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SOCIAL DEVELOPMENT RANKING OF DISTRICTS OF PAKISTAN

SOCIAL POLICY AND DEVELOPMENT CENTRE

Social Development Ranking

of Districts of

Pakistan

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1. INTRODUCTION

International comparisons reveal the lack of correlation between the ranking of countries in terms of levels of economic and social development. Pakistan is an example of a developing country with relatively high per capita income but extremely poor social/human development indicators. The objective of this paper is to examine in the spatial context for Pakistan at the district level how strong the relationship is between levels of economic and social development. This will help us in particular in identifying districts which have a low ranking within the country in terms of the level of social development. These districts can be targeted for special development allocations within the SAP to reduce the extent of regional disparity in terms of access to basic services like primary education, health, water supply, etc. If it emerges that the socially underdeveloped districts are also economically backward then the underlying reason may be the absence of a strong private sector or the absence of a local tax base or income affordability to finance the provision of these services.

Earlier research at the district level in Pakistan by Pasha, Mallik and Jamal [1990] has, in fact, demonstrated that education and housing indicators are highly correlated with the overall level of development. Districts which have a relatively developed/underdeveloped education sector in terms of literacy and primary enrollment rates generally appear to have higher/lower ranking in terms of the composite level of development. Although it is difficult to come to any definitive conclusions about the direction of causality this finding tends to substantiate the view that regions of the country which have made greater progress are endowed with higher levels of human development.

The paper is organised as follows: Section 2 gives the choice of social development indicators. Section 3 gives the methodology for derivation of the composite indicator of social development. Section 4 gives the resultant ranking of districts while Section 5 presents the profile of each province in terms of the level of social development. Finally, in Section 6 are given the conclusions.

2. CHOICE OF INDICATORS

The choice of development indicators at the district level is governed by a number of considerations. First, an attempt has been made to achieve as wide a sectoral coverage as possible. As such indicators have been selected to highlight development of sectors like education, health, water supply. Second, two alternatives were available regarding the choice of indicators: we could concentrate on measuring the consequences of development or the level of development inputs. Greater reliance in this study is on the latter primarily because of the lack of districtwise data on the former. For example, if the output approach had been adopted to measure development of the education sector, the indicators used would have been, for example, school graduates as a percentage of the labor force both in stock and inflation. But since data is not available on this magnitude the alternative chosen is to quantify the level of inputs in the form of teachers, schools, hospitals, beds, etc. Therefore, while there may he some loss of precision in the quantification of the level of development, the results are perhaps more useful and operational in character from the planning view point.

The lack of data has not only constrained the approach to the construction of social development but it has limited the number of indicators. Nevertheless, it has been possible to identify 11 indicators relating to health, education and water supply. Diverse sources of data have been used for quantifying the indicators. Firstly, data has been taken from the last census of population. housing survey by the FBS and development statistics of the provincial governments. Secondly relevant data has also been collected from other published documents of the Federal Provincial governments and FBS.

Described below are the social indicators chosen in each sector. Education

Both stock and flow measures have been defined for the education sector. The stock measure is the literacy rate by gender which indicates the level of literacy among the population aged ten years and above in a district which has been taken from district census report of 1981. Measures of flow of output from the education sector relate to enrollment rates at the primary and secondary level (male and female separately). Information regarding enrolments at different levels has been taken from development statistics of the province. The relevant school age going population in each district have been projected on the basis of intercensal growth rates for purposes of deriving the enrollment rates. However, the distribution of census population has been adjusted according to newly formed districts which has been reported in the publication, Administrative Units of Pakistan, a publication of the Population Census organisation.

Health

Three types of indicators of development of the health sector have been defined. I he first relates to health personnel i.e doctors and nurses per 10,000 population, second, to hospital and rural health centre beds per 1,000 population while the third to number of patients treated in relation to total population. The last indicator is essentially an output measure. However, as the information regarding the number of district-wise doctors and nurses for the year 1991/92 was not available for Punjab. Therefore, it has been estimated on the basis of extrapolation of figures given in Health Statistics, a publication of provincial governments.

Housing

Only one indicator has been used to measure the level of social development, that is access to water supply. The particular indicator use is percentages of households with inside water connections. As the data on water supply was not available for the latest year the analysis has been done on the information reported in the Housing Survey of 1989 carried out by the FBS.

