147.3	120.3	<b>1444.7</b>
<b>Gaganbawada</b>	35.1	62.6	105.7	139.3	177.5	160.2	126.0	64.5	70.8	103.0	134.0	147.8	121.2	<b>1447.6</b>
<b>Hatkangale</b>	16.1	63.0	105.4	138.5	176.7	159.6	125.6	63.1	70.5	102.5	134.0	146.8	19.0	<b>1320.6</b>
<b>Shirol</b>	35.9	63.5	105.1	137.4	175.4	158.8	125.1	61.0	70.0	101.4	133.9	38.2	116.0	<b>1321.8</b>
<b>Bhudargad</b>	35.7	63.3	105.2	137.7	175.9	159.0	125.3	61.8	70.2	101.8	133.9	145.7	51.5	<b>1367.1</b>
<b>Gadhinglaj</b>	35.7	63.2	105.0	137.1	175.4	159.1	124.9	60.9	69.5	101.0	133.5	79.4	113.7	<b>1358.5</b>
<b>Chandgad</b>	35.0	62.5	105.8	139.4	177.7	160.3	126.1	64.8	70.9	103.2	134.0	100.6	121.8	<b>1402.3</b>
<b>Ajara</b>	35.8	63.4	105.2	137.6	175.7	158.9	125.2	61.5	70.1	101.7	133.9	94.9	116.8	<b>1380.8</b>

**Table No. E-27: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	28.5	50.5	84.1	110.1	140.5	127.4	100.2	49.1	55.8	81.0	106.8	115.2	92.0	<b>1141.0</b>
<b>Kagal</b>	28.5	50.5	84.1	110.1	140.5	127.4	100.1	49.1	55.8	80.9	62.9	115.2	91.9	<b>1097.0</b>
<b>Shahuwadi</b>	28.4	50.5	84.2	110.2	140.7	127.5	100.2	49.5	56.0	81.2	106.9	28.1	92.7	<b>1056.1</b>
<b>Panhala</b>	28.5	50.5	84.0	110.0	140.5	127.4	100.1	49.1	55.8	80.9	106.8	38.1	91.8	<b>1063.5</b>
<b>Karvir</b>	28.1	50.1	84.5	111.2	141.8	128.0	100.7	51.2	56.6	82.2	107.1	117.8	96.2	<b>1155.7</b>
<b>Gaganbawada</b>	28.1	50.1	84.5	111.4	142.0	128.2	100.8	51.6	56.7	82.4	107.2	118.2	96.9	<b>1158.1</b>
<b>Hatkangale</b>	28.3	50.4	84.3	110.8	141.4	127.7	100.5	50.5	56.4	82.0	107.2	117.4	95.3	<b>1152.1</b>
<b>Shirol</b>	28.7	50.8	84.1	109.9	140.4	127.0	100.1	48.8	56.0	81.1	107.1	115.9	92.8	<b>1142.8</b>
<b>Bhudargad</b>	28.6	50.7	84.2	110.2	140.7	127.2	100.2	49.4	56.1	81.5	107.1	116.5	93.7	<b>1146.2</b>
<b>Gadhinglaj</b>	28.6	50.6	84.0	109.7	140.3	127.3	99.9	48.7	55.6	80.8	106.8	114.8	91.0	<b>1138.0</b>
<b>Chandgad</b>	28.0	50.0	84.6	111.5	142.1	128.2	100.9	51.8	56.8	82.6	107.2	118.5	97.5	<b>1159.8</b>
<b>Ajara</b>	28.6	50.7	84.2	110.1	140.6	127.1	100.2	49.2	56.1	81.4	107.1	116.4	93.4	<b>1145.1</b>

**Table No. E-28: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	23.7	42.1	70.1	91.7	117.1	106.2	83.5	40.9	46.5	67.5	89.0	96.0	76.6	<b>950.8</b>
<b>Kagal</b>	23.7	42.1	70.1	91.7	117.1	106.2	83.5	40.9	46.5	67.5	89.0	96.0	76.6	<b>950.7</b>
<b>Shahuwadi</b>	23.7	42.0	70.1	91.9	117.3	106.3	83.5	41.3	46.6	67.7	89.1	96.5	77.3	<b>953.2</b>
<b>Panhala</b>	23.7	42.1	70.0	91.7	117.1	106.2	83.4	40.9	46.5	67.5	89.0	96.0	76.5	<b>950.5</b>
<b>Karvir</b>	23.5	41.8	70.4	92.7	118.1	106.7	83.9	42.7	47.1	68.5	89.3	98.2	80.2	<b>963.1</b>
<b>Gaganbawada</b>	23.4	41.7	70.4	92.8	118.3	106.8	84.0	43.0	47.2	68.7	89.3	98.5	80.8	<b>965.1</b>
<b>Hatkangale</b>	23.6	42.0	70.3	92.3	117.8	106.4	83.7	42.1	47.0	68.3	89.3	97.8	79.4	<b>960.1</b>
<b>Shirol</b>	23.9	42.4	70.1	91.6	117.0	105.8	83.4	40.7	46.7	67.6	89.2	96.6	77.3	<b>952.3</b>
<b>Bhudargad</b>	23.8	42.2	70.2	91.8	117.3	106.0	83.5	41.2	46.8	67.9	89.3	97.1	78.1	<b>955.1</b>
<b>Gadhinglaj</b>	23.8	42.2	70.0	91.4	116.9	106.1	83.3	40.6	46.3	67.3	89.0	95.6	75.8	<b>948.4</b>
<b>Chandgad</b>	23.4	41.7	70.5	93.0	118.4	106.9	84.0	43.2	47.3	68.8	89.3	98.8	81.2	<b>966.5</b>
<b>Ajara</b>	23.9	42.3	70.1	91.7	117.2	106.0	83.5	41.0	46.8	67.8	89.3	97.0	77.8	<b>954.3</b>

**Table No. E-29: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	17.8	31.6	52.5	68.8	87.8	79.6	62.6	30.7	34.9	50.6	66.7	72.0	57.5	<b>713.1</b>
<b>Kagal</b>	17.8	31.6	52.5	68.8	87.8	79.6	62.6	30.7	34.9	50.6	66.7	72.0	57.4	<b>713.0</b>
<b>Shahuwadi</b>	17.8	31.5	52.6	68.9	87.9	79.7	62.6	30.9	35.0	50.8	66.8	72.4	58.0	<b>714.9</b>
<b>Panhala</b>	17.8	31.6	52.5	68.7	87.8	79.6	62.6	30.7	34.9	50.6	66.8	72.0	57.4	<b>712.9</b>
<b>Karvir</b>	17.6	31.3	52.8	69.5	88.6	80.0	62.9	32.0	35.3	51.4	67.0	73.7	60.2	<b>722.3</b>
<b>Gaganbawada</b>	17.5	31.3	52.8	69.6	88.8	80.1	63.0	32.2	35.4	51.5	67.0	73.9	60.6	<b>723.8</b>
<b>Hatkangale</b>	17.7	31.5	52.7	69.2	88.4	79.8	62.8	31.6	35.3	51.2	67.0	73.4	59.6	<b>720.1</b>
<b>Shirol</b>	17.9	31.8	52.6	68.7	87.7	79.4	62.6	30.5	35.0	50.7	66.9	72.5	58.0	<b>714.3</b>
<b>Bhudargad</b>	17.9	31.7	52.6	68.9	87.9	79.5	62.6	30.9	35.1	50.9	67.0	72.8	58.6	<b>716.4</b>
<b>Gadhinglaj</b>	17.8	31.6	52.5	68.5	87.7	79.6	62.5	30.5	34.8	34.3	66.8	71.7	56.9	<b>695.1</b>
<b>Chandgad</b>	17.5	31.3	52.9	69.7	88.8	80.1	63.0	32.4	35.5	46.8	67.0	74.1	60.9	<b>720.0</b>
<b>Ajara</b>	17.9	31.7	52.6	68.8	87.9	79.5	62.6	30.7	35.1	50.9	67.0	72.7	58.4	<b>715.7</b>

**Table No. E-30: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	16.8	29.7	49.5	64.8	82.6	74.9	58.9	28.9	32.8	47.6	62.8	67.8	54.1	<b>671.2</b>
<b>Kagal</b>	16.8	29.7	49.5	64.8	82.6	74.9	58.9	28.9	32.8	47.6	62.8	67.8	54.0	<b>671.1</b>
<b>Shahuwadi</b>	16.7	29.7	49.5	64.8	82.8	75.0	59.0	29.1	32.9	47.8	62.9	68.1	54.6	<b>672.9</b>
<b>Panhala</b>	16.8	29.7	49.4	64.7	82.6	74.9	58.9	28.9	32.8	47.6	62.8	67.7	54.0	<b>670.9</b>
<b>Karvir</b>	16.6	29.5	49.7	65.4	83.4	75.3	59.2	30.1	33.3	48.4	63.0	69.3	56.6	<b>679.8</b>
<b>Gaganbawada</b>	16.5	29.4	49.7	65.5	83.5	75.4	59.3	30.4	33.3	48.5	63.0	69.5	57.0	<b>681.2</b>
<b>Hatkangale</b>	16.7	29.6	49.6	65.2	83.2	75.1	59.1	29.7	33.2	48.2	63.0	69.1	56.1	<b>677.7</b>
<b>Shirol</b>	16.9	29.9	49.5	64.7	82.6	74.7	58.9	28.7	32.9	47.7	63.0	68.2	54.6	<b>672.2</b>
<b>Bhudargad</b>	16.8	29.8	49.5	64.8	82.8	74.8	59.0	29.1	33.0	47.9	63.0	68.5	55.1	<b>674.2</b>
<b>Gadhinglaj</b>	16.8	29.8	49.4	64.5	82.5	74.9	58.8	28.7	32.7	47.5	62.8	67.5	53.5	<b>669.4</b>
<b>Chandgad</b>	16.5	29.4	49.8	65.6	83.6	75.4	59.3	30.5	33.4	48.6	63.1	69.7	57.3	<b>682.3</b>
<b>Ajara</b>	16.8	29.8	49.5	64.8	82.7	74.8	58.9	28.9	33.0	47.9	63.0	68.5	54.9	<b>673.6</b>

**Table No. E-31: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	15.8	28.0	46.7	61.2	78.0	70.8	55.6	27.3	31.0	45.0	59.3	64.0	51.1	<b>633.9</b>
<b>Kagal</b>	15.8	28.1	46.7	61.2	78.0	70.8	55.6	27.3	31.0	45.0	59.3	64.0	51.0	<b>633.8</b>
<b>Shahuwadi</b>	15.8	28.0	46.8	61.2	78.2	70.8	55.7	27.5	31.1	45.1	59.4	64.3	51.5	<b>635.5</b>
<b>Panhala</b>	15.8	28.1	46.7	61.1	78.0	70.8	55.6	27.3	31.0	45.0	59.3	64.0	51.0	<b>633.7</b>
<b>Karvir</b>	15.6	27.9	46.9	61.8	78.8	71.1	55.9	28.5	31.4	45.7	59.5	65.5	53.5	<b>642.1</b>
<b>Gaganbawada</b>	15.6	27.8	47.0	61.9	78.9	71.2	56.0	28.7	31.5	45.8	59.5	65.7	53.9	<b>643.4</b>
<b>Hatkangale</b>	15.7	28.0	46.9	61.5	78.5	70.9	55.8	28.1	31.3	45.5	59.5	65.2	53.0	<b>640.1</b>
<b>Shirol</b>	16.0	28.2	46.7	61.1	78.0	70.6	55.6	27.1	31.1	45.1	59.5	64.4	51.5	<b>634.9</b>
<b>Bhudargad</b>	15.9	28.1	46.8	61.2	78.2	70.7	55.7	27.5	31.2	45.3	59.5	64.7	52.0	<b>636.8</b>
<b>Gadhinglaj</b>	15.9	28.1	46.6	60.9	77.9	70.7	55.5	27.1	30.9	44.9	59.3	63.8	50.5	<b>632.2</b>
<b>Chandgad</b>	15.6	27.8	47.0	62.0	79.0	71.2	56.0	28.8	31.5	45.9	59.6	65.9	54.2	<b>644.4</b>
<b>Ajara</b>	15.9	28.2	46.8	61.2	78.1	70.6	55.7	27.3	31.2	45.2	59.5	64.6	51.9	<b>636.2</b>

**Table No. E-32: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Kolhapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Radhanagari</b>	15.0	26.6	44.3	57.9	73.9	67.0	52.7	25.9	29.4	42.6	56.2	60.6	48.4	<b>600.5</b>
<b>Kagal</b>	15.0	26.6	44.3	57.9	73.9	67.0	52.7	25.8	29.4	42.6	56.2	60.6	48.4	<b>600.5</b>
<b>Shahuwadi</b>	15.0	26.6	44.3	58.0	74.1	67.1	52.8	26.1	29.4	42.8	56.3	60.9	48.8	<b>602.0</b>
<b>Panhala</b>	15.0	26.6	44.2	57.9	73.9	67.0	52.7	25.8	29.4	42.6	56.2	60.6	48.3	<b>600.3</b>
<b>Karvir</b>	14.8	26.4	44.5	58.5	74.6	67.4	53.0	27.0	29.8	43.3	56.4	62.0	50.7	<b>608.3</b>
<b>Gaganbawada</b>	14.8	26.3	44.5	58.6	74.7	67.5	53.0	27.2	29.8	43.4	56.4	62.2	51.0	<b>609.5</b>
<b>Hatkangale</b>	14.9	26.5	44.4	58.3	74.4	67.2	52.9	26.6	29.7	43.1	56.4	61.8	50.2	<b>606.4</b>
<b>Shirol</b>	15.1	26.7	44.3	57.9	73.9	66.9	52.7	25.7	29.5	42.7	56.4	61.0	48.8	<b>601.5</b>
<b>Bhudargad</b>	15.0	26.7	44.3	58.0	74.1	67.0	52.8	26.0	29.6	42.9	56.4	61.3	49.3	<b>603.2</b>
<b>Gadhinglaj</b>	15.0	26.6	44.2	57.7	73.8	67.0	52.6	25.7	29.3	42.5	56.2	60.4	47.9	<b>599.0</b>
<b>Chandgad</b>	14.8	26.3	44.5	58.7	74.8	67.5	53.1	27.3	29.9	43.5	56.4	62.4	51.3	<b>610.4</b>
<b>Ajara</b>	15.1	26.7	44.3	57.9	74.0	66.9	52.7	25.9	29.5	42.8	56.4	61.2	49.2	<b>602.7</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Nandurbar District**

**Table No. E-33: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Nandurbar District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	15.9	27.0	43.3	56.3	71.2	67.0	50.6	19.6	26.6	37.5	51.1	51.3	38.9	<b>556.3</b>
<b>Navapur</b>	16.0	26.9	44.0	56.5	71.3	67.2	49.9	18.3	25.4	35.5	47.9	47.4	35.7	<b>542.2</b>
<b>Taloda</b>	15.9	26.9	43.6	56.3	71.1	67.0	50.3	19.1	26.1	36.7	49.7	49.6	37.6	<b>550.1</b>
<b>Akkalkuva</b>	15.9	26.9	43.8	56.4	71.2	67.1	50.1	18.7	25.8	36.1	48.8	48.4	36.6	<b>545.8</b>
<b>Akrani</b>	15.9	26.9	43.6	56.3	71.0	66.9	50.2	19.1	26.1	36.6	49.6	49.4	37.5	<b>549.0</b>
<b>Shahada</b>	15.9	26.9	43.7	56.4	71.2	67.0	50.3	18.9	26.0	36.5	49.4	49.2	37.3	<b>548.7</b>

**Table No. E-34: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	39.7	67.4	108.4	140.8	178.0	167.6	126.6	48.9	66.5	93.9	127.7	128.1	97.3	<b>1390.7</b>
<b>Navapur</b>	40.0	67.3	110.1	141.2	178.2	168.0	124.9	45.8	63.6	88.8	119.9	118.5	89.4	<b>1355.5</b>
<b>Taloda</b>	39.7	67.3	109.0	140.8	177.8	167.5	125.8	47.7	65.3	91.7	124.4	124.1	94.1	<b>1375.2</b>
<b>Akkalkuva</b>	39.9	67.3	109.5	141.0	178.0	167.7	125.3	46.7	64.4	90.2	122.0	121.1	91.6	<b>1364.5</b>
<b>Akrani</b>	39.7	67.2	109.0	140.8	177.6	167.2	125.6	47.6	65.1	91.4	123.9	123.6	93.7	<b>1372.4</b>
<b>Shahada</b>	39.8	67.3	109.2	140.9	177.9	167.6	125.6	47.3	65.0	91.2	123.6	123.1	93.2	<b>1371.7</b>

**Table No. E-35: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	31.7	53.9	86.7	112.6	142.4	134.1	101.3	39.1	53.2	75.1	102.1	102.5	77.9	<b>1112.6</b>
<b>Navapur</b>	32.0	53.9	88.1	113.0	142.5	134.4	99.9	36.6	50.9	71.0	95.9	94.8	71.5	<b>1084.4</b>
<b>Taloda</b>	31.8	53.8	87.2	112.6	142.3	134.0	100.7	38.2	52.2	73.4	99.5	99.3	75.3	<b>1100.2</b>
<b>Akkalkuva</b>	31.9	53.8	87.6	112.8	142.4	134.1	100.2	37.3	51.5	72.1	97.6	96.9	73.3	<b>1091.6</b>
<b>Akrani</b>	31.7	53.8	87.2	112.6	142.1	133.7	100.5	38.1	52.1	73.1	99.1	98.9	75.0	<b>1098.0</b>
<b>Shahada</b>	31.8	53.8	87.4	112.7	142.3	134.0	100.5	37.9	52.0	72.9	98.9	98.5	74.6	<b>1097.4</b>

**Table No. E-36: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	26.4	44.9	72.2	93.8	118.6	111.7	84.4	32.6	44.3	62.6	85.1	85.4	64.9	<b>927.2</b>
<b>Navapur</b>	26.7	44.9	73.4	94.1	118.8	112.0	83.2	30.5	42.4	59.2	79.9	79.0	59.6	<b>903.7</b>
<b>Taloda</b>	26.5	44.9	72.6	93.9	118.5	111.7	83.9	31.8	43.5	61.2	82.9	82.7	62.7	<b>916.8</b>
<b>Akkalkuva</b>	26.6	44.9	73.0	94.0	118.6	111.8	83.5	31.1	42.9	60.1	81.3	80.7	61.0	<b>909.7</b>
<b>Akrani</b>	26.5	44.8	72.6	93.8	118.4	111.4	83.7	31.8	43.4	61.0	82.6	82.4	62.5	<b>915.0</b>
<b>Shahada</b>	26.5	44.9	72.8	93.9	118.6	111.7	83.8	31.6	43.3	60.8	82.4	82.1	62.1	<b>914.5</b>

**Table No. E-37: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	19.8	33.7	54.2	70.4	89.0	83.8	63.3	24.5	33.2	46.9	63.8	64.1	48.7	<b>695.4</b>
<b>Navapur</b>	20.0	33.7	55.1	70.6	89.1	84.0	62.4	22.9	31.8	44.4	59.9	59.2	44.7	<b>677.8</b>
<b>Taloda</b>	19.9	33.6	54.5	70.4	88.9	83.7	62.9	23.9	32.6	45.9	62.2	62.0	47.0	<b>687.6</b>
<b>Akkalkuva</b>	19.9	33.7	54.8	70.5	89.0	83.8	62.6	23.3	32.2	45.1	61.0	60.5	45.8	<b>682.2</b>
<b>Akrani</b>	19.8	33.6	54.5	70.4	88.8	83.6	62.8	23.8	32.6	45.7	61.9	61.8	46.9	<b>686.2</b>

<b>Shahada</b>	19.9	33.7	54.6	70.5	89.0	83.8	62.8	23.7	32.5	45.6	61.8	61.5	46.6	<b>685.9</b>
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**Table No. E-38: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	18.7	31.7	51.0	66.2	83.8	78.9	59.6	23.0	31.3	44.2	60.1	60.3	45.8	<b>654.5</b>
<b>Navapur</b>	18.8	31.7	51.8	66.5	83.8	79.1	58.8	21.5	29.9	41.8	56.4	55.7	42.0	<b>637.9</b>
<b>Taloda</b>	18.7	31.7	51.3	66.3	83.7	78.8	59.2	22.5	30.7	43.2	58.5	58.4	44.3	<b>647.1</b>
<b>Akkalkuva</b>	18.8	31.7	51.5	66.3	83.8	78.9	59.0	22.0	30.3	42.4	57.4	57.0	43.1	<b>642.1</b>
<b>Akrani</b>	18.7	31.6	51.3	66.2	83.6	78.7	59.1	22.4	30.7	43.0	58.3	58.2	44.1	<b>645.9</b>
<b>Shahada</b>	18.7	31.7	51.4	66.3	83.7	78.9	59.1	22.3	30.6	42.9	58.1	57.9	43.9	<b>645.5</b>

**Table No. E-39: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	17.6	29.9	48.2	62.6	79.1	74.5	56.3	21.7	29.5	41.7	56.7	56.9	43.3	<b>618.1</b>
<b>Navapur</b>	17.8	29.9	48.9	62.8	79.2	74.7	55.5	20.3	28.3	39.5	53.3	52.7	39.7	<b>602.4</b>
<b>Taloda</b>	17.7	29.9	48.4	62.6	79.0	74.4	55.9	21.2	29.0	40.8	55.3	55.2	41.8	<b>611.2</b>
<b>Akkalkuva</b>	17.7	29.9	48.7	62.7	79.1	74.5	55.7	20.7	28.6	40.1	54.2	53.8	40.7	<b>606.4</b>
<b>Akrani</b>	17.6	29.9	48.4	62.6	78.9	74.3	55.8	21.2	29.0	40.6	55.1	54.9	41.7	<b>610.0</b>
<b>Shahada</b>	17.7	29.9	48.5	62.6	79.1	74.5	55.8	21.0	28.9	40.5	54.9	54.7	41.4	<b>609.7</b>

**Table No. E-40: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Nandurbar District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nandurbar</b>	16.7	28.4	45.6	59.3	74.9	70.6	53.3	20.6	28.0	39.5	53.8	53.9	41.0	<b>585.6</b>
<b>Navapur</b>	16.8	28.4	46.4	59.5	75.0	70.7	52.6	19.3	26.8	37.4	50.5	49.9	37.6	<b>570.7</b>
<b>Taloda</b>	16.7	28.3	45.9	59.3	74.9	70.5	53.0	20.1	27.5	38.6	52.4	52.3	39.6	<b>579.0</b>

<b>Akkalkuva</b>	16.8	28.3	46.1	59.4	74.9	70.6	52.8	19.7	27.1	38.0	51.4	51.0	38.6	<b>574.5</b>
<b>Akrani</b>	16.7	28.3	45.9	59.3	74.8	70.4	52.9	20.1	27.4	38.5	52.2	52.0	39.5	<b>577.9</b>
<b>Shahada</b>	16.8	28.3	46.0	59.3	74.9	70.6	52.9	19.9	27.4	38.4	52.0	51.8	39.2	<b>577.6</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Nashik District**

**Table No. E-41: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Nashik District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	14.5	25.5	42.3	55.2	68.8	65.3	51.3	20.9	26.9	37.9	52.4	50.4	37.3	<b>548.6</b>
<b>Igatpuri</b>	14.7	25.8	42.0	54.8	68.5	64.6	51.0	21.3	27.1	38.5	52.7	52.6	39.4	<b>552.9</b>
<b>Dindori</b>	14.5	25.5	42.4	55.2	68.8	65.4	51.4	20.9	26.9	37.9	52.4	50.3	37.2	<b>548.6</b>
<b>Peth</b>	15.3	26.6	42.4	55.2	70.0	64.0	50.6	21.9	28.2	39.9	53.8	57.0	45.6	<b>570.5</b>
<b>Trimbakeshwar</b>	15.5	26.9	42.8	55.8	71.1	63.4	50.3	22.6	28.8	40.6	54.4	59.2	49.7	<b>581.2</b>
<b>Kalwan</b>	15.2	26.4	41.8	54.6	68.6	64.5	50.9	21.2	27.5	39.1	53.2	54.6	41.3	<b>558.8</b>
<b>Deola</b>	15.3	26.5	42.0	54.9	69.1	64.5	50.8	21.3	27.7	39.3	53.3	55.2	42.4	<b>562.1</b>
<b>Surgana</b>	15.1	26.2	41.9	54.7	68.7	64.6	50.9	21.1	27.4	38.9	53.0	53.9	40.6	<b>556.9</b>
<b>Baglan</b>	15.6	27.0	42.9	56.0	71.5	63.2	50.2	22.8	29.1	40.9	54.7	60.1	51.4	<b>585.6</b>
<b>Malegaon</b>	15.6	27.0	42.9	56.0	71.5	63.2	50.2	22.8	29.1	40.9	54.7	60.1	51.3	<b>585.4</b>
<b>Nandgaon</b>	15.3	26.5	41.9	54.9	69.1	64.7	50.8	21.1	27.6	39.2	53.3	54.9	41.8	<b>561.2</b>
<b>Chandwad</b>	15.5	26.9	42.9	55.9	71.2	63.4	50.3	22.6	28.9	40.6	54.4	59.2	49.9	<b>581.7</b>
<b>Niphad</b>	15.6	26.9	42.9	55.9	71.2	63.5	50.3	22.6	28.9	40.6	54.4	59.2	49.9	<b>581.8</b>
<b>Sinnar</b>	15.6	26.9	42.9	55.9	71.3	63.4	50.3	22.6	28.9	40.7	54.5	59.4	50.2	<b>582.5</b>
<b>Yeola</b>	15.5	26.8	42.5	55.5	70.4	64.6	50.6	21.6	28.1	39.7	53.7	56.5	45.1	<b>570.5</b>

**Table No. E-42: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Nashik District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	36.2	63.8	105.9	137.9	171.9	163.4	128.3	52.2	67.2	94.7	131.0	125.9	93.2	<b>1371.6</b>
<b>Igatpuri</b>	36.7	64.4	105.0	137.0	171.2	161.4	127.4	53.1	67.8	96.2	131.8	131.5	98.6	<b>1382.3</b>
<b>Dindori</b>	36.2	63.8	105.9	137.9	171.9	163.4	128.4	52.2	67.2	94.7	131.0	125.8	93.1	<b>1371.6</b>
<b>Peth</b>	38.4	66.6	105.9	138.0	174.9	160.0	126.4	54.9	70.4	99.8	134.5	142.4	114.0	<b>1426.2</b>
<b>Trimbakeshwar</b>	38.8	67.2	107.0	139.5	177.8	158.6	125.7	56.5	72.1	101.6	136.0	147.9	124.2	<b>1452.9</b>
<b>Kalwan</b>	37.9	65.9	104.6	136.5	171.6	161.2	127.2	52.9	68.8	97.8	133.0	136.6	103.2	<b>1397.1</b>
<b>Deola</b>	38.2	66.2	105.0	137.2	172.8	161.2	127.0	53.2	69.1	98.1	133.3	137.9	106.0	<b>1405.3</b>
<b>Surgana</b>	37.6	65.5	104.7	136.8	171.7	161.5	127.2	52.8	68.4	97.1	132.5	134.7	101.5	<b>1392.2</b>
<b>Baglan</b>	39.0	67.5	107.4	140.0	178.8	157.9	125.5	57.1	72.8	102.4	136.8	150.3	128.4	<b>1463.9</b>
<b>Malegaon</b>	39.0	67.5	107.4	140.0	178.8	158.0	125.5	57.1	72.8	102.3	136.7	150.2	128.2	<b>1463.4</b>
<b>Nandgaon</b>	38.3	66.3	104.8	137.2	172.9	161.9	127.1	52.7	69.0	97.9	133.2	137.2	104.6	<b>1403.0</b>
<b>Chandwad</b>	38.8	67.2	107.1	139.7	178.0	158.6	125.7	56.5	72.1	101.6	136.1	148.1	124.7	<b>1454.2</b>
<b>Niphad</b>	38.9	67.3	107.1	139.7	178.1	158.7	125.7	56.4	72.1	101.6	136.1	148.0	124.6	<b>1454.4</b>
<b>Sinnar</b>	38.9	67.3	107.2	139.7	178.2	158.5	125.7	56.6	72.3	101.8	136.2	148.5	125.5	<b>1456.3</b>
<b>Yeola</b>	38.7	66.9	106.2	138.8	175.9	161.4	126.5	54.1	70.2	99.4	134.3	141.2	112.7	<b>1426.4</b>

**Table No. E-43: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Nashik District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	29.0	51.0	84.7	110.4	137.5	130.7	102.7	41.8	53.7	75.8	104.8	100.8	74.5	<b>1097.3</b>
<b>Igatpuri</b>	29.4	51.5	84.0	109.6	137.0	129.1	101.9	42.5	54.3	77.0	105.4	105.2	78.9	<b>1105.9</b>
<b>Dindori</b>	28.9	51.0	84.7	110.4	137.6	130.7	102.7	41.7	53.7	75.8	104.8	100.7	74.4	<b>1097.3</b>
<b>Peth</b>	30.7	53.2	84.7	110.4	139.9	128.0	101.1	43.9	56.3	79.8	107.6	114.0	91.2	<b>1141.0</b>
<b>Trimbakeshwar</b>	31.0	53.8	85.6	111.6	142.3	126.9	100.6	45.2	57.7	81.3	108.8	118.3	99.4	<b>1162.3</b>
<b>Kalwan</b>	30.3	52.7	83.7	109.2	137.3	129.0	101.8	42.3	55.0	78.2	106.4	109.3	82.6	<b>1117.7</b>
<b>Deola</b>	30.6	53.0	84.0	109.8	138.2	129.0	101.6	42.6	55.3	78.5	106.6	110.3	84.8	<b>1124.2</b>
<b>Surgana</b>	30.1	52.4	83.8	109.4	137.4	129.2	101.8	42.2	54.7	77.7	106.0	107.7	81.2	<b>1113.7</b>
<b>Baglan</b>	31.2	54.0	85.9	112.0	143.1	126.3	100.4	45.7	58.2	81.9	109.4	120.2	102.8	<b>1171.1</b>
<b>Malegaon</b>	31.2	54.0	85.9	112.0	143.0	126.4	100.4	45.7	58.2	81.9	109.4	120.1	102.6	<b>1170.7</b>
<b>Nandgaon</b>	30.7	53.1	83.8	109.8	138.3	129.5	101.7	42.2	55.2	78.3	106.5	109.7	83.7	<b>1122.4</b>
<b>Chandwad</b>	31.1	53.8	85.7	111.7	142.4	126.9	100.5	45.2	57.7	81.3	108.8	118.5	99.7	<b>1163.4</b>
<b>Niphad</b>	31.1	53.8	85.7	111.7	142.5	126.9	100.6	45.2	57.7	81.3	108.9	118.4	99.7	<b>1163.5</b>
<b>Sinnar</b>	31.1	53.8	85.7	111.8	142.6	126.8	100.5	45.3	57.8	81.4	109.0	118.8	100.4	<b>1165.0</b>
<b>Yeola</b>	31.0	53.5	85.0	111.0	140.7	129.1	101.2	43.3	56.2	79.5	107.4	112.9	90.2	<b>1141.1</b>

