RESEARCH PAPER	Geography	Volume : 4 Issue : 10 October 2014 ISSN - 2249-555X
CLASS & HOLD	Spatial Patterns of	Sex Ratio Among In-Migrants To Punjab (1991-2001)
KEYWORDS		
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ABSTRACT Punjab has the second lowest sex ratio of 876 females per 1000 males in the country as per 2001 census. Migration is perceived normally as a sex selective phenomenon and in patrilineal societies males are more prone to migrate, disturbing the sex composition not only of the source region but also of the areas of destination. The recent in-migration to Punjab, however, shows a contrary trend in which there is an excess of females over males. This paper attempts to analyze the spatial patterns of sex ratio of in-migrants to Punjab in 1991 and 2001 using district wise census data. There has been a general decline in the sex ratio of the state and that among the in-migrants. The in-migrant's sex ratio has declined from 1432 in 1991 to 1112 in 2001. This decline in the sex ratio is largely due to male selective in-migration to the urban areas of state from Uttar Pradesh and Bihar.

Introduction

Sex Ratio is one of the basic attributes of population having a strong bearing on its demographic, social and economic characteristics. It affects directly the incidence of birth death, and marriage; it appears as a differential in migrant status, occupational distribution and in virtually all other population characteristics. It is also used as a basis for distinction in almost every aspect of social structure (Gosal, 2001).

With 876 females per 1000 males, as in 2001, Punjab had one of the lowest sex ratios in the country. The state has been an area of very low sex ratio throughout the last century (Gill & Singh, 1985, p.34). The deficiency of females in Punjab's population is in consonance with the deficiency of females in Indian population. This deficiency has to be viewed in the historical context of the country's comparatively higher female mortality at all ages. The general neglect of female child and high birth rate contribute to the high female mortality at childhood and during reproductive period (Bhutani, 1999, p.158). The practice of female infanticide in the past (Premi, 1994, p.41, 42) and the cognizant foetocide at present (Gill, 2000, p.80) have also contributed to low level of sex ratio.

Sex ratio of a place is determined by three factors:

- (i) sex ratio at birth;
- (ii) differential mortality of two sexes; and
- (iii) sex selectivity in migration.

The continuous large deficit of females has been mainly attributed to higher female mortality. However, more recently differential sex selectivity in migration seems to be primarily responsible for shaping out spatial patterns of sex ratio in the state at the sub-regional level (Gill, 2000).

In 2001 the Census of India reported 1.7 million in-migrants, classified on the basis of place of last residence, from other states and union territories of India, to Punjab. These in-migrants were 7.18 per cent of the total population of the state, comprising 47 per cent males and 53 per cent females. Their proportion was only 4.11 per cent in the rural areas whereas in the urban areas they were 13.17 per cent of the total urban population of the state. The in-migrants to Punjab have been showing an excess of females from 1981 onwards (Table 1). However, the total and local population is showing shortage of females. This excess of females in Indian scenario, that too particularly in case of Punjab which has a long history of lower sex ratios needs to be studied.

Table 1	
Punjab: Trends of Sex Ratio,	1981-2001

	Females per	Females per Thousand Males							
Year	In-migrants	Total Population	Local population*						
1981	1179	879	864						
1991	1432	882	857						
2001	1112	876	860						

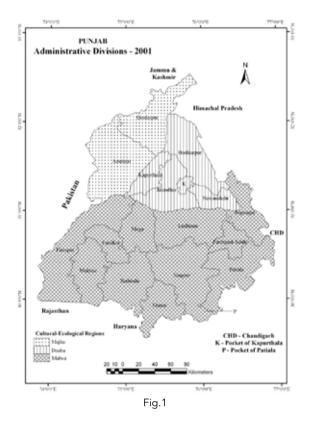
* Local population is Total Population minus in-migrants

Source: Computed from:-

- Census of India (1981): Table D 2, Migration Tables of Punjab, Series-17, Part V-A & B, Director of Census operations, Punjab.
- (ii) Statistical abstract of Punjab (1991): Publication no. 687, Economic and statistical Organisation, Government of Punjab (India).
- (iii) Census of India (1991): Table D 2, Migration Tables, Punjab, data available on CD.
- (iv) Census of India (1991): Primary Census Abstract, Punjab, data available on CD.
- (v) Census of India (2001): Table D 2, Migration Tables, Punjab, data available on CD.
- (vi) Census of India (2001): Primary Census Abstract, Volume 1, Punjab, data available on CD.

Study Area

Punjab is one of the most prosperous agricultural states of India. It is located in the north-western part of the country. The study area lies within the latitudinal extension of 29° 30′ north to 32° 32′ north and the longitudinal extension of 73° 55′ east to 76° 50′ east (Fig. 1). It is divided into three cultural-ecological regions of Majha, Doaba and Malwa.



