

# Disabled Population in Haryana 2011: A Geographical Analysis

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**Abstract:** The present study has conducted on Haryana at district level in 2011. The study has been carried out to find out the pattern of disable population in Haryana by their disabilities such as seeing, hearing, speech, movement, mental retardation, mental illness, multiple disability and other disabilities. Data has been taken from Census of India 2011. Data has analyzed with the help of simple statistical techniques, tables and graphs and pattern has been shown with the help of ARC GIS 9.3 software. The result shows that there are 82,702 persons are suffering from seeing, 1,15,527 persons are suffering from hearing problem, 21,787 persons are suffering from speech problem, 1,16,026 persons suffering from movement problem, 30,070 persons are suffering from mental retardation, 16,191 persons are suffering from mental illness and 47,250 persons are suffering from Multiple Disability. Faridabad has the highest persons with seeing and hearing disability, persons with speech disability in Hisar, persons with movement and Mental Retardation in Karnal, persons with mental illness and multiple disabled in Yamunanagar stands at first.

**Keywords:** Disabilities, Pattern, ARC GIS 9.3.

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## Introduction

Human is an incredible resource of earth. Any disability in his physical or mental ability highly affects his functions as well as development of that region from which they belongs. So, it becomes very important to study about these persons and find out their pattern. It helps to make policies for these peoples. Disability is the consequence of an impairment that may be physical, cognitive, mental, sensory, emotional, developmental, or some combination of these. A disability may be present from birth, or occur during a person's lifetime.

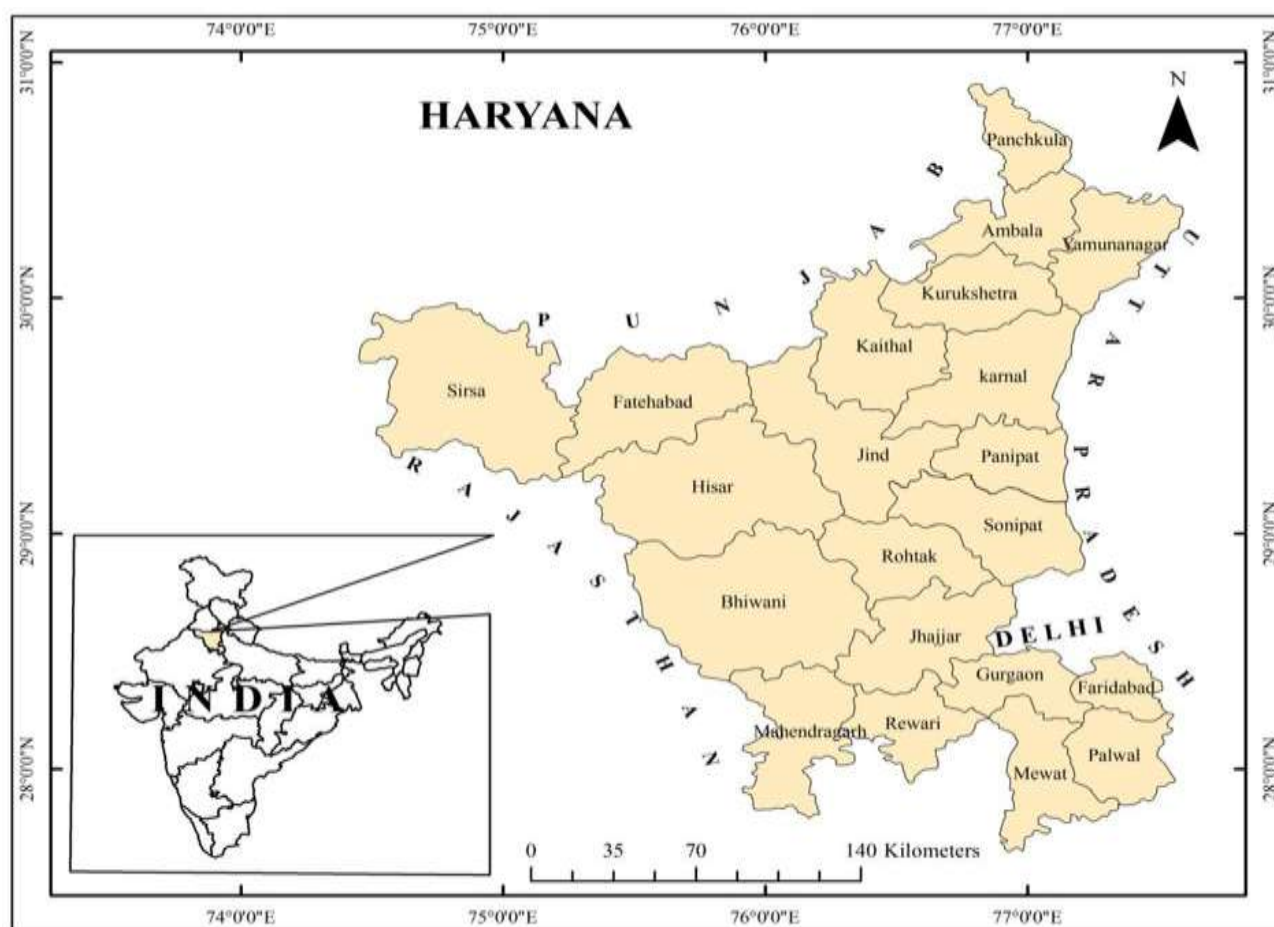
According to Oxford Dictionary A physical or mental condition that limits a person's movements, senses, or activities. A disability is an umbrella term, covering impairments, activity limitations, and participation restrictions. Impairment is a problem in body function or structure; an activity limitation is a difficulty encountered by an individual in executing a task or action; while a participation restriction is a problem experienced by an individual in involvement in life situations (WHO 2012).