**Table No. E-44: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Nashik District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal IWR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	24.1	42.5	70.6	92.0	114.6	108.9	85.6	34.8	44.8	63.2	87.4	84.0	62.1	<b>914.4</b>
<b>Igatpuri</b>	24.5	42.9	70.0	91.4	114.2	107.6	85.0	35.4	45.2	64.1	87.9	87.7	65.7	<b>921.6</b>
<b>Dindori</b>	24.1	42.5	70.6	92.0	114.6	109.0	85.6	34.8	44.8	63.1	87.4	83.9	62.0	<b>914.4</b>
<b>Peth</b>	25.6	44.4	70.6	92.0	116.6	106.7	84.3	36.6	46.9	66.5	89.7	95.0	76.0	<b>950.8</b>
<b>Trimbakeshwar</b>	25.9	44.8	71.4	93.0	118.5	105.7	83.8	37.7	48.0	67.7	90.7	98.6	82.8	<b>968.6</b>
<b>Kalwan</b>	25.3	43.9	69.7	91.0	114.4	107.5	84.8	35.3	45.9	65.2	88.7	91.1	68.8	<b>931.4</b>
<b>Deola</b>	25.5	44.1	70.0	91.5	115.2	107.5	84.6	35.5	46.1	65.4	88.9	92.0	70.7	<b>936.9</b>
<b>Surgana</b>	25.1	43.7	69.8	91.2	114.5	107.7	84.8	35.2	45.6	64.8	88.3	89.8	67.7	<b>928.1</b>
<b>Baglan</b>	26.0	45.0	71.6	93.3	119.2	105.3	83.7	38.1	48.5	68.2	91.2	100.2	85.6	<b>975.9</b>
<b>Malegaon</b>	26.0	45.0	71.6	93.3	119.2	105.3	83.7	38.1	48.5	68.2	91.2	100.1	85.5	<b>975.6</b>
<b>Nandgaon</b>	25.6	44.2	69.9	91.5	115.2	107.9	84.7	35.1	46.0	65.3	88.8	91.4	69.7	<b>935.4</b>
<b>Chandwad</b>	25.9	44.8	71.4	93.1	118.7	105.7	83.8	37.7	48.1	67.7	90.7	98.7	83.1	<b>969.5</b>
<b>Niphad</b>	25.9	44.9	71.4	93.1	118.7	105.8	83.8	37.6	48.1	67.7	90.7	98.7	83.1	<b>969.6</b>
<b>Sinnar</b>	25.9	44.9	71.4	93.1	118.8	105.6	83.8	37.7	48.2	67.8	90.8	99.0	83.6	<b>970.8</b>
<b>Yeola</b>	25.8	44.6	70.8	92.5	117.3	107.6	84.4	36.0	46.8	66.2	89.5	94.1	75.2	<b>950.9</b>

**Table No. E-45: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Nashik District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	18.1	31.9	52.9	69.0	85.9	81.7	64.2	26.1	33.6	47.4	65.5	63.0	46.6	<b>685.8</b>
<b>Igatpuri</b>	18.4	32.2	52.5	68.5	85.6	80.7	63.7	26.6	33.9	48.1	65.9	65.7	49.3	<b>691.2</b>
<b>Dindori</b>	18.1	31.9	52.9	69.0	86.0	81.7	64.2	26.1	33.6	47.4	65.5	62.9	46.5	<b>685.8</b>
<b>Peth</b>	19.2	33.3	52.9	69.0	87.5	80.0	63.2	27.4	35.2	49.9	67.3	71.2	57.0	<b>713.1</b>
<b>Trimbakeshwar</b>	19.4	33.6	53.5	69.7	88.9	79.3	62.9	28.2	36.0	50.8	68.0	73.9	62.1	<b>726.4</b>
<b>Kalwan</b>	19.0	32.9	52.3	68.2	85.8	80.6	63.6	26.5	34.4	48.9	66.5	68.3	51.6	<b>698.6</b>
<b>Deola</b>	19.1	33.1	52.5	68.6	86.4	80.6	63.5	26.6	34.6	49.1	66.6	69.0	53.0	<b>702.6</b>
<b>Surgana</b>	18.8	32.7	52.4	68.4	85.9	80.8	63.6	26.4	34.2	48.6	66.2	67.3	50.8	<b>696.1</b>
<b>Baglan</b>	19.5	33.7	53.7	70.0	89.4	79.0	62.8	28.6	36.4	51.2	68.4	75.1	64.2	<b>731.9</b>
<b>Malegaon</b>	19.5	33.7	53.7	70.0	89.4	79.0	62.8	28.5	36.4	51.2	68.4	75.1	64.1	<b>731.7</b>
<b>Nandgaon</b>	19.2	33.2	52.4	68.6	86.4	80.9	63.5	26.4	34.5	49.0	66.6	68.6	52.3	<b>701.5</b>
<b>Chandwad</b>	19.4	33.6	53.6	69.8	89.0	79.3	62.8	28.3	36.1	50.8	68.0	74.0	62.3	<b>727.1</b>
<b>Niphad</b>	19.4	33.6	53.6	69.8	89.0	79.3	62.9	28.2	36.1	50.8	68.1	74.0	62.3	<b>727.2</b>
<b>Sinnar</b>	19.4	33.7	53.6	69.9	89.1	79.2	62.8	28.3	36.1	50.9	68.1	74.3	62.7	<b>728.1</b>
<b>Yeola</b>	19.4	33.5	53.1	69.4	87.9	80.7	63.3	27.0	35.1	49.7	67.1	70.6	56.4	<b>713.2</b>



**Table No. E-46: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Nashik District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	17.03	30.01	49.81	64.92	80.89	76.87	60.40	24.56	31.61	44.58	61.67	59.27	43.84	<b>645.5</b>
<b>Igatpuri</b>	17.29	30.32	49.41	64.49	80.58	75.95	59.97	25.01	31.92	45.27	62.02	61.87	46.41	<b>650.5</b>
<b>Dindori</b>	17.02	30.01	49.83	64.92	80.91	76.91	60.42	24.55	31.61	44.57	61.67	59.22	43.79	<b>645.4</b>
<b>Peth</b>	18.05	31.32	49.83	64.94	82.32	75.30	59.49	25.82	33.13	46.96	63.31	67.03	53.63	<b>671.2</b>
<b>Trimbakeshwar</b>	18.25	31.63	50.37	65.64	83.68	74.63	59.17	26.58	33.91	47.80	64.01	69.59	58.46	<b>683.7</b>
<b>Kalwan</b>	17.84	31.00	49.21	64.22	80.74	75.86	59.86	24.90	32.37	46.00	62.59	64.29	48.57	<b>657.5</b>
<b>Deola</b>	17.98	31.16	49.41	64.57	81.32	75.88	59.74	25.03	32.54	46.18	62.72	64.91	49.88	<b>661.3</b>
<b>Surgana</b>	17.72	30.82	49.28	64.38	80.82	76.00	59.87	24.85	32.20	45.72	62.35	63.38	47.77	<b>655.1</b>
<b>Baglan</b>	18.35	31.76	50.52	65.89	84.16	74.32	59.06	26.88	34.26	48.17	64.37	70.71	60.44	<b>688.9</b>
<b>Malegaon</b>	18.34	31.76	50.52	65.89	84.13	74.34	59.08	26.86	34.24	48.15	64.35	70.67	60.35	<b>688.7</b>
<b>Nandgaon</b>	18.04	31.22	49.32	64.57	81.34	76.17	59.80	24.80	32.48	46.08	62.67	64.54	49.22	<b>660.3</b>
<b>Chandwad</b>	18.27	31.64	50.41	65.72	83.78	74.63	59.15	26.59	33.94	47.82	64.03	69.68	58.67	<b>684.3</b>
<b>Niphad</b>	18.29	31.66	50.41	65.72	83.80	74.66	59.17	26.56	33.95	47.82	64.05	69.66	58.65	<b>684.4</b>
<b>Sinnar</b>	18.29	31.68	50.43	65.75	83.87	74.57	59.13	26.64	34.01	47.89	64.10	69.89	59.04	<b>685.3</b>
<b>Yeola</b>	18.23	31.49	49.99	65.29	82.77	75.97	59.55	25.45	33.04	46.76	63.20	66.44	53.05	<b>671.2</b>

**Table No. E-47: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	16.1	28.3	47.0	61.3	76.4	72.6	57.0	23.2	29.9	42.1	58.2	56.0	41.4	<b>609.6</b>
<b>Igatpuri</b>	16.3	28.6	46.7	60.9	76.1	71.7	56.6	23.6	30.1	42.8	58.6	58.4	43.8	<b>614.4</b>
<b>Dindori</b>	16.1	28.3	47.1	61.3	76.4	72.6	57.1	23.2	29.9	42.1	58.2	55.9	41.4	<b>609.6</b>
<b>Peth</b>	17.0	29.6	47.1	61.3	77.7	71.1	56.2	24.4	31.3	44.4	59.8	63.3	50.7	<b>633.9</b>
<b>Trimbakeshwar</b>	17.2	29.9	47.6	62.0	79.0	70.5	55.9	25.1	32.0	45.1	60.5	65.7	55.2	<b>645.7</b>
<b>Kalwan</b>	16.9	29.3	46.5	60.6	76.3	71.6	56.5	23.5	30.6	43.4	59.1	60.7	45.9	<b>620.9</b>
<b>Deola</b>	17.0	29.4	46.7	61.0	76.8	71.7	56.4	23.6	30.7	43.6	59.2	61.3	47.1	<b>624.6</b>
<b>Surgana</b>	16.7	29.1	46.5	60.8	76.3	71.8	56.5	23.5	30.4	43.2	58.9	59.9	45.1	<b>618.7</b>
<b>Baglan</b>	17.3	30.0	47.7	62.2	79.5	70.2	55.8	25.4	32.4	45.5	60.8	66.8	57.1	<b>650.6</b>
<b>Malegaon</b>	17.3	30.0	47.7	62.2	79.5	70.2	55.8	25.4	32.3	45.5	60.8	66.7	57.0	<b>650.4</b>
<b>Nandgaon</b>	17.0	29.5	46.6	61.0	76.8	71.9	56.5	23.4	30.7	43.5	59.2	61.0	46.5	<b>623.6</b>
<b>Chandwad</b>	17.3	29.9	47.6	62.1	79.1	70.5	55.9	25.1	32.1	45.2	60.5	65.8	55.4	<b>646.3</b>
<b>Niphad</b>	17.3	29.9	47.6	62.1	79.1	70.5	55.9	25.1	32.1	45.2	60.5	65.8	55.4	<b>646.4</b>
<b>Sinnar</b>	17.3	29.9	47.6	62.1	79.2	70.4	55.8	25.2	32.1	45.2	60.5	66.0	55.8	<b>647.2</b>
<b>Yeola</b>	17.2	29.7	47.2	61.7	78.2	71.7	56.2	24.0	31.2	44.2	59.7	62.7	50.1	<b>633.9</b>

**Table No. E-48: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Nashik District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Nashik</b>	15.24	26.85	44.57	58.08	72.37	68.78	54.04	21.98	28.29	39.89	55.17	53.03	39.23	<b>577.5</b>
<b>Igatpuri</b>	15.47	27.12	44.21	57.70	72.10	67.96	53.66	22.38	28.56	40.51	55.50	55.36	41.53	<b>582.0</b>
<b>Dindori</b>	15.23	26.85	44.59	58.08	72.39	68.82	54.06	21.97	28.29	39.88	55.17	52.99	39.18	<b>577.5</b>
<b>Peth</b>	16.15	28.03	44.59	58.11	73.65	67.37	53.23	23.10	29.64	42.02	56.65	59.98	47.99	<b>600.5</b>
<b>Trimbakeshwar</b>	16.33	28.30	45.07	58.73	74.87	66.77	52.94	23.78	30.34	42.77	57.27	62.27	52.30	<b>611.7</b>
<b>Kalwan</b>	15.96	27.74	44.03	57.46	72.25	67.87	53.56	22.28	28.96	41.16	56.00	57.52	43.46	<b>588.3</b>
<b>Deola</b>	16.09	27.88	44.21	57.77	72.76	67.89	53.45	22.40	29.11	41.32	56.12	58.08	44.63	<b>591.7</b>
<b>Surgana</b>	15.85	27.58	44.09	57.60	72.31	68.00	53.57	22.23	28.81	40.90	55.78	56.71	42.74	<b>586.2</b>
<b>Baglan</b>	16.42	28.42	45.21	58.95	75.30	66.49	52.85	24.05	30.65	43.10	57.59	63.27	54.08	<b>616.4</b>
<b>Malegaon</b>	16.41	28.42	45.21	58.95	75.28	66.51	52.86	24.04	30.64	43.08	57.58	63.23	53.99	<b>616.2</b>
<b>Nandgaon</b>	16.14	27.94	44.13	57.77	72.78	68.15	53.51	22.19	29.06	41.23	56.07	57.75	44.04	<b>590.8</b>
<b>Chandwad</b>	16.35	28.31	45.11	58.81	74.96	66.77	52.92	23.80	30.37	42.79	57.29	62.35	52.50	<b>612.3</b>
<b>Niphad</b>	16.37	28.33	45.11	58.81	74.98	66.80	52.94	23.76	30.38	42.79	57.31	62.33	52.48	<b>612.4</b>
<b>Sinnar</b>	16.37	28.34	45.13	58.83	75.04	66.72	52.91	23.84	30.43	42.85	57.36	62.53	52.82	<b>613.2</b>
<b>Yeola</b>	16.31	28.18	44.73	58.42	74.06	67.97	53.28	22.77	29.56	41.83	56.54	59.45	47.47	<b>600.6</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Pune District**

**Table No. E-49: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	14.3	25.3	41.8	54.4	69.6	63.4	49.8	23.7	27.5	39.8	53.1	56.1	43.5	<b>562.6</b>
<b>Haveli</b>	14.6	25.9	42.0	53.9	69.7	62.6	49.8	24.0	28.2	41.2	54.3	59.3	46.3	<b>572.0</b>
<b>Khed</b>	14.6	25.8	41.9	54.2	69.4	62.8	49.9	23.7	28.0	40.6	53.8	58.2	45.7	<b>568.6</b>
<b>Junnar</b>	14.2	25.0	41.7	54.9	68.9	63.3	49.8	22.9	26.9	38.7	52.2	53.6	41.2	<b>553.3</b>
<b>Ambegaon</b>	14.6	25.8	41.9	54.2	69.2	62.7	50.0	23.6	28.0	40.5	53.8	58.2	45.6	<b>568.0</b>
<b>Vadgaon Maval</b>	14.7	25.9	41.7	53.7	68.1	61.8	50.1	23.4	28.0	40.6	53.8	59.0	45.7	<b>566.6</b>
<b>Mulshi</b>	14.1	24.8	41.5	55.0	68.6	63.2	49.8	22.5	26.6	38.1	51.7	52.2	39.9	<b>548.2</b>
<b>Shirur</b>	14.6	25.8	41.7	53.9	68.4	62.3	50.1	23.3	27.8	40.3	53.6	58.0	44.9	<b>564.7</b>
<b>Purandar</b>	14.1	24.8	41.4	54.9	68.2	63.4	50.0	22.2	26.6	37.9	51.6	51.5	39.1	<b>545.6</b>
<b>Velhe</b>	14.5	25.6	41.7	54.2	68.5	62.7	50.1	22.9	27.5	39.7	53.2	56.3	43.4	<b>560.4</b>
<b>Bhor</b>	13.9	24.5	41.1	54.6	67.6	63.7	50.4	21.8	26.4	37.8	51.5	50.5	37.8	<b>541.7</b>
<b>Baramati</b>	14.8	26.0	41.9	54.5	69.2	62.9	50.1	23.0	28.0	40.2	53.7	57.5	45.4	<b>567.2</b>
<b>Indapur</b>	14.7	25.8	41.8	54.3	68.6	62.8	50.2	22.8	27.7	39.9	53.4	56.8	44.0	<b>562.6</b>
<b>Daund</b>	14.9	26.0	41.9	54.5	69.0	63.1	50.3	22.7	27.9	40.0	53.6	57.0	44.6	<b>565.4</b>

**Table No. E-50: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	35.9	63.3	104.5	136.1	174.1	158.6	124.5	59.3	68.6	99.5	132.8	140.4	108.8	<b>1406.4</b>
<b>Haveli</b>	36.5	64.8	105.0	134.6	174.3	156.6	124.6	60.1	70.5	103.0	135.7	148.4	115.8	<b>1429.9</b>
<b>Khed</b>	36.5	64.4	104.7	135.5	173.5	157.1	124.8	59.2	69.9	101.5	134.5	145.6	114.2	<b>1421.5</b>
<b>Junnar</b>	35.5	62.5	104.1	137.1	172.3	158.2	124.5	57.3	67.3	96.7	130.5	134.0	102.9	<b>1383.2</b>
<b>Ambegaon</b>	36.5	64.5	104.7	135.4	173.1	156.8	124.9	59.0	69.9	101.3	134.5	145.5	114.0	<b>1420.1</b>
<b>Vadgaon Maval</b>	36.7	64.8	104.1	134.3	170.2	154.6	125.4	58.6	70.0	101.5	134.6	147.4	114.3	<b>1416.6</b>
<b>Mulshi</b>	35.3	62.1	103.8	137.6	171.4	158.0	124.5	56.2	66.6	95.3	129.3	130.6	99.7	<b>1370.4</b>
<b>Shirur</b>	36.5	64.5	104.2	134.9	171.0	155.7	125.2	58.3	69.6	100.7	134.0	144.9	112.2	<b>1411.8</b>
<b>Purandar</b>	35.2	61.9	103.5	137.3	170.5	158.4	125.0	55.4	66.4	94.9	129.0	128.9	97.7	<b>1364.0</b>
<b>Velhe</b>	36.3	64.0	104.1	135.5	171.2	156.8	125.3	57.3	68.8	99.2	132.9	140.7	108.5	<b>1400.9</b>
<b>Bhor</b>	34.7	61.2	102.7	136.4	169.0	159.4	126.1	54.6	66.1	94.5	128.8	126.2	94.6	<b>1354.3</b>
<b>Baramati</b>	37.0	65.0	104.9	136.2	173.1	157.3	125.3	57.4	69.9	100.5	134.3	143.9	113.4	<b>1418.1</b>
<b>Indapur</b>	36.7	64.5	104.4	135.7	171.4	157.0	125.5	57.0	69.3	99.6	133.4	141.9	110.0	<b>1406.5</b>
<b>Daund</b>	37.1	65.1	104.8	136.3	172.5	157.7	125.6	56.7	69.7	99.9	134.0	142.5	111.6	<b>1413.5</b>

**Table No. E-51: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	28.7	50.7	83.6	108.9	139.3	126.9	99.6	47.4	54.9	79.6	106.3	112.3	87.1	<b>1125.1</b>
<b>Haveli</b>	29.2	51.9	84.0	107.7	139.4	125.3	99.7	48.1	56.4	82.4	108.6	118.7	92.7	<b>1143.9</b>
<b>Khed</b>	29.2	51.5	83.8	108.4	138.8	125.7	99.9	47.4	56.0	81.2	107.6	116.5	91.4	<b>1137.2</b>
<b>Junnar</b>	28.4	50.0	83.3	109.7	137.9	126.5	99.6	45.9	53.8	77.4	104.4	107.2	82.3	<b>1106.6</b>
<b>Ambegaon</b>	29.2	51.6	83.7	108.3	138.4	125.4	99.9	47.2	55.9	81.0	107.6	116.4	91.2	<b>1136.0</b>
<b>Vadgaon Maval</b>	29.4	51.9	83.3	107.4	136.2	123.7	100.3	46.8	56.0	81.2	107.7	118.0	91.5	<b>1133.3</b>
<b>Mulshi</b>	28.3	49.7	83.1	110.1	137.1	126.4	99.6	44.9	53.3	76.2	103.4	104.4	79.7	<b>1096.3</b>
<b>Shirur</b>	29.2	51.6	83.4	107.9	136.8	124.6	100.2	46.6	55.7	80.6	107.2	115.9	89.8	<b>1129.4</b>
<b>Purandar</b>	28.2	49.5	82.8	109.9	136.4	126.7	100.0	44.3	53.1	75.9	103.2	103.1	78.2	<b>1091.2</b>
<b>Velhe</b>	29.1	51.2	83.3	108.4	136.9	125.5	100.2	45.9	55.1	79.4	106.3	112.6	86.8	<b>1120.8</b>
<b>Bhor</b>	27.8	49.0	82.1	109.1	135.2	127.5	100.9	43.7	52.9	75.6	103.1	100.9	75.6	<b>1083.5</b>
<b>Baramati</b>	29.6	52.0	83.9	108.9	138.5	125.9	100.2	45.9	56.0	80.4	107.4	115.1	90.7	<b>1134.5</b>
<b>Indapur</b>	29.4	51.6	83.5	108.5	137.1	125.6	100.4	45.6	55.4	79.7	106.8	113.5	88.0	<b>1125.2</b>
<b>Daund</b>	29.7	52.1	83.8	109.1	138.0	126.2	100.5	45.3	55.7	79.9	107.2	114.0	89.3	<b>1130.8</b>

**Table No. E-52: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	23.9	42.2	69.7	90.7	116.0	105.7	83.0	39.5	45.8	66.3	88.6	93.6	72.5	<b>937.6</b>
<b>Haveli</b>	24.4	43.2	70.0	89.8	116.2	104.4	83.1	40.1	47.0	68.7	90.5	98.9	77.2	<b>953.3</b>
<b>Khed</b>	24.3	42.9	69.8	90.3	115.7	104.7	83.2	39.5	46.6	67.6	89.7	97.1	76.2	<b>947.7</b>
<b>Junnar</b>	23.7	41.7	69.4	91.4	114.9	105.4	83.0	38.2	44.9	64.5	87.0	89.4	68.6	<b>922.1</b>
<b>Ambegaon</b>	24.4	43.0	69.8	90.3	115.4	104.5	83.3	39.3	46.6	67.5	89.6	97.0	76.0	<b>946.7</b>
<b>Vadgaon Maval</b>	24.5	43.2	69.4	89.5	113.5	103.0	83.6	39.0	46.7	67.7	89.7	98.3	76.2	<b>944.4</b>
<b>Mulshi</b>	23.6	41.4	69.2	91.7	114.3	105.4	83.0	37.4	44.4	63.5	86.2	87.0	66.4	<b>913.6</b>
<b>Shirur</b>	24.4	43.0	69.5	89.9	114.0	103.8	83.5	38.8	46.4	67.2	89.3	96.6	74.8	<b>941.2</b>
<b>Purandar</b>	23.5	41.3	69.0	91.5	113.7	105.6	83.3	36.9	44.3	63.2	86.0	85.9	65.2	<b>909.4</b>
<b>Velhe</b>	24.2	42.7	69.4	90.4	114.1	104.6	83.5	38.2	45.9	66.2	88.6	93.8	72.3	<b>934.0</b>
<b>Bhor</b>	23.2	40.8	68.5	90.9	112.7	106.2	84.1	36.4	44.1	63.0	85.9	84.1	63.0	<b>902.9</b>
<b>Baramati</b>	24.7	43.3	69.9	90.8	115.4	104.9	83.5	38.3	46.6	67.0	89.5	95.9	75.6	<b>945.4</b>
<b>Indapur</b>	24.5	43.0	69.6	90.4	114.3	104.6	83.7	38.0	46.2	66.4	89.0	94.6	73.3	<b>937.7</b>
<b>Daund</b>	24.8	43.4	69.8	90.9	115.0	105.1	83.8	37.8	46.5	66.6	89.3	95.0	74.4	<b>942.3</b>

**Table No. E-53: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	17.9	31.7	52.3	68.1	87.0	79.3	62.3	29.6	34.3	49.7	66.4	70.2	54.4	<b>703.2</b>
<b>Haveli</b>	18.3	32.4	52.5	67.3	87.1	78.3	62.3	30.1	35.3	51.5	67.8	74.2	57.9	<b>715.0</b>
<b>Khed</b>	18.2	32.2	52.4	67.7	86.8	78.5	62.4	29.6	35.0	50.7	67.3	72.8	57.1	<b>710.8</b>
<b>Junnar</b>	17.8	31.3	52.1	68.6	86.2	79.1	62.3	28.7	33.6	48.4	65.3	67.0	51.4	<b>691.6</b>
<b>Ambegaon</b>	18.3	32.2	52.3	67.7	86.5	78.4	62.5	29.5	35.0	50.6	67.2	72.8	57.0	<b>710.0</b>
<b>Vadgaon Maval</b>	18.4	32.4	52.1	67.1	85.1	77.3	62.7	29.3	35.0	50.7	67.3	73.7	57.2	<b>708.3</b>
<b>Mulshi</b>	17.7	31.0	51.9	68.8	85.7	79.0	62.3	28.1	33.3	47.6	64.7	65.3	49.8	<b>685.2</b>
<b>Shirur</b>	18.3	32.2	52.1	67.4	85.5	77.8	62.6	29.1	34.8	50.4	67.0	72.4	56.1	<b>705.9</b>
<b>Purandar</b>	17.6	30.9	51.7	68.7	85.3	79.2	62.5	27.7	33.2	47.4	64.5	64.4	48.9	<b>682.0</b>
<b>Velhe</b>	18.2	32.0	52.1	67.8	85.6	78.4	62.6	28.7	34.4	49.6	66.5	70.4	54.3	<b>700.5</b>
<b>Bhor</b>	17.4	30.6	51.3	68.2	84.5	79.7	63.1	27.3	33.0	47.3	64.4	63.1	47.3	<b>677.2</b>
<b>Baramati</b>	18.5	32.5	52.4	68.1	86.6	78.7	62.7	28.7	35.0	50.2	67.1	71.9	56.7	<b>709.0</b>
<b>Indapur</b>	18.4	32.3	52.2	67.8	85.7	78.5	62.8	28.5	34.6	49.8	66.7	71.0	55.0	<b>703.2</b>
<b>Daund</b>	18.6	32.5	52.4	68.2	86.3	78.8	62.8	28.3	34.8	50.0	67.0	71.2	55.8	<b>706.8</b>



**Table No. E-54: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	16.9	29.8	49.2	64.1	81.9	74.6	58.6	27.9	32.3	46.8	62.5	66.1	51.2	<b>661.9</b>
<b>Haveli</b>	17.2	30.5	49.4	63.4	82.0	73.7	58.6	28.3	33.2	48.5	63.9	69.8	54.5	<b>672.9</b>
<b>Khed</b>	17.2	30.3	49.3	63.8	81.7	73.9	58.7	27.9	32.9	47.7	63.3	68.5	53.8	<b>669.0</b>
<b>Junnar</b>	16.7	29.4	49.0	64.5	81.1	74.4	58.6	27.0	31.7	45.5	61.4	63.1	48.4	<b>650.9</b>
<b>Ambegaon</b>	17.2	30.3	49.3	63.7	81.4	73.8	58.8	27.8	32.9	47.7	63.3	68.5	53.7	<b>668.3</b>
<b>Vadgaon Maval</b>	17.3	30.5	49.0	63.2	80.1	72.7	59.0	27.6	33.0	47.8	63.3	69.4	53.8	<b>666.6</b>
<b>Mulshi</b>	16.6	29.2	48.9	64.8	80.6	74.4	58.6	26.4	31.3	44.8	60.9	61.4	46.9	<b>644.9</b>
<b>Shirur</b>	17.2	30.3	49.1	63.5	80.5	73.3	58.9	27.4	32.8	47.4	63.1	68.2	52.8	<b>664.4</b>
<b>Purandar</b>	16.6	29.1	48.7	64.6	80.2	74.5	58.8	26.1	31.2	44.6	60.7	60.6	46.0	<b>641.9</b>
<b>Velhe</b>	17.1	30.1	49.0	63.8	80.6	73.8	59.0	27.0	32.4	46.7	62.6	66.2	51.1	<b>659.3</b>
<b>Bhor</b>	16.3	28.8	48.3	64.2	79.6	75.0	59.3	25.7	31.1	44.5	60.6	59.4	44.5	<b>637.3</b>
<b>Baramati</b>	17.4	30.6	49.3	64.1	81.5	74.0	59.0	27.0	32.9	47.3	63.2	67.7	53.4	<b>667.3</b>
<b>Indapur</b>	17.3	30.4	49.1	63.8	80.7	73.9	59.1	26.8	32.6	46.9	62.8	66.8	51.7	<b>661.9</b>
<b>Daund</b>	17.5	30.6	49.3	64.2	81.2	74.2	59.1	26.7	32.8	47.0	63.0	67.1	52.5	<b>665.2</b>

**Table No. E-55: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	15.9	28.1	46.5	60.5	77.4	70.5	55.3	26.3	30.5	44.2	59.0	62.4	48.4	<b>625.1</b>
<b>Haveli</b>	16.2	28.8	46.6	59.8	77.5	69.6	55.4	26.7	31.3	45.8	60.3	65.9	51.5	<b>635.5</b>
<b>Khed</b>	16.2	28.6	46.5	60.2	77.1	69.8	55.5	26.3	31.1	45.1	59.8	64.7	50.8	<b>631.8</b>
<b>Junnar</b>	15.8	27.8	46.3	61.0	76.6	70.3	55.3	25.5	29.9	43.0	58.0	59.6	45.7	<b>614.8</b>
<b>Ambegaon</b>	16.2	28.7	46.5	60.2	76.9	69.7	55.5	26.2	31.1	45.0	59.8	64.7	50.7	<b>631.1</b>
<b>Vadgaon Maval</b>	16.3	28.8	46.3	59.7	75.7	68.7	55.7	26.0	31.1	45.1	59.8	65.5	50.8	<b>629.6</b>
<b>Mulshi</b>	15.7	27.6	46.1	61.2	76.2	70.2	55.4	25.0	29.6	42.4	57.5	58.0	44.3	<b>609.1</b>
<b>Shirur</b>	16.2	28.7	46.3	59.9	76.0	69.2	55.6	25.9	30.9	44.8	59.6	64.4	49.9	<b>627.5</b>
<b>Purandar</b>	15.6	27.5	46.0	61.0	75.8	70.4	55.6	24.6	29.5	42.2	57.3	57.3	43.4	<b>606.2</b>
<b>Velhe</b>	16.2	28.4	46.3	60.2	76.1	69.7	55.7	25.5	30.6	44.1	59.1	62.6	48.2	<b>622.6</b>
<b>Bhor</b>	15.4	27.2	45.6	60.6	75.1	70.8	56.1	24.3	29.4	42.0	57.3	56.1	42.0	<b>601.9</b>
<b>Baramati</b>	16.4	28.9	46.6	60.5	76.9	69.9	55.7	25.5	31.1	44.7	59.7	63.9	50.4	<b>630.3</b>
<b>Indapur</b>	16.3	28.7	46.4	60.3	76.2	69.8	55.8	25.4	30.8	44.3	59.3	63.1	48.9	<b>625.1</b>
<b>Daund</b>	16.5	28.9	46.6	60.6	76.7	70.1	55.8	25.2	31.0	44.4	59.5	63.3	49.6	<b>628.2</b>

**Table No. E-56: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Pune District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Pune City</b>	15.1	26.7	44.0	57.3	73.3	66.8	52.4	25.0	28.9	41.9	55.9	59.1	45.8	<b>592.2</b>
<b>Haveli</b>	15.4	27.3	44.2	56.7	73.4	65.9	52.5	25.3	29.7	43.4	57.1	62.5	48.8	<b>602.1</b>
<b>Khed</b>	15.4	27.1	44.1	57.0	73.1	66.1	52.6	24.9	29.4	42.7	56.6	61.3	48.1	<b>598.5</b>
<b>Junnar</b>	15.0	26.3	43.9	57.7	72.6	66.6	52.4	24.1	28.3	40.7	55.0	56.4	43.3	<b>582.4</b>
<b>Ambegaon</b>	15.4	27.2	44.1	57.0	72.9	66.0	52.6	24.8	29.4	42.6	56.6	61.3	48.0	<b>597.9</b>
<b>Vadgaon Maval</b>	15.5	27.3	43.9	56.5	71.7	65.1	52.8	24.7	29.5	42.7	56.7	62.1	48.1	<b>596.5</b>
<b>Mulshi</b>	14.9	26.1	43.7	57.9	72.2	66.5	52.4	23.6	28.0	40.1	54.4	55.0	42.0	<b>577.0</b>
<b>Shirur</b>	15.4	27.2	43.9	56.8	72.0	65.6	52.7	24.5	29.3	42.4	56.4	61.0	47.2	<b>594.4</b>
<b>Purandar</b>	14.8	26.1	43.6	57.8	71.8	66.7	52.6	23.3	27.9	39.9	54.3	54.3	41.2	<b>574.3</b>
<b>Velhe</b>	15.3	26.9	43.9	57.1	72.1	66.0	52.8	24.1	29.0	41.8	56.0	59.3	45.7	<b>589.9</b>
<b>Bhor</b>	14.6	25.8	43.2	57.4	71.2	67.1	53.1	23.0	27.8	39.8	54.2	53.1	39.8	<b>570.3</b>
<b>Baramati</b>	15.6	27.4	44.2	57.3	72.9	66.3	52.8	24.2	29.4	42.3	56.5	60.6	47.7	<b>597.1</b>
<b>Indapur</b>	15.5	27.2	44.0	57.1	72.2	66.1	52.9	24.0	29.2	42.0	56.2	59.8	46.3	<b>592.2</b>
<b>Daund</b>	15.6	27.4	44.1	57.4	72.7	66.4	52.9	23.9	29.3	42.1	56.4	60.0	47.0	<b>595.2</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Sangli District**