Objective

The main objective of the present study is to analyse the patterns of spatial distribution of sex ratio of the in-migrants to Punjab in 1991 and 2001.

Data and Methodology

The main sources of data for the study are the Migration Tables of Punjab brought out by the 1991 and 2001 Censuses. References have also been made to the earlier Censuses to identify trends in recent decades. The data has been processed, tabulated and represented in the form of tables and choropleth maps to identify and describe spatial patterns of sex ratio of in-migrants to Punjab.

Discussion and Results

The rural-urban differential in sex ratio is much lower in doaba region than in majha and malwa. However, this is true only for the in-migrants. From doaba region there is a long history of male selective emigration to foreign countries from rural areas (Mehta, 1990) and in-migration from other parts of the country to the two major urban centres of the region viz. Jalandhar and Phagwara (Table 2). **Table 2**

Punjab: Folk Region wise sex ratio, 19	Punjab:	Folk Re	gion wise	sex ra	atio, 199 [.]	1
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		Females per	Females per Thousand Males					
Cultural- Ecological Regions	Place of Residence	In-migrants	Total Popula- tion	Non in- migrant popula- tion*				
	Total	1801	885	865				
Majha	Rural	2544	886	868				
	Urban	1370	882	859				
	Total	1107	906	897				
Doaba	Rural	1286	915	905				
	Urban	978	882	872				

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	Total	1472	873	841	
Malwa	Rural	2688	879	839	
	Urban	976	859	844	

* Non in-migrant Population is Total Population minus Inmigrants

Source: Computed from:-

- Census of India (1991): D 2 Table, Migration Tables, Punjab, data available on CD.
- (ii) Census of India (1991): Primary Census Abstract, Punjab, data available on CD.

According to 1991 Census, there were on an average 2306 females per thousand males among the in-migrant population in rural areas of Punjab as against 1014 in urban areas. In the local population (Total Population – Inmigrants), with a sex ratio of 859 in rural areas and 852 in urban areas the rural-urban differential was quite narrow. The rural-urban differential in sex ratio varies from 2703 females per thousand males in Bathinda district to -83 in Jalandhar district. The rural-urban differential is more in four districts (Bathinda, Firozpur, Patiala and Sangrur) of Malwa region, whereas it is least in the two districts (Kapurthala and Jalandhar) of Doaba region. In Jalandhar district, the sex ratio is higher in urban areas than in villages (Table 3).

Table 3 Punjab: Sex Ratio, 1991

	Tetal Pepulation			,	ural Popul	acion	U	In- migrants		
	Tetal	In- migrants	Non in- migrants	Total	la- migrants	Non in- migrants	Tetal	In- nigrants	Non in- migrants	R-U Differentia
Punjab	582	1432	857	855	2306	879	548	1014	872	129
Bathinda	840	2911	121	551	3950	\$25	\$75	1247	5.6	270
Faurpag	101	2112	171	106	1552	153	857	1290	155	291
Parala	880	2135	814	874	3370	799	895	1275	853	209
Sangriar	870	1998	845	867	3089	\$39	881	1116	867	197
Ourdapper	903	2467	169	905	2780	\$72	\$85	1855	561	\$\$
Ruppagar	\$70	1274	121	\$70	1818	517	\$70	954	\$40	56
Fandkot	142	1911	457	\$\$0	2396	\$60	\$\$7	1617	\$49	75
Hothiarpur	919	1397	900	925	1683	902	\$90	927	\$16	75
Amritaar	873	1339	863	871	1936	865	\$76	1214	858	72
Luchiana	844	754	853	879	1015	\$76	812	722	828	29
Kapurthala	896	752	905	910	\$08	913	\$57	713	\$77	9
Jalashar	199	1064	192	907	1005	905	\$85	1048	567	.5

Source: Computed from:-

- Census of India (1991): D 2 Table, Migration Tables, Punjab, data available on CD.
- (ii) Census of India (1991): Primary Census Abstract, Punjab, data available on CD.

In 2001, there were on an average 1828 females per thousand males among the in-migrant population in rural areas of Punjab as against 830 in urban areas. Seven districts have a sex ratio of less than the state average while six districts recorded a sex ratio below 1000. The rest of the districts witnessed a sex ratio higher than the state average. The rural-urban differential in sex ratio was 998 in 2001. On the other hand in the local population, the rural-urban differential was quite narrow. The rural-urban differential in sex ratio varies in case from 2456 females per thousand males in Mansa district to -166 in Nawanshahr district. The rural-urban differential is more pronounced in six districts (Mansa, Patiala, Bathinda, Firozpur, Sangrur and Muktsar) of Malwa region, whereas it is least in the Nawanshahr district of Doaba region (Table 4).