Thus disability is a complex phenomenon, which is the result of physical and mental impairment. In 2011, in India 2,68,10,557 (1,49,86,202 male and 1,18,24,355 females) persons are belonged to disabled population. The percentage share of disabled population in India is 2.13 per cent in 2001, and it increased to 2.21 percent in 2011. In Haryana 1.9 percent population belongs to disabled population in 2011.

## Study Area

The Present study has been conducted on Haryana state. Map 1 shows the location of Haryana in India. Haryana is a landlocked state in northern India. It is bounded on the north-west by the state of Punjab and the Union Territory of Chandigarh, on the north and north-east by the states of Himachal Pradesh and Uttarakhand, on the east by the state of Uttar Pradesh and the Union Territory of Delhi, and on the south and south-west by the state of Rajasthan. It is located between 27°37' to 30°53' N latitude and between 74°28' and 77°36' E longitude. The name of Haryana is derived from Hari (the Hindu god Vishnu) and ayana (home), means "The Abode of God". The total geographical area of Haryana is 44,212 square kilometre. Haryana is a small State with 2.53 Lakh (Census of India 2011) populations. For administrative purposes, the State has been divided into 21 Districts.

**Map 1: Location map of Haryana**



**Figure 1**

### **Objectives**

The study has been carried out to fulfil following objectives:

- ❖ To find out the district pattern of Disabled population in Haryana in 2011.
- ❖ To find out the district wise disabled population by their disabilities in Haryana in 2011.
- ❖ To find out the district-wise percentage share of disabled population in Haryana in 2011.

### **Data Source and Methodology**

This study covers Haryana at district level and based on secondary data, collected from Census of India 2011 and Statistical Abstract Haryana 2011-12. Data has been analysed with the help of general statistical techniques and presented with the help of appropriate graphs and tables. ARC GIS 9.3 software is also used to represent the geographical pattern of disabled population in Haryana.

### **Pattern of Disabled Population in Haryana in 2011**

Nearby 2 percent (1.9 percent) population of Haryana falls under the category of disability. 16.57 percent persons are influence by seeing problem, 23.15 percent persons with hearing problem, 4.37 percent have speech problem, 23.25 percent have affected with movement problem, 6.02 percent are affected with mental retardation and 3.24 percent are affected with mental illness. 47,250 persons are affected with multiple disabilities. Table 1 represents district-wise disabled population according their disabilities in Haryana in 2011.