**Table No. E-57: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	14.4	25.4	42.0	55.0	70.2	63.5	50.0	24.4	28.0	40.6	53.6	58.0	46.4	<b>571.3</b>
<b>Kavathe Mahakal</b>	14.1	25.2	42.2	55.5	70.8	63.9	50.3	25.4	28.3	41.1	53.6	58.9	48.0	<b>577.3</b>
<b>Tasgaon</b>	14.3	25.3	42.1	55.2	70.5	63.7	50.1	24.9	28.1	40.8	53.6	58.5	47.1	<b>574.1</b>
<b>Jath</b>	14.1	25.2	42.2	55.3	70.7	63.9	50.2	25.3	28.2	41.0	53.6	58.7	47.5	<b>575.8</b>
<b>Walwa</b>	14.2	25.2	42.2	55.4	70.7	63.8	50.2	25.3	28.2	41.0	53.6	58.8	47.8	<b>576.4</b>
<b>Shirala</b>	13.9	24.9	42.4	56.1	71.4	64.3	50.6	26.5	28.5	41.6	53.6	59.8	49.8	<b>583.4</b>
<b>Vita</b>	14.4	25.4	42.0	54.9	70.2	63.5	50.0	24.3	28.0	40.6	53.6	58.0	46.4	<b>571.3</b>
<b>Atpadi</b>	14.1	25.1	42.3	55.7	71.0	64.0	50.4	25.8	28.3	41.2	53.6	59.2	48.5	<b>579.2</b>
<b>Palus</b>	14.3	25.4	42.1	55.0	70.2	63.5	50.1	24.5	28.0	40.7	53.6	58.2	46.6	<b>572.3</b>
<b>Kadegaon</b>	14.3	25.4	42.0	54.7	70.4	63.7	49.9	24.6	28.0	40.8	53.7	58.3	46.4	<b>572.4</b>

**Table No. E-58: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal IWR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	35.9	63.6	105.1	137.4	175.4	158.7	125.1	60.9	70.0	101.4	133.9	144.9	115.9	<b>1428.2</b>
<b>Kavathe Mahakal</b>	35.3	62.9	105.5	138.7	177.0	159.7	125.7	63.6	70.6	102.7	134.1	147.3	120.0	<b>1443.2</b>
<b>Tasgaon</b>	35.6	63.2	105.3	137.9	176.1	159.2	125.4	62.2	70.3	102.1	134.0	146.1	117.8	<b>1435.3</b>
<b>Jath</b>	35.4	62.9	105.4	138.3	176.8	159.8	125.5	63.2	70.4	102.5	134.0	146.7	118.8	<b>1439.5</b>
<b>Walwa</b>	35.4	63.0	105.4	138.4	176.8	159.6	125.6	63.2	70.6	102.6	134.1	147.0	119.4	<b>1440.9</b>
<b>Shirala</b>	34.8	62.2	106.0	140.4	178.5	160.8	126.5	66.2	71.4	103.9	134.1	149.5	124.4	<b>1458.6</b>
<b>Vita</b>	35.9	63.6	105.1	137.3	175.4	158.7	125.1	60.9	70.0	101.5	133.9	145.0	115.9	<b>1428.4</b>
<b>Atpadi</b>	35.2	62.7	105.7	139.2	177.5	160.0	125.9	64.4	70.9	103.1	134.1	148.0	121.3	<b>1447.9</b>
<b>Palus</b>	35.9	63.5	105.1	137.4	175.6	158.9	125.2	61.3	70.1	101.7	134.0	145.5	116.5	<b>1430.7</b>
<b>Kadegaon</b>	35.7	63.4	105.0	136.7	176.0	159.3	124.8	61.6	70.0	102.1	134.4	145.8	116.0	<b>1430.9</b>

**Table No. E-59: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	28.7	50.9	84.1	109.9	140.3	127.0	100.1	48.7	56.0	81.1	107.1	115.9	92.7	<b>1142.6</b>
<b>Kavathe Mahakal</b>	28.3	50.3	84.4	111.0	141.6	127.8	100.6	50.9	56.5	82.2	107.2	117.8	96.0	<b>1154.5</b>
<b>Tasgaon</b>	28.5	50.6	84.2	110.3	140.9	127.4	100.3	49.8	56.2	81.7	107.2	116.9	94.3	<b>1148.3</b>
<b>Jath</b>	28.3	50.3	84.3	110.6	141.4	127.8	100.4	50.6	56.3	82.0	107.2	117.3	95.0	<b>1151.6</b>
<b>Walwa</b>	28.3	50.4	84.3	110.7	141.4	127.7	100.5	50.6	56.4	82.0	107.2	117.6	95.5	<b>1152.7</b>
<b>Shirala</b>	27.8	49.7	84.8	112.3	142.8	128.6	101.2	53.0	57.1	83.1	107.2	119.6	99.5	<b>1166.9</b>
<b>Vita</b>	28.8	50.9	84.1	109.9	140.3	127.0	100.1	48.7	56.0	81.2	107.1	116.0	92.7	<b>1142.7</b>
<b>Atpadi</b>	28.1	50.1	84.5	111.3	142.0	128.0	100.7	51.5	56.7	82.5	107.3	118.4	97.1	<b>1158.3</b>
<b>Palus</b>	28.7	50.8	84.1	109.9	140.5	127.1	100.1	49.0	56.1	81.4	107.2	116.4	93.2	<b>1144.6</b>
<b>Kadegaon</b>	28.6	50.7	84.0	109.4	140.8	127.4	99.9	49.3	56.0	81.7	107.5	116.6	92.8	<b>1144.7</b>

**Table No. E-60: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	23.9	42.4	70.1	91.6	116.9	105.8	83.4	40.6	46.7	67.6	89.3	96.6	77.3	<b>952.1</b>
<b>Kavathe Mahakal</b>	23.6	41.9	70.3	92.5	118.0	106.5	83.8	42.4	47.1	68.5	89.4	98.2	80.0	<b>962.1</b>
<b>Tasgaon</b>	23.8	42.2	70.2	91.9	117.4	106.1	83.6	41.5	46.9	68.1	89.3	97.4	78.6	<b>956.9</b>
<b>Jath</b>	23.6	41.9	70.3	92.2	117.8	106.5	83.7	42.1	47.0	68.3	89.3	97.8	79.2	<b>959.7</b>
<b>Walwa</b>	23.6	42.0	70.3	92.3	117.8	106.4	83.7	42.1	47.0	68.4	89.4	98.0	79.6	<b>960.6</b>
<b>Shirala</b>	23.2	41.4	70.7	93.6	119.0	107.2	84.3	44.2	47.6	69.3	89.4	99.7	82.9	<b>972.4</b>
<b>Vita</b>	24.0	42.4	70.1	91.5	116.9	105.8	83.4	40.6	46.7	67.6	89.3	96.7	77.3	<b>952.2</b>
<b>Atpadi</b>	23.4	41.8	70.4	92.8	118.3	106.7	83.9	42.9	47.2	68.7	89.4	98.7	80.9	<b>965.3</b>
<b>Palus</b>	23.9	42.3	70.1	91.6	117.1	105.9	83.5	40.9	46.7	67.8	89.3	97.0	77.7	<b>953.8</b>
<b>Kadegaon</b>	23.8	42.3	70.0	91.2	117.3	106.2	83.2	41.1	46.7	68.0	89.6	97.2	77.4	<b>953.9</b>

**Table No. E-61: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	18.0	31.8	52.5	68.7	87.7	79.3	62.6	30.4	35.0	50.7	66.9	72.5	58.0	<b>714.1</b>
<b>Kavathe Mahakal</b>	17.7	31.4	52.8	69.3	88.5	79.9	62.9	31.8	35.3	51.4	67.0	73.7	60.0	<b>721.6</b>
<b>Tasgaon</b>	17.8	31.6	52.6	68.9	88.1	79.6	62.7	31.1	35.2	51.0	67.0	73.1	58.9	<b>717.7</b>
<b>Jath</b>	17.7	31.4	52.7	69.1	88.4	79.9	62.8	31.6	35.2	51.2	67.0	73.3	59.4	<b>719.8</b>
<b>Walwa</b>	17.7	31.5	52.7	69.2	88.4	79.8	62.8	31.6	35.3	51.3	67.0	73.5	59.7	<b>720.5</b>
<b>Shirala</b>	17.4	31.1	53.0	70.2	89.3	80.4	63.2	33.1	35.7	51.9	67.0	74.7	62.2	<b>729.3</b>
<b>Vita</b>	18.0	31.8	52.5	68.7	87.7	79.3	62.6	30.4	35.0	50.7	67.0	72.5	58.0	<b>714.2</b>
<b>Atpadi</b>	17.6	31.3	52.8	69.6	88.7	80.0	63.0	32.2	35.4	51.6	67.0	74.0	60.7	<b>723.9</b>
<b>Palus</b>	17.9	31.7	52.6	68.7	87.8	79.4	62.6	30.7	35.1	50.9	67.0	72.7	58.3	<b>715.4</b>
<b>Kadegaon</b>	17.9	31.7	52.5	68.4	88.0	79.6	62.4	30.8	35.0	51.0	67.2	72.9	58.0	<b>715.5</b>



**Table No. E-62: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	16.9	29.9	49.5	64.6	82.5	74.7	58.9	28.7	32.9	47.7	63.0	68.2	54.6	<b>672.1</b>
<b>Kavathe Mahakal</b>	16.6	29.6	49.7	65.3	83.3	75.2	59.2	29.9	33.2	48.3	63.1	69.3	56.5	<b>679.1</b>
<b>Tasgaon</b>	16.8	29.8	49.5	64.9	82.9	74.9	59.0	29.3	33.1	48.0	63.1	68.8	55.5	<b>675.5</b>
<b>Jath</b>	16.6	29.6	49.6	65.1	83.2	75.2	59.1	29.7	33.1	48.2	63.1	69.0	55.9	<b>677.4</b>
<b>Walwa</b>	16.7	29.6	49.6	65.1	83.2	75.1	59.1	29.7	33.2	48.3	63.1	69.2	56.2	<b>678.1</b>
<b>Shirala</b>	16.4	29.3	49.9	66.0	84.0	75.7	59.5	31.2	33.6	48.9	63.1	70.3	58.6	<b>686.4</b>
<b>Vita</b>	16.9	29.9	49.5	64.6	82.5	74.7	58.9	28.6	32.9	47.7	63.0	68.2	54.6	<b>672.2</b>
<b>Atpadi</b>	16.5	29.5	49.7	65.5	83.5	75.3	59.3	30.3	33.3	48.5	63.1	69.7	57.1	<b>681.4</b>
<b>Palus</b>	16.9	29.9	49.5	64.7	82.6	74.8	58.9	28.9	33.0	47.9	63.1	68.5	54.8	<b>673.3</b>
<b>Kadegaon</b>	16.8	29.8	49.4	64.4	82.8	75.0	58.7	29.0	33.0	48.0	63.2	68.6	54.6	<b>673.4</b>

**Table No. E-63: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	16.0	28.3	46.7	61.1	77.9	70.5	55.6	27.1	31.1	45.1	59.5	64.4	51.5	<b>634.8</b>
<b>Kvathe Mahakal</b>	15.7	28.0	46.9	61.6	78.6	71.0	55.9	28.3	31.4	45.7	59.6	65.5	53.3	<b>641.4</b>
<b>Tasgaon</b>	15.8	28.1	46.8	61.3	78.3	70.8	55.7	27.6	31.2	45.4	59.6	65.0	52.4	<b>637.9</b>
<b>Jath</b>	15.7	28.0	46.8	61.5	78.6	71.0	55.8	28.1	31.3	45.5	59.6	65.2	52.8	<b>639.8</b>
<b>Walwa</b>	15.7	28.0	46.9	61.5	78.6	70.9	55.8	28.1	31.4	45.6	59.6	65.3	53.1	<b>640.4</b>
<b>Shirala</b>	15.5	27.6	47.1	62.4	79.3	71.5	56.2	29.4	31.7	46.2	59.6	66.4	55.3	<b>648.3</b>
<b>Vita</b>	16.0	28.3	46.7	61.0	77.9	70.5	55.6	27.1	31.1	45.1	59.5	64.5	51.5	<b>634.8</b>
<b>Atpadi</b>	15.6	27.9	47.0	61.8	78.9	71.1	56.0	28.6	31.5	45.8	59.6	65.8	53.9	<b>643.5</b>
<b>Palus</b>	15.9	28.2	46.7	61.1	78.0	70.6	55.6	27.2	31.2	45.2	59.6	64.6	51.8	<b>635.9</b>
<b>Kadegaon</b>	15.9	28.2	46.7	60.8	78.2	70.8	55.5	27.4	31.1	45.4	59.7	64.8	51.6	<b>636.0</b>

**Table No. E-64: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Sangli District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Miraj</b>	15.1	26.8	44.3	57.8	73.8	66.8	52.7	25.6	29.5	42.7	56.4	61.0	48.8	<b>601.3</b>
<b>Kavathe Mahakal</b>	14.9	26.5	44.4	58.4	74.5	67.3	52.9	26.8	29.7	43.3	56.4	62.0	50.5	<b>607.6</b>
<b>Tasgaon</b>	15.0	26.6	44.3	58.1	74.2	67.0	52.8	26.2	29.6	43.0	56.4	61.5	49.6	<b>604.4</b>
<b>Jath</b>	14.9	26.5	44.4	58.2	74.4	67.3	52.9	26.6	29.7	43.1	56.4	61.8	50.0	<b>606.1</b>
<b>Walwa</b>	14.9	26.5	44.4	58.3	74.4	67.2	52.9	26.6	29.7	43.2	56.4	61.9	50.3	<b>606.7</b>
<b>Shirala</b>	14.6	26.2	44.6	59.1	75.2	67.7	53.3	27.9	30.0	43.7	56.4	62.9	52.4	<b>614.1</b>
<b>Vita</b>	15.1	26.8	44.3	57.8	73.8	66.8	52.7	25.6	29.5	42.7	56.4	61.1	48.8	<b>601.4</b>
<b>Atpadi</b>	14.8	26.4	44.5	58.6	74.7	67.4	53.0	27.1	29.8	43.4	56.5	62.3	51.1	<b>609.6</b>
<b>Palus</b>	15.1	26.7	44.3	57.9	73.9	66.9	52.7	25.8	29.5	42.8	56.4	61.2	49.1	<b>602.4</b>
<b>Kadegaon</b>	15.0	26.7	44.2	57.6	74.1	67.1	52.6	25.9	29.5	43.0	56.6	61.4	48.9	<b>602.5</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Satara District**

**Table No. E-65: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	14.5	25.8	41.9	53.7	70.7	63.7	49.5	24.6	28.3	41.7	54.7	60.2	47.5	<b>576.8</b>
<b>Jaoli</b>	14.4	25.7	41.9	53.9	70.4	63.6	49.6	24.4	28.2	41.3	54.4	59.4	46.8	<b>574.0</b>
<b>Koregaon</b>	14.3	25.3	41.9	54.4	70.1	63.7	49.8	24.1	27.5	40.1	53.4	56.7	44.1	<b>565.3</b>
<b>Wai</b>	14.2	25.0	41.9	54.8	69.8	63.8	49.9	23.9	27.0	38.9	52.4	54.3	41.7	<b>557.7</b>
<b>Mahabaleshwar</b>	14.5	25.7	41.8	53.7	70.6	63.6	49.5	24.5	28.3	41.6	54.7	60.0	47.4	<b>576.1</b>
<b>Khandala</b>	14.4	25.5	41.9	54.1	70.2	63.6	49.7	24.2	27.9	40.7	53.9	58.1	45.5	<b>569.7</b>
<b>Phaltan</b>	14.5	25.7	41.8	53.7	70.6	63.6	49.5	24.5	28.3	41.6	54.7	60.0	47.3	<b>575.9</b>
<b>Dahivadi</b>	14.1	24.8	41.9	55.1	69.8	64.1	50.1	24.0	26.6	38.1	51.8	52.6	39.9	<b>553.0</b>
<b>Vaduj</b>	14.5	25.8	41.9	53.9	70.0	63.2	49.7	24.1	28.1	41.1	54.3	59.1	46.4	<b>572.1</b>
<b>Patan</b>	14.4	25.6	41.8	54.1	69.9	63.3	49.7	24.0	27.9	40.6	53.8	58.0	45.3	<b>568.5</b>
<b>Karad</b>	14.5	25.8	41.9	54.0	69.6	62.9	49.9	23.9	28.0	40.8	54.0	58.6	45.8	<b>569.8</b>

**Table No. E-66: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	36.2	64.5	104.7	134.2	176.8	159.2	123.7	61.4	70.8	104.3	136.8	150.5	118.9	<b>1441.9</b>
<b>Jaoli</b>	36.1	64.2	104.7	134.8	176.0	158.9	124.0	61.0	70.4	103.3	136.0	148.5	117.1	<b>1435.0</b>
<b>Koregaon</b>	35.8	63.4	104.7	135.9	175.2	159.3	124.4	60.2	68.9	100.1	133.4	141.7	110.2	<b>1413.2</b>
<b>Wai</b>	35.6	62.5	104.7	137.1	174.5	159.6	124.9	59.7	67.5	97.3	131.1	135.7	104.2	<b>1394.2</b>
<b>Mahabaleshwar</b>	36.2	64.4	104.6	134.3	176.5	159.1	123.8	61.3	70.7	104.1	136.7	150.1	118.5	<b>1440.2</b>
<b>Khandala</b>	36.0	63.8	104.7	135.3	175.6	159.0	124.2	60.5	69.7	101.8	134.7	145.2	113.7	<b>1424.2</b>
<b>Phaltan</b>	36.2	64.4	104.6	134.3	176.4	159.0	123.8	61.3	70.7	104.1	136.7	150.0	118.3	<b>1439.9</b>
<b>Dahivadi</b>	35.3	61.9	104.8	137.8	174.6	160.4	125.3	59.9	66.5	95.3	129.6	131.4	99.8	<b>1382.5</b>
<b>Vaduj</b>	36.3	64.4	104.7	134.7	174.9	157.9	124.3	60.4	70.3	102.9	135.7	147.8	115.9	<b>1430.3</b>
<b>Patan</b>	36.1	63.9	104.6	135.3	174.7	158.3	124.3	59.9	69.6	101.5	134.6	144.9	113.2	<b>1421.1</b>
<b>Karad</b>	36.4	64.4	104.7	135.0	174.0	157.3	124.6	59.8	70.1	102.1	135.0	146.6	114.6	<b>1424.5</b>

**Table No. E-67: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	29.0	51.6	83.8	107.4	141.4	127.4	99.0	49.1	56.6	83.5	109.5	120.4	95.1	<b>1153.6</b>
<b>Jaoli</b>	28.9	51.3	83.7	107.8	140.8	127.1	99.2	48.8	56.3	82.7	108.8	118.8	93.6	<b>1148.0</b>
<b>Koregaon</b>	28.7	50.7	83.7	108.8	140.1	127.4	99.5	48.2	55.1	80.1	106.7	113.3	88.2	<b>1130.5</b>
<b>Wai</b>	28.5	50.0	83.7	109.7	139.6	127.7	99.9	47.7	54.0	77.8	104.9	108.5	83.4	<b>1115.4</b>
<b>Mahabaleshwar</b>	28.9	51.5	83.7	107.5	141.2	127.3	99.1	49.0	56.6	83.3	109.4	120.1	94.8	<b>1152.2</b>
<b>Khandala</b>	28.8	51.1	83.7	108.3	140.5	127.2	99.3	48.4	55.7	81.4	107.8	116.1	91.0	<b>1139.4</b>
<b>Phaltan</b>	28.9	51.5	83.7	107.4	141.1	127.2	99.1	49.0	56.6	83.3	109.4	120.0	94.7	<b>1151.9</b>
<b>Dahivadi</b>	28.3	49.5	83.8	110.2	139.7	128.3	100.2	47.9	53.2	76.2	103.6	105.1	79.8	<b>1106.0</b>
<b>Vaduj</b>	29.0	51.5	83.8	107.8	139.9	126.3	99.5	48.3	56.3	82.3	108.5	118.3	92.7	<b>1144.2</b>
<b>Patan</b>	28.9	51.1	83.7	108.3	139.8	126.7	99.5	48.0	55.7	81.2	107.7	115.9	90.6	<b>1136.9</b>
<b>Karad</b>	29.1	51.5	83.8	108.0	139.2	125.8	99.7	47.8	56.1	81.7	108.0	117.3	91.7	<b>1139.6</b>

**Table No. E-68: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	24.1	43.0	69.8	89.5	117.8	106.1	82.5	40.9	47.2	69.6	91.2	100.3	79.2	<b>961.3</b>
<b>Jaoli</b>	24.1	42.8	69.8	89.9	117.3	106.0	82.7	40.7	46.9	68.9	90.7	99.0	78.0	<b>956.7</b>
<b>Koregaon</b>	23.9	42.2	69.8	90.6	116.8	106.2	82.9	40.1	45.9	66.8	88.9	94.4	73.5	<b>942.1</b>
<b>Wai</b>	23.7	41.7	69.8	91.4	116.3	106.4	83.2	39.8	45.0	64.9	87.4	90.4	69.5	<b>929.5</b>
<b>Mahabaleshwar</b>	24.1	42.9	69.7	89.6	117.6	106.1	82.5	40.9	47.1	69.4	91.1	100.0	79.0	<b>960.2</b>
<b>Khandala</b>	24.0	42.5	69.8	90.2	117.1	106.0	82.8	40.4	46.4	67.9	89.8	96.8	75.8	<b>949.5</b>
<b>Phaltan</b>	24.1	42.9	69.7	89.5	117.6	106.0	82.5	40.9	47.1	69.4	91.1	100.0	78.9	<b>959.9</b>
<b>Dahivadi</b>	23.6	41.3	69.9	91.9	116.4	106.9	83.5	40.0	44.3	63.5	86.4	87.6	66.5	<b>921.7</b>
<b>Vaduj</b>	24.2	42.9	69.8	89.8	116.6	105.3	82.9	40.2	46.9	68.6	90.4	98.6	77.3	<b>953.5</b>
<b>Patan</b>	24.1	42.6	69.7	90.2	116.5	105.6	82.9	40.0	46.4	67.7	89.7	96.6	75.5	<b>947.4</b>
<b>Karad</b>	24.2	42.9	69.8	90.0	116.0	104.8	83.1	39.8	46.7	68.1	90.0	97.7	76.4	<b>949.7</b>

**Table No. E-69: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal IWR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	18.1	32.2	52.4	67.1	88.4	79.6	61.8	30.7	35.4	52.2	68.4	75.2	59.4	<b>721.0</b>
<b>Jaoli</b>	18.1	32.1	52.3	67.4	88.0	79.5	62.0	30.5	35.2	51.7	68.0	74.2	58.5	<b>717.5</b>
<b>Koregaon</b>	17.9	31.7	52.3	68.0	87.6	79.6	62.2	30.1	34.4	50.1	66.7	70.8	55.1	<b>706.6</b>
<b>Wai</b>	17.8	31.3	52.3	68.5	87.2	79.8	62.4	29.8	33.8	48.6	65.6	67.8	52.1	<b>697.1</b>
<b>Mahabaleshwar</b>	18.1	32.2	52.3	67.2	88.2	79.6	61.9	30.7	35.4	52.1	68.4	75.0	59.2	<b>720.1</b>
<b>Khandala</b>	18.0	31.9	52.3	67.7	87.8	79.5	62.1	30.3	34.8	50.9	67.4	72.6	56.9	<b>712.1</b>
<b>Phaltan</b>	18.1	32.2	52.3	67.1	88.2	79.5	61.9	30.6	35.4	52.1	68.4	75.0	59.2	<b>719.9</b>
<b>Dahivadi</b>	17.7	31.0	52.4	68.9	87.3	80.2	62.6	30.0	33.2	47.6	64.8	65.7	49.9	<b>691.2</b>
<b>Vaduj</b>	18.2	32.2	52.4	67.4	87.5	78.9	62.2	30.2	35.2	51.4	67.8	73.9	58.0	<b>715.1</b>
<b>Patan</b>	18.0	32.0	52.3	67.7	87.4	79.2	62.2	30.0	34.8	50.8	67.3	72.4	56.6	<b>710.6</b>
<b>Karad</b>	18.2	32.2	52.4	67.5	87.0	78.6	62.3	29.9	35.0	51.0	67.5	73.3	57.3	<b>712.3</b>



**Table No. E-70: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal IWR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	17.04	30.33	49.28	63.17	83.18	74.92	58.21	28.90	33.31	49.10	64.39	70.80	55.94	<b>678.6</b>
<b>Jaoli</b>	17.00	30.20	49.26	63.44	82.82	74.79	58.37	28.71	33.14	48.63	63.99	69.87	55.09	<b>675.3</b>
<b>Koregaon</b>	16.86	29.81	49.26	63.98	82.44	74.95	58.55	28.33	32.40	47.12	62.78	66.67	51.86	<b>665.0</b>
<b>Wai</b>	16.74	29.43	49.26	64.51	82.11	75.10	58.75	28.07	31.77	45.78	61.70	63.84	49.05	<b>656.1</b>
<b>Mahabaleshwar</b>	17.02	30.28	49.23	63.22	83.04	74.88	58.27	28.85	33.28	48.99	64.33	70.62	55.74	<b>677.8</b>
<b>Khandala</b>	16.95	30.03	49.26	63.68	82.63	74.84	58.43	28.49	32.78	47.90	63.40	68.31	53.51	<b>670.2</b>
<b>Phaltan</b>	17.02	30.28	49.23	63.19	83.01	74.84	58.27	28.84	33.28	48.99	64.33	70.60	55.69	<b>677.6</b>
<b>Dahivadi</b>	16.63	29.14	49.32	64.84	82.15	75.46	58.94	28.20	31.28	44.83	60.97	61.85	46.97	<b>650.6</b>
<b>Vaduj</b>	17.08	30.30	49.28	63.41	82.32	74.30	58.50	28.40	33.09	48.41	63.84	69.57	54.55	<b>673.1</b>
<b>Patan</b>	16.98	30.08	49.21	63.68	82.22	74.52	58.52	28.21	32.77	47.78	63.33	68.18	53.29	<b>668.8</b>
<b>Karad</b>	17.11	30.30	49.28	63.54	81.87	74.01	58.66	28.13	32.98	48.04	63.54	68.98	53.92	<b>670.4</b>

**Table No. E-71: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal IWR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	16.1	28.6	46.5	59.7	78.6	70.8	55.0	27.3	31.5	46.4	60.8	66.9	52.8	<b>640.9</b>
<b>Jaoli</b>	16.1	28.5	46.5	59.9	78.2	70.6	55.1	27.1	31.3	45.9	60.4	66.0	52.0	<b>637.8</b>
<b>Koregaon</b>	15.9	28.2	46.5	60.4	77.9	70.8	55.3	26.8	30.6	44.5	59.3	63.0	49.0	<b>628.1</b>
<b>Wai</b>	15.8	27.8	46.5	60.9	77.5	70.9	55.5	26.5	30.0	43.2	58.3	60.3	46.3	<b>619.6</b>
<b>Mahabaleshwar</b>	16.1	28.6	46.5	59.7	78.4	70.7	55.0	27.2	31.4	46.3	60.8	66.7	52.6	<b>640.1</b>
<b>Khandala</b>	16.0	28.4	46.5	60.1	78.0	70.7	55.2	26.9	31.0	45.2	59.9	64.5	50.5	<b>633.0</b>
<b>Phaltan</b>	16.1	28.6	46.5	59.7	78.4	70.7	55.0	27.2	31.4	46.3	60.8	66.7	52.6	<b>639.9</b>
<b>Dahivadi</b>	15.7	27.5	46.6	61.2	77.6	71.3	55.7	26.6	29.5	42.3	57.6	58.4	44.4	<b>614.4</b>
<b>Vaduj</b>	16.1	28.6	46.5	59.9	77.7	70.2	55.3	26.8	31.3	45.7	60.3	65.7	51.5	<b>635.7</b>
<b>Patan</b>	16.0	28.4	46.5	60.1	77.7	70.4	55.3	26.6	30.9	45.1	59.8	64.4	50.3	<b>631.6</b>
<b>Karad</b>	16.2	28.6	46.5	60.0	77.3	69.9	55.4	26.6	31.1	45.4	60.0	65.1	50.9	<b>633.1</b>

**Table No. E-72: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Satara District**

Taluka	MW1 2	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasona l WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Satara</b>	15.25	27.14	44.09	56.52	74.42	67.03	52.08	25.86	29.81	43.93	57.61	63.35	50.05	<b>607.1</b>
<b>Jaoli</b>	15.21	27.02	44.07	56.76	74.10	66.92	52.23	25.69	29.65	43.51	57.25	62.51	49.29	<b>604.2</b>
<b>Koregaon</b>	15.09	26.67	44.07	57.24	73.76	67.06	52.39	25.35	28.99	42.16	56.17	59.65	46.40	<b>595.0</b>
<b>Wai</b>	14.97	26.33	44.07	57.72	73.46	67.19	52.57	25.12	28.42	40.96	55.21	57.12	43.89	<b>587.0</b>
<b>Mahabaleshwar</b>	15.23	27.09	44.05	56.57	74.30	67.00	52.13	25.82	29.77	43.84	57.56	63.19	49.87	<b>606.4</b>
<b>Khandala</b>	15.16	26.87	44.07	56.98	73.93	66.97	52.28	25.49	29.33	42.86	56.73	61.12	47.88	<b>599.7</b>
<b>Phaltan</b>	15.23	27.09	44.05	56.54	74.27	66.97	52.13	25.80	29.77	43.84	57.56	63.17	49.83	<b>606.3</b>
<b>Dahivadi</b>	14.88	26.07	44.13	58.01	73.51	67.52	52.74	25.23	27.99	40.11	54.55	55.34	42.02	<b>582.1</b>
<b>Vaduj</b>	15.29	27.11	44.09	56.74	73.65	66.48	52.35	25.41	29.61	43.31	57.12	62.25	48.81	<b>602.2</b>
<b>Patan</b>	15.19	26.91	44.03	56.98	73.57	66.67	52.36	25.24	29.32	42.75	56.66	61.00	47.68	<b>598.4</b>
<b>Karad</b>	15.31	27.11	44.09	56.86	73.25	66.22	52.48	25.17	29.51	42.99	56.85	61.72	48.25	<b>599.8</b>

**Taluka wise Crop and Irrigation Water Requirement (mm) of Summer Fodder Bajra by Different Irrigation Methods, Ignoring Effective Rainfall in Solapur District**