Table 4 Punjab: Sex Ratio, 2001

State Dutriet	Total Population			Rerol Population			Urbas	In-		
	Total	La.	Local	Total	In migrants	Lord	Total	1a- migrants	Local	R.1' Differential
PUNJAB	878	1112	1840	890	1878	964	849	810	812	998
Marcia	80.9	1118	800	879	4303	897	#82	1.845	818	3454
Pecialu	1464	1799	792	835	1151	776	\$79	1082	887	2069
Bathleda	879.	4125	8.52	872	3026	825	\$64	1527	821	1796
Farmina	855	30.58	\$33	194	3,738	84.4	859	1001	#05	3619
Sanghir.	801	1369	\$87	811.	2.81	8.56	\$10.	1111	810	11114
10xX1044	891	2736	843	899	3042	845	TTL.	1948	825	3091
Chue discourt	855	4999	830	.897	2486	858	870	2048	法 88	1964L
11 cold arguns	923	1219.	912	946	1478 -	#25	491	.95	890	391
American	126	914	875	883	181	081	941	1011	165	3.70
Royman	871	1112	#50	870	1406	122	474	929	ILL .	569
Maga	857	1196	\$3.)	885	1146	185	\$83	911	881.	815
Enterheiten Sahilte	1.854.	831	\$16	861	963	157	818	754	#35	308
K-sporthala	828	.784	\$977	940	833	#21	843	928	304	130
Live Berners	824	369	\$25	879.	6.0	890	78.8	954	DAO.	118
Inland hat	1.88.7	798	892	-912	849	924	800	701	879.	92
Factorizer	1111	1488	862	9.91	1947	ML	347	1462	827	35
Non-mericalia	914	847	913	914	6.56	118	941	492	966	-165

Source: Computed from:-

- Census of India (2001): D 2 Table, Migration Tables, (i) Punjab, data available on CD.
- (ii) Census of India (2001): Primary Census Abstract, Punjab, data available on CD.

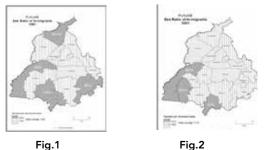
There has been a general decline in the sex ratio of the state and that of the in-migrants. The in-migrant's sex ratio has declined from 1432 in 1991 to 1112 in 2001. The state registered a decline of 320 points. Four districts recorded a sex ratio below the state average whereas five districts recorded sex ratio above the state average. Except for Kapurthala, Faridkot and Firozpur districts of 1991 there has been a decline in the sex ratio of in-migrants varying between 122 to 473 females per thousand males. In case of Kapurthala, Faridkot and Firozpur districts the increase in sex ratio was 12 and 6 respectively. These districts registered a marginal improvement in their sex ratios. The maximum decline of 473 points was observed in Gurdaspur district. This decrease was more in its urban population (381) than in the rural population (299). Another district which experienced a substantial decrease of 431 points was Amritsar in which the decline was more in rural areas (551) than urban areas (399) (Table 5).

Table 5	
Punjab: Change in Sex Ratio of In-migrants,	1991-2001

	-									
	Te	dal Sex	Ratio	R	tral Sea	Ratio	Urban Sex Ratio			
	1991	2001	Change	1991	2001	Change	1991	2001	Change	
PUNJAB	1432	1112	-320	2306	1525	-478	1014	\$30	-153	
Amritear	1339	908	-431	1936	1385	-551	1214	815	-399	
Bathinda	2311	2189	-122	3950	3506	-444	1247	1355	109	
Faridicot + Firospur	2056	2062	6	3008	2740	-267	1397	1517	120	
Gurdaspur	2467	1993	-473	2780	2480	-299	1895	1515	-381	
Jalandhar + Hoshiarpur	1196	945	-251	1403	1153	-249	1046	812	-234	
Kapurhala	752	764	12	808	\$57	49	713	728	15	
Ludhiana + Patiala	1167	\$23	-344	2466	1614	-852	843	645	-198	
Ruppagar	1274	1119	-155	1818	1498	-321	954	929	-25	
Sangrur	1898	1569	-329	3089	2257	-832	1116	1141	25	

Source: Computed from:-

- Census of India (1991): Table D 2, Migration Tables, (i) Punjab, data available on CD.
- Census of India (2001): Table D 2, Migration Tables, (ii) Punjab, data available on CD.



