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Status of spices crops in Chhattisgarh

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Abstract

Spices are one of the economically and commercially significant agricultural crops. India is the major producer, consumer and exporter of spices in world. In Chhattisgarh, chilli, ginger, garlic, turmeric, coriander and fenugreek are the major spices grown in the state. The total area of spices recorded in year 2022-23 was 67,702 hectare with the production of 4, 53,604 metric tons. Total area of spices crops in Chhattisgarh during the year 2013-14 was 90174 ha which reduces in 2022-23 i.e. 67702 ha. Similarly, production was also reduces during year 2013-2014 to 2022-23 i.e. 617591 MT to 453604 MT. The area and production of ginger, chilli and nigella are decreases while the area and production of coriander, garlic, turmeric and other spices are increases. The overall areas and production of spices were decreases during 10 years.

Keywords: Spices, Chhattisgarh, status etc.

Introduction

Spices are one of the economically and commercially significant agricultural crops in the world. Today, Indian spices are the most sought-after globally, given their exquisite aroma, texture, taste and medicinal value. Traditionally, spices in India have been grown in small land holdings, with organic farming gaining prominence in recent times. Spices may be dried fruits, roots, seeds or barks of vegetable substance primarily used to flavor, colour or preserve food (Ramakrishnan and Karthikeyan, 2021)^[3].

Spices have tremendous importance in the life, as ingredients in food, alcoholic beverages, medicine, perfumery, cosmetics, and coloring and also as garden plants. Spices have been essential factor in health care through the ages in all cultures. They are organized in a number of ways to take out their active ingredient for internal and outside use.

In India, different states are known as different spices. They are produced in all the states and union territories. India is the major producer, consumer and exporter of spices in world. India grows over 75 different varieties of spices because of various agro-climatic conditions and soil types. (Raju and Nagarajan, 2023)^[2].

In Chhattisgarh, Chilli, Ginger, Garlic, Turmeric, Coriander and Fenugreek are the major spices grown in the state. The total area of spices recorded in year 2022-23 was 67,702 Hectare with the production of 4, 53,604 Metric Tons (agriportal.cg.nic.in).

Table 1: District wise prioritization of Spices crops in Chhattisgarh

S. No.	Spices Crop	Selected Districts
1.	Chilli	Raipur, Balodabazar, Gariyaband, Rajnandgaon, Raigarh, Korba, Kabirdham, Jashpur, Durg, Bemetra, Balod, Bilaspur, Sarguja, Surajpur, Balrampur, Mungeli, Korea, Jagdalpur and Kondgaon
2.	Ginger	Korba, Raigarh, Durg, Sarguja, Jagdalpur, Jashpur, Kabirdham, Balodabazar, Kondgaon, Raipur, Mungeli, Balod, Bilaspur, Surajpur and Balrampur
3.	Coriander	Raigarh, Korba, Durg, Jashpur, Jagdalpur, Bemetra, Kabirdham, Kondagaon, Mungeli, Bilaspur and Balod
4.	Turmeric	Korba, Jagdalpur, Sarguja, Jashpur, Kondagaon, Balod, Surajpur and Balrampur
5.	Garlic	Mungeli and Bilaspur

Source: agriportal.cg.nic.in and Directorate of Horticulture, CG

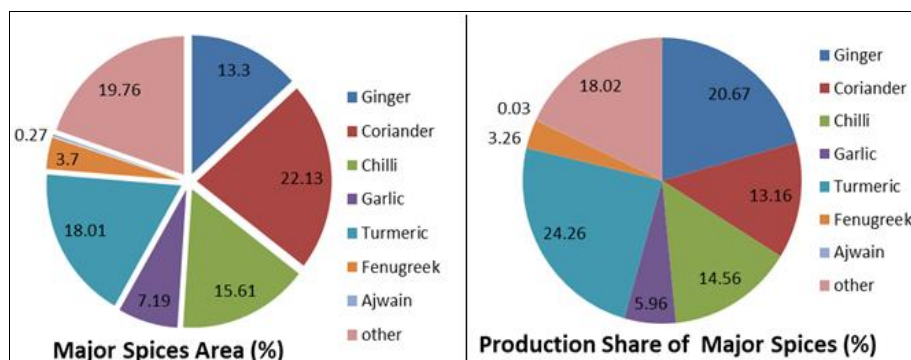
Table 2: Area, production and productivity of spices crops in Chhattisgarh for the year 2022-23

