

# A Brief Study on Marigold Production in Odisha

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**Abstract:** Marigold is one of the most important flowering annuals cultivated in India. It has popularity because of its easy culture and wide adaptability, wide attractive colours, shape, and good keeping quality. It is the most commercially grown loose flower crops in India. In Odisha, the production of marigold increased to 24,5810 quintals during 2013-14 from 14,581 quintals during 2003-04. The objectives of this article are to study area under marigold production in Odisha from 2003-04 till 2013-14 as well as to know the trend in marigold production in Odisha from 2003-04 till 2013-14. The study is based on secondary data. It is found that the area under marigold production in Odisha increased to 2680 ha during 2013-14 from 194.64 ha during 2003-04. The percentage change of area under marigold production is negative in Odisha i.e., -8.98% in 2012-13 and -0.51% in 2013-14 during the study period. Again, the production of marigold increased to 24,5810 quintal during 2013-14. The highest growth percentage change of marigold production in Odisha is 172.68% during 2009-10. And also, the negative percentage change of marigold production in Odisha is -0.51% during 2013-14. It is concluded that as the production of marigold has ample prosperity like opportunity of employment generation, the government may bring more attention towards its cultivation with present successful facilities for getting its more production continuously.

**Keywords:** Marigold, Production

## 1. Introduction

Marigold is one of the most important flowering annuals cultivated in India. It has popularity because of its easy culture and wide adaptability, wide attractive colours, shape, and good keeping quality. It is extensively used for making garland, beautification and other purposes like pigment as well as oil extraction. Moreover, it is the most commercially grown loose flower crops in India. In Odisha, the production of marigold increased to 24,5810 quintals during 2013-14 from 14,581 quintals during 2003-04.

## 2. Literature Review

Miah et al. (2013) have examined that to identify agronomic practices, relative profitability and input output relationship of marigold flower in Bangladesh. As per the study, 95% farmers cultivate T-004 line and only 5% farmers cultivated T-003 line of marigold. The yield of marigold flower was 2,650,447 per hectare. The benefit cost ratios were 2.57 and 1.80 on both variable cost and full cost wise respectively. The major problems of marigold cultivation were lack of technical

knowledge, non-availability of high yielding variety and infestation of insects and diseases. Kaur et al. (2013) have examined that marigold has been occasionally used in south Asian Medicine. Also, marigold leaves and flowers in particular have been used for different disorders. Marigold species are also being investigated for their potential health related benefits.

Priyanka et al. (2013) have examined that marigold (*Tagetes* species) has various pharmacological activities like anti-bacterial activity anti-microbial activity, hepatoprotective activity, insecticidal activity, mosquitocidal activity, Nematicidal activity, wound healing activity, anti-oxidant and analgesic activity, Larvicidal activity, sub-acute toxicity etc. Field experiment comprising of six treatment combinations and water soluble fertilizers as a nutrient source. As per the study, maximum growth parameters in marigold could be obtained by application of water soluble fertilizers at 100% of RDF through fertigation (Chaitra et al., 2018).

## 3. Objectives of the study

The specific objectives of the study are:

1. To study area under marigold production in Odisha from 2003-04 till 2013-14.
2. To know the trend in marigold production in Odisha from 2003-04 till 2013-14.

## 4. Research Methodology

The study is based on secondary data. The key sources of secondary data are Odisha Economic Survey, journals, articles, website etc. The data is represented in the form of tables and figures. Again, the data are given in both actual figures as well as in percentage. Therefore, the study is analytical in nature by using secondary data.

## 5. Discussion and Results

The production of marigold in Odisha is as follows:

A. *Area under Marigold Production in Odisha from 2003-04 till 2013-14*

The area under marigold production in Odisha from 2003-04 to 2013-14 is given in the table 1.

Table 1  
Area under Marigold Production in Odisha from 2003-04 till 2013-14

Year	Marigold	
	Area (ha)	% of Change
2003-04	194.64	-
2004-05	221.05	13.56
2005-06	243.05	9.95
2006-07	333.00	37.01
2007-08	791.00	137.53
2008-09	1060	34.01
2009-10	2625	147.64
2010-11	2660	1.33
2011-12	2960	11.27
2012-13	2694	-8.98
2013-14	2680	-0.51

Source: Odisha Economic Survey

Table 2  
Trends in Marigold Production in Odisha from 2003-04 to 2013-14

Year	Marigold	
	Production (Qtl.)	% of Change
2003-04	14,581	-
2004-05	16,599	13.83
2005-06	17,514	5.51
2006-07	26,640	52.10
2007-08	65,340	145.27
2008-09	88,026	34.71
2009-10	24,0031	172.68
2010-11	24,3500	1.44
2011-12	24,6500	1.23
2012-13	24,7075	0.23
2013-14	24,5810	-0.51

Source: Odisha Economic Survey

From the table 1, it is observed that the area under marigold production in Odisha increased to 2680 ha during 2013-14 from 194.64 ha during 2003-04. The percentage change of area under marigold production is negative in Odisha i.e., -8.98% in 2012-13 and -0.51% in 2013-14 during the study period.

The above area under marigold production in Odisha from 2003-04 till 2013-14 may be shown in figure 1.

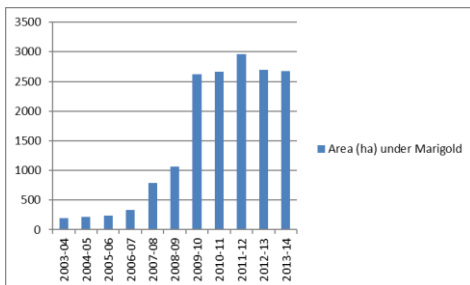


Fig. 1. Area (ha) under marigold production in Odisha from 2003-04 till 2013-14

### B. Trends in Marigold Production in Odisha from 2003-04 to 2013-14

The trends in marigold production in Odisha from 2003-04 to 2013-14 is given in the table 2.

The table-2 depicts that the production of marigold increased to 24,5810 quintal during 2013-14. The highest growth percentage change of marigold production in Odisha is 172.68% during 2009-10. And also, the negative percentage change of marigold production in Odisha is -0.51% during 2013-14. The production of marigold in Odisha from 2003-04 till 2013-14 may be shown in figure 2.

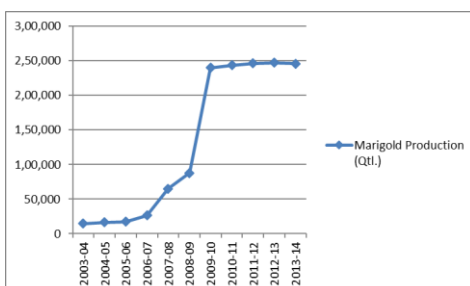


Fig. 2. Marigold production (Qtl.) in Odisha from 2003-04 till 2013-14

### 6. Findings

From the above discussion, it is found that the area under marigold production in Odisha increased to 2680 ha during 2013-14 from 194.64 ha during 2003-04. The percentage change of area under marigold production is negative in Odisha i.e., -8.98% in 2012-13 and -0.51% in 2013-14 during the study period. Moreover, the production of marigold increased to 24,5810 quintal during 2013-14. The highest growth percentage change of marigold production in Odisha is 172.68% during 2009-10. And also, the negative percentage change of marigold production in Odisha is -0.51% during 2013-14.

### 7. Conclusion

From the above analysis, it is concluded that as the production of marigold has ample prosperity like opportunity of employment generation, the government may bring more attention towards its cultivation with present successful facilities for getting its more production continuously.

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