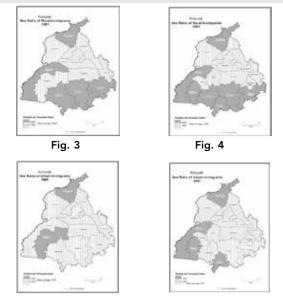
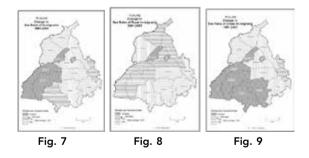


Fig. 5

Fig. 6

The spatial pattern of change in sex ratio shows two distinct regions: (i) areas which registered an increase in their sex ratio; and (ii) areas which registered a decrease in their sex ratio. The areas of increase consisted of Kapurthala, Firozpur and Faridkot districts. All other districts of Punjab registered a decrease. The region of decrease can be further sub-divided into three areas: (a) Bathinda and Rupnagar districts which witnessed a decline of 122 and 155 points respectively; (b) Sangrur, Jalandhar and Hoshiarpur districts which registered a decline of 340 to 170 points; (c) Gurdaspur, Amritsar, Ludhiana and Patiala districts which registered maximum decline (Fig 7).



The rural areas of the state experienced maximum decline in the sex ratio of in-migrant population. It declined by 478 points from 2306 in 1991 to 1828 in 2001 (Table 6). Only Kapurthala district registered an increase in its rural in-migrant sex ratio. All the other districts of the state registered a decline varying from 249 to 852 points. The spatial pattern of change in rural sex ratio shows four regions: Kapurthala district where sex ratio increased from 808 to 857 females per thousand males. The other three regions depicted a decrease in sex ratio as compared with 1991 values. The maximum change of 600 and more than 600 points was observed in three districts of Malwa region viz. Sangrur, Patiala and Ludhiana (Fig 8).

Quite contrary to the rural scenario the urban areas of the state witnessed large changes in 2001. Apart from Kapurthala four districts in the Malwa region witnessed an increase in the sex ratio of in-migrant population. All other districts witnessed a decline. The decline ranged from 25

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points in Rupnagar to 399 points in Amritsar. The two districts of Majha region witnessed drastic change in the sex ratio of its in-migrant population. It can be partly attributed to male selective out-migration from this region due to distress agricultural conditions and large scale in-migration of male population to the upcoming million city of the region viz., Amritsar. The spatial pattern of change for urban areas reveals four distinct regions. The area which lost only 25 points in 2001 was Rupnagar district. This was the only district which witnessed a change of points in double figures, whereas all other districts viz. Hoshiarpur, Jalandhar, Ludhiana and Patiala registered the change in three figures.

The sex ratio in rural areas has declined tremendously as compared to the urban areas. The recent improvement in urban sex ratio is mainly connected with: (a) growing incidence of family migration as well as of male followed by female migration as against excessively male-selective migration in the past and (b) more male migrants arrived in the state than females. This statement holds true when seen against the backdrop of manifold increase in the number of male in-migrants from Bihar.

Conclusions

The sex ratio of in-migrants is more than that of the local population of the state. There is a considerable excess of females over males among the in-migrants. Thus, in-migration to Punjab is improving the already low sex ratio of the state.

The rural-urban differential in sex ratio is much lower in doaba region than in majha and malwa region.

The sex composition of the in-migrants in 1991 is much higher than that of the general population of Punjab. Only in two districts the sex ratio of in-migrants is below the sex ratio of total population and it is due to more male-selective in-migration in these districts.

There is a significant rural-urban differential in the sex ratio, largely because of female migration due to marriage from the adjoining states and migration of male in-migrants from villages of Punjab to towns/cities in search of better jobs and leaving their families behind in the rural areas

The higher cost of living, scarce and expensive housing facilities and inadequacy of common amenities in large growing cities put some restrictions on family migration. The population size of cities, their function, nature of industries, employment opportunities for females and the general social conditions are the factors which have been associated with the rural-urban differential in sex ratio and spatial variations therein.

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The districts which share its boundary with some neighbouring state have more female in-migrants due to marriage. In fact all the districts bordering Haryana have very high or high sex ratio. Whereas the inner districts like Ludhiana, Fatehgarh Sahib, Nawanshahr, Kapurthala, Jalandhar and Amritsar which are not in close proximity to any neighbouring state have more male in-migrants particularly from Uttar Pradesh and Bihar.

Apart from the socio-economic determinants of rural-urban differential in sex ratio of the in-migrants as well as remaining population, the cultural factors have played an equally important role.

The above observations with regard to rural-urban sex ratios of the in-migrants in Punjab present a picture which is quite contrary to what is prevalent in the developed countries of the world where urban population is generally characterized by excess of females.

In 2001 the sex ratio of the in-migrants declined considerably in the urban areas due to large scale male in-migration to the urban areas of the state. The rural-urban differences in sex ratios were more in 2001. A comparison of data for 1991 and 2001 shows large numbers of females enumerated in the rural areas although their proportion had declined

There has been a general decline in the sex ratio of the state as well as that of the in-migrants during the decade 1991-2001. The sex ratio in rural areas has declined more as compared to the urban areas.

The recent improvement in urban sex ratio is mainly connected with: (a) growing incidence of family migration as well as of male followed by female migration as against excessively male-selective migration in the past and (b) more male migrants arrived in the state than females.

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