S. No.	Name of Spices	Area (Ha)	percentage Area	Production (MT)	percentage Production	Productivity (MT/Ha)
1	Ginger	9003	13.30	93777	20.67	10.42
2	Coriander	14985	22.13	59682	13.16	3.98
3	Chilli	10566	15.61	66066	14.56	6.25
4	Garlic	4865	7.19	27035	5.96	5.56
5	Turmeric	12195	18.01	110057	24.26	9.02
6	Fenugreek	2505	3.70	14779	3.26	5.90
7	Ajwain	182	0.27	155	0.03	0.85
8	other	13375	19.76	81760	18.02	6.11
	Total	67702	100.00	453604	100.00	6.70

Source: agriportal.cg.nic.in and Directorate of Horticulture, CG

In the year 2022-23 the area of spices is 67702 ha, production 453604 MT and productivity is 6.70 MT/ha. The coriander covers maximum area (22.13%) followed by turmeric (18.01%), chilli (15.61%), ginger (13.30%) and garlic (7.19%). While, the maximum production under turmeric (24.26%) followed by

ginger (20.67%), chilli (14.56%), coriander (13.16%) and garlic (5.96%). The maximum productivity was obtained in ginger crop i.e. 10.42MT/ha followed by turmeric (9.02 MT/ha). The minimum area and production and was found in ajwain crop

**Fig 1:** Area and production share of major spices of Chhattisgarh during year 2022-23**Table 3:** Change in area and production of spices crops in Chhattisgarh during last 10 years

S. No.	Name of Spices	Area (Ha)		% increase/decrease in the area during last 10 years	Production (MT)		% increase/decrease in the production during last 10 years
		2013-14	2022-23		2013-14	2022-23	
1	Ginger	10421	9003	-13.61	114720	93777	-18.26
2	Coriander	13564	14985	10.48	52832	59682	12.97
3	Chilli	37758	10566	-72.02	263204	66066	-74.90
4	Garlic	4298	4865	13.19	23101	27035	17.03
5	Turmeric	10938	12195	11.49	107106	110057	2.76
6	Nigella	137	-	-100.00	195	-	-100.00
7	Fenugreek	3138	2505	-20.17	12710	14779	16.28
8	Ajwain	140	182	30.00	195	155	-20.51
9	other	9780	13375	36.76	43528	81760	87.83
	Total	90174	67702	-24.92	617591	453604	-26.55

Source: agriportal.cg.nic.in and Directorate of Horticulture, CG

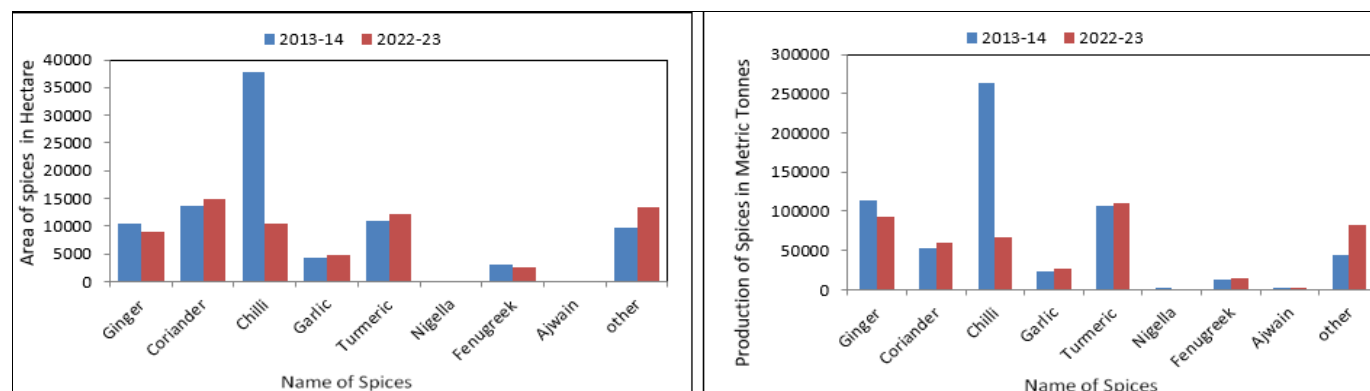


Fig 2: comparison of Area and production of spices crops in Chhattisgarh (2013-14 and 2022-23)

Total area of spices crops in Chhattisgarh during the year 2013-14 was 90174 ha which reduces in 2022-23 i.e. 67702 ha. Similarly production was also reduces during year 2013-2014 to 2022-23 i.e. 617591 MT to 453604 MT. The area and production of ginger, chilli and nigella were decreases while the area and production of coriander, garlic, turmeric and other spices were increases. The area fenugreek decreases and

production was increases vice-versa the area of ajwain is increases and production was decreases. The maximum decreases of area and production of nigella i.e. (100%) followed by chilli (area 72.02%) and production (74.90%) during last 10 years. The total area of spices decreases 24.92% and total production 26.55% during last 10 years.