**Table No. E-73: Taluka Wise Crop Water Requirement (mm) of Summer Fodder Bajra in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	14.2	25.2	42.2	55.3	70.6	63.8	50.2	25.2	28.2	41.0	53.7	58.8	47.7	<b>576.1</b>
<b>Solapur-S</b>	14.2	25.3	42.1	55.2	70.5	63.7	50.2	25.0	28.2	40.9	53.7	58.6	47.3	<b>574.9</b>
<b>Barshi</b>	14.3	25.3	41.9	54.5	70.0	63.6	49.8	24.1	27.6	40.2	53.4	56.9	44.5	<b>566.2</b>
<b>Akkalkot</b>	14.2	25.3	42.1	55.0	70.6	63.8	50.1	25.1	28.2	41.1	53.8	58.8	47.3	<b>575.3</b>
<b>Madha</b>	14.4	25.5	41.9	54.3	70.3	63.6	49.7	24.4	28.0	40.9	53.9	58.4	46.0	<b>571.3</b>
<b>Karmala</b>	14.2	25.3	42.1	55.0	70.5	63.8	50.1	25.0	28.2	41.0	53.7	58.7	47.2	<b>574.9</b>
<b>Pandharpur</b>	14.4	25.5	41.9	54.2	70.4	63.6	49.7	24.4	28.0	41.0	54.1	58.7	46.4	<b>572.5</b>
<b>Mohol</b>	14.4	25.6	41.9	54.1	70.4	63.6	49.7	24.4	28.1	41.2	54.2	59.1	46.7	<b>573.5</b>
<b>Malshiras</b>	14.3	25.5	42.0	54.5	70.4	63.6	49.9	24.6	28.1	41.0	54.0	58.8	46.7	<b>573.2</b>
<b>Sangola</b>	14.3	25.2	41.8	54.6	69.9	63.7	49.8	23.9	27.4	39.7	53.0	55.9	43.4	<b>562.7</b>
<b>Mangalwedha</b>	14.4	25.5	41.9	54.2	70.3	63.6	49.7	24.2	27.9	40.7	53.8	58.0	45.5	<b>569.6</b>

**Table No. E-74: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 40% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	35.5	63.1	105.4	138.2	176.6	159.5	125.5	63.0	70.5	102.6	134.2	147.1	119.2	<b>1440.3</b>
<b>Solapur-S</b>	35.6	63.2	105.3	137.9	176.3	159.3	125.4	62.5	70.4	102.3	134.1	146.6	118.3	<b>1437.3</b>
<b>Barshi</b>	35.8	63.4	104.7	136.3	175.0	159.0	124.6	60.2	69.1	100.4	133.4	142.3	111.3	<b>1415.5</b>
<b>Akkalkot</b>	35.5	63.2	105.2	137.4	176.6	159.5	125.2	62.7	70.4	102.7	134.5	147.1	118.3	<b>1438.3</b>
<b>Madha</b>	35.9	63.7	104.8	135.8	175.8	159.1	124.4	60.9	69.9	102.1	134.8	145.9	115.1	<b>1428.4</b>
<b>Karmala</b>	35.6	63.2	105.2	137.6	176.3	159.4	125.3	62.5	70.4	102.5	134.3	146.8	118.1	<b>1437.1</b>
<b>Pandharpur</b>	36.0	63.9	104.8	135.5	175.9	159.1	124.3	61.1	70.1	102.6	135.1	146.8	116.0	<b>1431.2</b>
<b>Mohol</b>	36.1	64.0	104.8	135.1	176.1	159.1	124.1	61.1	70.3	103.0	135.6	147.8	116.6	<b>1433.8</b>
<b>Malshiras</b>	35.9	63.7	104.9	136.2	175.9	159.0	124.7	61.5	70.2	102.6	134.9	146.9	116.7	<b>1433.0</b>
<b>Sangola</b>	35.7	63.1	104.6	136.5	174.7	159.2	124.6	59.8	68.5	99.2	132.6	139.7	108.5	<b>1406.7</b>
<b>Mangalwedha</b>	36.0	63.7	104.7	135.5	175.6	159.1	124.2	60.6	69.6	101.7	134.6	145.0	113.7	<b>1424.1</b>

**Table No. E-75: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 50% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	28.4	50.5	84.3	110.5	141.3	127.6	100.4	50.4	56.4	82.1	107.3	117.6	95.3	<b>1152.2</b>
<b>Solapur-S</b>	28.5	50.6	84.2	110.3	141.0	127.4	100.3	50.0	56.3	81.9	107.3	117.3	94.7	<b>1149.8</b>
<b>Barshi</b>	28.6	50.7	83.7	109.0	140.0	127.2	99.7	48.1	55.3	80.3	106.8	113.8	89.1	<b>1132.4</b>
<b>Akkalkot</b>	28.4	50.6	84.2	109.9	141.2	127.6	100.1	50.1	56.3	82.1	107.6	117.6	94.6	<b>1150.6</b>
<b>Madha</b>	28.7	51.0	83.8	108.6	140.6	127.3	99.5	48.7	55.9	81.7	107.9	116.8	92.1	<b>1142.7</b>
<b>Karmala</b>	28.5	50.6	84.2	110.1	141.0	127.5	100.2	50.0	56.3	82.0	107.4	117.4	94.5	<b>1149.7</b>
<b>Pandharpur</b>	28.8	51.1	83.8	108.4	140.8	127.3	99.4	48.9	56.1	82.0	108.1	117.5	92.8	<b>1145.0</b>
<b>Mohol</b>	28.8	51.2	83.8	108.1	140.9	127.3	99.3	48.9	56.2	82.4	108.5	118.2	93.3	<b>1147.0</b>
<b>Malshiras</b>	28.7	50.9	83.9	108.9	140.7	127.2	99.7	49.2	56.2	82.0	107.9	117.5	93.4	<b>1146.4</b>
<b>Sangola</b>	28.6	50.5	83.7	109.2	139.7	127.3	99.7	47.8	54.8	79.4	106.1	111.8	86.8	<b>1125.4</b>
<b>Mangalwedha</b>	28.8	51.0	83.8	108.4	140.5	127.3	99.4	48.5	55.7	81.4	107.7	116.0	91.0	<b>1139.3</b>

**Table No. E-76: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Surface Irrigation at 60% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	23.6	42.0	70.3	92.1	117.7	106.3	83.7	42.0	47.0	68.4	89.4	98.0	79.4	<b>960.2</b>
<b>Solapur-S</b>	23.7	42.1	70.2	91.9	117.5	106.2	83.6	41.7	46.9	68.2	89.4	97.7	78.9	<b>958.2</b>
<b>Barshi</b>	23.9	42.2	69.8	90.9	116.7	106.0	83.0	40.1	46.1	67.0	89.0	94.9	74.2	<b>943.7</b>
<b>Akkalkot</b>	23.7	42.1	70.2	91.6	117.7	106.4	83.5	41.8	46.9	68.4	89.6	98.0	78.9	<b>958.8</b>
<b>Madha</b>	23.9	42.5	69.9	90.5	117.2	106.1	82.9	40.6	46.6	68.1	89.9	97.3	76.7	<b>952.2</b>
<b>Karmala</b>	23.7	42.1	70.2	91.7	117.5	106.3	83.5	41.7	46.9	68.3	89.5	97.8	78.7	<b>958.1</b>
<b>Pandharpur</b>	24.0	42.6	69.9	90.4	117.3	106.1	82.9	40.7	46.7	68.4	90.1	97.9	77.3	<b>954.1</b>
<b>Mohol</b>	24.0	42.7	69.8	90.1	117.4	106.1	82.8	40.7	46.9	68.7	90.4	98.5	77.8	<b>955.8</b>
<b>Malshiras</b>	23.9	42.4	69.9	90.8	117.3	106.0	83.1	41.0	46.8	68.4	89.9	97.9	77.8	<b>955.3</b>
<b>Sangola</b>	23.8	42.1	69.7	91.0	116.5	106.1	83.1	39.8	45.6	66.1	88.4	93.2	72.3	<b>937.8</b>
<b>Mangalwedha</b>	24.0	42.5	69.8	90.3	117.1	106.1	82.8	40.4	46.4	67.8	89.7	96.6	75.8	<b>949.4</b>

**Table No. E-77: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 80% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	17.7	31.5	52.7	69.1	88.3	79.8	62.8	31.5	35.3	51.3	67.1	73.5	59.6	<b>720.1</b>
<b>Solapur-S</b>	17.8	31.6	52.6	68.9	88.1	79.6	62.7	31.2	35.2	51.2	67.1	73.3	59.2	<b>718.6</b>
<b>Barshi</b>	17.9	31.7	52.3	68.1	87.5	79.5	62.3	30.1	34.6	50.2	66.7	71.2	55.7	<b>707.8</b>
<b>Akkalkot</b>	17.8	31.6	52.6	68.7	88.3	79.8	62.6	31.3	35.2	51.3	67.2	73.5	59.1	<b>719.1</b>
<b>Madha</b>	18.0	31.9	52.4	67.9	87.9	79.5	62.2	30.5	35.0	51.1	67.4	73.0	57.6	<b>714.2</b>
<b>Karmala</b>	17.8	31.6	52.6	68.8	88.1	79.7	62.7	31.3	35.2	51.2	67.1	73.4	59.0	<b>718.6</b>
<b>Pandharpur</b>	18.0	31.9	52.4	67.8	88.0	79.5	62.1	30.5	35.1	51.3	67.6	73.4	58.0	<b>715.6</b>
<b>Mohol</b>	18.0	32.0	52.4	67.6	88.0	79.5	62.1	30.6	35.1	51.5	67.8	73.9	58.3	<b>716.9</b>
<b>Malshiras</b>	17.9	31.8	52.5	68.1	87.9	79.5	62.3	30.7	35.1	51.3	67.4	73.5	58.3	<b>716.5</b>
<b>Sangola</b>	17.9	31.6	52.3	68.3	87.3	79.6	62.3	29.9	34.2	49.6	66.3	69.9	54.3	<b>703.4</b>
<b>Mangalwedha</b>	18.0	31.9	52.4	67.7	87.8	79.6	62.1	30.3	34.8	50.9	67.3	72.5	56.9	<b>712.0</b>



**Table No. E-78: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Sprinkler Irrigation at 85% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	16.7	29.7	49.6	65.0	83.1	75.1	59.1	29.7	33.2	48.3	63.1	69.2	56.1	<b>677.8</b>
<b>Solapur-S</b>	16.7	29.7	49.5	64.9	83.0	75.0	59.0	29.4	33.1	48.2	63.1	69.0	55.7	<b>676.4</b>
<b>Barshi</b>	16.9	29.8	49.3	64.1	82.3	74.8	58.6	28.3	32.5	47.3	62.8	67.0	52.4	<b>666.1</b>
<b>Akkalkot</b>	16.7	29.7	49.5	64.7	83.1	75.1	58.9	29.5	33.1	48.3	63.3	69.2	55.7	<b>676.8</b>
<b>Madha</b>	16.9	30.0	49.3	63.9	82.7	74.9	58.5	28.7	32.9	48.1	63.4	68.7	54.2	<b>672.2</b>
<b>Karmala</b>	16.7	29.7	49.5	64.8	83.0	75.0	59.0	29.4	33.1	48.2	63.2	69.1	55.6	<b>676.3</b>
<b>Pandharpur</b>	16.9	30.0	49.3	63.8	82.8	74.9	58.5	28.7	33.0	48.3	63.6	69.1	54.6	<b>673.5</b>
<b>Mohol</b>	17.0	30.1	49.3	63.6	82.9	74.9	58.4	28.8	33.1	48.5	63.8	69.5	54.9	<b>674.7</b>
<b>Malshiras</b>	16.9	30.0	49.4	64.1	82.8	74.8	58.7	28.9	33.1	48.3	63.5	69.1	54.9	<b>674.3</b>
<b>Sangola</b>	16.8	29.7	49.2	64.2	82.2	74.9	58.6	28.1	32.2	46.7	62.4	65.8	51.1	<b>662.0</b>
<b>Mangalwedha</b>	16.9	30.0	49.3	63.8	82.7	74.9	58.4	28.5	32.8	47.9	63.3	68.2	53.5	<b>670.2</b>

**Table No. E-79: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 90% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	15.8	28.0	46.8	61.4	78.5	70.9	55.8	28.0	31.4	45.6	59.6	65.4	53.0	<b>640.1</b>
<b>Solapur-S</b>	15.8	28.1	46.8	61.3	78.4	70.8	55.7	27.8	31.3	45.5	59.6	65.2	52.6	<b>638.8</b>
<b>Barshi</b>	15.9	28.2	46.5	60.6	77.8	70.7	55.4	26.7	30.7	44.6	59.3	63.2	49.5	<b>629.1</b>
<b>Akkalkot</b>	15.8	28.1	46.8	61.1	78.5	70.9	55.6	27.8	31.3	45.6	59.8	65.4	52.6	<b>639.2</b>
<b>Madha</b>	16.0	28.3	46.6	60.3	78.1	70.7	55.3	27.1	31.1	45.4	59.9	64.9	51.2	<b>634.8</b>
<b>Karmala</b>	15.8	28.1	46.8	61.2	78.4	70.8	55.7	27.8	31.3	45.5	59.7	65.2	52.5	<b>638.7</b>
<b>Pandharpur</b>	16.0	28.4	46.6	60.2	78.2	70.7	55.2	27.2	31.2	45.6	60.1	65.3	51.5	<b>636.1</b>
<b>Mohol</b>	16.0	28.5	46.6	60.1	78.3	70.7	55.2	27.2	31.2	45.8	60.3	65.7	51.8	<b>637.2</b>
<b>Malshiras</b>	15.9	28.3	46.6	60.5	78.2	70.7	55.4	27.3	31.2	45.6	60.0	65.3	51.9	<b>636.9</b>
<b>Sangola</b>	15.9	28.0	46.5	60.7	77.6	70.7	55.4	26.6	30.4	44.1	58.9	62.1	48.2	<b>625.2</b>
<b>Mangalwedha</b>	16.0	28.3	46.5	60.2	78.1	70.7	55.2	26.9	30.9	45.2	59.8	64.4	50.5	<b>632.9</b>

**Table No. E-80: Taluka Wise Irrigation Water Requirement (mm) of Summer Fodder Bajra by Drip Irrigation at 95% efficiency in Solapur District**

Taluka	MW12	MW13	MW14	MW15	MW16	MW17	MW18	MW19	MW20	MW21	MW22	MW23	MW24	Seasonal WR (mm)
	CW1	CW2	CW3	CW4	CW5	CW6	CW7	CW8	CW9	CW10	CW11	CW12	CW13	
<b>Solapur-N</b>	14.9	26.6	44.4	58.2	74.4	67.2	52.8	26.5	29.7	43.2	56.5	61.9	50.2	<b>606.4</b>
<b>Solapur-S</b>	15.0	26.6	44.3	58.1	74.2	67.1	52.8	26.3	29.6	43.1	56.5	61.7	49.8	<b>605.2</b>
<b>Barshi</b>	15.1	26.7	44.1	57.4	73.7	67.0	52.5	25.3	29.1	42.3	56.2	59.9	46.9	<b>596.0</b>
<b>Akkalkot</b>	15.0	26.6	44.3	57.9	74.3	67.2	52.7	26.4	29.6	43.2	56.6	61.9	49.8	<b>605.6</b>
<b>Madha</b>	15.1	26.8	44.1	57.2	74.0	67.0	52.4	25.7	29.4	43.0	56.8	61.4	48.5	<b>601.4</b>
<b>Karmala</b>	15.0	26.6	44.3	57.9	74.2	67.1	52.8	26.3	29.6	43.1	56.5	61.8	49.7	<b>605.1</b>
<b>Pandharpur</b>	15.1	26.9	44.1	57.1	74.1	67.0	52.3	25.7	29.5	43.2	56.9	61.8	48.8	<b>602.6</b>
<b>Mohol</b>	15.2	27.0	44.1	56.9	74.1	67.0	52.3	25.7	29.6	43.4	57.1	62.2	49.1	<b>603.7</b>
<b>Malshiras</b>	15.1	26.8	44.2	57.3	74.1	67.0	52.5	25.9	29.6	43.2	56.8	61.9	49.1	<b>603.4</b>
<b>Sangola</b>	15.0	26.6	44.1	57.5	73.5	67.0	52.5	25.2	28.8	41.8	55.8	58.8	45.7	<b>592.3</b>
<b>Mangalwedha</b>	15.1	26.8	44.1	57.0	74.0	67.0	52.3	25.5	29.3	42.8	56.7	61.0	47.9	<b>599.6</b>

## **Appendix - F**

**Taluka wise Crop and Irrigation Water Requirement (mm) of *kharif* Sesame by Different Irrigation Methods,  
Ignoring Effective Rainfall in Ten Districts of Western Maharashtra**

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Ahmednagar District**

**Table No. F-1: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Ahmednagar District Table**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nagar</b>	14.0	12.8	14.9	18.9	23.8	26.0	29.2	33.4	28.0	26.2	23.0	17.3	6.1	273.7
<b>Shevgaon</b>	13.9	12.6	14.8	18.6	23.4	26.1	29.2	33.1	28.0	26.1	22.9	17.2	6.2	272.1
<b>Pathardi</b>	13.9	12.6	14.7	18.6	23.5	26.0	29.2	33.0	27.9	26.3	22.9	17.2	6.1	271.8
<b>Parner</b>	13.7	12.4	14.4	18.2	23.1	25.5	28.5	32.6	27.4	25.7	22.5	17.1	6.0	267.1
<b>Sangamner</b>	13.6	12.7	14.8	18.1	22.6	25.9	28.6	32.8	27.8	24.9	22.3	16.8	6.2	267.0
<b>Kopergaon</b>	14.4	13.6	16.2	19.2	23.6	27.3	30.1	34.5	29.4	25.6	23.2	17.1	6.5	280.9
<b>Akole</b>	12.9	11.9	13.7	17.0	21.5	24.7	27.4	31.5	26.4	24.2	21.4	16.5	6.0	254.9
<b>Shrirampur</b>	14.1	13.2	15.6	18.8	23.4	26.8	29.6	33.9	28.7	25.6	22.9	17.0	6.4	276.0
<b>Newasa</b>	13.9	12.8	15.1	18.6	23.3	26.3	29.2	33.3	28.2	25.7	22.8	17.1	6.2	272.5
<b>Rahata</b>	14.4	13.6	16.2	19.2	23.6	27.3	30.1	34.5	29.4	25.6	23.2	17.1	6.5	280.8
<b>Rahuri</b>	13.8	12.7	14.9	18.5	23.2	26.0	29.0	33.1	28.0	25.7	22.7	17.1	6.2	270.9
<b>Shrigonda</b>	13.5	12.1	14.0	18.0	22.9	25.1	28.3	31.8	27.1	26.0	22.5	17.1	6.0	264.5
<b>karjat</b>	14.0	12.4	14.5	18.8	23.8	25.8	29.3	32.5	27.9	27.2	23.4	17.5	6.1	273.2
<b>Jamkhed</b>	14.1	12.5	14.7	19.0	24.0	26.1	29.7	32.9	28.2	27.5	23.6	17.5	6.1	276.0

**Table No. F-2: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Ahmednagar District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nagar</b>	35.1	32.0	37.3	47.1	59.5	65.1	72.9	83.5	70.1	65.6	57.6	43.2	15.4	684.4
<b>Shevgaon</b>	34.7	31.6	37.1	46.5	58.5	65.2	73.0	82.7	69.9	65.4	57.2	42.9	15.4	680.2
<b>Pathardi</b>	34.7	31.5	36.9	46.5	58.7	65.0	72.9	82.4	69.7	65.6	57.3	43.0	15.3	679.6
<b>Parner</b>	34.2	31.1	36.0	45.6	57.8	63.7	71.2	81.4	68.5	64.2	56.3	42.7	15.1	667.8
<b>Sangamner</b>	34.0	31.6	37.0	45.2	56.4	64.7	71.6	82.1	69.4	62.4	55.6	42.1	15.5	667.5
<b>Kopargaon</b>	35.9	34.1	40.4	48.0	59.0	68.3	75.3	86.4	73.6	64.0	58.0	42.7	16.3	702.2
<b>Akole</b>	32.1	29.7	34.3	42.6	53.7	61.8	68.4	78.6	65.9	60.4	53.4	41.3	14.9	637.3
<b>Shrirampur</b>	35.3	33.1	39.0	47.1	58.4	66.9	74.0	84.7	71.9	63.9	57.3	42.6	15.9	690.0
<b>Newasa</b>	34.8	32.1	37.7	46.5	58.2	65.7	73.0	83.3	70.4	64.3	56.9	42.7	15.6	681.2
<b>Rahata</b>	35.9	34.1	40.4	48.0	59.0	68.3	75.2	86.3	73.5	64.0	58.0	42.7	16.3	702.0
<b>Rahuri</b>	34.6	31.9	37.3	46.2	58.0	65.1	72.5	82.8	69.9	64.2	56.7	42.7	15.5	677.3
<b>Shrigonda</b>	33.8	30.3	35.1	45.0	57.4	62.8	70.7	79.6	67.7	65.0	56.3	42.9	14.9	661.3
<b>karjat</b>	34.9	31.1	36.3	46.9	59.5	64.5	73.3	81.3	69.8	68.1	58.5	43.7	15.2	683.0
<b>Jamkhed</b>	35.2	31.4	36.7	47.5	60.1	65.3	74.3	82.3	70.4	68.6	59.0	43.9	15.3	689.9

**Table No. F-3: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Ahmednagar District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nagar	28.0	25.6	29.8	37.7	47.6	52.1	58.3	66.8	56.1	52.4	46.1	34.6	12.3	547.5
Shevgaon	27.8	25.3	29.7	37.2	46.8	52.2	58.4	66.1	55.9	52.3	45.8	34.3	12.3	544.2
Pathardi	27.8	25.2	29.5	37.2	46.9	52.0	58.3	65.9	55.8	52.5	45.8	34.4	12.3	543.7
Parner	27.3	24.9	28.8	36.5	46.2	51.0	57.0	65.1	54.8	51.4	45.0	34.2	12.1	534.3
Sangamner	27.2	25.3	29.6	36.1	45.1	51.8	57.3	65.7	55.5	49.9	44.5	33.6	12.4	534.0
Kopargaon	28.8	27.3	32.3	38.4	47.2	54.6	60.2	69.1	58.9	51.2	46.4	34.2	13.0	561.8
Akole	25.7	23.7	27.5	34.1	43.0	49.4	54.7	62.9	52.8	48.3	42.7	33.1	11.9	509.8
Shrirampur	28.2	26.4	31.2	37.7	46.7	53.5	59.2	67.8	57.5	51.1	45.9	34.1	12.8	552.0
Newasa	27.8	25.7	30.2	37.2	46.5	52.5	58.4	66.6	56.3	51.5	45.5	34.1	12.5	545.0
Rahata	28.8	27.3	32.3	38.4	47.2	54.6	60.2	69.1	58.8	51.2	46.4	34.2	13.0	561.6
Rahuri	27.7	25.5	29.8	37.0	46.4	52.1	58.0	66.2	55.9	51.3	45.4	34.1	12.4	541.8
Shrigonda	27.1	24.2	28.1	36.0	45.9	50.2	56.5	63.7	54.2	52.0	45.0	34.3	11.9	529.1
karjat	27.9	24.8	29.0	37.5	47.6	51.6	58.6	65.0	55.8	54.5	46.8	35.0	12.1	546.4
Jamkhed	28.2	25.1	29.4	38.0	48.1	52.2	59.4	65.8	56.3	54.9	47.2	35.1	12.2	551.9

**Table No. F-4: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Ahmednagar District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nagar</b>	23.4	21.4	24.8	31.4	39.7	43.4	48.6	55.7	46.7	43.7	38.4	28.8	10.2	456.2
<b>Shevgaon</b>	23.2	21.1	24.7	31.0	39.0	43.5	48.7	55.1	46.6	43.6	38.1	28.6	10.3	453.5
<b>Pathardi</b>	23.2	21.0	24.6	31.0	39.1	43.3	48.6	55.0	46.5	43.8	38.2	28.7	10.2	453.1
<b>Parner</b>	22.8	20.7	24.0	30.4	38.5	42.5	47.5	54.3	45.7	42.8	37.5	28.5	10.1	445.2
<b>Sangamner</b>	22.6	21.1	24.7	30.1	37.6	43.1	47.7	54.7	46.3	41.6	37.1	28.0	10.3	445.0
<b>Kopargaoon</b>	24.0	22.7	27.0	32.0	39.4	45.5	50.2	57.6	49.0	42.7	38.7	28.5	10.9	468.1
<b>Akole</b>	21.4	19.8	22.9	28.4	35.8	41.2	45.6	52.4	44.0	40.3	35.6	27.6	9.9	424.9
<b>Shrirampur</b>	23.5	22.0	26.0	31.4	38.9	44.6	49.3	56.5	47.9	42.6	38.2	28.4	10.6	460.0
<b>Newasa</b>	23.2	21.4	25.1	31.0	38.8	43.8	48.7	55.5	46.9	42.9	38.0	28.4	10.4	454.1
<b>Rahata</b>	24.0	22.7	26.9	32.0	39.3	45.5	50.2	57.5	49.0	42.7	38.7	28.5	10.9	468.0
<b>Rahuri</b>	23.1	21.2	24.8	30.8	38.7	43.4	48.3	55.2	46.6	42.8	37.8	28.4	10.3	451.5
<b>Shrigonda</b>	22.5	20.2	23.4	30.0	38.2	41.9	47.1	53.1	45.1	43.3	37.5	28.6	9.9	440.9
<b>karjat</b>	23.3	20.7	24.2	31.3	39.7	43.0	48.9	54.2	46.5	45.4	39.0	29.2	10.1	455.3
<b>Jamkhed</b>	23.5	20.9	24.5	31.6	40.1	43.5	49.5	54.8	46.9	45.8	39.3	29.2	10.2	459.9



**Table No. F-5: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Ahmednagar District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nagar	17.5	16.0	18.6	23.6	29.8	32.6	36.4	41.8	35.0	32.8	28.8	21.6	7.7	342.2
Shevgaon	17.4	15.8	18.5	23.3	29.3	32.6	36.5	41.3	35.0	32.7	28.6	21.5	7.7	340.1
Pathardi	17.4	15.7	18.4	23.3	29.3	32.5	36.4	41.2	34.9	32.8	28.7	21.5	7.7	339.8
Parner	17.1	15.5	18.0	22.8	28.9	31.8	35.6	40.7	34.2	32.1	28.2	21.4	7.6	333.9
Sangamner	17.0	15.8	18.5	22.6	28.2	32.3	35.8	41.0	34.7	31.2	27.8	21.0	7.8	333.7
Kopargaon	18.0	17.1	20.2	24.0	29.5	34.2	37.6	43.2	36.8	32.0	29.0	21.4	8.2	351.1
Akole	16.1	14.8	17.2	21.3	26.9	30.9	34.2	39.3	33.0	30.2	26.7	20.7	7.5	318.6
Shrirampur	17.6	16.5	19.5	23.6	29.2	33.4	37.0	42.3	35.9	32.0	28.7	21.3	8.0	345.0
Newasa	17.4	16.0	18.9	23.2	29.1	32.8	36.5	41.7	35.2	32.2	28.5	21.3	7.8	340.6
Rahata	18.0	17.0	20.2	24.0	29.5	34.1	37.6	43.2	36.8	32.0	29.0	21.4	8.2	351.0
Rahuri	17.3	15.9	18.6	23.1	29.0	32.5	36.2	41.4	35.0	32.1	28.4	21.3	7.7	338.6
Shrigonda	16.9	15.2	17.5	22.5	28.7	31.4	35.3	39.8	33.8	32.5	28.1	21.4	7.4	330.7
karjat	17.5	15.5	18.1	23.5	29.8	32.2	36.7	40.7	34.9	34.0	29.2	21.9	7.6	341.5
Jamkhed	17.6	15.7	18.4	23.7	30.0	32.6	37.1	41.1	35.2	34.3	29.5	21.9	7.7	344.9

**Table No. F-6: Taluka Wise Irrigation Water Requirement (mm) of Kharif Sesame by Sprinkler Irrigation at 85% efficiency in Ahmednagar District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nagar</b>	16.5	15.1	17.5	22.2	28.0	30.6	34.3	39.3	33.0	30.9	27.1	20.3	7.2	322.1
<b>Shevgaon</b>	16.4	14.9	17.5	21.9	27.5	30.7	34.4	38.9	32.9	30.8	26.9	20.2	7.3	320.1
<b>Pathardi</b>	16.3	14.8	17.3	21.9	27.6	30.6	34.3	38.8	32.8	30.9	27.0	20.2	7.2	319.8
<b>Parner</b>	16.1	14.6	17.0	21.5	27.2	30.0	33.5	38.3	32.2	30.2	26.5	20.1	7.1	314.3
<b>Sangamner</b>	16.0	14.9	17.4	21.3	26.5	30.4	33.7	38.6	32.6	29.4	26.2	19.8	7.3	314.1
<b>Kopargaon</b>	16.9	16.1	19.0	22.6	27.8	32.1	35.4	40.6	34.6	30.1	27.3	20.1	7.7	330.4
<b>Akole</b>	15.1	14.0	16.1	20.0	25.3	29.1	32.2	37.0	31.0	28.4	25.1	19.5	7.0	299.9
<b>Shrirampur</b>	16.6	15.6	18.3	22.2	27.5	31.5	34.8	39.9	33.8	30.1	27.0	20.1	7.5	324.7
<b>Newasa</b>	16.4	15.1	17.7	21.9	27.4	30.9	34.4	39.2	33.1	30.3	26.8	20.1	7.3	320.6
<b>Rahata</b>	16.9	16.0	19.0	22.6	27.8	32.1	35.4	40.6	34.6	30.1	27.3	20.1	7.7	330.3
<b>Rahuri</b>	16.3	15.0	17.5	21.8	27.3	30.6	34.1	39.0	32.9	30.2	26.7	20.1	7.3	318.7
<b>Shrigonda</b>	15.9	14.3	16.5	21.2	27.0	29.5	33.3	37.5	31.9	30.6	26.5	20.2	7.0	311.2
<b>karjat</b>	16.4	14.6	17.1	22.1	28.0	30.3	34.5	38.3	32.8	32.0	27.5	20.6	7.1	321.4
<b>Jamkhed</b>	16.6	14.8	17.3	22.3	28.3	30.7	34.9	38.7	33.1	32.3	27.8	20.6	7.2	324.6

**Table No. F-7: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Ahmednagar District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nagar	15.6	14.2	16.6	21.0	26.4	28.9	32.4	37.1	31.1	29.1	25.6	19.2	6.8	304.2
Shevgaon	15.4	14.1	16.5	20.7	26.0	29.0	32.5	36.7	31.1	29.1	25.4	19.1	6.8	302.3
Pathardi	15.4	14.0	16.4	20.7	26.1	28.9	32.4	36.6	31.0	29.2	25.5	19.1	6.8	302.0
Parner	15.2	13.8	16.0	20.3	25.7	28.3	31.6	36.2	30.4	28.5	25.0	19.0	6.7	296.8
Sangamner	15.1	14.1	16.5	20.1	25.1	28.8	31.8	36.5	30.8	27.7	24.7	18.7	6.9	296.7
Kopargaon	16.0	15.2	18.0	21.3	26.2	30.4	33.5	38.4	32.7	28.5	25.8	19.0	7.2	312.1
Akole	14.3	13.2	15.3	18.9	23.9	27.5	30.4	34.9	29.3	26.8	23.7	18.4	6.6	283.2
Shrirampur	15.7	14.7	17.3	20.9	25.9	29.7	32.9	37.6	31.9	28.4	25.5	18.9	7.1	306.7
Newasa	15.5	14.3	16.8	20.7	25.9	29.2	32.5	37.0	31.3	28.6	25.3	19.0	6.9	302.8
Rahata	16.0	15.2	18.0	21.3	26.2	30.3	33.4	38.4	32.7	28.5	25.8	19.0	7.2	312.0
Rahuri	15.4	14.2	16.6	20.5	25.8	28.9	32.2	36.8	31.1	28.5	25.2	19.0	6.9	301.0
Shrigonda	15.0	13.5	15.6	20.0	25.5	27.9	31.4	35.4	30.1	28.9	25.0	19.1	6.6	293.9
karjat	15.5	13.8	16.1	20.9	26.5	28.7	32.6	36.1	31.0	30.3	26.0	19.4	6.7	303.6
Jamkhed	15.7	13.9	16.3	21.1	26.7	29.0	33.0	36.6	31.3	30.5	26.2	19.5	6.8	306.6