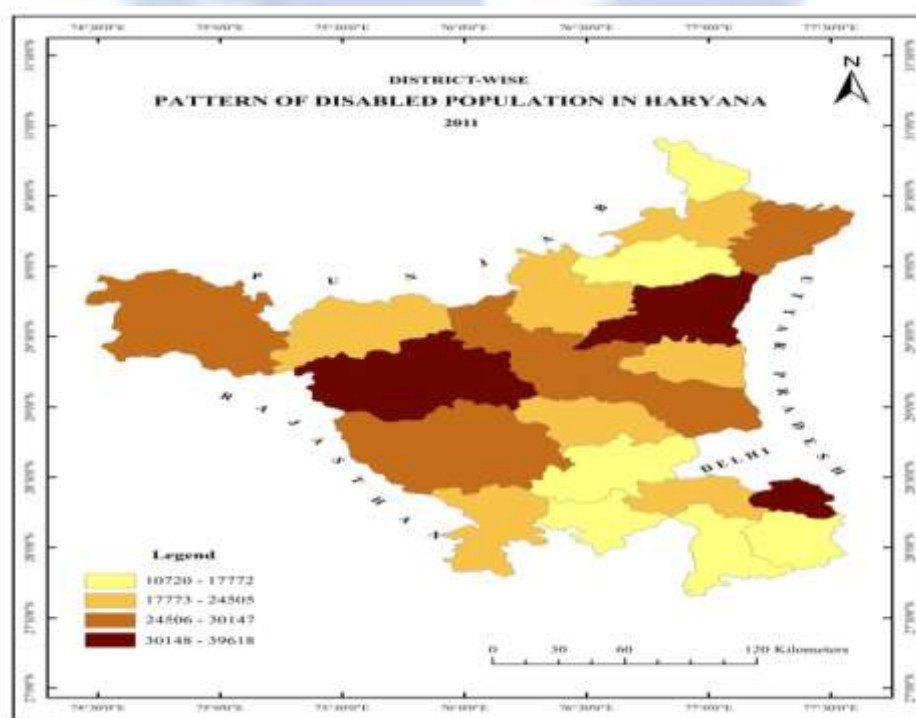
**Table 1: District-wise disabled Population in Haryana According to their Disabilities in 2011**

District	Seeing	Hearing	Speech	Movement	Mental Retardation	Mental Illness	Others	Total	Multiple Disability
Panchkula	1798	2553	494	2378	744	415	2338	10720	894
Ambala	3305	5248	890	4850	1594	931	5112	21930	1919
Yamunanagar	5386	4922	1036	6681	1917	1150	5727	26819	3823
Kurukshetra	2129	2342	755	5011	1291	755	3466	15749	1700
Kaithal	4504	4463	1058	6451	1349	904	5776	24505	2527
Karnal	5825	10090	1366	7326	2190	997	9487	37281	2579
Panipat	3013	5816	1038	4636	1129	791	6187	22610	1836
Sonipat	4817	8291	1141	6165	1675	765	7293	30147	3178
Jind	4906	5818	1072	6216	1448	907	6145	26512	2491
Fatehabad	3333	3417	964	6196	1470	830	5203	21413	2448
Sirsa	4213	5802	1252	7348	1684	947	7260	28506	2675
Hisar	5961	8991	1733	7258	2101	1096	9631	36771	3230
Bhiwani	4502	6185	1565	6603	2045	917	6371	28188	2667
Rohtak	3931	4340	927	5169	1329	790	4771	21257	2276
Jhajjar	2550	3475	882	4189	1045	588	4434	17163	1565
Mahendragarh	4356	3260	911	5865	1330	591	3469	19782	2515
Rewari	2595	2691	753	4637	1084	561	2349	14670	1700
Gurgaon	3432	5350	883	4259	1193	573	5108	20798	1778
Mewat	3286	3858	931	4231	904	409	3294	16913	1723
Faridabad	6755	12819	1413	6241	1739	893	9758	39618	2354
Palwal	2105	5796	723	4316	809	381	3642	17772	1372
Total (Haryana)	82702	115527	21787	116026	30070	16191	116821	499124	47250