Table 4: Area and production of spices crops in Chhattisgarh [Area in Hectare (Ha) and Production in Metric Tons (MT)]

S. No.	Name of Spices	2013-14		2014-15		2015-16		2016-17		2017-18	
		Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
1	Ginger	10421	114720	10662	119159	11545	134626	11595	140641	12499	151309
2	Coriander	13564	52832	16418	70589	17276	83992	18861	87050	19512	89744
3	Chilli	37758	263204	35499	250817	36380	256605	36410	265627	37590	274265
4	Garlic	4298	23101	4148	22517	3779	20621	3995	22078	4245	23833
5	Turmeric	10938	107106	11021	113347	10575	95653	10542	94935	11356	100696
6	Nigella	137	195	154	221	148	228	148	215	183	265
7	Fenugreek	3138	12710	3347	13467	3531	14934	3817	16802	3851	16464
8	Ajwain	140	195	143	201	147	206	152	214	163	230
9	other	9780	43528	9723	49709	10281	53327	11097	55771	11581	58711
	Total	90174	617591	91115	640027	93662	659192	96617	683333	100980	715517

2018-19		2019-20		2020-21		2021-22		2022-23	
Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
12715	153144	5129	47955	10118	102830	9277	97120	9003	93777
20069	94730	8048	23501	14988	66299	15795	75901	14985	59682
28215	196851	12241	78903	10348	66923	10706	65673	10566	66066
4351	25319	4359	26688	4411	26185	4857	26963	4865	27035
11849	105703	11925	105509	12072	106430	10785	100971	12195	110057
195	282	201	289	-	-	-	-	-	-
4014	18479	2544	10633	2585	16244	2767	17193	2505	14779
174	237	177	240	179	151	179	151	182	155
12006	64505	10752	60807	13056	64290	13329	80775	13375	81760
93588	659250	55376	354525	67756	449353	67723	465042	67702	453604

Source: agriportal.cg.nic.in and Directorate of Horticulture, CG

Production trends of major spices in Chhattisgarh:

Table 4 showed that the area and production of spices is gradually increases from 2013-14 to 2017-18 then decreases continuously from 2018-19 to 2022-23. The maximum area and production of spices decreases during the year 2019-20 due to Covid-19 pandemic.

As per commodity the area of ginger increases continuously from 2013-14 to 2018-19 (10421 ha to 12715 ha) than decreases in 2019-20 (5129 ha) i.e. more than 50 percent as compared to previous year. Again area of ginger increases in 2020-21 (10118 ha) than continuously decreases from 2021-22 (9277 ha) and 2022-23 (9003 ha). The production of ginger was following the trends of area. Similarly, the area and production of coriander increases during 2013-14 to 2018-19. The minimum area and

production reported during 2019-20 (8048 ha & 23501 MT) than again increases area and production up to 2022-23 (14985 ha & 59682 MT). The area and production of chilli was fluctuated year by year and ultimately decreases in year 2022-23 (37758 ha to 10566 ha) and (263204 MT to 66066 MT)]. The area and production of garlic was decreases during 2013-14 to 2015-16 (4298 ha; 23101 MT to 3779 ha; 20621 MT) than continuously increases from 2016-17 to 2022-23 (3995 ha; 22078 MT to 4865 ha; 27035 MT). The area and production of turmeric was fluctuated year by year and after 10 years 2022-23 maximum area reported (12195 ha) while maximum production during year 2014-15 (113347 MT). Nigella was cultivated in small areas and average of about 166 ha from 2013-14 to 2019-20. After 2019-20 area of nigella was 100 percent deducted. The area and

production of fenugreek was increases from 2013-14 to 2018-19 (3138 ha; 12710 MT to 4014 ha; 18479 MT) than gradually decreases and in 2022-23 area of fenugreek was 2505 ha and production was 14779 MT. The area of ajwain increases during last decade (140 ha to 182 ha) but production decreases (195 MT to 155 MT). The area and production of other spices are increases continuously.

Conclusion

As per 10 years data of major spices of Chhattisgarh state, the total area and production of spices was decreases. The area and production of ginger, chilli and nigella are decreases while the area and production of coriander, garlic, turmeric and other spices are increases during 10 years. Ultimately we say that the area of spices was decreases during 10 years due to lack of market facility and most of the farmers of Chhattisgarh cultivated rice in *kharif* because CG government purchase rice and give bonus to the farmers.

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