Magnitude of indicator for each district is given in Table A-1 Ninety four districts and eleven indicators have been included in the analysis. This includes 34 districts from Punjab 15 from Sindh. 20 from NWFP and 25 from Balochistan. Out of the eleven indicators. 6 relate to education. 4 to health and 1 to water supply.

Two summary measures, the mean and the variance, have been calculated to describe and compare the distributions of the indicators. By doing so we derive the extent of regional variation in social development. It needs to be pointed out that the means of the various indicators do not correspond to the national values of these indicators. This is because they are simple averages and not averages weighted by the population or area of the district depending on the indicator.

3. METHODOLOGY OF MEASUREMENT In the literature on regional development, a number of techniques have been used to reduce the dimensions of the complex multi variate problem associated with the construction of composite development indicator. The first is the Z-sum technique which sums for a particular district its

Z-score on each indicator. The Z-score is the standardised score, which has zero mean and unit variance. The higher the Z-sum1 the more developed the region.

The second technique computes the taxonomic distance [Khan and Iqbal (1983) and Nissan and Gracy (1988)], which is the Euclidean distance from the highest (standardised) values observed for different indicators2. The lower the taxonomic distance of a region or district, the more developed it is. Both the techniques have the problem of assigning equal importance to all development indicators. Further, the taxonomic distance technique is very sensitive to the presence of outliers.

The third and the most sophisticated method for indexing a multidimensional phenomenon is Factor Analysis (FA) technique (Adelman and Dalton (1971). This technique reduces the number of relationships by grouping together all those variables which are most highly correlated with each other into one factor or component. Thus the FA model can be described as follows:

The Z-sum can be computed as follows:

1

 $(Z \quad sum)_i = \sum_{i=1}^n Z_{ii}$

where $Zij = Xij \cdot Xi / Si$, n = numbers of indicators, Xi = mean value of the *i*th indicator, Si = Standard deviation of the *i*th indicator, Xij = value of the *i*th indicator in the *j*th district.

² The taxonomic distance can be derived as follows:

$$(TD)_{j} = \left[\sum_{i=1}^{n} (Z_{ij} - Z_{i}^{*})^{2}\right]^{1/2}$$

where Zij = standardised (as described in the previous footnote) value of the *i*th indicator in the *j*th region, $Zi^* = highest standardised value of the$ *i*th indicator in all regions. The taxonomic distance is an Euclideanmeasure of the distance of a district from a hypothetical district which has the highest value for all thedevelopment indicators.

$$X_i = a_{i1} F_1 + a_{i12} F_2 \dots + a_{ij} F_j$$

where,

X_j is the ith indicator.

- a_j is called the factor loading and represents the proportion of the variation in Xi which is accounted for by the jth factor.
- Σa_{ij} . is called the communality and it is equivalent to the multiple regression coefficient in regression analysis
- F represents jth factor or component.

Principal Components Analysis (PCA) produces components in descending order of importance. that is the first component explains the maximum amount of variation in the data and the last component the minimum. It is often found that the first few components, called principal components, account for a sizeable part of the variation and subsequent components contribute very little. Using factor loadings of these principal components, factor score for each region or unit is computed as follows:

$$(FS)_{kj} = \sum_{k} e_{ij} * Z_{i}$$

where,

- FS_{ki} represents factor score of the kth region and the jth factor,
- Z_i is the standardised value of the ith indicator,
- e_{ii} is the factor loading of the jth factor and the ith indicator.

To compute weighted factor score (WFS), these individual factor scores are derived from the following equation:

$$(WFS)_k = \sum_k e_i (FS)_{ki}$$

where ej is the eigen value of the factor j and depicts the proportion of variation in the data set explained by the factor j. This WFS is used as an index for ranking regions on the basis of the general characteristics of the variable-set.

In this study. PCA is preferred to explain the grouping of variables, with WFS being used to rank the district due to its more appealing characteristics. However, Z-sum technique is also used to observe the sensitiveness of the results with respect to the choice of technique for deriving the composite indicators. Pasha and Hasan (1982), Pasha et al (1990) also used these two techniques.

Table 1 presents the loading of each indicator on different factors. In addition, it gives the cigen values of each factor. Four factors emerge from the principal components analysis. These factors are described below:

Factor 1

Five out of 11 indicators load highly on this factor. It is by far the most important factor and includes most of the indicators from the education sector. As such education can he interpreted the most important service capturing variation in the level of social development. *Factor 2*

This factor includes three indicators. It essentially comprises of health and water supply and sanitation. *Factor 3* The two indicators in this factor also relate to health. It is essentially a continuation of factor 2 and reflects the same underlying phenomena.