**Table No. F-8: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Ahmednagar District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nagar	14.8	13.5	15.7	19.8	25.1	27.4	30.7	35.2	29.5	27.6	24.3	18.2	6.5	288.2
Shevgaon	14.6	13.3	15.6	19.6	24.6	27.5	30.7	34.8	29.4	27.5	24.1	18.1	6.5	286.4
Pathardi	14.6	13.3	15.5	19.6	24.7	27.4	30.7	34.7	29.4	27.6	24.1	18.1	6.5	286.2
Parner	14.4	13.1	15.2	19.2	24.3	26.8	30.0	34.3	28.8	27.0	23.7	18.0	6.4	281.2
Sangamner	14.3	13.3	15.6	19.0	23.7	27.2	30.1	34.6	29.2	26.3	23.4	17.7	6.5	281.0
Kopargaon	15.1	14.4	17.0	20.2	24.9	28.8	31.7	36.4	31.0	27.0	24.4	18.0	6.9	295.7
Akole	13.5	12.5	14.4	17.9	22.6	26.0	28.8	33.1	27.8	25.4	22.5	17.4	6.3	268.3
Shrirampur	14.9	13.9	16.4	19.8	24.6	28.2	31.1	35.7	30.3	26.9	24.1	17.9	6.7	290.5
Newasa	14.7	13.5	15.9	19.6	24.5	27.6	30.8	35.1	29.6	27.1	24.0	18.0	6.6	286.8
Rahata	15.1	14.4	17.0	20.2	24.8	28.7	31.7	36.3	31.0	27.0	24.4	18.0	6.9	295.6
Rahuri	14.6	13.4	15.7	19.5	24.4	27.4	30.5	34.9	29.4	27.0	23.9	18.0	6.5	285.2
Shrigonda	14.2	12.8	14.8	19.0	24.2	26.4	29.8	33.5	28.5	27.4	23.7	18.0	6.3	278.5
karjat	14.7	13.1	15.3	19.8	25.1	27.1	30.9	34.2	29.4	28.7	24.6	18.4	6.4	287.6
Jamkhed	14.8	13.2	15.5	20.0	25.3	27.5	31.3	34.6	29.7	28.9	24.8	18.5	6.4	290.5

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Dhule District**

**Table No. F-9: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	15.7	14.9	18.9	21.6	26.3	30.9	33.7	39.6	31.5	26.8	24.1	17.4	7.0	308.6
Sakri	14.8	13.8	17.1	20.1	24.7	28.7	31.5	36.6	29.8	26.1	23.3	17.2	6.7	290.1
Sindkheda	15.2	14.3	17.9	20.8	25.5	29.7	32.5	38.0	30.6	26.5	23.6	17.3	6.8	298.7
Shirpur	15.1	14.1	17.6	20.6	25.3	29.4	32.2	37.5	30.3	26.4	23.5	17.3	6.8	296.1

**Table No. F-10: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	39.3	37.1	47.3	54.1	65.9	77.3	84.3	99.1	78.7	67.1	60.1	43.6	17.6	771.6
Sakri	36.9	34.6	42.6	50.1	61.7	71.7	78.7	91.4	74.5	65.2	58.2	42.9	16.6	725.3
Sindkheda	38.0	35.7	44.8	52.0	63.7	74.2	81.3	94.9	76.4	66.2	59.1	43.3	17.1	746.6
Shirpur	37.7	35.3	44.1	51.4	63.1	73.4	80.5	93.8	75.8	66.0	58.9	43.2	16.9	740.2

**Table No. F-11: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	31.4	29.7	37.9	43.3	52.7	61.8	67.5	79.3	63.0	53.7	48.1	34.9	14.1	617.3
Sakri	29.5	27.7	34.1	40.1	49.4	57.3	63.0	73.1	59.6	52.2	46.6	34.4	13.3	580.2
Sindkheda	30.4	28.6	35.8	41.6	50.9	59.4	65.0	75.9	61.1	53.0	47.3	34.6	13.6	597.3
Shirpur	30.2	28.3	35.3	41.2	50.5	58.7	64.4	75.0	60.6	52.8	47.1	34.5	13.5	592.2

**Table No. F-12: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	26.2	24.8	31.6	36.1	43.9	51.5	56.2	66.0	52.5	44.7	40.1	29.1	11.7	514.4
Sakri	24.6	23.0	28.4	33.4	41.1	47.8	52.5	61.0	49.7	43.5	38.8	28.6	11.1	483.5
Sindkheda	25.3	23.8	29.8	34.7	42.5	49.5	54.2	63.3	50.9	44.1	39.4	28.8	11.4	497.8
Shirpur	25.1	23.6	29.4	34.3	42.1	49.0	53.7	62.5	50.5	44.0	39.2	28.8	11.3	493.5

**Table No. F-13: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	19.6	18.6	23.7	27.1	32.9	38.7	42.2	49.5	39.4	33.5	30.1	21.8	8.8	385.8
Sakri	18.5	17.3	21.3	25.1	30.9	35.8	39.4	45.7	37.2	32.6	29.1	21.5	8.3	362.7
Sindkheda	19.0	17.9	22.4	26.0	31.8	37.1	40.7	47.4	38.2	33.1	29.6	21.6	8.5	373.3
Shirpur	18.8	17.7	22.0	25.7	31.6	36.7	40.3	46.9	37.9	33.0	29.4	21.6	8.5	370.1

**Table No. F-14: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	18.5	17.5	22.3	25.5	31.0	36.4	39.7	46.6	37.1	31.6	28.3	20.5	8.3	363.1
Sakri	17.4	16.3	20.1	23.6	29.0	33.7	37.0	43.0	35.1	30.7	27.4	20.2	7.8	341.3
Sindkheda	17.9	16.8	21.1	24.5	30.0	34.9	38.3	44.7	36.0	31.2	27.8	20.4	8.0	351.4
Shirpur	17.7	16.6	20.7	24.2	29.7	34.6	37.9	44.1	35.7	31.1	27.7	20.3	8.0	348.3

**Table No. F-15: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	17.5	16.5	21.0	24.1	29.3	34.4	37.5	44.0	35.0	29.8	26.7	19.4	7.8	342.9
Sakri	16.4	15.4	19.0	22.3	27.4	31.9	35.0	40.6	33.1	29.0	25.9	19.1	7.4	322.4
Sindkheda	16.9	15.9	19.9	23.1	28.3	33.0	36.1	42.2	34.0	29.4	26.3	19.2	7.6	331.8
Shirpur	16.8	15.7	19.6	22.9	28.1	32.6	35.8	41.7	33.7	29.3	26.2	19.2	7.5	329.0

**Table No. F-16: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Dhule District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Dhule	16.5	15.6	19.9	22.8	27.7	32.5	35.5	41.7	33.2	28.2	25.3	18.4	7.4	324.9
Sakri	15.5	14.6	18.0	21.1	26.0	30.2	33.1	38.5	31.4	27.5	24.5	18.1	7.0	305.4
Sindkheda	16.0	15.0	18.8	21.9	26.8	31.3	34.2	40.0	32.2	27.9	24.9	18.2	7.2	314.4
Shirpur	15.9	14.9	18.6	21.7	26.6	30.9	33.9	39.5	31.9	27.8	24.8	18.2	7.1	311.7

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Jalgaon District**

**Table No. F-17: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Jalgaon</b>	14.6	13.5	16.5	19.8	24.4	28.1	31.0	35.8	29.4	26.2	23.2	17.2	6.5	286.3
<b>Jamner</b>	14.4	13.3	16.0	19.4	24.1	27.5	30.5	35.0	29.0	26.2	23.1	17.2	6.4	282.0
<b>Erandol</b>	14.9	13.9	17.1	20.2	24.9	28.8	31.7	36.7	29.9	26.3	23.4	17.2	6.7	291.7
<b>Dharangaon</b>	15.0	14.0	17.4	20.4	25.1	29.1	31.9	37.1	30.1	26.4	23.5	17.3	6.7	293.8
<b>Bhusaval</b>	14.4	13.3	16.1	19.5	24.2	27.6	30.6	35.1	29.0	26.2	23.1	17.2	6.4	282.7
<b>Raver</b>	14.3	13.1	15.8	19.2	24.0	27.3	30.3	34.6	28.8	26.2	23.0	17.1	6.4	280.2
<b>Muktainagar</b>	14.3	13.1	15.8	19.2	24.0	27.2	30.3	34.6	28.7	26.2	23.0	17.2	6.4	280.0
<b>Bodwad</b>	14.3	13.1	15.8	19.2	24.0	27.2	30.3	34.6	28.8	26.2	23.1	17.2	6.4	280.0
<b>Yawal</b>	14.5	13.4	16.3	19.6	24.3	27.8	30.8	35.4	29.1	26.2	23.1	17.2	6.5	283.9
<b>Amalner</b>	15.3	14.4	18.1	21.0	25.7	29.9	32.8	38.3	30.8	26.6	23.7	17.3	6.9	300.8
<b>Parola</b>	15.2	14.3	17.9	20.8	25.5	29.6	32.5	37.9	30.5	26.5	23.7	17.3	6.8	298.3
<b>Chopda</b>	14.8	13.8	17.1	20.1	24.8	28.7	31.6	36.6	29.8	26.3	23.4	17.2	6.6	291.0
<b>Pachora</b>	14.7	13.7	16.7	19.9	24.6	28.3	31.2	36.1	29.6	26.2	23.3	17.2	6.6	288.0
<b>Bhadgaon</b>	14.8	13.8	17.1	20.1	24.8	28.7	31.6	36.6	29.8	26.3	23.4	17.2	6.6	290.8
<b>Chalisgaon</b>	14.7	13.7	16.8	19.9	24.5	28.3	31.2	36.1	29.6	26.1	23.3	17.2	6.6	288.0



**Table No. F-18: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Jalgaon</b>	36.5	33.8	41.4	49.4	61.1	70.3	77.6	89.4	73.5	65.5	58.0	43.0	16.3	715.8
<b>Jamner</b>	35.9	33.1	40.1	48.5	60.3	68.8	76.3	87.4	72.4	65.5	57.8	42.9	16.1	705.1
<b>Erandol</b>	37.1	34.7	42.9	50.5	62.2	72.0	79.2	91.8	74.8	65.8	58.5	43.1	16.7	729.2
<b>Dharangaon</b>	37.4	35.0	43.4	51.0	62.7	72.7	79.8	92.7	75.2	65.9	58.7	43.1	16.8	734.4
<b>Bhusaval</b>	36.0	33.2	40.3	48.6	60.4	69.1	76.5	87.8	72.6	65.5	57.8	42.9	16.1	706.8
<b>Raver</b>	35.7	32.8	39.6	48.1	59.9	68.2	75.8	86.6	71.9	65.5	57.6	42.9	16.0	700.5
<b>Muktainagar</b>	35.7	32.8	39.5	48.1	59.9	68.1	75.7	86.4	71.9	65.5	57.6	42.9	15.9	699.9
<b>Bodwad</b>	35.7	32.8	39.5	48.1	59.9	68.1	75.7	86.4	71.9	65.6	57.6	42.9	15.9	700.1
<b>Yawal</b>	36.2	33.4	40.7	48.9	60.6	69.5	76.9	88.4	72.9	65.5	57.8	42.9	16.2	709.9
<b>Amalner</b>	38.3	36.0	45.3	52.4	64.2	74.9	81.9	95.7	76.9	66.4	59.4	43.3	17.2	752.0
<b>Parola</b>	38.0	35.7	44.6	51.9	63.6	74.1	81.2	94.7	76.3	66.2	59.1	43.3	17.0	745.9
<b>Chopda</b>	37.0	34.6	42.7	50.4	62.1	71.8	79.0	91.5	74.6	65.7	58.4	43.1	16.6	727.4
<b>Pachora</b>	36.7	34.1	41.9	49.7	61.4	70.8	78.0	90.2	73.9	65.5	58.2	43.0	16.5	719.9
<b>Bhadgaon</b>	37.0	34.6	42.6	50.3	62.0	71.7	78.9	91.4	74.6	65.7	58.4	43.1	16.6	727.0
<b>Chalisgaon</b>	36.7	34.3	42.0	49.7	61.3	70.8	78.0	90.2	74.1	65.3	58.2	43.0	16.5	719.9

**Table No. F-19: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Jalgaon	29.2	27.1	33.1	39.5	48.9	56.2	62.1	71.5	58.8	52.4	46.4	34.4	13.1	572.7
Jamner	28.7	26.5	32.1	38.8	48.2	55.1	61.0	69.9	57.9	52.4	46.2	34.3	12.9	564.1
Erandol	29.7	27.7	34.3	40.4	49.8	57.6	63.4	73.4	59.8	52.6	46.8	34.5	13.3	583.4
Dharangaon	29.9	28.0	34.7	40.8	50.1	58.1	63.9	74.2	60.2	52.7	47.0	34.5	13.4	587.5
Bhusaval	28.8	26.6	32.2	38.9	48.3	55.3	61.2	70.2	58.0	52.4	46.2	34.3	12.9	565.4
Raver	28.5	26.2	31.7	38.5	47.9	54.6	60.6	69.3	57.5	52.4	46.1	34.3	12.8	560.4
Muktainagar	28.5	26.2	31.6	38.5	47.9	54.5	60.6	69.1	57.5	52.4	46.1	34.3	12.7	559.9
Bodwad	28.5	26.2	31.6	38.5	47.9	54.5	60.6	69.1	57.5	52.4	46.1	34.3	12.8	560.1
Yawal	28.9	26.8	32.6	39.1	48.5	55.6	61.5	70.7	58.3	52.4	46.3	34.3	13.0	567.9
Amalner	30.6	28.8	36.2	42.0	51.3	59.9	65.6	76.6	61.5	53.1	47.5	34.7	13.7	601.6
Parola	30.4	28.5	35.7	41.5	50.9	59.3	65.0	75.8	61.1	53.0	47.3	34.6	13.6	596.7
Chopda	29.6	27.6	34.1	40.3	49.7	57.4	63.2	73.2	59.7	52.6	46.7	34.4	13.3	581.9
Pachora	29.3	27.3	33.5	39.8	49.1	56.6	62.4	72.1	59.1	52.4	46.6	34.4	13.2	575.9
Bhadgaon	29.6	27.7	34.1	40.3	49.6	57.4	63.1	73.1	59.7	52.5	46.8	34.5	13.3	581.6
Chalisgaon	29.3	27.4	33.6	39.8	49.0	56.7	62.4	72.2	59.2	52.2	46.5	34.4	13.2	576.0

**Table No. F-20: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Jalgaon</b>	24.3	22.6	27.6	32.9	40.7	46.8	51.7	59.6	49.0	43.7	38.7	28.6	10.9	477.2
<b>Jamner</b>	23.9	22.1	26.7	32.3	40.2	45.9	50.9	58.3	48.3	43.6	38.5	28.6	10.7	470.1
<b>Erandol</b>	24.8	23.1	28.6	33.7	41.5	48.0	52.8	61.2	49.8	43.9	39.0	28.7	11.1	486.1
<b>Dharangaon</b>	24.9	23.3	28.9	34.0	41.8	48.4	53.2	61.8	50.2	43.9	39.1	28.8	11.2	489.6
<b>Bhusaval</b>	24.0	22.2	26.9	32.4	40.3	46.0	51.0	58.5	48.4	43.6	38.5	28.6	10.7	471.2
<b>Raver</b>	23.8	21.9	26.4	32.1	40.0	45.5	50.5	57.7	47.9	43.6	38.4	28.6	10.6	467.0
<b>Muktainagar</b>	23.8	21.8	26.3	32.0	39.9	45.4	50.5	57.6	47.9	43.7	38.4	28.6	10.6	466.6
<b>Bodwad</b>	23.8	21.8	26.3	32.1	39.9	45.4	50.5	57.6	47.9	43.7	38.4	28.6	10.6	466.7
<b>Yawal</b>	24.1	22.3	27.1	32.6	40.4	46.3	51.3	58.9	48.6	43.6	38.6	28.6	10.8	473.2
<b>Amalner</b>	25.5	24.0	30.2	35.0	42.8	49.9	54.6	63.8	51.3	44.3	39.6	28.9	11.4	501.3
<b>Parola</b>	25.3	23.8	29.8	34.6	42.4	49.4	54.1	63.1	50.9	44.2	39.4	28.9	11.4	497.2
<b>Chopda</b>	24.7	23.0	28.4	33.6	41.4	47.9	52.7	61.0	49.7	43.8	38.9	28.7	11.1	485.0
<b>Pachora</b>	24.4	22.8	27.9	33.1	40.9	47.2	52.0	60.1	49.3	43.7	38.8	28.7	11.0	479.9
<b>Bhadgaon</b>	24.7	23.1	28.4	33.5	41.3	47.8	52.6	60.9	49.7	43.8	39.0	28.7	11.1	484.6
<b>Chalisgaon</b>	24.5	22.9	28.0	33.1	40.9	47.2	52.0	60.2	49.4	43.5	38.8	28.6	11.0	480.0

**Table No. F-21: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Jalgaon	18.2	16.9	20.7	24.7	30.6	35.1	38.8	44.7	36.7	32.8	29.0	21.5	8.2	357.9
Jamner	18.0	16.6	20.1	24.2	30.1	34.4	38.1	43.7	36.2	32.7	28.9	21.5	8.0	352.5
Erandol	18.6	17.3	21.4	25.3	31.1	36.0	39.6	45.9	37.4	32.9	29.3	21.5	8.3	364.6
Dharangaon	18.7	17.5	21.7	25.5	31.3	36.3	39.9	46.4	37.6	33.0	29.3	21.6	8.4	367.2
Bhusaval	18.0	16.6	20.2	24.3	30.2	34.5	38.3	43.9	36.3	32.7	28.9	21.5	8.1	353.4
Raver	17.8	16.4	19.8	24.1	30.0	34.1	37.9	43.3	36.0	32.7	28.8	21.4	8.0	350.3
Muktainagar	17.8	16.4	19.7	24.0	30.0	34.1	37.8	43.2	35.9	32.8	28.8	21.4	8.0	350.0
Bodwad	17.8	16.4	19.7	24.0	30.0	34.1	37.8	43.2	35.9	32.8	28.8	21.4	8.0	350.0
Yawal	18.1	16.7	20.3	24.4	30.3	34.8	38.4	44.2	36.4	32.7	28.9	21.5	8.1	354.9
Amalner	19.1	18.0	22.6	26.2	32.1	37.4	41.0	47.9	38.5	33.2	29.7	21.7	8.6	376.0
Parola	19.0	17.8	22.3	26.0	31.8	37.0	40.6	47.3	38.2	33.1	29.6	21.6	8.5	372.9
Chopda	18.5	17.3	21.3	25.2	31.0	35.9	39.5	45.8	37.3	32.9	29.2	21.5	8.3	363.7
Pachora	18.3	17.1	20.9	24.9	30.7	35.4	39.0	45.1	37.0	32.8	29.1	21.5	8.2	359.9
Bhadgaon	18.5	17.3	21.3	25.2	31.0	35.9	39.4	45.7	37.3	32.8	29.2	21.5	8.3	363.5
Chalisgaon	18.3	17.1	21.0	24.9	30.6	35.4	39.0	45.1	37.0	32.6	29.1	21.5	8.2	360.0

**Table No. F-22: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Jalgaon</b>	17.2	15.9	19.5	23.2	28.8	33.1	36.5	42.1	34.6	30.8	27.3	20.2	7.7	336.9
<b>Jamner</b>	16.9	15.6	18.9	22.8	28.4	32.4	35.9	41.1	34.1	30.8	27.2	20.2	7.6	331.8
<b>Erandol</b>	17.5	16.3	20.2	23.8	29.3	33.9	37.3	43.2	35.2	31.0	27.5	20.3	7.8	343.2
<b>Dharangaon</b>	17.6	16.5	20.4	24.0	29.5	34.2	37.6	43.6	35.4	31.0	27.6	20.3	7.9	345.6
<b>Bhusaval</b>	16.9	15.6	19.0	22.9	28.4	32.5	36.0	41.3	34.1	30.8	27.2	20.2	7.6	332.6
<b>Raver</b>	16.8	15.4	18.6	22.6	28.2	32.1	35.7	40.8	33.8	30.8	27.1	20.2	7.5	329.7
<b>Muktainagar</b>	16.8	15.4	18.6	22.6	28.2	32.1	35.6	40.7	33.8	30.8	27.1	20.2	7.5	329.4
<b>Bodwad</b>	16.8	15.4	18.6	22.6	28.2	32.1	35.6	40.7	33.8	30.8	27.1	20.2	7.5	329.4
<b>Yawal</b>	17.0	15.7	19.1	23.0	28.5	32.7	36.2	41.6	34.3	30.8	27.2	20.2	7.6	334.1
<b>Amalner</b>	18.0	16.9	21.3	24.7	30.2	35.2	38.6	45.1	36.2	31.3	27.9	20.4	8.1	353.9
<b>Parola</b>	17.9	16.8	21.0	24.4	29.9	34.9	38.2	44.6	35.9	31.2	27.8	20.4	8.0	351.0
<b>Chopda</b>	17.4	16.3	20.1	23.7	29.2	33.8	37.2	43.1	35.1	30.9	27.5	20.3	7.8	342.3
<b>Pachora</b>	17.3	16.1	19.7	23.4	28.9	33.3	36.7	42.4	34.8	30.8	27.4	20.2	7.7	338.8
<b>Bhadgaon</b>	17.4	16.3	20.1	23.7	29.2	33.7	37.1	43.0	35.1	30.9	27.5	20.3	7.8	342.1
<b>Chalisgaon</b>	17.3	16.1	19.8	23.4	28.8	33.3	36.7	42.5	34.8	30.7	27.4	20.2	7.8	338.8

**Table No. F-23: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Jalgaon	16.2	15.0	18.4	22.0	27.2	31.2	34.5	39.7	32.6	29.1	25.8	19.1	7.3	318.1
Jamner	16.0	14.7	17.8	21.6	26.8	30.6	33.9	38.9	32.2	29.1	25.7	19.1	7.1	313.4
Erandol	16.5	15.4	19.0	22.5	27.7	32.0	35.2	40.8	33.2	29.2	26.0	19.2	7.4	324.1
Dharangaon	16.6	15.5	19.3	22.6	27.8	32.3	35.5	41.2	33.4	29.3	26.1	19.2	7.5	326.4
Bhusaval	16.0	14.8	17.9	21.6	26.8	30.7	34.0	39.0	32.2	29.1	25.7	19.1	7.2	314.1
Raver	15.9	14.6	17.6	21.4	26.6	30.3	33.7	38.5	32.0	29.1	25.6	19.1	7.1	311.3
Muktainagar	15.8	14.6	17.5	21.4	26.6	30.3	33.6	38.4	31.9	29.1	25.6	19.1	7.1	311.1
Bodwad	15.9	14.6	17.5	21.4	26.6	30.3	33.6	38.4	31.9	29.1	25.6	19.1	7.1	311.1
Yawal	16.1	14.9	18.1	21.7	27.0	30.9	34.2	39.3	32.4	29.1	25.7	19.1	7.2	315.5
Amalner	17.0	16.0	20.1	23.3	28.5	33.3	36.4	42.6	34.2	29.5	26.4	19.3	7.6	334.2
Parola	16.9	15.8	19.8	23.1	28.3	32.9	36.1	42.1	33.9	29.4	26.3	19.2	7.6	331.5
Chopda	16.5	15.4	19.0	22.4	27.6	31.9	35.1	40.7	33.1	29.2	26.0	19.1	7.4	323.3
Pachora	16.3	15.2	18.6	22.1	27.3	31.5	34.7	40.1	32.8	29.1	25.9	19.1	7.3	319.9
Bhadgaon	16.5	15.4	19.0	22.4	27.6	31.9	35.1	40.6	33.2	29.2	26.0	19.1	7.4	323.1
Chalisgaon	16.3	15.2	18.7	22.1	27.2	31.5	34.7	40.1	32.9	29.0	25.9	19.1	7.3	320.0

**Table No. F-24: Taluka Wise Irrigation Water Requirement (mm) of Kharif Sesame by Drip Irrigation at 95% efficiency in Jalgaon District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Jalgaon	15.4	14.2	17.4	20.8	25.7	29.6	32.7	37.7	30.9	27.6	24.4	18.1	6.9	301.4
Jamner	15.1	14.0	16.9	20.4	25.4	29.0	32.1	36.8	30.5	27.6	24.3	18.1	6.8	296.9
Erandol	15.6	14.6	18.0	21.3	26.2	30.3	33.3	38.7	31.5	27.7	24.6	18.1	7.0	307.0
Dharangaon	15.7	14.7	18.3	21.5	26.4	30.6	33.6	39.0	31.7	27.8	24.7	18.2	7.1	309.2
Bhusaval	15.2	14.0	17.0	20.5	25.4	29.1	32.2	37.0	30.6	27.6	24.3	18.1	6.8	297.6
Raver	15.0	13.8	16.7	20.3	25.2	28.7	31.9	36.5	30.3	27.6	24.2	18.0	6.7	295.0
Muktainagar	15.0	13.8	16.6	20.2	25.2	28.7	31.9	36.4	30.3	27.6	24.3	18.1	6.7	294.7
Bodwad	15.0	13.8	16.6	20.2	25.2	28.7	31.9	36.4	30.3	27.6	24.3	18.1	6.7	294.8
Yawal	15.2	14.1	17.1	20.6	25.5	29.3	32.4	37.2	30.7	27.6	24.4	18.1	6.8	298.9
Amalner	16.1	15.2	19.1	22.1	27.0	31.5	34.5	40.3	32.4	28.0	25.0	18.3	7.2	316.6
Parola	16.0	15.0	18.8	21.9	26.8	31.2	34.2	39.9	32.1	27.9	24.9	18.2	7.2	314.1
Chopda	15.6	14.5	18.0	21.2	26.1	30.2	33.3	38.5	31.4	27.7	24.6	18.1	7.0	306.3
Pachora	15.4	14.4	17.6	20.9	25.9	29.8	32.9	38.0	31.1	27.6	24.5	18.1	6.9	303.1
Bhadgaon	15.6	14.6	18.0	21.2	26.1	30.2	33.2	38.5	31.4	27.7	24.6	18.1	7.0	306.1
Chalisgaon	15.4	14.4	17.7	20.9	25.8	29.8	32.8	38.0	31.2	27.5	24.5	18.1	6.9	303.1

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Kolhapur District**

**Table No. F-25: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Radhanagari</b>	12.1	10.9	12.3	16.8	21.2	23.1	26.3	29.4	25.5	25.1	21.8	16.0	5.5	246.0
<b>Kagal</b>	12.1	11.3	12.5	16.9	21.1	23.1	26.3	29.6	25.9	25.4	21.9	15.9	5.4	247.4
<b>Shahuwadi</b>	12.5	11.4	12.9	17.1	21.7	23.5	26.7	29.9	26.2	25.6	22.0	16.7	5.6	251.7
<b>Panhala</b>	12.3	11.4	12.6	17.0	21.3	23.2	26.4	29.7	26.1	25.5	22.0	16.2	5.5	249.3
<b>Karvir</b>	12.1	11.3	12.5	16.9	21.1	23.1	26.2	29.6	26.0	25.4	21.9	15.8	5.4	247.4
<b>Gaganbawada</b>	12.2	11.1	12.5	16.9	21.4	23.3	26.5	29.6	25.8	25.3	21.8	16.2	5.5	248.1
<b>Hatkangale</b>	12.4	11.5	12.8	17.2	21.5	23.3	26.6	29.9	26.4	25.6	22.1	16.5	5.6	251.4
<b>Shirol</b>	12.6	11.5	13.0	17.4	21.7	23.5	26.8	30.1	26.5	25.7	22.2	16.7	5.6	253.3
<b>Bhudargad</b>	11.8	10.4	11.9	16.4	21.1	23.0	26.1	29.0	24.8	24.7	21.5	15.8	5.4	241.9
<b>Gadhinglaj</b>	11.3	9.6	11.3	16.0	20.7	22.6	25.7	28.4	23.9	24.0	21.1	15.4	5.3	235.2
<b>Chandgad</b>	11.7	10.3	11.9	16.4	21.1	23.0	26.2	29.0	24.8	24.7	21.5	15.8	5.4	241.7
<b>Ajara</b>	11.5	10.0	11.6	16.2	20.9	22.8	25.9	28.7	24.3	24.3	21.3	15.6	5.4	238.5



**Table No. F-26: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Radhanagari</b>	30.1	27.2	30.8	41.9	53.1	57.9	65.8	73.6	63.8	62.8	54.4	40.0	13.7	615.0
<b>Kagal</b>	30.3	28.2	31.2	42.2	52.8	57.8	65.7	74.0	64.9	63.4	54.7	39.7	13.6	618.4
<b>Shahuwadi</b>	31.2	28.5	32.3	42.7	54.2	58.6	66.7	74.7	65.4	64.0	55.1	41.7	14.1	629.2
<b>Panhala</b>	30.7	28.4	31.6	42.5	53.3	58.1	66.1	74.4	65.2	63.7	54.9	40.4	13.8	623.2
<b>Karvir</b>	30.3	28.3	31.2	42.2	52.7	57.7	65.6	74.0	65.0	63.4	54.7	39.6	13.6	618.5
<b>Gaganbawada</b>	30.6	27.7	31.3	42.2	53.4	58.2	66.2	74.0	64.4	63.3	54.6	40.5	13.8	620.3
<b>Hatkangale</b>	31.1	28.7	32.1	43.0	53.8	58.4	66.5	74.8	65.9	63.9	55.2	41.1	13.9	628.5
<b>Shirol</b>	31.5	28.8	32.4	43.4	54.3	58.7	67.0	75.2	66.3	64.3	55.5	41.7	14.1	633.3
<b>Bhudargad</b>	29.4	25.9	29.8	41.1	52.7	57.4	65.4	72.5	62.1	61.7	53.7	39.5	13.5	604.7
<b>Gadhinglaj</b>	28.2	24.1	28.3	39.9	51.7	56.6	64.3	70.9	59.7	60.0	52.7	38.4	13.3	588.1
<b>Chandgad</b>	29.4	25.7	29.7	41.1	52.8	57.5	65.5	72.5	61.9	61.7	53.7	39.5	13.5	604.4
<b>Ajara</b>	28.8	24.9	29.0	40.5	52.2	57.0	64.9	71.7	60.9	60.8	53.2	38.9	13.4	596.2

**Table No. F-27: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Radhanagari	24.1	21.8	24.6	33.5	42.5	46.3	52.7	58.8	51.0	50.3	43.5	32.0	10.9	492.0
Kagal	24.2	22.5	24.9	33.8	42.3	46.2	52.6	59.2	51.9	50.7	43.8	31.8	10.9	494.7
Shahuwadi	24.9	22.8	25.8	34.2	43.4	46.9	53.4	59.8	52.3	51.2	44.1	33.4	11.3	503.4
Panhala	24.5	22.7	25.3	34.0	42.7	46.5	52.9	59.5	52.2	51.0	44.0	32.3	11.0	498.5
Karvir	24.2	22.6	25.0	33.8	42.2	46.2	52.5	59.2	52.0	50.8	43.8	31.7	10.9	494.8
Gaganbawada	24.5	22.2	25.0	33.8	42.8	46.5	52.9	59.2	51.5	50.7	43.7	32.4	11.0	496.2
Hatkangale	24.9	22.9	25.7	34.4	43.0	46.7	53.2	59.9	52.7	51.2	44.2	32.9	11.1	502.8
Shirol	25.2	23.1	26.0	34.7	43.4	47.0	53.6	60.2	53.1	51.4	44.4	33.4	11.3	506.6
Bhudargad	23.5	20.7	23.8	32.9	42.1	46.0	52.3	58.0	49.7	49.4	43.0	31.6	10.8	483.8
Gadhinglaj	22.5	19.3	22.6	31.9	41.4	45.3	51.5	56.7	47.8	48.0	42.2	30.8	10.6	470.5
Chandgad	23.5	20.6	23.8	32.9	42.2	46.0	52.4	58.0	49.5	49.3	43.0	31.6	10.8	483.5
Ajara	23.0	19.9	23.2	32.4	41.8	45.6	51.9	57.4	48.7	48.7	42.6	31.2	10.7	476.9