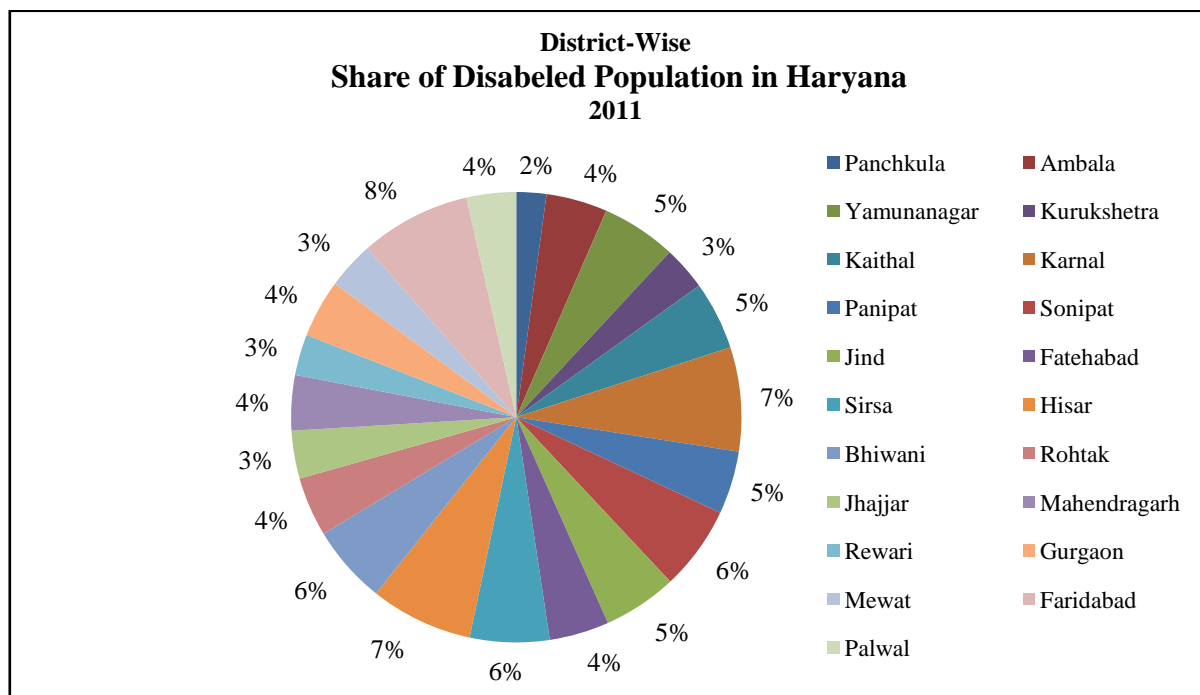
Source: Census of India 2011

Map 2 clearly shows that Faridabad, Hisar and Karnal have first, second and third number in disabled population. These three districts have 22.77 percent disabled population

Map 2: Pattern of Disabled Population in Haryana in 2011 of total disabled population of Haryana. Panchkula have the lowest disabled population after Panchkula, Rewari, Kurukshetra, Jhajjar, Mewat, Palwal stands.



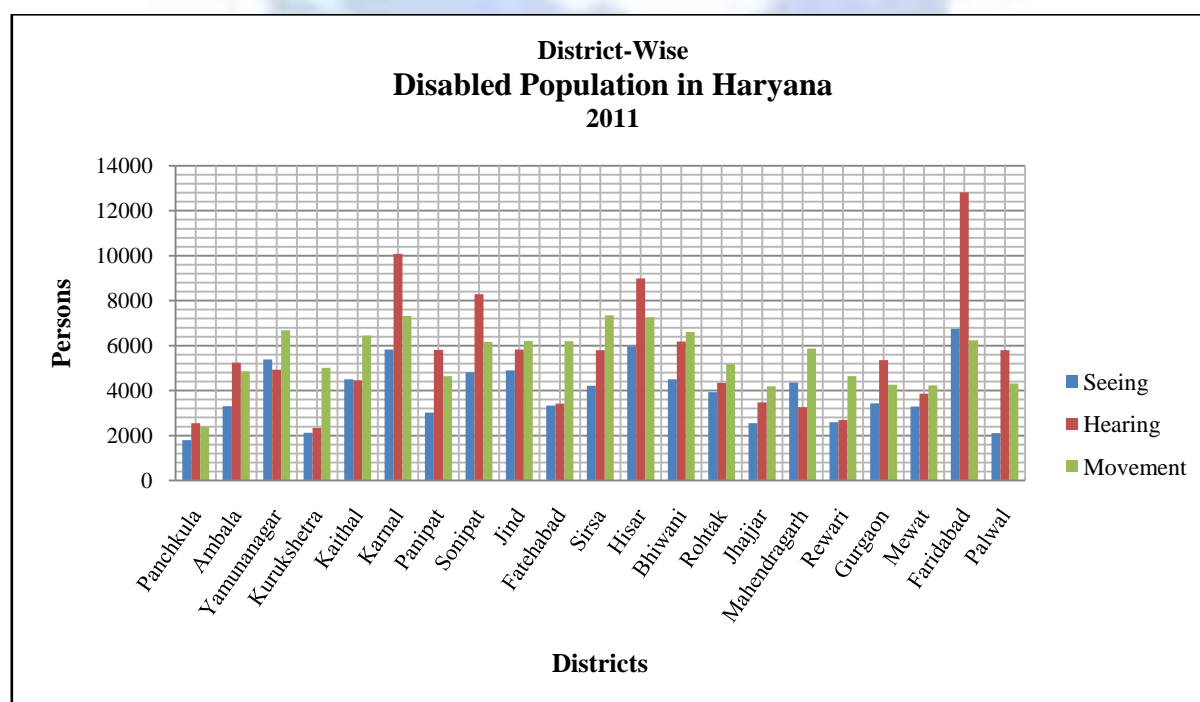
**Figure 2: District-wise percent share of disabled Population in Haryana in 2011**



