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Land Use Pattern in Bundi District (Rajasthan): A Comparative Analysis (2003- 2005 To 2021-2024)

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Abstract

Land is the most natural resource. It is gifted to us by nature humans uses the land in various forms. Bundi district has greater agriculture area and it's much economy is also based on agriculture. Where agriculture is the only means of livelihood for majority of the people. This research paper makes on attempt to study land use pattern in district Bundi. We studied about the changes in land use highlighting the extent to which land under forest, land put to non-agriculture uses, user & uncultivated land, cultivable waste, fallow land & net sown area have affected the there is a phenomenal increasing population & urbanization. This study is based on secondary data. Such types of studies are useful for future planning.

Keywords: Land Use Pattern, Agriculture, Uncultivated Land Net Sown Area, Fallow Land, Cultivable Land.

Introduction

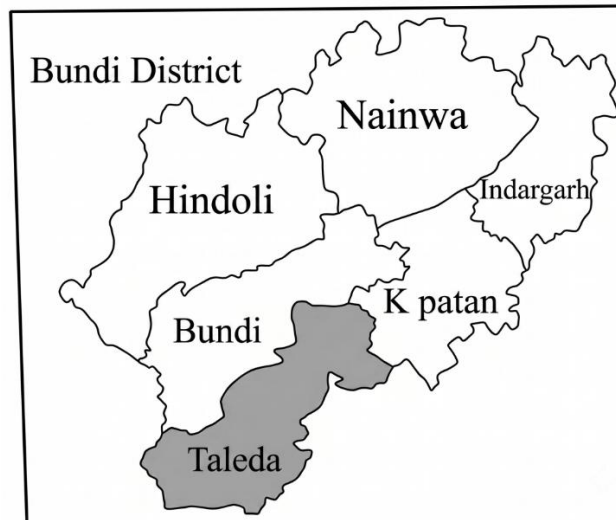
Land is a among utmost natural resource. It is important to use available land for various purposes with careful planning the highest proportion of land is used by humans in agriculture where most of population is depend on agriculture Bundi district also is most use of land the predominantly in agriculture present time. But in the present time due to rapid population expansion and increasing food requirement human beings started, using the land properly & improperly. As a result the soils fertility is decreasing on the other hand due to increasing industrialization & urbanization land, the area of agricultural and is also decrease. Agriculture land provides not only food grains to the teeming million of population and also raw material for industries. Therefore today its maintenance is mandatory at the ecological balance and land utilization is need to have strategic and effective management in the study region.

Study Area

Bundi district is situated south eastern part at the Rajasthan state. It's geographical location is between $24^{\circ} 59'$ to $25^{\circ} 53'$ North latitude & $75^{\circ} 19'$ E to $76^{\circ} 19'$ East longitude. It has total 5820 sq. km geographical area. In the north it is surrounded by the district at Tonk and Sawai Madhopur, in the south west by Chittorgarh, in the west by Bhilwara and in the east by the Kota district. There are 6 Tehsils named as Bundi, Keshorainpatan, Nainwa, Hindoli, Indargarh and Taleda. The district has 873 village. Bundi district has a population at 1110906 with literacy rate is 61.52%. It's climate is humid sub tropical. The mean annual rainfall is 72.4cm.



RAJASTHAN MAP



Objectives of the Study

The main objectives research paper are as follows:

- To study the general land use pattern in the district.
- To study the change in land use during the 2003-05 to 2021-24.
- To study the factors responsible for land use pattern change in the district.

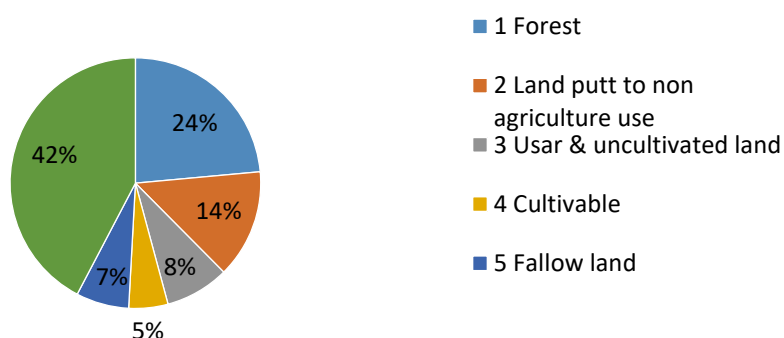
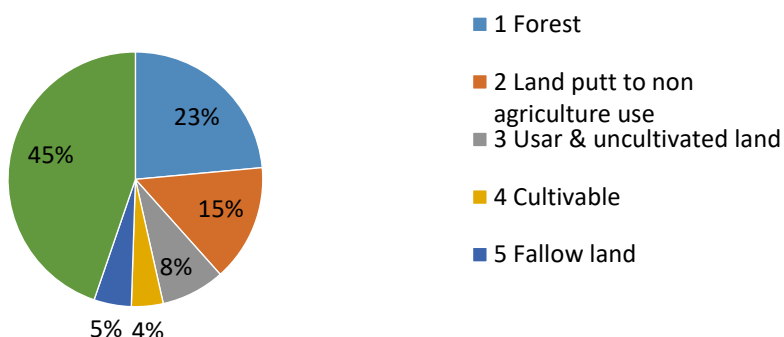
Methodology

In the present study the data related to land use collected from the directorate of economics & statistics of Bundi district.