Indicators	Factor 1	Factor2	Factor3	Factor4
Secondary Enrollment Rate-Girls	0.88133	0.14516	0.30654	0.1646
Literacy Rate-Female	0.83926	0.27829	0.24511	-0.07239
Literacy Rate-Male	0.80951	0.11763	0.30996	0.27688
Primary Enrollment Rate-Girls	0.79726	0.10043	0.20128	0.40248
Secondary Enrollment Rate-Boys	0.71632	0.15801	0.20314	0.47522
Share of Households with Piped Water	0.40003	0.84549	0.06185	-0.10853
Patients Treated to Population	0.07031	0.80268	0.21396	0.22458
Hospital Beds per 10,000 Population	0.0549	0.75256	0.3051	0.35518
Doctors per 1000 Population	0.35292	0.24332	0.86359	0.0883
Nurses per 1000 Population	0.37494	0.24848	0.85231	-0.02692
Primary Enrollment Rate-Boys	0.37031	0.26334	-0.03524	0.88133
Eigenvalues	6.19901	1.99286	1.14938	0.61098

Factor 4

This factor includes only one indicator, primary boys enrollment rate. This indicator represents the most basic level of education and, therefore, variation in its magnitude is not strongly correlated with the overall level of social development.

4. RANKING OF DISTRICT

The rank ordering of districts in 1990/91 is presented in Table 2. The table gives rankings generated by the principal components analysis (weighted factor score) and the Z-sum technique respectively. The correlation between the two rankings is 0.988. This indicates the robustness of the results which is also highlighted by the fact that except for Gujranwala the top ten districts in WFS are also in the list of top 10 districts indicated by the Z-score.

Karachi and Rawalpindi are the most developed districts in Pakistan in terms of in social indicators according to the WFS while in Z-score ranking Lahore and Quetta displace Karachi and Rawalpindi as the most developed districts. Besides these the list of top 10 districts include Chakwal, Jhelum, Gujrat, Faisalabad, and Sialkot. Gujranwala and Peshawar rank 10th in the WFS and z-score rankings respectively. These top ten districts account for almost 25 percent of the country's population. It may be noted that according to both the techniques most of the top districts are located in the province of Punjab with one each in the other three provinces. This tends to indicate that Punjab is ahead of the other provinces in terms of social development.

At the lower end of the distribution, seven out often districts are the same in both the rankings. According to WFS, Dera Bugti and Jalmagsi are the least developed districts while Kohistan and Nasirabad emerge as the lowest two districts in Z-score ranking. The other least developed districts according to both the rankings include Zhob, Khuzdar, Kalat, Kharan, Tin-hat. Balan.