**Table No. F-28: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Radhanagari</b>	20.1	18.1	20.5	27.9	35.4	38.6	43.9	49.0	42.5	41.9	36.3	26.7	9.1	410.0
<b>Kagal</b>	20.2	18.8	20.8	28.2	35.2	38.5	43.8	49.3	43.2	42.3	36.5	26.5	9.1	412.3
<b>Shahuwadi</b>	20.8	19.0	21.5	28.5	36.1	39.1	44.5	49.8	43.6	42.7	36.7	27.8	9.4	419.5
<b>Panhala</b>	20.4	18.9	21.1	28.3	35.6	38.7	44.1	49.6	43.5	42.5	36.6	26.9	9.2	415.4
<b>Karvir</b>	20.2	18.9	20.8	28.2	35.1	38.5	43.7	49.4	43.3	42.3	36.5	26.4	9.1	412.3
<b>Gaganbawada</b>	20.4	18.5	20.9	28.1	35.6	38.8	44.1	49.3	42.9	42.2	36.4	27.0	9.2	413.5
<b>Hatkangale</b>	20.7	19.1	21.4	28.7	35.9	38.9	44.3	49.9	43.9	42.6	36.8	27.4	9.3	419.0
<b>Shirol</b>	21.0	19.2	21.6	28.9	36.2	39.1	44.7	50.2	44.2	42.8	37.0	27.8	9.4	422.2
<b>Bhudargad</b>	19.6	17.3	19.9	27.4	35.1	38.3	43.6	48.4	41.4	41.1	35.8	26.3	9.0	403.1
<b>Gadhinglaj</b>	18.8	16.1	18.8	26.6	34.5	37.7	42.9	47.3	39.8	40.0	35.1	25.6	8.8	392.1
<b>Chandgad</b>	19.6	17.1	19.8	27.4	35.2	38.3	43.6	48.3	41.3	41.1	35.8	26.3	9.0	402.9
<b>Ajara</b>	19.2	16.6	19.3	27.0	34.8	38.0	43.2	47.8	40.6	40.5	35.5	26.0	8.9	397.5

**Table No. F-29: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Radhanagari	15.1	13.6	15.4	20.9	26.5	28.9	32.9	36.8	31.9	31.4	27.2	20.0	6.8	307.5
Kagal	15.1	14.1	15.6	21.1	26.4	28.9	32.8	37.0	32.4	31.7	27.4	19.9	6.8	309.2
Shahuwadi	15.6	14.3	16.1	21.4	27.1	29.3	33.4	37.4	32.7	32.0	27.6	20.9	7.0	314.6
Panhala	15.3	14.2	15.8	21.3	26.7	29.1	33.1	37.2	32.6	31.8	27.5	20.2	6.9	311.6
Karvir	15.1	14.1	15.6	21.1	26.4	28.9	32.8	37.0	32.5	31.7	27.4	19.8	6.8	309.2
Gaganbawada	15.3	13.9	15.6	21.1	26.7	29.1	33.1	37.0	32.2	31.7	27.3	20.3	6.9	310.1
Hatkangale	15.6	14.3	16.0	21.5	26.9	29.2	33.3	37.4	32.9	32.0	27.6	20.6	7.0	314.3
Shirol	15.7	14.4	16.2	21.7	27.2	29.4	33.5	37.6	33.2	32.1	27.7	20.9	7.0	316.6
Bhudargad	14.7	12.9	14.9	20.6	26.3	28.7	32.7	36.3	31.1	30.9	26.9	19.7	6.8	302.4
Gadhinglaj	14.1	12.0	14.1	19.9	25.9	28.3	32.2	35.5	29.9	30.0	26.4	19.2	6.6	294.1
Chandgad	14.7	12.8	14.9	20.5	26.4	28.8	32.7	36.2	31.0	30.8	26.9	19.7	6.8	302.2
Ajara	14.4	12.5	14.5	20.2	26.1	28.5	32.4	35.9	30.4	30.4	26.6	19.5	6.7	298.1

**Table No. F-30: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Radhanagari</b>	14.2	12.8	14.5	19.7	25.0	27.2	31.0	34.6	30.0	29.6	25.6	18.8	6.4	289.4
<b>Kagal</b>	14.3	13.3	14.7	19.9	24.9	27.2	30.9	34.8	30.5	29.8	25.8	18.7	6.4	291.0
<b>Shahuwadi</b>	14.7	13.4	15.2	20.1	25.5	27.6	31.4	35.2	30.8	30.1	25.9	19.6	6.6	296.1
<b>Panhala</b>	14.4	13.4	14.9	20.0	25.1	27.3	31.1	35.0	30.7	30.0	25.9	19.0	6.5	293.3
<b>Karvir</b>	14.3	13.3	14.7	19.9	24.8	27.2	30.9	34.8	30.6	29.9	25.8	18.6	6.4	291.0
<b>Gaganbawada</b>	14.4	13.1	14.7	19.9	25.1	27.4	31.1	34.8	30.3	29.8	25.7	19.1	6.5	291.9
<b>Hatkangale</b>	14.6	13.5	15.1	20.2	25.3	27.5	31.3	35.2	31.0	30.1	26.0	19.4	6.6	295.8
<b>Shirol</b>	14.8	13.6	15.3	20.4	25.6	27.6	31.5	35.4	31.2	30.2	26.1	19.6	6.6	298.0
<b>Bhudargad</b>	13.8	12.2	14.0	19.3	24.8	27.0	30.8	34.1	29.2	29.0	25.3	18.6	6.4	284.6
<b>Gadhinglaj</b>	13.3	11.3	13.3	18.8	24.3	26.6	30.3	33.4	28.1	28.2	24.8	18.1	6.2	276.8
<b>Chandgad</b>	13.8	12.1	14.0	19.3	24.8	27.1	30.8	34.1	29.1	29.0	25.3	18.6	6.4	284.4
<b>Ajara</b>	13.5	11.7	13.6	19.1	24.6	26.8	30.5	33.7	28.6	28.6	25.0	18.3	6.3	280.6

**Table No. F-31: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Radhanagari	13.4	12.1	13.7	18.6	23.6	25.7	29.3	32.7	28.3	27.9	24.2	17.8	6.1	273.3
Kagal	13.5	12.5	13.9	18.8	23.5	25.7	29.2	32.9	28.8	28.2	24.3	17.6	6.1	274.9
Shahuwadi	13.9	12.7	14.3	19.0	24.1	26.1	29.6	33.2	29.1	28.4	24.5	18.5	6.3	279.7
Panhala	13.6	12.6	14.1	18.9	23.7	25.8	29.4	33.1	29.0	28.3	24.4	18.0	6.1	277.0
Karvir	13.5	12.6	13.9	18.8	23.4	25.6	29.2	32.9	28.9	28.2	24.3	17.6	6.0	274.9
Gaganbawada	13.6	12.3	13.9	18.8	23.8	25.9	29.4	32.9	28.6	28.1	24.3	18.0	6.1	275.7
Hatkangale	13.8	12.7	14.3	19.1	23.9	25.9	29.6	33.3	29.3	28.4	24.5	18.3	6.2	279.3
Shirol	14.0	12.8	14.4	19.3	24.1	26.1	29.8	33.4	29.5	28.6	24.7	18.6	6.3	281.5
Bhudargad	13.1	11.5	13.2	18.3	23.4	25.5	29.0	32.2	27.6	27.4	23.9	17.5	6.0	268.8
Gadhinglaj	12.5	10.7	12.6	17.7	23.0	25.1	28.6	31.5	26.5	26.7	23.4	17.1	5.9	261.4
Chandgad	13.0	11.4	13.2	18.3	23.5	25.6	29.1	32.2	27.5	27.4	23.9	17.5	6.0	268.6
Ajara	12.8	11.1	12.9	18.0	23.2	25.3	28.8	31.9	27.0	27.0	23.7	17.3	6.0	265.0

**Table No. F-32: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Kolhapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Radhanagari	12.7	11.5	13.0	17.6	22.4	24.4	27.7	31.0	26.9	26.5	22.9	16.8	5.8	259.0
Kagal	12.8	11.9	13.1	17.8	22.2	24.3	27.7	31.2	27.3	26.7	23.0	16.7	5.7	260.4
Shahuwadi	13.1	12.0	13.6	18.0	22.8	24.7	28.1	31.5	27.5	26.9	23.2	17.6	5.9	264.9
Panhala	12.9	12.0	13.3	17.9	22.5	24.5	27.8	31.3	27.5	26.8	23.1	17.0	5.8	262.4
Karvir	12.8	11.9	13.1	17.8	22.2	24.3	27.6	31.2	27.4	26.7	23.0	16.7	5.7	260.4
Gaganbawada	12.9	11.7	13.2	17.8	22.5	24.5	27.9	31.2	27.1	26.7	23.0	17.1	5.8	261.2
Hatkangale	13.1	12.1	13.5	18.1	22.7	24.6	28.0	31.5	27.7	26.9	23.3	17.3	5.9	264.6
Shirol	13.3	12.1	13.7	18.3	22.9	24.7	28.2	31.7	27.9	27.1	23.4	17.6	5.9	266.6
Bhudargad	12.4	10.9	12.5	17.3	22.2	24.2	27.5	30.5	26.1	26.0	22.6	16.6	5.7	254.6
Gadhinglaj	11.9	10.1	11.9	16.8	21.8	23.8	27.1	29.9	25.2	25.3	22.2	16.2	5.6	247.6
Chandgad	12.4	10.8	12.5	17.3	22.2	24.2	27.6	30.5	26.1	26.0	22.6	16.6	5.7	254.5
Ajara	12.1	10.5	12.2	17.0	22.0	24.0	27.3	30.2	25.6	25.6	22.4	16.4	5.6	251.0

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Nandurbar District**

**Table No. F-33: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	14.2	13.1	15.8	19.1	23.7	27.3	30.1	34.7	28.6	25.7	22.7	17.0	6.4	278.5
Navapur	13.8	12.8	15.3	18.5	23.1	26.6	29.3	33.8	28.1	25.2	22.4	16.9	6.3	272.1
Taloda	14.3	13.3	16.2	19.4	24.0	27.7	30.5	35.2	29.0	25.8	22.9	17.1	6.5	281.8
Akkalkuva	14.0	13.0	15.7	18.9	23.5	27.1	29.8	34.5	28.4	25.4	22.6	16.9	6.4	276.3
Akrani	14.2	13.1	15.9	19.1	23.8	27.3	30.2	34.8	28.7	25.7	22.8	17.0	6.4	279.0

**Table No. F-34: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	35.4	32.8	39.6	47.7	59.3	68.2	75.3	86.7	71.6	64.3	56.9	42.5	16.0	696.2
Navapur	34.5	32.1	38.3	46.3	57.7	66.5	73.4	84.6	70.2	63.0	55.9	42.2	15.7	680.3
Taloda	35.8	33.3	40.5	48.4	60.0	69.2	76.3	88.1	72.4	64.5	57.2	42.6	16.2	704.5
Akkalkuva	35.1	32.6	39.3	47.2	58.7	67.7	74.6	86.1	71.1	63.6	56.4	42.4	15.9	690.7
Akrani	35.5	32.8	39.7	47.8	59.4	68.3	75.4	86.9	71.7	64.4	56.9	42.5	16.0	697.4



**Table No. F-35: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	28.3	26.2	31.7	38.2	47.4	54.5	60.2	69.4	57.3	51.4	45.5	34.0	12.8	557.0
Navapur	27.6	25.6	30.7	37.0	46.2	53.2	58.7	67.7	56.1	50.4	44.7	33.7	12.6	544.2
Taloda	28.7	26.6	32.4	38.7	48.0	55.3	61.0	70.4	57.9	51.6	45.8	34.1	12.9	563.6
Akkalkuva	28.1	26.1	31.4	37.8	47.0	54.1	59.7	68.9	56.9	50.9	45.1	33.9	12.7	552.6
Akrani	28.4	26.3	31.8	38.2	47.5	54.6	60.4	69.5	57.4	51.5	45.5	34.0	12.8	557.9

**Table No. F-36: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	23.6	21.9	26.4	31.8	39.5	45.5	50.2	57.8	47.7	42.8	37.9	28.3	10.7	464.2
Navapur	23.0	21.4	25.5	30.9	38.5	44.3	48.9	56.4	46.8	42.0	37.3	28.1	10.5	453.5
Taloda	23.9	22.2	27.0	32.3	40.0	46.1	50.9	58.7	48.3	43.0	38.2	28.4	10.8	469.6
Akkalkuva	23.4	21.7	26.2	31.5	39.1	45.1	49.7	57.4	47.4	42.4	37.6	28.2	10.6	460.5
Akrani	23.6	21.9	26.5	31.9	39.6	45.5	50.3	57.9	47.8	42.9	38.0	28.4	10.7	464.9

**Table No. F-37: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	17.7	16.4	19.8	23.8	29.6	34.1	37.7	43.4	35.8	32.1	28.4	21.3	8.0	348.1
Navapur	17.3	16.0	19.2	23.1	28.8	33.2	36.7	42.3	35.1	31.5	27.9	21.1	7.9	340.1
Taloda	17.9	16.6	20.2	24.2	30.0	34.6	38.1	44.0	36.2	32.3	28.6	21.3	8.1	352.2
Akkalkuva	17.5	16.3	19.6	23.6	29.4	33.8	37.3	43.1	35.6	31.8	28.2	21.2	8.0	345.3
Akrani	17.7	16.4	19.9	23.9	29.7	34.1	37.7	43.4	35.8	32.2	28.5	21.3	8.0	348.7

**Table No. F-38: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	16.7	15.4	18.6	22.4	27.9	32.1	35.4	40.8	33.7	30.2	26.8	20.0	7.5	327.6
Navapur	16.2	15.1	18.0	21.8	27.2	31.3	34.5	39.8	33.0	29.6	26.3	19.8	7.4	320.1
Taloda	16.9	15.7	19.0	22.8	28.2	32.5	35.9	41.4	34.1	30.4	26.9	20.1	7.6	331.5
Akkalkuva	16.5	15.3	18.5	22.2	27.6	31.8	35.1	40.5	33.5	29.9	26.5	19.9	7.5	325.0
Akrani	16.7	15.5	18.7	22.5	28.0	32.1	35.5	40.9	33.7	30.3	26.8	20.0	7.5	328.2

**Table No. F-39: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	15.7	14.6	17.6	21.2	26.3	30.3	33.5	38.5	31.8	28.6	25.3	18.9	7.1	309.4
Navapur	15.3	14.2	17.0	20.6	25.6	29.5	32.6	37.6	31.2	28.0	24.8	18.7	7.0	302.3
Taloda	15.9	14.8	18.0	21.5	26.7	30.7	33.9	39.1	32.2	28.7	25.4	19.0	7.2	313.1
Akkalkuva	15.6	14.5	17.5	21.0	26.1	30.1	33.2	38.3	31.6	28.3	25.1	18.8	7.1	307.0
Akrani	15.8	14.6	17.7	21.2	26.4	30.4	33.5	38.6	31.9	28.6	25.3	18.9	7.1	309.9

**Table No. F-40: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Nandurbar District**

Taluka	CW 1	CW 2	CW 3	CW 4	CW 5	CW 6	CW 7	CW 8	CW 9	CW 10	CW 11	CW 12	CW 13	Seasonal CWR
Nandurbar	14.9	13.8	16.7	20.1	25.0	28.7	31.7	36.5	30.1	27.1	23.9	17.9	6.7	293.2
Navapur	14.5	13.5	16.1	19.5	24.3	28.0	30.9	35.6	29.6	26.5	23.5	17.8	6.6	286.4
Taloda	15.1	14.0	17.0	20.4	25.3	29.1	32.1	37.1	30.5	27.2	24.1	18.0	6.8	296.6
Akkalkuva	14.8	13.7	16.5	19.9	24.7	28.5	31.4	36.3	29.9	26.8	23.7	17.8	6.7	290.8
<b>Akrani</b>	<b>14.9</b>	<b>13.8</b>	<b>16.7</b>	<b>20.1</b>	<b>25.0</b>	<b>28.8</b>	<b>31.8</b>	<b>36.6</b>	<b>30.2</b>	<b>27.1</b>	<b>24.0</b>	<b>17.9</b>	<b>6.7</b>	<b>293.6</b>



**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Nashik District**

**Table No. F-41: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nashik</b>	13.0	12.1	14.1	17.3	21.7	25.2	27.9	32.1	26.8	24.2	21.6	16.6	6.1	258.8
<b>Igatpuri</b>	10.9	10.1	11.4	14.7	18.7	22.3	24.8	29.0	23.2	21.8	19.3	15.9	5.6	227.8
<b>Dindori</b>	13.6	12.8	15.0	18.2	22.6	26.1	28.9	33.2	28.0	24.9	22.3	16.8	6.3	268.7
<b>Peth</b>	12.8	11.9	13.8	17.0	21.4	24.8	27.5	31.6	26.4	24.0	21.3	16.5	6.0	255.0
<b>Trimbakeshwar</b>	11.9	11.0	12.6	15.9	20.1	23.5	26.1	30.3	24.8	23.0	20.3	16.2	5.8	241.5
<b>Kalwan</b>	13.9	13.1	15.5	18.6	23.1	26.7	29.4	33.9	28.5	25.2	22.6	16.9	6.4	273.8
<b>Deola</b>	14.1	13.2	15.7	18.8	23.3	26.9	29.7	34.2	28.7	25.4	22.8	17.0	6.4	276.1
<b>Surgana</b>	13.4	12.4	14.6	17.8	22.3	25.7	28.4	32.7	27.4	24.7	21.9	16.7	6.2	264.1
<b>Baglan</b>	14.2	13.3	16.0	19.0	23.6	27.3	30.0	34.7	28.8	25.5	22.8	17.0	6.4	278.5
<b>Malegaon</b>	14.6	13.7	16.8	19.8	24.4	28.3	31.1	36.0	29.6	26.0	23.2	17.2	6.6	287.4
<b>Nandgaon</b>	14.3	13.4	16.1	19.2	23.8	27.4	30.3	34.8	29.1	25.7	23.0	17.1	6.5	280.7
<b>Chandwad</b>	14.1	13.3	15.8	18.9	23.4	27.0	29.8	34.3	28.9	25.5	22.9	17.0	6.4	277.5
<b>Niphad</b>	14.4	13.7	16.3	19.3	23.7	27.4	30.2	34.7	29.6	25.7	23.3	17.1	6.6	282.1
<b>Sinnar</b>	13.6	12.8	15.0	18.1	22.6	26.1	28.8	33.1	28.0	24.9	22.3	16.8	6.3	268.4
<b>Yeola</b>	14.2	13.4	15.9	19.0	23.5	27.1	29.9	34.3	29.1	25.6	23.0	17.1	6.5	278.5

**Table No. F-42: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nashik</b>	32.5	30.4	35.4	43.3	54.2	63.0	69.6	80.3	67.1	60.5	54.0	41.5	15.2	647.0
<b>Igatpuri</b>	27.3	25.3	28.5	36.7	46.8	55.8	61.9	72.6	58.1	54.5	48.2	39.7	13.9	569.5
<b>Dindori</b>	34.0	32.0	37.6	45.4	56.5	65.3	72.2	83.0	69.9	62.2	55.8	42.1	15.7	671.7
<b>Peth</b>	32.0	29.6	34.4	42.6	53.6	62.0	68.6	79.1	65.9	60.1	53.3	41.3	15.0	637.5
<b>Trimbakeshwar</b>	29.7	27.5	31.5	39.7	50.3	58.9	65.3	75.7	62.1	57.5	50.8	40.5	14.4	603.8
<b>Kalwan</b>	34.8	32.7	38.7	46.6	57.7	66.7	73.6	84.7	71.1	63.1	56.6	42.3	15.9	684.5
<b>Deola</b>	35.1	33.1	39.3	47.0	58.2	67.3	74.2	85.4	71.8	63.4	57.0	42.5	16.0	690.3
<b>Surgana</b>	33.4	31.0	36.5	44.5	55.7	64.3	71.0	81.7	68.4	61.7	54.8	41.8	15.4	660.3
<b>Baglan</b>	35.4	33.2	39.9	47.6	59.0	68.2	75.1	86.7	72.0	63.7	56.9	42.5	16.1	696.3
<b>Malegaon</b>	36.6	34.3	42.0	49.5	61.0	70.7	77.8	90.1	74.1	64.9	58.1	42.9	16.5	718.5
<b>Nandgaon</b>	35.8	33.5	40.3	48.1	59.5	68.6	75.6	87.1	72.7	64.3	57.5	42.7	16.2	701.9
<b>Chandwad</b>	35.4	33.4	39.6	47.3	58.4	67.6	74.5	85.6	72.3	63.6	57.3	42.6	16.1	693.7
<b>Niphad</b>	36.1	34.3	40.7	48.2	59.2	68.6	75.6	86.8	73.9	64.2	58.3	42.9	16.4	705.2
<b>Sinnar</b>	34.0	32.0	37.5	45.4	56.4	65.2	72.0	82.9	69.9	62.2	55.8	42.1	15.7	671.0
<b>Yeola</b>	35.6	33.6	39.8	47.5	58.7	67.7	74.7	85.7	72.7	63.9	57.6	42.6	16.2	696.2

**Table No. F-43: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nashik	26.0	24.3	28.3	34.7	43.4	50.4	55.7	64.3	53.7	48.4	43.2	33.2	12.2	517.6
Igatpuri	21.9	20.2	22.8	29.3	37.5	44.6	49.5	58.1	46.5	43.6	38.6	31.8	11.1	455.6
Dindori	27.2	25.6	30.1	36.3	45.2	52.3	57.7	66.4	55.9	49.8	44.6	33.7	12.6	537.4
Peth	25.6	23.7	27.6	34.0	42.8	49.6	54.9	63.3	52.7	48.1	42.6	33.0	12.0	510.0
Trimbakeshwar	23.8	22.0	25.2	31.7	40.2	47.1	52.2	60.6	49.7	46.0	40.7	32.4	11.5	483.1
Kalwan	27.8	26.1	31.0	37.2	46.2	53.4	58.9	67.8	56.9	50.5	45.2	33.9	12.7	547.6
Deola	28.1	26.4	31.4	37.6	46.6	53.8	59.4	68.3	57.5	50.7	45.6	34.0	12.8	552.2
Surgana	26.7	24.8	29.2	35.6	44.6	51.4	56.8	65.4	54.7	49.4	43.9	33.4	12.3	528.3
Baglan	28.3	26.5	31.9	38.1	47.2	54.5	60.1	69.4	57.6	51.0	45.5	34.0	12.9	557.0
Malegaon	29.3	27.5	33.6	39.6	48.8	56.6	62.2	72.1	59.2	51.9	46.4	34.3	13.2	574.8
Nandgaon	28.6	26.8	32.2	38.5	47.6	54.9	60.5	69.7	58.2	51.4	46.0	34.2	13.0	561.5
Chandwad	28.3	26.7	31.7	37.8	46.7	54.0	59.6	68.5	57.9	50.9	45.9	34.1	12.9	555.0
Niphad	28.8	27.4	32.5	38.6	47.4	54.9	60.5	69.4	59.1	51.4	46.7	34.3	13.1	564.2
Sinnar	27.2	25.6	30.0	36.3	45.1	52.2	57.6	66.3	55.9	49.7	44.7	33.7	12.6	536.8
Yeola	28.5	26.9	31.8	38.0	46.9	54.2	59.8	68.6	58.2	51.1	46.1	34.1	12.9	556.9

**Table No. F-44: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nashik</b>	21.7	20.2	23.6	28.9	36.1	42.0	46.4	53.5	44.7	40.3	36.0	27.7	10.2	431.3
<b>Igatpuri</b>	18.2	16.9	19.0	24.4	31.2	37.2	41.3	48.4	38.7	36.4	32.2	26.5	9.3	379.6
<b>Dindori</b>	22.7	21.3	25.1	30.3	37.6	43.6	48.1	55.3	46.6	41.5	37.2	28.1	10.5	447.8
<b>Peth</b>	21.3	19.8	23.0	28.4	35.7	41.3	45.8	52.7	43.9	40.1	35.5	27.5	10.0	425.0
<b>Trimbakeshwar</b>	19.8	18.3	21.0	26.4	33.5	39.2	43.5	50.5	41.4	38.3	33.9	27.0	9.6	402.5
<b>Kalwan</b>	23.2	21.8	25.8	31.0	38.5	44.5	49.1	56.5	47.4	42.1	37.7	28.2	10.6	456.4
<b>Deola</b>	23.4	22.0	26.2	31.4	38.8	44.9	49.5	56.9	47.9	42.3	38.0	28.3	10.7	460.2
<b>Surgana</b>	22.3	20.7	24.3	29.7	37.1	42.8	47.4	54.5	45.6	41.1	36.6	27.9	10.3	440.2
<b>Baglan</b>	23.6	22.1	26.6	31.7	39.3	45.5	50.1	57.8	48.0	42.5	38.0	28.3	10.7	464.2
<b>Malegaon</b>	24.4	22.9	28.0	33.0	40.7	47.2	51.9	60.1	49.4	43.3	38.7	28.6	11.0	479.0
<b>Nandgaon</b>	23.9	22.3	26.8	32.1	39.6	45.7	50.4	58.1	48.5	42.9	38.4	28.5	10.8	467.9
<b>Chandwad</b>	23.6	22.2	26.4	31.5	39.0	45.0	49.7	57.1	48.2	42.4	38.2	28.4	10.7	462.5
<b>Niphad</b>	24.0	22.9	27.1	32.1	39.5	45.7	50.4	57.9	49.3	42.8	38.9	28.6	10.9	470.2
<b>Sinnar</b>	22.7	21.3	25.0	30.2	37.6	43.5	48.0	55.2	46.6	41.4	37.2	28.1	10.5	447.4
<b>Yeola</b>	23.7	22.4	26.5	31.7	39.1	45.1	49.8	57.1	48.5	42.6	38.4	28.4	10.8	464.1

**Table No. F-45: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nashik	16.2	15.2	17.7	21.7	27.1	31.5	34.8	40.2	33.5	30.2	27.0	20.8	7.6	323.5
Igatpuri	13.7	12.6	14.3	18.3	23.4	27.9	31.0	36.3	29.1	27.3	24.1	19.9	7.0	284.7
Dindori	17.0	16.0	18.8	22.7	28.2	32.7	36.1	41.5	35.0	31.1	27.9	21.0	7.8	335.8
Peth	16.0	14.8	17.2	21.3	26.8	31.0	34.3	39.6	32.9	30.0	26.6	20.6	7.5	318.7
Trimbakeshwar	14.9	13.8	15.8	19.8	25.2	29.4	32.6	37.9	31.0	28.7	25.4	20.3	7.2	301.9
Kalwan	17.4	16.3	19.4	23.3	28.9	33.4	36.8	42.3	35.6	31.5	28.3	21.2	8.0	342.3
Deola	17.6	16.5	19.6	23.5	29.1	33.6	37.1	42.7	35.9	31.7	28.5	21.2	8.0	345.1
Surgana	16.7	15.5	18.2	22.3	27.9	32.1	35.5	40.9	34.2	30.8	27.4	20.9	7.7	330.2
Baglan	17.7	16.6	19.9	23.8	29.5	34.1	37.6	43.4	36.0	31.9	28.5	21.2	8.1	348.1
Malegaon	18.3	17.2	21.0	24.8	30.5	35.4	38.9	45.1	37.0	32.5	29.0	21.4	8.3	359.2
Nandgaon	17.9	16.8	20.1	24.0	29.7	34.3	37.8	43.5	36.4	32.2	28.8	21.3	8.1	350.9
Chandwad	17.7	16.7	19.8	23.7	29.2	33.8	37.2	42.8	36.2	31.8	28.7	21.3	8.1	346.9
Niphad	18.0	17.2	20.3	24.1	29.6	34.3	37.8	43.4	37.0	32.1	29.2	21.4	8.2	352.6
Sinnar	17.0	16.0	18.8	22.7	28.2	32.6	36.0	41.4	34.9	31.1	27.9	21.0	7.8	335.5
Yeola	17.8	16.8	19.9	23.8	29.3	33.9	37.4	42.9	36.3	31.9	28.8	21.3	8.1	348.1



**Table No. F-46: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Nashik</b>	15.3	14.3	16.6	20.4	25.5	29.6	32.8	37.8	31.6	28.5	25.4	19.5	7.2	304.5
<b>Igatpuri</b>	12.9	11.9	13.4	17.2	22.0	26.2	29.1	34.2	27.3	25.7	22.7	18.7	6.5	268.0
<b>Dindori</b>	16.0	15.0	17.7	21.4	26.6	30.7	34.0	39.1	32.9	29.3	26.3	19.8	7.4	316.1
<b>Peth</b>	15.0	13.9	16.2	20.0	25.2	29.2	32.3	37.2	31.0	28.3	25.1	19.4	7.1	300.0
<b>Trimbakeshwar</b>	14.0	12.9	14.8	18.7	23.7	27.7	30.7	35.6	29.2	27.0	23.9	19.1	6.8	284.2
<b>Kalwan</b>	16.4	15.4	18.2	21.9	27.2	31.4	34.6	39.9	33.5	29.7	26.6	19.9	7.5	322.1
<b>Deola</b>	16.5	15.6	18.5	22.1	27.4	31.7	34.9	40.2	33.8	29.8	26.8	20.0	7.5	324.8
<b>Surgana</b>	15.7	14.6	17.2	21.0	26.2	30.2	33.4	38.5	32.2	29.0	25.8	19.7	7.2	310.7
<b>Baglan</b>	16.7	15.6	18.8	22.4	27.7	32.1	35.3	40.8	33.9	30.0	26.8	20.0	7.6	327.7
<b>Malegaon</b>	17.2	16.2	19.7	23.3	28.7	33.3	36.6	42.4	34.8	30.6	27.3	20.2	7.8	338.1
<b>Nandgaon</b>	16.8	15.8	18.9	22.6	28.0	32.3	35.6	41.0	34.2	30.3	27.1	20.1	7.6	330.3
<b>Chandwad</b>	16.6	15.7	18.6	22.3	27.5	31.8	35.1	40.3	34.0	29.9	27.0	20.0	7.6	326.5
<b>Niphad</b>	17.0	16.1	19.1	22.7	27.9	32.3	35.6	40.8	34.8	30.2	27.5	20.2	7.7	331.9
<b>Sinnar</b>	16.0	15.0	17.7	21.4	26.5	30.7	33.9	39.0	32.9	29.3	26.3	19.8	7.4	315.8
<b>Yeola</b>	16.7	15.8	18.7	22.4	27.6	31.9	35.2	40.3	34.2	30.1	27.1	20.1	7.6	327.6

**Table No. F-47: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nashik	14.4	13.5	15.7	19.3	24.1	28.0	30.9	35.7	29.8	26.9	24.0	18.5	6.8	287.6
Igatpuri	12.1	11.2	12.7	16.3	20.8	24.8	27.5	32.3	25.8	24.2	21.4	17.7	6.2	253.1
Dindori	15.1	14.2	16.7	20.2	25.1	29.0	32.1	36.9	31.1	27.7	24.8	18.7	7.0	298.5
Peth	14.2	13.2	15.3	18.9	23.8	27.6	30.5	35.2	29.3	26.7	23.7	18.3	6.7	283.3
Trimbakeshwar	13.2	12.2	14.0	17.6	22.4	26.2	29.0	33.6	27.6	25.5	22.6	18.0	6.4	268.4
Kalwan	15.5	14.5	17.2	20.7	25.7	29.6	32.7	37.6	31.6	28.0	25.1	18.8	7.1	304.2
Deola	15.6	14.7	17.5	20.9	25.9	29.9	33.0	37.9	31.9	28.2	25.3	18.9	7.1	306.8
Surgana	14.8	13.8	16.2	19.8	24.8	28.6	31.6	36.3	30.4	27.4	24.4	18.6	6.8	293.5
Baglan	15.7	14.7	17.7	21.2	26.2	30.3	33.4	38.6	32.0	28.3	25.3	18.9	7.2	309.5
Malegaon	16.3	15.3	18.7	22.0	27.1	31.4	34.6	40.0	32.9	28.9	25.8	19.1	7.3	319.3
Nandgaon	15.9	14.9	17.9	21.4	26.4	30.5	33.6	38.7	32.3	28.6	25.6	19.0	7.2	311.9
Chandwad	15.7	14.8	17.6	21.0	26.0	30.0	33.1	38.1	32.2	28.3	25.5	18.9	7.2	308.3
Niphad	16.0	15.2	18.1	21.4	26.3	30.5	33.6	38.6	32.9	28.5	25.9	19.1	7.3	313.4
Sinnar	15.1	14.2	16.7	20.2	25.1	29.0	32.0	36.8	31.1	27.6	24.8	18.7	7.0	298.2
Yeola	15.8	14.9	17.7	21.1	26.1	30.1	33.2	38.1	32.3	28.4	25.6	19.0	7.2	309.4