The collected information as classified tabulated & mapped

Table 1: District Bundi Changes Land Used (2003-05 to 2021-24)

S. No.	Land Use	Year 2003-05	Year 2021-24	Difference in percentage	Growth 2003-205 to 2021-24
1.	Forest	24.40	24.30	+0.10	—0.41
2.	Land putt to non agriculture use	14.52	15.35	+0.83	+5.51
3.	Usar & uncultivated land	8.55	8.35	—0.2	—2.34
4.	Cultivable	5.24	4.16	—1.08	—20.61
5.	Fallow land	7.07	4.90	—1.17	—16.54
6.	New sown area	43.85	46.20	+2.35	+5.35

Year 2003-05**Year 2021-24**

- **Forest:** The forest are was found 24.40% to total geographical area in the year 2003-05,. comes to 24.30% area in forest in the year 2021-2024 there has been not much changes in this area in district land. Thge highest

percentage at forest has been found in Taleda. tehsil while lowest percentage observed in Keshorainpatan tehsil under in forest area.

- **Land to Non Agriculture Uses:** The category includes all lands occupied by settlements roads and other lands put to use other than agricultural. This land which can not be brought under cultivation about 14.52 area is land put to non agriculture uses in the year 2021-24 while this area has found 15.35% in this year 200-05 not much difference this category during 2003-05 to 2021-24. Bundi tehsil (+2.05%). Keshorainpatan (+0.41%), Hindoli (+0.16%) Indargarh (+0.05%). There was increase in this area in there tehsils due to increase population & urbanization.
- **Usar and Uncultivated Land:** In this type of land rocks, gravel & eroded land have been included. According to the year 2021-24 it is spread on 8.35% of area in district where as in the year 2003-05 its area was 8.55%. It is observed that the tehsil of Toleda has higher percentage (11.97%) the year in 2021-24 during the year 2003-05 from 2021-24 this land area has highest (+0.76%) increase in Hindoli tehsil.
- **Cultivable Waste:** Cultivable waste land is that category of land area which is not under cultivation at present time but can be used for agriculture purposes by reclamation. The cultivable waste land has goes down from 5.24% to 4.16% during the year 2021-24 this land decrease (—20.61%) from year 2003-05 in the district.

It is observed that cultivable waste land area is only increase in the Keshorainpatan (+0.11%) regional level & tehsil level during the year 2003-05 to 2021-24.

- **Fallow Land:** Fallow land is term of referring to a land which had been ploughed but his land is not capable for the cultivation at the present time. The fallow land includes in current fallow & old fallow land. The fallow land to total of geographical area 5.90% in 2021-24 which had decrease with 7.07% in 2003-05 during in these years fallow land. Decrease, 16.54% the district level while the lowest decreasing percentage found in Indargarh tehsil (—3.21%). The main reason is decreasing in this land area expansion is sources of irrigation in tehsil.
- **Net Sown Area:** The area cultivated with one crop comes under the net sown area. Bundi district net sown area was 45.85% in the year 2003-05 which has increase from 46.20% in year 2021-24 in these year the difference found teshil level in this category Nainwa (+20.98%), Bundi (+6.23%), Indargarh (+4.11%), Keshorainpatan (+2.39%) & Hindoli (—12.91%). It is observed net sown area has decreased only Hindoli tehsil while this land has increased in all tehsils during in these years (2003-05 to 2021-24)

Table 2: Tehsil wise changes in Land use Bundi District (2003-05 to 2021-24)

District/year	Area Under in forest	Land to non agriculture uses	Usar & uncultivated land	Cultivable waste	Fallow land	Net sown area
Bundi 2003-05	31.90	6.96	10.37	4.1	4.9	37.21
2021-2024	29.69	9.01	7.60	1.40	4.02	43.44
Difference in (%)	—2.21	+2.05	—2.77	—2.7	—0.88	+6.23
K.patan 2003-05	6.16	11.09	7.06	1.24	8.31	63.04
2021-24	6.01	11.50	6.17	1.35	6.59	65.43
Difference in (%)	—0.15	+0.41	—0.89	+0.11	—1.72	+2.39
Hindoli (2003-05)	23.36	5.33	7.33	7.44	6.62	49.09
2021-24	33.25	5.49	8.09	5.57	4.67	36.38
Difference in (%)	+9.89	+0.16	+0.76	—1.87	—1.95	—12.71
Nainwa (2003-05)	27.44	5.43	8.1	7.29	6.22	37.40
2021-24	16.17	4.89	5.85	4.91	5.39	58.38
Difference in (%)	— 11.27	—0.54	—2.25	—2.38	—0.83	+20.98
Indargarh (2003-05)	14.5	8.2	7.78	4.56	14.33	46.29
2021-24	15.93	8.25	7.06	3.33	11.12	50.4
Difference in (%)	+1.43	+0.05	—0.72	—1.23	—3.21	+4.11
Taleda (2021-24)	36.40	5.76	11.97	2.87	5.89	30.51

Conclusion

In the study it is observed the net sown area increased between 2003-05 and 2021-24 it is affected by suitable & favorable conditions. But the land put to non agriculture use land increase (+2.45%) in district and Hindoli tehsil had been founded only 39.92% net Sown area to the total geographical area and in (2021-24) usar uncultivated land also increased. So we should need to better management of land use in Bundi district.

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