**Figure 3 shows the district-wise percent share of disabled population in Haryana in 2011. It clearly shows that Faridabad have highest share (8 percent) in disabled population in Haryana.**

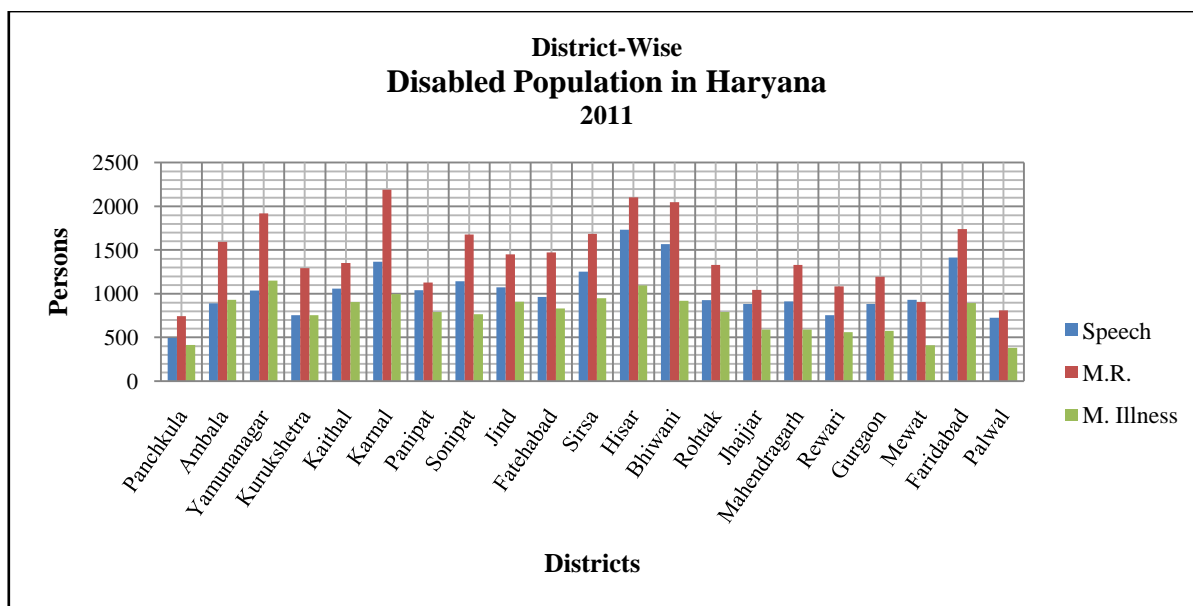
Figure 3 shows district wise disabled population (seeing, hearing & movement) in Haryana in 2011. It clearly shows that Faridabad stand first in persons with seeing disability where as Panchkula stands at last. In hearing disabilities, Feridabad stand first whereas stands at last. In movement disability Sirsa stands first and Panchkula at last.

**Figure 3: District-wise Disabled (Seeing, Hearing & Movement) Population in Haryana in 2011**



**Figure 4: District-wise Disabled (Speech, M.R. & Mental Illness) Population in Haryana in 2011**





**Figure 5**

Figure 4 represents the clear picture of the disabled (speech, mental retardation & mental illness). It clearly shows that Hisar stands in first in persons disabled with speech problem and Panchkula at last. In persons with mental retardation population Karnal stands at first and Panchkula stands at last. Persons with mental illness population Yamunanagar stands at first and Palwal at last.

### Conclusion

The percentage share of disabled population in India is 2.13 per cent in 2001, and it increased to 2.21 percent in 2011. In Haryana 1.9 percent population belongs to disabled population in 2011. Faridabad, Hisar and Karnal have first, second and third number in disabled population. These three districts have 22.77 percent disabled population of total disabled population of Haryana. Faridabad stand first in persons with seeing disability where as Panchkula stands at last. In hearing disabilities, Feridabad stand first whereas stands at last. In movement disability Sirsa stands first and Panchkula at last. Hisar stands in first in persons disabled with speech problem and Panchkula at last. In persons with mental retardation population Karnal stands at first and Panchkula stands at last. Persons with mental illness population Yamunanagar stands at first and Palwal at last.

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