**Table No. F-48: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Nashik District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Nashik	13.7	12.8	14.9	18.2	22.8	26.5	29.3	33.8	28.2	25.5	22.7	17.5	6.4	272.4
Igatpuri	11.5	10.7	12.0	15.4	19.7	23.5	26.1	30.6	24.5	23.0	20.3	16.7	5.9	239.8
Dindori	14.3	13.5	15.8	19.1	23.8	27.5	30.4	35.0	29.4	26.2	23.5	17.7	6.6	282.8
Peth	13.5	12.5	14.5	17.9	22.5	26.1	28.9	33.3	27.7	25.3	22.4	17.4	6.3	268.4
Trimbakeshwar	12.5	11.6	13.3	16.7	21.2	24.8	27.5	31.9	26.1	24.2	21.4	17.1	6.1	254.2
Kalwan	14.7	13.8	16.3	19.6	24.3	28.1	31.0	35.7	30.0	26.6	23.8	17.8	6.7	288.2
Deola	14.8	13.9	16.5	19.8	24.5	28.3	31.2	35.9	30.2	26.7	24.0	17.9	6.8	290.7
Surgana	14.1	13.1	15.4	18.7	23.5	27.1	29.9	34.4	28.8	26.0	23.1	17.6	6.5	278.0
Baglan	14.9	14.0	16.8	20.0	24.8	28.7	31.6	36.5	30.3	26.8	24.0	17.9	6.8	293.2
Malegaon	15.4	14.5	17.7	20.9	25.7	29.8	32.7	37.9	31.2	27.3	24.4	18.1	7.0	302.5
Nandgaon	15.1	14.1	17.0	20.3	25.0	28.9	31.9	36.7	30.6	27.1	24.2	18.0	6.8	295.5
Chandwad	14.9	14.0	16.7	19.9	24.6	28.4	31.4	36.1	30.5	26.8	24.1	17.9	6.8	292.1
Niphad	15.2	14.4	17.1	20.3	24.9	28.9	31.8	36.5	31.1	27.0	24.6	18.1	6.9	296.9
Sinnar	14.3	13.5	15.8	19.1	23.7	27.5	30.3	34.9	29.4	26.2	23.5	17.7	6.6	282.5
Yeola	15.0	14.1	16.7	20.0	24.7	28.5	31.5	36.1	30.6	26.9	24.3	18.0	6.8	293.1

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Pune District**

**Table No. F-49: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Pune City</b>	11.6	10.0	10.9	14.5	19.3	21.5	23.9	27.2	23.0	22.3	19.4	16.0	5.3	225.0
<b>Haveli</b>	11.6	10.0	11.0	14.5	19.3	21.5	23.9	27.3	23.1	22.3	19.4	16.0	5.3	225.3
<b>Khed</b>	11.8	10.3	11.4	15.0	19.7	22.1	24.5	27.9	23.7	22.8	19.7	16.0	5.4	230.4
<b>Junnar</b>	12.2	11.0	12.4	15.9	20.5	23.2	25.8	29.4	24.8	23.5	20.4	16.2	5.6	240.8
<b>Ambegaon</b>	11.9	10.5	11.8	15.3	20.0	22.5	25.0	28.4	24.1	23.1	19.9	16.0	5.5	234.0
<b>Vadgaon Maval</b>	11.6	10.0	11.0	14.6	19.3	21.5	23.9	27.2	23.0	22.2	19.3	15.9	5.2	224.8
<b>Mulshi</b>	11.4	9.9	10.8	14.3	18.9	21.4	23.6	26.9	23.0	22.4	19.0	15.5	5.2	222.3
<b>Shirur</b>	13.1	11.8	13.6	17.3	22.2	24.5	27.4	31.1	26.4	25.0	21.8	16.8	5.9	257.0
<b>Purandar</b>	12.2	10.7	12.0	15.7	20.5	22.6	25.3	28.5	24.4	23.8	20.4	16.4	5.5	238.0
<b>Velhe</b>	11.6	10.1	11.1	14.7	19.3	21.7	24.1	27.3	23.4	22.8	19.4	15.7	5.3	226.4
<b>Bhor</b>	11.8	10.3	11.5	15.2	19.9	22.2	24.7	27.8	24.0	23.5	19.8	16.0	5.4	232.0
<b>Baramati</b>	13.5	11.9	13.8	18.0	23.0	24.8	28.2	31.2	26.9	26.6	22.7	17.4	5.9	264.0
<b>Indapur</b>	14.7	12.8	15.2	20.1	25.4	26.9	31.2	33.7	29.3	29.7	25.0	18.2	6.2	288.5
<b>Daund</b>	13.3	11.8	13.6	17.6	22.5	24.5	27.7	31.0	26.5	25.9	22.2	17.1	5.8	259.6

**Table No. F-50: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Pune City</b>	29.0	25.0	27.3	36.3	48.3	53.8	59.7	68.1	57.6	55.8	48.5	40.1	13.2	562.6
<b>Haveli</b>	29.0	25.0	27.4	36.4	48.3	53.8	59.8	68.1	57.7	55.8	48.5	40.1	13.2	563.1
<b>Khed</b>	29.5	25.8	28.6	37.5	49.3	55.2	61.3	69.7	59.2	57.1	49.3	40.0	13.4	576.1
<b>Junnar</b>	30.5	27.4	31.0	39.7	51.2	58.0	64.4	73.6	62.1	58.6	51.0	40.4	14.1	601.9
<b>Ambegaon</b>	29.9	26.4	29.5	38.3	49.9	56.3	62.4	71.1	60.3	57.7	49.8	40.0	13.6	585.0
<b>Vadgaon Maval</b>	29.0	25.1	27.4	36.4	48.3	53.8	59.7	68.0	57.5	55.6	48.3	39.8	13.1	562.0
<b>Mulshi</b>	28.4	24.7	27.1	35.8	47.4	53.5	59.1	67.1	57.5	55.9	47.4	38.8	13.0	555.7
<b>Shirur</b>	32.8	29.5	33.9	43.4	55.4	61.2	68.5	77.9	66.0	62.6	54.5	42.1	14.6	642.4
<b>Purandar</b>	30.5	26.7	29.9	39.2	51.3	56.5	63.2	71.4	61.0	59.5	51.1	41.1	13.7	595.0
<b>Velhe</b>	28.9	25.2	27.8	36.7	48.4	54.3	60.2	68.2	58.5	57.0	48.4	39.3	13.2	565.9
<b>Bhor</b>	29.6	25.8	28.9	37.9	49.7	55.4	61.7	69.5	59.9	58.7	49.6	39.9	13.4	580.0
<b>Baramati</b>	33.7	29.8	34.6	44.9	57.6	62.0	70.4	78.1	67.4	66.6	56.8	43.5	14.7	660.0
<b>Indapur</b>	36.8	32.1	38.0	50.3	63.6	67.3	78.1	84.2	73.2	74.1	62.6	45.4	15.5	721.3
<b>Daund</b>	33.2	29.4	34.0	43.9	56.4	61.3	69.3	77.5	66.4	64.7	55.6	42.8	14.6	649.0

**Table No. F-51: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Pune City	23.2	20.0	21.9	29.1	38.6	43.0	47.8	54.5	46.1	44.6	38.8	32.0	10.6	450.0
Haveli	23.2	20.0	21.9	29.1	38.7	43.0	47.8	54.5	46.1	44.7	38.8	32.0	10.6	450.5
Khed	23.6	20.7	22.9	30.0	39.5	44.2	49.1	55.8	47.4	45.7	39.4	32.0	10.7	460.9
Junnar	24.4	21.9	24.8	31.7	40.9	46.4	51.5	58.9	49.6	46.9	40.8	32.4	11.2	481.5
Ambegaon	23.9	21.1	23.6	30.6	39.9	45.0	49.9	56.9	48.2	46.1	39.8	32.0	10.9	468.0
Vadgaon Maval	23.2	20.1	21.9	29.1	38.7	43.0	47.8	54.4	46.0	44.5	38.6	31.9	10.5	449.6
Mulshi	22.8	19.8	21.7	28.6	37.9	42.8	47.3	53.7	46.0	44.7	37.9	31.0	10.4	444.6
Shirur	26.3	23.6	27.1	34.7	44.4	49.0	54.8	62.3	52.8	50.1	43.6	33.7	11.7	513.9
Purandar	24.4	21.3	24.0	31.4	41.0	45.2	50.6	57.1	48.8	47.6	40.9	32.8	10.9	476.0
Velhe	23.1	20.1	22.2	29.3	38.7	43.4	48.2	54.5	46.8	45.6	38.7	31.5	10.6	452.7
Bhor	23.7	20.7	23.1	30.3	39.8	44.3	49.3	55.6	47.9	47.0	39.7	31.9	10.7	464.0
Baramati	27.0	23.8	27.7	36.0	46.1	49.6	56.3	62.5	53.9	53.2	45.5	34.8	11.7	528.0
Indapur	29.4	25.7	30.4	40.3	50.9	53.9	62.5	67.3	58.5	59.3	50.1	36.3	12.4	577.0
Daund	26.5	23.5	27.2	35.2	45.1	49.1	55.4	62.0	53.1	51.7	44.4	34.2	11.7	519.2

**Table No. F-52: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Pune City</b>	19.3	16.7	18.2	24.2	32.2	35.8	39.8	45.4	38.4	37.2	32.3	26.7	8.8	375.0
<b>Haveli</b>	19.3	16.7	18.3	24.2	32.2	35.9	39.9	45.4	38.5	37.2	32.4	26.7	8.8	375.4
<b>Khed</b>	19.7	17.2	19.1	25.0	32.9	36.8	40.9	46.5	39.5	38.1	32.8	26.6	8.9	384.1
<b>Junnar</b>	20.4	18.3	20.7	26.5	34.1	38.7	42.9	49.1	41.4	39.1	34.0	27.0	9.4	401.3
<b>Ambegaon</b>	19.9	17.6	19.6	25.5	33.3	37.5	41.6	47.4	40.2	38.4	33.2	26.7	9.1	390.0
<b>Vadgaon Maval</b>	19.4	16.7	18.3	24.3	32.2	35.8	39.8	45.3	38.4	37.1	32.2	26.6	8.7	374.7
<b>Mulshi</b>	19.0	16.5	18.0	23.9	31.6	35.7	39.4	44.8	38.3	37.3	31.6	25.9	8.7	370.5
<b>Shirur</b>	21.9	19.7	22.6	28.9	37.0	40.8	45.6	51.9	44.0	41.7	36.3	28.0	9.8	428.3
<b>Purandar</b>	20.3	17.8	20.0	26.1	34.2	37.7	42.1	47.6	40.6	39.6	34.1	27.4	9.1	396.6
<b>Velhe</b>	19.3	16.8	18.5	24.4	32.2	36.2	40.1	45.5	39.0	38.0	32.3	26.2	8.8	377.3
<b>Bhor</b>	19.7	17.2	19.2	25.3	33.1	37.0	41.1	46.4	39.9	39.1	33.1	26.6	8.9	386.7
<b>Baramati</b>	22.5	19.9	23.1	30.0	38.4	41.3	47.0	52.0	44.9	44.4	37.9	29.0	9.8	440.0
<b>Indapur</b>	24.5	21.4	25.3	33.6	42.4	44.9	52.1	56.1	48.8	49.4	41.7	30.3	10.4	480.9
<b>Daund</b>	22.1	19.6	22.6	29.3	37.6	40.9	46.2	51.7	44.2	43.1	37.0	28.5	9.7	432.6

**Table No. F-53: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Pune City	14.5	12.5	13.7	18.2	24.1	26.9	29.9	34.0	28.8	27.9	24.3	20.0	6.6	281.3
Haveli	14.5	12.5	13.7	18.2	24.2	26.9	29.9	34.1	28.8	27.9	24.3	20.0	6.6	281.6
Khed	14.8	12.9	14.3	18.8	24.7	27.6	30.7	34.9	29.6	28.6	24.6	20.0	6.7	288.0
Junnar	15.3	13.7	15.5	19.8	25.6	29.0	32.2	36.8	31.0	29.3	25.5	20.2	7.0	301.0
Ambegaon	14.9	13.2	14.7	19.1	25.0	28.1	31.2	35.5	30.1	28.8	24.9	20.0	6.8	292.5
Vadgaon Maval	14.5	12.5	13.7	18.2	24.2	26.9	29.8	34.0	28.8	27.8	24.2	19.9	6.6	281.0
Mulshi	14.2	12.4	13.5	17.9	23.7	26.8	29.6	33.6	28.8	27.9	23.7	19.4	6.5	277.9
Shirur	16.4	14.8	17.0	21.7	27.7	30.6	34.2	38.9	33.0	31.3	27.2	21.0	7.3	321.2
Purandar	15.2	13.3	15.0	19.6	25.7	28.3	31.6	35.7	30.5	29.7	25.5	20.5	6.8	297.5
Velhe	14.5	12.6	13.9	18.3	24.2	27.1	30.1	34.1	29.2	28.5	24.2	19.7	6.6	282.9
Bhor	14.8	12.9	14.4	18.9	24.9	27.7	30.8	34.8	29.9	29.4	24.8	19.9	6.7	290.0
Baramati	16.9	14.9	17.3	22.5	28.8	31.0	35.2	39.0	33.7	33.3	28.4	21.8	7.3	330.0
Indapur	18.4	16.1	19.0	25.2	31.8	33.7	39.1	42.1	36.6	37.1	31.3	22.7	7.8	360.6
Daund	16.6	14.7	17.0	22.0	28.2	30.7	34.6	38.8	33.2	32.3	27.8	21.4	7.3	324.5



**Table No. F-54: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Pune City</b>	13.6	11.8	12.9	17.1	22.7	25.3	28.1	32.0	27.1	26.2	22.8	18.9	6.2	264.7
<b>Haveli</b>	13.6	11.8	12.9	17.1	22.8	25.3	28.1	32.1	27.1	26.3	22.8	18.9	6.2	265.0
<b>Khed</b>	13.9	12.1	13.5	17.7	23.2	26.0	28.9	32.8	27.9	26.9	23.2	18.8	6.3	271.1
<b>Junnar</b>	14.4	12.9	14.6	18.7	24.1	27.3	30.3	34.6	29.2	27.6	24.0	19.0	6.6	283.3
<b>Ambegaon</b>	14.0	12.4	13.9	18.0	23.5	26.5	29.4	33.4	28.4	27.1	23.4	18.8	6.4	275.3
<b>Vadgaon Maval</b>	13.7	11.8	12.9	17.1	22.7	25.3	28.1	32.0	27.1	26.2	22.7	18.8	6.2	264.5
<b>Mulshi</b>	13.4	11.6	12.7	16.8	22.3	25.2	27.8	31.6	27.1	26.3	22.3	18.3	6.1	261.5
<b>Shirur</b>	15.5	13.9	16.0	20.4	26.1	28.8	32.2	36.6	31.0	29.5	25.6	19.8	6.9	302.3
<b>Purandar</b>	14.4	12.5	14.1	18.4	24.1	26.6	29.7	33.6	28.7	28.0	24.0	19.3	6.4	280.0
<b>Velhe</b>	13.6	11.8	13.1	17.2	22.8	25.5	28.3	32.1	27.5	26.8	22.8	18.5	6.2	266.3
<b>Bhor</b>	13.9	12.2	13.6	17.8	23.4	26.1	29.0	32.7	28.2	27.6	23.3	18.8	6.3	272.9
<b>Baramati</b>	15.9	14.0	16.3	21.1	27.1	29.2	33.1	36.7	31.7	31.3	26.7	20.5	6.9	310.6
<b>Indapur</b>	17.3	15.1	17.9	23.7	29.9	31.7	36.8	39.6	34.4	34.9	29.4	21.4	7.3	339.4
<b>Daund</b>	15.6	13.8	16.0	20.7	26.5	28.9	32.6	36.5	31.2	30.4	26.1	20.1	6.9	305.4

**Table No. F-55: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Pune City	12.9	11.1	12.1	16.1	21.5	23.9	26.5	30.3	25.6	24.8	21.6	17.8	5.9	250.0
Haveli	12.9	11.1	12.2	16.2	21.5	23.9	26.6	30.3	25.6	24.8	21.6	17.8	5.9	250.3
Khed	13.1	11.5	12.7	16.7	21.9	24.5	27.3	31.0	26.3	25.4	21.9	17.8	6.0	256.0
Junnar	13.6	12.2	13.8	17.6	22.7	25.8	28.6	32.7	27.6	26.1	22.6	18.0	6.2	267.5
Ambegaon	13.3	11.7	13.1	17.0	22.2	25.0	27.7	31.6	26.8	25.6	22.1	17.8	6.1	260.0
Vadgaon Maval	12.9	11.1	12.2	16.2	21.5	23.9	26.5	30.2	25.6	24.7	21.5	17.7	5.8	249.8
Mulshi	12.6	11.0	12.0	15.9	21.1	23.8	26.3	29.8	25.6	24.8	21.1	17.2	5.8	247.0
Shirur	14.6	13.1	15.1	19.3	24.6	27.2	30.4	34.6	29.3	27.8	24.2	18.7	6.5	285.5
Purandar	13.6	11.8	13.3	17.4	22.8	25.1	28.1	31.7	27.1	26.4	22.7	18.2	6.1	264.4
Velhe	12.8	11.2	12.3	16.3	21.5	24.1	26.8	30.3	26.0	25.3	21.5	17.5	5.9	251.5
Bhor	13.1	11.5	12.8	16.8	22.1	24.6	27.4	30.9	26.6	26.1	22.0	17.7	6.0	257.8
Baramati	15.0	13.2	15.4	20.0	25.6	27.5	31.3	34.7	29.9	29.6	25.3	19.3	6.5	293.3
Indapur	16.4	14.3	16.9	22.4	28.3	29.9	34.7	37.4	32.5	33.0	27.8	20.2	6.9	320.6
Daund	14.7	13.1	15.1	19.5	25.0	27.3	30.8	34.5	29.5	28.7	24.7	19.0	6.5	288.4

**Table No. F-56: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Pune District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Pune City	12.2	10.5	11.5	15.3	20.3	22.6	25.1	28.7	24.3	23.5	20.4	16.9	5.6	236.9
Haveli	12.2	10.5	11.5	15.3	20.4	22.7	25.2	28.7	24.3	23.5	20.4	16.9	5.6	237.1
Khed	12.4	10.9	12.0	15.8	20.8	23.2	25.8	29.3	24.9	24.1	20.7	16.8	5.6	242.6
Junnar	12.9	11.5	13.1	16.7	21.5	24.4	27.1	31.0	26.1	24.7	21.5	17.0	5.9	253.4
Ambegaon	12.6	11.1	12.4	16.1	21.0	23.7	26.3	29.9	25.4	24.3	20.9	16.8	5.7	246.3
Vadgaon Maval	12.2	10.6	11.5	15.3	20.4	22.6	25.1	28.6	24.2	23.4	20.3	16.8	5.5	236.6
Mulshi	12.0	10.4	11.4	15.1	19.9	22.5	24.9	28.3	24.2	23.5	20.0	16.3	5.5	234.0
Shirur	13.8	12.4	14.3	18.3	23.3	25.8	28.8	32.8	27.8	26.4	22.9	17.7	6.2	270.5
Purandar	12.8	11.2	12.6	16.5	21.6	23.8	26.6	30.0	25.7	25.0	21.5	17.3	5.8	250.5
Velhe	12.2	10.6	11.7	15.4	20.4	22.9	25.3	28.7	24.6	24.0	20.4	16.6	5.6	238.3
Bhor	12.5	10.9	12.2	15.9	20.9	23.3	26.0	29.3	25.2	24.7	20.9	16.8	5.6	244.2
Baramati	14.2	12.5	14.6	18.9	24.2	26.1	29.7	32.9	28.4	28.0	23.9	18.3	6.2	277.9
Indapur	15.5	13.5	16.0	21.2	26.8	28.3	32.9	35.4	30.8	31.2	26.3	19.1	6.5	303.7
Daund	14.0	12.4	14.3	18.5	23.7	25.8	29.2	32.6	27.9	27.2	23.4	18.0	6.1	273.2

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Sangli District**

**Table No. F-57: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Miraj</b>	12.7	11.6	13.1	17.4	21.8	23.5	26.9	30.2	26.7	25.8	22.2	16.8	5.6	254.2
<b>Kavathe Mahakal</b>	13.1	11.8	13.5	18.0	22.7	24.3	27.9	30.9	27.1	26.7	22.9	17.1	5.8	261.7
<b>Tasgaon</b>	12.7	11.7	13.1	17.5	21.9	23.6	26.9	30.2	26.7	25.8	22.3	16.9	5.7	255.1
<b>Jath</b>	14.2	12.5	14.7	19.7	24.7	26.2	30.4	32.9	28.8	29.1	24.6	17.8	6.1	281.7
<b>Walwa</b>	12.6	11.6	13.1	17.4	21.8	23.5	26.9	30.2	26.6	25.8	22.2	16.9	5.7	254.3
<b>Shirala</b>	12.5	11.5	13.0	17.2	21.8	23.5	26.8	30.0	26.3	25.7	22.2	16.8	5.7	253.0
<b>Vita</b>	12.9	11.7	13.4	17.6	22.3	24.0	27.4	30.5	26.8	26.2	22.6	17.2	5.8	258.4
<b>Atpadi</b>	14.5	12.7	15.0	20.0	25.2	26.6	31.0	33.3	29.2	29.7	25.0	18.1	6.2	286.5
<b>Palus</b>	12.7	11.6	13.2	17.4	21.9	23.6	27.0	30.2	26.6	25.9	22.3	17.0	5.7	255.2
<b>Kadegaon</b>	12.8	11.7	13.5	17.4	22.3	23.8	27.1	30.3	26.6	26.0	22.4	17.5	5.8	257.2

**Table No. F-58: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Miraj</b>	31.7	29.0	32.7	43.6	54.5	58.8	67.1	75.4	66.6	64.4	55.6	42.0	14.1	635.6
<b>Kavathe Mahakal</b>	32.7	29.5	33.7	45.0	56.6	60.8	69.7	77.3	67.8	66.8	57.2	42.7	14.4	654.3
<b>Tasgaon</b>	31.8	29.1	32.8	43.7	54.7	59.0	67.3	75.6	66.8	64.6	55.7	42.2	14.2	637.7
<b>Jath</b>	35.5	31.2	36.6	49.2	61.9	65.5	76.1	82.2	71.9	72.8	61.6	44.6	15.2	704.3
<b>Walwa</b>	31.6	29.0	32.8	43.5	54.6	58.9	67.1	75.4	66.4	64.4	55.6	42.2	14.2	635.7
<b>Shirala</b>	31.3	28.8	32.5	43.0	54.5	58.8	66.9	75.0	65.8	64.3	55.4	42.0	14.2	632.4
<b>Vita</b>	32.2	29.3	33.5	44.1	55.9	60.0	68.5	76.3	66.9	65.6	56.4	42.9	14.4	646.0
<b>Atpadi</b>	36.3	31.8	37.4	50.1	63.1	66.6	77.5	83.4	72.9	74.2	62.6	45.2	15.4	716.4
<b>Palus</b>	31.8	29.1	32.9	43.6	54.9	59.1	67.4	75.6	66.6	64.7	55.8	42.4	14.3	638.1
<b>Kadegaon</b>	31.9	29.3	33.7	43.6	55.7	59.4	67.8	75.8	66.5	65.0	56.1	43.6	14.6	643.0

**Table No. F-59: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Miraj	25.3	23.2	26.1	34.9	43.6	47.1	53.7	60.4	53.3	51.5	44.5	33.6	11.3	508.5
Kavathe Mahakal	26.2	23.6	27.0	36.0	45.3	48.6	55.8	61.8	54.3	53.4	45.8	34.2	11.5	523.5
Tasgaon	25.4	23.3	26.3	35.0	43.7	47.2	53.9	60.5	53.5	51.7	44.6	33.8	11.3	510.2
Jath	28.4	25.0	29.3	39.3	49.5	52.4	60.9	65.8	57.5	58.2	49.3	35.7	12.1	563.4
Walwa	25.3	23.2	26.2	34.8	43.7	47.1	53.7	60.3	53.2	51.5	44.5	33.8	11.3	508.5
Shirala	25.1	23.0	26.0	34.4	43.6	47.0	53.5	60.0	52.6	51.4	44.3	33.6	11.3	505.9
Vita	25.8	23.4	26.8	35.3	44.7	48.0	54.8	61.0	53.5	52.5	45.1	34.3	11.5	516.8
Atpadi	29.0	25.4	30.0	40.1	50.5	53.2	62.0	66.7	58.3	59.3	50.1	36.2	12.3	573.1
Palus	25.4	23.3	26.4	34.9	43.9	47.3	53.9	60.5	53.3	51.7	44.6	33.9	11.4	510.4
Kadegaon	25.5	23.5	26.9	34.9	44.5	47.5	54.2	60.6	53.2	52.0	44.9	34.9	11.7	514.4

**Table No. F-60: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Miraj</b>	21.1	19.3	21.8	29.1	36.3	39.2	44.8	50.3	44.4	42.9	37.1	28.0	9.4	423.7
<b>Kavathe Mahakal</b>	21.8	19.7	22.5	30.0	37.8	40.5	46.5	51.5	45.2	44.5	38.2	28.5	9.6	436.2
<b>Tasgaon</b>	21.2	19.4	21.9	29.2	36.5	39.3	44.9	50.4	44.6	43.1	37.2	28.2	9.5	425.2
<b>Jath</b>	23.7	20.8	24.4	32.8	41.2	43.7	50.7	54.8	47.9	48.5	41.1	29.7	10.1	469.5
<b>Walwa</b>	21.1	19.3	21.8	29.0	36.4	39.2	44.8	50.3	44.3	42.9	37.1	28.1	9.5	423.8
<b>Shirala</b>	20.9	19.2	21.7	28.7	36.3	39.2	44.6	50.0	43.9	42.8	36.9	28.0	9.4	421.6
<b>Vita</b>	21.5	19.5	22.3	29.4	37.2	40.0	45.7	50.9	44.6	43.7	37.6	28.6	9.6	430.7
<b>Atpadi</b>	24.2	21.2	25.0	33.4	42.1	44.4	51.7	55.6	48.6	49.4	41.7	30.1	10.3	477.6
<b>Palus</b>	21.2	19.4	22.0	29.1	36.6	39.4	44.9	50.4	44.4	43.1	37.2	28.3	9.5	425.4
<b>Kadegaon</b>	21.3	19.6	22.4	29.1	37.1	39.6	45.2	50.5	44.3	43.3	37.4	29.1	9.7	428.6

**Table No. F-61: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Miraj</b>	15.8	14.5	16.3	21.8	27.2	29.4	33.6	37.7	33.3	32.2	27.8	21.0	7.1	317.8
<b>Kavathe Mahakal</b>	16.4	14.8	16.9	22.5	28.3	30.4	34.9	38.6	33.9	33.4	28.6	21.4	7.2	327.2
<b>Tasgaon</b>	15.9	14.6	16.4	21.9	27.3	29.5	33.7	37.8	33.4	32.3	27.9	21.1	7.1	318.9
<b>Jath</b>	17.8	15.6	18.3	24.6	30.9	32.7	38.0	41.1	36.0	36.4	30.8	22.3	7.6	352.1
<b>Walwa</b>	15.8	14.5	16.4	21.7	27.3	29.4	33.6	37.7	33.2	32.2	27.8	21.1	7.1	317.8
<b>Shirala</b>	15.7	14.4	16.3	21.5	27.2	29.4	33.5	37.5	32.9	32.1	27.7	21.0	7.1	316.2
<b>Vita</b>	16.1	14.6	16.7	22.1	27.9	30.0	34.2	38.2	33.5	32.8	28.2	21.5	7.2	323.0
<b>Atpadi</b>	18.1	15.9	18.7	25.0	31.5	33.3	38.7	41.7	36.5	37.1	31.3	22.6	7.7	358.2
<b>Palus</b>	15.9	14.6	16.5	21.8	27.4	29.5	33.7	37.8	33.3	32.3	27.9	21.2	7.1	319.0
<b>Kadegaon</b>	15.9	14.7	16.8	21.8	27.8	29.7	33.9	37.9	33.3	32.5	28.1	21.8	7.3	321.5



**Table No. F-62: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Miraj</b>	14.9	13.6	15.4	20.5	25.6	27.7	31.6	35.5	31.4	30.3	26.2	19.8	6.6	299.1
<b>Kavathe Mahakal</b>	15.4	13.9	15.9	21.2	26.6	28.6	32.8	36.4	31.9	31.4	26.9	20.1	6.8	307.9
<b>Tasgaon</b>	15.0	13.7	15.5	20.6	25.7	27.8	31.7	35.6	31.5	30.4	26.2	19.9	6.7	300.1
<b>Jath</b>	16.7	14.7	17.2	23.1	29.1	30.8	35.8	38.7	33.8	34.3	29.0	21.0	7.1	331.4
<b>Walwa</b>	14.9	13.7	15.4	20.5	25.7	27.7	31.6	35.5	31.3	30.3	26.2	19.9	6.7	299.1
<b>Shirala</b>	14.7	13.5	15.3	20.2	25.6	27.7	31.5	35.3	31.0	30.2	26.1	19.8	6.7	297.6
<b>Vita</b>	15.2	13.8	15.8	20.8	26.3	28.2	32.2	35.9	31.5	30.9	26.5	20.2	6.8	304.0
<b>Atpadi</b>	17.1	15.0	17.6	23.6	29.7	31.3	36.5	39.2	34.3	34.9	29.5	21.3	7.2	337.1
<b>Palus</b>	14.9	13.7	15.5	20.5	25.8	27.8	31.7	35.6	31.3	30.4	26.2	20.0	6.7	300.3
<b>Kadegaon</b>	15.0	13.8	15.8	20.5	26.2	28.0	31.9	35.7	31.3	30.6	26.4	20.5	6.9	302.6

**Table No. F-63: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Miraj</b>	14.1	12.9	14.5	19.4	24.2	26.1	29.8	33.5	29.6	28.6	24.7	18.7	6.3	282.5
<b>Kavathe Mahakal</b>	14.5	13.1	15.0	20.0	25.2	27.0	31.0	34.3	30.1	29.7	25.4	19.0	6.4	290.8
<b>Tasgaon</b>	14.1	13.0	14.6	19.4	24.3	26.2	29.9	33.6	29.7	28.7	24.8	18.8	6.3	283.4
<b>Jath</b>	15.8	13.9	16.3	21.8	27.5	29.1	33.8	36.5	32.0	32.4	27.4	19.8	6.7	313.0
<b>Walwa</b>	14.0	12.9	14.6	19.3	24.3	26.2	29.8	33.5	29.5	28.6	24.7	18.8	6.3	282.5
<b>Shirala</b>	13.9	12.8	14.5	19.1	24.2	26.1	29.7	33.3	29.2	28.6	24.6	18.7	6.3	281.1
<b>Vita</b>	14.3	13.0	14.9	19.6	24.8	26.6	30.4	33.9	29.7	29.2	25.1	19.1	6.4	287.1
<b>Atpadi</b>	16.1	14.1	16.6	22.3	28.0	29.6	34.4	37.1	32.4	33.0	27.8	20.1	6.8	318.4
<b>Palus</b>	14.1	12.9	14.6	19.4	24.4	26.3	30.0	33.6	29.6	28.7	24.8	18.9	6.3	283.6
<b>Kadegaon</b>	14.2	13.0	15.0	19.4	24.7	26.4	30.1	33.7	29.6	28.9	24.9	19.4	6.5	285.8

**Table No. F-64: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Sangli District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Miraj</b>	13.3	12.2	13.7	18.4	22.9	24.8	28.3	31.8	28.1	27.1	23.4	17.7	5.9	267.6
<b>Kavathe Mahakal</b>	13.8	12.4	14.2	19.0	23.8	25.6	29.4	32.5	28.6	28.1	24.1	18.0	6.1	275.5
<b>Tasgaon</b>	13.4	12.3	13.8	18.4	23.0	24.8	28.3	31.8	28.1	27.2	23.5	17.8	6.0	268.5
<b>Jath</b>	15.0	13.2	15.4	20.7	26.0	27.6	32.0	34.6	30.3	30.7	25.9	18.8	6.4	296.5
<b>Walwa</b>	13.3	12.2	13.8	18.3	23.0	24.8	28.3	31.7	28.0	27.1	23.4	17.8	6.0	267.6
<b>Shirala</b>	13.2	12.1	13.7	18.1	22.9	24.7	28.2	31.6	27.7	27.1	23.3	17.7	6.0	266.3
<b>Vita</b>	13.6	12.3	14.1	18.6	23.5	25.2	28.8	32.1	28.2	27.6	23.7	18.1	6.1	272.0
<b>Atpadi</b>	15.3	13.4	15.8	21.1	26.6	28.0	32.6	35.1	30.7	31.2	26.4	19.0	6.5	301.6
<b>Palus</b>	13.4	12.3	13.9	18.4	23.1	24.9	28.4	31.8	28.0	27.2	23.5	17.9	6.0	268.7
<b>Kadegaon</b>	13.4	12.4	14.2	18.4	23.4	25.0	28.5	31.9	28.0	27.4	23.6	18.4	6.1	270.7

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Satara District**

**Table No. F-65: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Satara</b>	12.5	11.1	12.6	16.5	21.3	23.2	26.2	29.3	25.4	25.0	21.3	16.7	5.6	246.6
<b>Jaoli</b>	10.5	9.1	9.7	13.0	17.5	20.3	22.2	25.1	21.9	21.6	17.6	14.5	5.0	208.0
<b>Koregaon</b>	12.8	11.4	13.1	17.1	22.0	23.8	26.9	30.0	26.0	25.7	21.9	17.0	5.7	253.6
<b>Wai</b>	11.7	10.3	11.5	15.1	19.8	22.1	24.5	27.6	23.9	23.5	19.7	15.8	5.3	230.8
<b>Mahabaleshwar</b>	10.5	9.0	9.7	13.0	17.4	20.3	22.1	25.1	21.8	21.6	17.5	14.5	5.0	207.5
<b>Khandala</b>	13.0	11.4	13.2	17.0	22.0	23.8	26.9	30.0	25.8	25.5	21.7	17.1	5.7	253.0
<b>Phaltan</b>	13.5	11.9	13.9	17.9	23.0	24.6	28.0	31.1	26.8	26.6	22.7	17.6	5.9	263.5
<b>Dahivadi</b>	13.3	11.8	13.7	18.0	23.0	24.6	28.1	31.0	27.0	26.8	22.8	17.4	5.8	263.4
<b>Vaduj</b>	13.1	11.7	13.5	17.7	22.6	24.2	27.6	30.7	26.7	26.4	22.6	17.3	5.8	259.9
<b>Patan</b>	12.5	11.4	12.9	16.9	21.7	23.4	26.6	29.7	26.0	25.5	21.8	17.0	5.7	251.0
<b>Karad</b>	12.7	11.8	13.6	17.5	22.4	23.8	27.1	30.3	26.7	26.0	22.5	17.7	5.9	258.0

**Table No. F-66: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Satara</b>	31.2	27.7	31.5	41.2	53.3	58.1	65.5	73.2	63.6	62.6	53.2	41.7	14.0	616.6
<b>Jaoli</b>	26.3	22.7	24.4	32.6	43.7	50.9	55.4	62.8	54.7	54.1	43.9	36.3	12.4	520.1
<b>Koregaon</b>	32.1	28.6	32.8	42.7	55.0	59.4	67.3	75.0	65.1	64.2	54.8	42.6	14.3	633.9
<b>Wai</b>	29.3	25.6	28.6	37.6	49.4	55.2	61.4	69.0	59.7	58.9	49.3	39.6	13.3	577.0
<b>Mahabaleshwar</b>	26.3	22.6	24.3	32.5	43.5	50.8	55.3	62.6	54.6	54.0	43.8	36.2	12.4	518.9
<b>Khandala</b>	32.4	28.5	32.9	42.5	55.0	59.5	67.1	75.0	64.6	63.7	54.3	42.7	14.2	632.5
<b>Phaltan</b>	33.7	29.8	34.7	44.8	57.6	61.6	70.0	77.7	67.0	66.4	56.8	43.9	14.6	658.7
<b>Dahivadi</b>	33.3	29.6	34.3	45.0	57.4	61.5	70.3	77.6	67.5	67.0	57.1	43.4	14.6	658.5
<b>Vaduj</b>	32.7	29.3	33.8	44.2	56.5	60.6	69.1	76.6	66.8	66.0	56.4	43.2	14.5	649.7
<b>Patan</b>	31.3	28.4	32.4	42.3	54.2	58.5	66.4	74.3	64.9	63.6	54.5	42.4	14.2	627.5
<b>Karad</b>	31.9	29.5	34.0	43.6	55.9	59.4	67.8	75.9	66.6	65.0	56.3	44.2	14.7	644.9

**Table No. F-67: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Satara	24.9	22.2	25.2	33.0	42.6	46.4	52.4	58.5	50.8	50.1	42.6	33.3	11.2	493.3
Jaoli	21.1	18.1	19.5	26.1	34.9	40.7	44.3	50.2	43.8	43.3	35.1	29.0	9.9	416.1
Koregaon	25.6	22.9	26.3	34.2	44.0	47.5	53.8	60.0	52.1	51.4	43.8	34.1	11.4	507.1
Wai	23.5	20.5	22.9	30.1	39.5	44.2	49.1	55.2	47.8	47.1	39.4	31.6	10.7	461.6
Mahabaleshwar	21.0	18.1	19.4	26.0	34.8	40.6	44.2	50.1	43.7	43.2	35.0	29.0	9.9	415.1
Khandala	25.9	22.8	26.3	34.0	44.0	47.6	53.7	60.0	51.7	51.0	43.4	34.2	11.4	506.0
Phaltan	27.0	23.8	27.8	35.9	46.1	49.3	56.0	62.2	53.6	53.2	45.4	35.1	11.7	526.9
Dahivadi	26.6	23.7	27.4	36.0	45.9	49.2	56.2	62.1	54.0	53.6	45.7	34.8	11.7	526.8
Vaduj	26.2	23.4	27.0	35.4	45.2	48.5	55.3	61.3	53.4	52.8	45.1	34.6	11.6	519.7
Patan	25.1	22.7	25.9	33.8	43.4	46.8	53.1	59.4	51.9	50.9	43.6	33.9	11.4	502.0
Karad	25.5	23.6	27.2	34.9	44.7	47.5	54.2	60.7	53.3	52.0	45.0	35.4	11.8	515.9

**Table No. F-68: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Satara</b>	20.8	18.5	21.0	27.5	35.5	38.7	43.6	48.8	42.4	41.7	35.5	27.8	9.3	411.1
<b>Jaoli</b>	17.6	15.1	16.2	21.7	29.1	33.9	37.0	41.8	36.5	36.1	29.3	24.2	8.3	346.7
<b>Koregaon</b>	21.4	19.1	21.9	28.5	36.7	39.6	44.9	50.0	43.4	42.8	36.5	28.4	9.5	422.6
<b>Wai</b>	19.6	17.1	19.1	25.1	32.9	36.8	40.9	46.0	39.8	39.2	32.9	26.4	8.9	384.7
<b>Mahabaleshwar</b>	17.5	15.1	16.2	21.6	29.0	33.8	36.9	41.8	36.4	36.0	29.2	24.1	8.3	345.9
<b>Khandala</b>	21.6	19.0	21.9	28.3	36.6	39.7	44.8	50.0	43.1	42.5	36.2	28.5	9.5	421.7
<b>Phaltan</b>	22.5	19.8	23.2	29.9	38.4	41.1	46.7	51.8	44.7	44.3	37.8	29.3	9.8	439.1
<b>Dahivadi</b>	22.2	19.7	22.8	30.0	38.3	41.0	46.8	51.7	45.0	44.7	38.1	29.0	9.7	439.0
<b>Vaduj</b>	21.8	19.5	22.5	29.5	37.6	40.4	46.1	51.1	44.5	44.0	37.6	28.8	9.7	433.1
<b>Patan</b>	20.9	18.9	21.6	28.2	36.1	39.0	44.3	49.5	43.3	42.4	36.4	28.3	9.5	418.4
<b>Karad</b>	21.2	19.7	22.7	29.1	37.3	39.6	45.2	50.6	44.4	43.3	37.5	29.5	9.8	430.0

**Table No. F-69: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Satara	15.6	13.8	15.8	20.6	26.6	29.0	32.7	36.6	31.8	31.3	26.6	20.8	7.0	308.3
Jaoli	13.2	11.3	12.2	16.3	21.8	25.4	27.7	31.4	27.4	27.1	22.0	18.1	6.2	260.0
Koregaon	16.0	14.3	16.4	21.4	27.5	29.7	33.6	37.5	32.6	32.1	27.4	21.3	7.1	316.9
Wai	14.7	12.8	14.3	18.8	24.7	27.6	30.7	34.5	29.9	29.4	24.6	19.8	6.7	288.5
Mahabaleshwar	13.1	11.3	12.1	16.2	21.8	25.4	27.7	31.3	27.3	27.0	21.9	18.1	6.2	259.4
Khandala	16.2	14.3	16.5	21.2	27.5	29.8	33.6	37.5	32.3	31.9	27.1	21.4	7.1	316.3
Phaltan	16.9	14.9	17.4	22.4	28.8	30.8	35.0	38.8	33.5	33.2	28.4	22.0	7.3	329.3
Dahivadi	16.7	14.8	17.1	22.5	28.7	30.7	35.1	38.8	33.7	33.5	28.6	21.7	7.3	329.2
Vaduj	16.3	14.7	16.9	22.1	28.2	30.3	34.6	38.3	33.4	33.0	28.2	21.6	7.3	324.8
Patan	15.7	14.2	16.2	21.1	27.1	29.3	33.2	37.1	32.5	31.8	27.3	21.2	7.1	313.8
Karad	15.9	14.8	17.0	21.8	28.0	29.7	33.9	37.9	33.3	32.5	28.1	22.1	7.4	322.5



**Table No. F-70: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Satara</b>	14.7	13.0	14.8	19.4	25.1	27.3	30.8	34.4	29.9	29.5	25.0	19.6	6.6	290.2
<b>Jaoli</b>	12.4	10.7	11.5	15.3	20.5	23.9	26.1	29.5	25.8	25.5	20.7	17.1	5.8	244.7
<b>Koregaon</b>	15.1	13.4	15.4	20.1	25.9	27.9	31.7	35.3	30.6	30.2	25.8	20.1	6.7	298.3
<b>Wai</b>	13.8	12.1	13.5	17.7	23.2	26.0	28.9	32.5	28.1	27.7	23.2	18.6	6.3	271.5
<b>Mahabaleshwar</b>	12.4	10.6	11.4	15.3	20.5	23.9	26.0	29.5	25.7	25.4	20.6	17.0	5.8	244.2
<b>Khandala</b>	15.2	13.4	15.5	20.0	25.9	28.0	31.6	35.3	30.4	30.0	25.5	20.1	6.7	297.6
<b>Phaltan</b>	15.9	14.0	16.3	21.1	27.1	29.0	32.9	36.6	31.5	31.3	26.7	20.7	6.9	310.0
<b>Dahivadi</b>	15.7	13.9	16.1	21.2	27.0	28.9	33.1	36.5	31.7	31.5	26.9	20.4	6.9	309.9
<b>Vaduj</b>	15.4	13.8	15.9	20.8	26.6	28.5	32.5	36.1	31.4	31.1	26.6	20.3	6.8	305.7
<b>Patan</b>	14.7	13.4	15.2	19.9	25.5	27.5	31.3	35.0	30.5	29.9	25.7	20.0	6.7	295.3
<b>Karad</b>	15.0	13.9	16.0	20.5	26.3	28.0	31.9	35.7	31.4	30.6	26.5	20.8	6.9	303.5

**Table No. F-71: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Satara</b>	13.8	12.3	14.0	18.3	23.7	25.8	29.1	32.5	28.2	27.8	23.6	18.5	6.2	274.0
<b>Jaoli</b>	11.7	10.1	10.8	14.5	19.4	22.6	24.6	27.9	24.3	24.0	19.5	16.1	5.5	231.2
<b>Koregaon</b>	14.2	12.7	14.6	19.0	24.4	26.4	29.9	33.3	28.9	28.5	24.4	18.9	6.3	281.7
<b>Wai</b>	13.0	11.4	12.7	16.7	22.0	24.5	27.3	30.7	26.6	26.2	21.9	17.6	5.9	256.5
<b>Mahabaleshwar</b>	11.7	10.0	10.8	14.4	19.4	22.6	24.6	27.8	24.3	24.0	19.5	16.1	5.5	230.6
<b>Khandala</b>	14.4	12.7	14.6	18.9	24.4	26.5	29.8	33.3	28.7	28.3	24.1	19.0	6.3	281.1
<b>Phaltan</b>	15.0	13.2	15.4	19.9	25.6	27.4	31.1	34.5	29.8	29.5	25.2	19.5	6.5	292.7
<b>Dahivadi</b>	14.8	13.2	15.2	20.0	25.5	27.3	31.2	34.5	30.0	29.8	25.4	19.3	6.5	292.7
<b>Vaduj</b>	14.5	13.0	15.0	19.6	25.1	26.9	30.7	34.1	29.7	29.3	25.1	19.2	6.5	288.7
<b>Patan</b>	13.9	12.6	14.4	18.8	24.1	26.0	29.5	33.0	28.8	28.3	24.2	18.9	6.3	278.9
<b>Karad</b>	14.2	13.1	15.1	19.4	24.8	26.4	30.1	33.7	29.6	28.9	25.0	19.7	6.5	286.6

**Table No. F-72: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Satara District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Satara</b>	13.1	11.7	13.3	17.3	22.4	24.4	27.6	30.8	26.8	26.4	22.4	17.5	5.9	259.6
<b>Jaoli</b>	11.1	9.5	10.3	13.7	18.4	21.4	23.3	26.4	23.0	22.8	18.5	15.3	5.2	219.0
<b>Koregaon</b>	13.5	12.0	13.8	18.0	23.2	25.0	28.3	31.6	27.4	27.0	23.1	17.9	6.0	266.9
<b>Wai</b>	12.3	10.8	12.1	15.8	20.8	23.2	25.8	29.1	25.2	24.8	20.8	16.7	5.6	243.0
<b>Mahabaleshwar</b>	11.1	9.5	10.2	13.7	18.3	21.4	23.3	26.4	23.0	22.7	18.4	15.2	5.2	218.5
<b>Khandala</b>	13.6	12.0	13.9	17.9	23.1	25.1	28.3	31.6	27.2	26.8	22.9	18.0	6.0	266.3
<b>Phaltan</b>	14.2	12.5	14.6	18.9	24.3	25.9	29.5	32.7	28.2	28.0	23.9	18.5	6.2	277.3
<b>Dahivadi</b>	14.0	12.5	14.4	18.9	24.2	25.9	29.6	32.7	28.4	28.2	24.0	18.3	6.2	277.3
<b>Vaduj</b>	13.8	12.3	14.2	18.6	23.8	25.5	29.1	32.3	28.1	27.8	23.8	18.2	6.1	273.6
<b>Patan</b>	13.2	12.0	13.6	17.8	22.8	24.6	28.0	31.3	27.3	26.8	23.0	17.9	6.0	264.2
<b>Karad</b>	13.4	12.4	14.3	18.4	23.5	25.0	28.5	31.9	28.1	27.4	23.7	18.6	6.2	271.6

**Taluka wise Crop and Irrigation Water Requirement (mm) of *Kharif* Sesame by Different Irrigation Methods, Ignoring Effective Rainfall in Solapur District**

**Table No. F-73: Taluka Wise Crop Water Requirement (mm) of *Kharif* Sesame in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Solapur-N</b>	17.4	14.7	18.1	24.6	30.6	31.3	37.5	38.6	33.9	36.0	29.8	20.0	6.9	339.5
<b>Solapur-S</b>	16.9	14.4	17.5	23.8	29.6	30.5	36.4	37.7	33.1	34.9	29.0	19.7	6.8	330.2
<b>Barshi</b>	15.7	13.5	16.2	21.7	27.2	28.5	33.5	35.5	30.9	31.9	26.7	18.8	6.5	306.7
<b>Akkalkot</b>	16.7	14.3	17.4	23.5	29.4	30.3	36.1	37.4	32.8	34.6	28.7	19.6	6.8	327.5
<b>Madha</b>	16.1	13.8	16.7	22.5	28.1	29.2	34.5	36.2	31.7	33.0	27.5	19.1	6.6	315.0
<b>Karmala</b>	14.4	12.7	14.9	19.6	24.8	26.5	30.5	33.2	28.7	28.7	24.4	17.9	6.2	282.3
<b>Pandharpur</b>	17.4	14.8	18.1	24.6	30.6	31.4	37.6	38.6	34.0	36.1	29.9	20.1	6.9	340.1
<b>Mohol</b>	16.6	14.2	17.3	23.4	29.2	30.1	35.9	37.3	32.7	34.3	28.5	19.5	6.7	325.8
<b>Malshiras</b>	14.7	12.8	15.1	20.1	25.4	26.8	31.2	33.5	29.2	29.8	25.1	18.2	6.2	288.2
<b>Sangola</b>	16.0	13.8	16.6	22.4	28.0	29.1	34.4	36.1	31.6	33.0	27.5	19.1	6.6	314.2
<b>Mangalwedha</b>	16.7	14.2	17.3	23.5	29.3	30.2	36.0	37.3	32.8	34.5	28.7	19.6	6.7	327.0

**Table No. F-74: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 40% efficiency in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Solapur-N</b>	43.4	36.8	45.2	61.4	76.4	78.3	93.8	96.4	84.7	90.1	74.5	50.1	17.3	848.7
<b>Solapur-S</b>	42.2	35.9	43.9	59.4	74.1	76.3	91.0	94.2	82.6	87.2	72.4	49.2	17.0	825.4
<b>Barshi</b>	39.1	33.8	40.6	54.3	68.1	71.3	83.7	88.6	77.4	79.7	66.8	47.0	16.2	766.6
<b>Akkalkot</b>	41.8	35.7	43.5	58.9	73.4	75.7	90.2	93.6	82.0	86.4	71.8	49.0	16.9	818.8
<b>Madha</b>	40.2	34.6	41.7	56.1	70.2	73.1	86.3	90.6	79.2	82.4	68.8	47.8	16.5	787.6
<b>Karmala</b>	36.0	31.7	37.2	49.0	61.9	66.2	76.2	83.0	71.8	71.8	60.9	44.7	15.4	705.8
<b>Pandharpur</b>	43.5	36.9	45.3	61.6	76.6	78.5	94.0	96.6	84.9	90.3	74.7	50.2	17.3	850.4
<b>Mohol</b>	41.6	35.5	43.2	58.5	73.0	75.4	89.6	93.2	81.7	85.8	71.4	48.8	16.8	814.5
<b>Malshiras</b>	36.6	31.9	37.8	50.3	63.6	67.1	78.0	83.8	73.1	74.5	62.7	45.5	15.5	720.4
<b>Sangola</b>	40.0	34.4	41.5	56.0	70.0	72.7	86.1	90.2	79.1	82.5	68.8	47.7	16.4	785.4
<b>Mangalwedha</b>	41.8	35.6	43.4	58.7	73.3	75.6	90.0	93.4	81.9	86.3	71.7	48.9	16.9	817.4

**Table No. F-75: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 50% efficiency in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Solapur-N	34.8	29.5	36.2	49.1	61.1	62.7	75.1	77.1	67.8	72.1	59.6	40.1	13.9	678.9
Solapur-S	33.7	28.8	35.1	47.5	59.3	61.0	72.8	75.3	66.1	69.8	57.9	39.4	13.6	660.3
Barshi	31.3	27.1	32.5	43.4	54.5	57.0	67.0	70.9	61.9	63.8	53.4	37.6	13.0	613.3
Akkalkot	33.5	28.6	34.8	47.1	58.7	60.6	72.1	74.8	65.6	69.1	57.4	39.2	13.5	655.1
Madha	32.2	27.6	33.4	44.9	56.2	58.4	69.0	72.5	63.4	65.9	55.1	38.2	13.2	630.1
Karmala	28.8	25.3	29.8	39.2	49.6	52.9	61.0	66.4	57.5	57.4	48.7	35.7	12.3	564.6
Pandharpur	34.8	29.5	36.2	49.3	61.3	62.8	75.2	77.3	67.9	72.3	59.7	40.2	13.9	680.3
Mohol	33.3	28.4	34.6	46.8	58.4	60.3	71.7	74.5	65.3	68.7	57.1	39.1	13.5	651.6
Malshiras	29.3	25.5	30.2	40.3	50.9	53.7	62.4	67.1	58.4	59.6	50.2	36.4	12.4	576.3
Sangola	32.0	27.5	33.2	44.8	56.0	58.2	68.8	72.2	63.2	66.0	55.0	38.2	13.1	628.3
Mangalwedha	33.4	28.5	34.7	47.0	58.6	60.5	72.0	74.7	65.5	69.1	57.3	39.2	13.5	654.0

**Table No. F-76: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Surface Irrigation at 60% efficiency in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Solapur-N</b>	29.0	24.5	30.1	40.9	50.9	52.2	62.6	64.3	56.5	60.1	49.7	33.4	11.5	565.8
<b>Solapur-S</b>	28.1	24.0	29.2	39.6	49.4	50.9	60.7	62.8	55.1	58.1	48.3	32.8	11.3	550.3
<b>Barshi</b>	26.1	22.6	27.1	36.2	45.4	47.5	55.8	59.1	51.6	53.1	44.5	31.3	10.8	511.1
<b>Akkalkot</b>	27.9	23.8	29.0	39.2	48.9	50.5	60.1	62.4	54.7	57.6	47.9	32.6	11.3	545.9
<b>Madha</b>	26.8	23.0	27.8	37.4	46.8	48.7	57.5	60.4	52.8	54.9	45.9	31.9	11.0	525.0
<b>Karmala</b>	24.0	21.1	24.8	32.6	41.3	44.1	50.8	55.3	47.9	47.8	40.6	29.8	10.3	470.5
<b>Pandharpur</b>	29.0	24.6	30.2	41.0	51.0	52.3	62.7	64.4	56.6	60.2	49.8	33.5	11.6	566.9
<b>Mohol</b>	27.7	23.7	28.8	39.0	48.6	50.2	59.8	62.1	54.4	57.2	47.6	32.6	11.2	543.0
<b>Malshiras</b>	24.4	21.3	25.2	33.6	42.4	44.7	52.0	55.9	48.7	49.7	41.8	30.3	10.3	480.3
<b>Sangola</b>	26.7	22.9	27.7	37.3	46.7	48.5	57.4	60.1	52.7	55.0	45.9	31.8	10.9	523.6
<b>Mangalwedha</b>	27.8	23.7	28.9	39.2	48.8	50.4	60.0	62.2	54.6	57.6	47.8	32.6	11.2	545.0

**Table No. F-77: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 80% efficiency in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
Solapur-N	21.7	18.4	22.6	30.7	38.2	39.2	46.9	48.2	42.4	45.0	37.3	25.1	8.7	424.3
Solapur-S	21.1	18.0	21.9	29.7	37.0	38.1	45.5	47.1	41.3	43.6	36.2	24.6	8.5	412.7
Barshi	19.6	16.9	20.3	27.1	34.0	35.7	41.9	44.3	38.7	39.9	33.4	23.5	8.1	383.3
Akkalkot	20.9	17.8	21.7	29.4	36.7	37.9	45.1	46.8	41.0	43.2	35.9	24.5	8.4	409.4
Madha	20.1	17.3	20.9	28.1	35.1	36.5	43.2	45.3	39.6	41.2	34.4	23.9	8.2	393.8
Karmala	18.0	15.8	18.6	24.5	31.0	33.1	38.1	41.5	35.9	35.9	30.5	22.3	7.7	352.9
Pandharpur	21.8	18.4	22.7	30.8	38.3	39.2	47.0	48.3	42.4	45.2	37.3	25.1	8.7	425.2
Mohol	20.8	17.8	21.6	29.2	36.5	37.7	44.8	46.6	40.8	42.9	35.7	24.4	8.4	407.3
Malshiras	18.3	16.0	18.9	25.2	31.8	33.5	39.0	41.9	36.5	37.2	31.4	22.7	7.7	360.2
Sangola	20.0	17.2	20.7	28.0	35.0	36.4	43.0	45.1	39.5	41.2	34.4	23.9	8.2	392.7
Mangalwedha	20.9	17.8	21.7	29.4	36.6	37.8	45.0	46.7	41.0	43.2	35.8	24.5	8.4	408.7



**Table No. F-78: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Sprinkler Irrigation at 85% efficiency in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Solapur-N</b>	20.4	17.3	21.3	28.9	36.0	36.9	44.2	45.4	39.9	42.4	35.1	23.6	8.2	399.4
<b>Solapur-S</b>	19.9	16.9	20.6	28.0	34.9	35.9	42.8	44.3	38.9	41.0	34.1	23.2	8.0	388.4
<b>Barshi</b>	18.4	15.9	19.1	25.5	32.0	33.6	39.4	41.7	36.4	37.5	31.4	22.1	7.6	360.8
<b>Akkalkot</b>	19.7	16.8	20.5	27.7	34.5	35.6	42.4	44.0	38.6	40.7	33.8	23.0	8.0	385.3
<b>Madha</b>	18.9	16.3	19.6	26.4	33.1	34.4	40.6	42.6	37.3	38.8	32.4	22.5	7.8	370.6
<b>Karmala</b>	17.0	14.9	17.5	23.0	29.1	31.1	35.9	39.1	33.8	33.8	28.7	21.0	7.2	332.1
<b>Pandharpur</b>	20.5	17.4	21.3	29.0	36.0	36.9	44.3	45.5	39.9	42.5	35.1	23.6	8.2	400.2
<b>Mohol</b>	19.6	16.7	20.4	27.5	34.3	35.5	42.2	43.8	38.4	40.4	33.6	23.0	7.9	383.3
<b>Malshiras</b>	17.2	15.0	17.8	23.7	29.9	31.6	36.7	39.5	34.4	35.0	29.5	21.4	7.3	339.0
<b>Sangola</b>	18.8	16.2	19.5	26.4	33.0	34.2	40.5	42.4	37.2	38.8	32.4	22.5	7.7	369.6
<b>Mangalwedha</b>	19.6	16.8	20.4	27.6	34.5	35.6	42.4	43.9	38.5	40.6	33.7	23.0	7.9	384.7

**Table No. F-79: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 90% efficiency in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Solapur-N</b>	19.3	16.4	20.1	27.3	34.0	34.8	41.7	42.9	37.7	40.0	33.1	22.3	7.7	377.2
<b>Solapur-S</b>	18.7	16.0	19.5	26.4	32.9	33.9	40.4	41.9	36.7	38.8	32.2	21.9	7.6	366.8
<b>Barshi</b>	17.4	15.0	18.0	24.1	30.3	31.7	37.2	39.4	34.4	35.4	29.7	20.9	7.2	340.7
<b>Akkalkot</b>	18.6	15.9	19.3	26.2	32.6	33.7	40.1	41.6	36.5	38.4	31.9	21.8	7.5	363.9
<b>Madha</b>	17.9	15.4	18.5	25.0	31.2	32.5	38.4	40.3	35.2	36.6	30.6	21.2	7.3	350.0
<b>Karmala</b>	16.0	14.1	16.6	21.8	27.5	29.4	33.9	36.9	31.9	31.9	27.1	19.9	6.8	313.7
<b>Pandharpur</b>	19.3	16.4	20.1	27.4	34.0	34.9	41.8	42.9	37.7	40.1	33.2	22.3	7.7	377.9
<b>Mohol</b>	18.5	15.8	19.2	26.0	32.4	33.5	39.8	41.4	36.3	38.2	31.7	21.7	7.5	362.0
<b>Malshiras</b>	16.3	14.2	16.8	22.4	28.3	29.8	34.7	37.3	32.5	33.1	27.9	20.2	6.9	320.2
<b>Sangola</b>	17.8	15.3	18.4	24.9	31.1	32.3	38.2	40.1	35.1	36.7	30.6	21.2	7.3	349.1
<b>Mangalwedha</b>	18.6	15.8	19.3	26.1	32.6	33.6	40.0	41.5	36.4	38.4	31.9	21.8	7.5	363.3

**Table No. F-80: Taluka Wise Irrigation Water Requirement (mm) of *Kharif* Sesame by Drip Irrigation at 95% efficiency in Solapur District**

<b>Taluka</b>	<b>CW 1</b>	<b>CW 2</b>	<b>CW 3</b>	<b>CW 4</b>	<b>CW 5</b>	<b>CW 6</b>	<b>CW 7</b>	<b>CW 8</b>	<b>CW 9</b>	<b>CW 10</b>	<b>CW 11</b>	<b>CW 12</b>	<b>CW 13</b>	<b>Seasonal CWR</b>
<b>Solapur-N</b>	18.3	15.5	19.0	25.9	32.2	33.0	39.5	40.6	35.7	37.9	31.4	21.1	7.3	357.3
<b>Solapur-S</b>	17.8	15.1	18.5	25.0	31.2	32.1	38.3	39.7	34.8	36.7	30.5	20.7	7.2	347.5
<b>Barshi</b>	16.5	14.2	17.1	22.9	28.7	30.0	35.3	37.3	32.6	33.6	28.1	19.8	6.8	322.8
<b>Akkalkot</b>	17.6	15.0	18.3	24.8	30.9	31.9	38.0	39.4	34.5	36.4	30.2	20.6	7.1	344.8
<b>Madha</b>	16.9	14.6	17.6	23.6	29.6	30.8	36.3	38.1	33.4	34.7	29.0	20.1	6.9	331.6
<b>Karmala</b>	15.2	13.3	15.7	20.6	26.1	27.9	32.1	35.0	30.2	30.2	25.7	18.8	6.5	297.2
<b>Pandharpur</b>	18.3	15.5	19.1	25.9	32.2	33.0	39.6	40.7	35.7	38.0	31.4	21.1	7.3	358.0
<b>Mohol</b>	17.5	15.0	18.2	24.6	30.7	31.7	37.7	39.2	34.4	36.1	30.1	20.6	7.1	343.0
<b>Malshiras</b>	15.4	13.4	15.9	21.2	26.8	28.2	32.9	35.3	30.8	31.4	26.4	19.1	6.5	303.3
<b>Sangola</b>	16.8	14.5	17.5	23.6	29.5	30.6	36.2	38.0	33.3	34.7	29.0	20.1	6.9	330.7
<b>Mangalwedha</b>	17.6	15.0	18.3	24.7	30.8	31.8	37.9	39.3	34.5	36.4	30.2	20.6	7.1	344.2