		TAB	LE 2		
DISTRICTS			SOCIAL SECTOR O		AN
DISTRICTS					
Districts	Province	WFS	Districts	Province	Z-SCORE
		TOP QU	ARTILE	[D]	22.7700
1 Karachi	[S]	26.0147	1 Lahore		33.7790
2 Rawalpindi	[P]	16.9032	2 Quetta		27.1702
3 Chakwal	[P]	16.2396	3 Rawalpındı	[P]	21.7602
4 Lahore	[P]	15.8617	4 Jhelum		15.1901
5 Jhelum	[P]	13.8476	5 Karacht	{ S]	15.0425
6 Quetta	[B]	11.4693	6 Faisalabad		12.4725
7 Gujrat	[P]	10.6669	7 Chakwal		10.4202
8 Faisalabad	[P]	10.2559	8 Sailkot		10.4392
9 Sailkot	[P]	9.5103	9 Gujrat		0.2093
10 Gujranwala	[P]	9.0223	10 Peshawar	[N]	9.0742
	F 45 1	SECOND	UARTILE	[D]	<u> </u>
11 T.T. Singh	[P]	8./161	H Gujranwala	[D] [T]	0.3771
12 M. Baha Uddin	[P]	7.8838	12 I.I. Singh	[[[]]	7.0072
13 Narowal	[P]	/.4406	13 Haripur		6.8214
14 Haripur	[N]	6.3132	14 Shaiwai	[r] [D]	6.6496
15 Attock	[P]	5.4162	15 Attock		5 7214
16 Sargodha	[P]	5.0561	16 Multan		5 5262
17 Hyderabad	[S]	4.8612	1/ Abbottabad		5.3202
18 Shaiwal		4.3/841	18 Sibi	נאן	J.2807 A 9870
19 Nawshera	[N]	4.0355	19 Nawsnera		4.7876
20 Khanewal	[P]	3.5312	20 Sargodna	[[]	4.7870
21 Multan	[P]	3.3155	21 Narowal	[r] (D)	4.5005
22 Naushero F.	[S]	3.3003	22 M. Bana Uddin		4.1047
23 Okara	[P]	2.8373	23 Kohat	[N] [C]	4.0071
24 Sheikhupura	[P]	2.7449	24 Hyderabad		4.0355
25 Abbottabad		2.7280	25 Charsadda 26 Dahim Var Khan	[N] [D]	3 3607
26 Charsadda	[N]	2.3308	20 Kanini Yai Kilan	[F] [D]	3 3278
27 Tank		2.2013	27 Mainwalai	[[] []	3 1852
28 Bahawalnagar		2.1264	28 Bnawaipur	EN 1	2 8443
29 Malakand		1.6083	29 Tank 20 D.L.Khan		2.0445
30 Peshawar	[N]	1.3097	30 D.I. Khan	[N]	2.772)
		THIDDA	31 Larkana	[3]	2.4750
21.14	<u>[6]</u>	1.0252	22 Chitral	[N]	2 4402
31 Mirpurkhas	[8] [D]	1.0221	32 Cinual 33 Karak		2.1102
32 Mainwalai	[r] [D]	0.0020	34 Khushah	[P]	2 2490
33 Hafizabad	[1] [N]	0.0930	35 Bannu		1.5821
54 Karak 25 Suldian	[N] [S]	0,7039	36 Nawahshah	ESI	1.5610
35 Sukkar		0.0430	37 Naushero F	[S]	1.3569
36 D.I. Khan		0.0428	38 Malakand		1.3358
37 Swabi 28 Mahari	[N] [D]	0.3443	30 Sheikhunura	[P]	1.2868
38 Venari	נים בים	0.3224	A0 Lakki	INI	0.6170
39 Kahim Yar Khan	[٢]	0.2001	40 Lanni 41 Mirpurkhae	[8]	0.4713
40 Khushab	[٢]	0.2413	41 IVIII purkitas 42 Swat		0.4668
41 Kasur		0.2100	42 Swat A3 Khairpur	[8]	0.2289
42 Kohat		0.145/	A4 Khanewal	τοι [Ρ]	-0.1656
43 Khairpur	[5]	-0.19/3	44 Khanewal	[S]	-0.4690
44 Nawabshah	נסן נסו	-0.1980	46 Bahawalnavar	[P]	-0.7517
45 Layyan 46 Ibang	[T] [D] -	-0.2255	47 Bhakkar	[P]	-0.7959
40 Juang 47 D.C. Khan	[Þ]	-0.0540	48 Okara	[P]	-0.9460
4/ D.G. Khan	[¹]	-0.2003	1. 10 GRata	L	

			TAE	BLE 2		
	DISTRICTS	WISE RAN	IKING OF	SOCIAL SECTOR C	OF PAKIST	AN
	Districts	Province	WFS	Districts	Province	Z-SCORE
48	Buner	[N]	-1.3008	49 Jhang	[P]	-1.1024
49	Bhawalpur	[P]	-1.4317	50 Buner	[N]	-1.2584
50	Pakpattan	[P]	-1.4499	51 Swabi	[N]	-1.6588
51	Chitral	[N]	-1.5092	52 Hafizabad	[P]	-1.8140
52	Mardan	[N]	-1.5608	53 Shikarpur	[S]	-1.8390
53	Lodhran	[P]	-1.7701	54 Kasur	[P]	-2.0419
54	Dadu	[S]	-2.1306	55 Mardan	[N]	-2.1385
				56 Ziarat	[B]	-2.2424
	, 		BOTTOM	QUARTILE	[D]	2 2 2 7 0
55	Shikarpur		-2.2492	57 Layyan		-2.5279
56	Muzaffarghar		-2.5598	58 Venari		-2.5550
57	Bannu		-2.98/5	59 D.G. Knan		-2.0352
58	Larkana		-3.0215	60 Dadu		-3.0322
59	Sanghar	[S]	-3.1303	61 Thatta		-3.0647
60	Bhakkar	[P]	-3.1602	62 Sanghar		-3.7943
61	Manshera	[N]	-3.1704	63 Manshera	[5]	-3.8104
62	Swat	[N]	-3.1779	64 Kohlu		-4.1405
63	Barkhan	[B]	-3.6361	65 Dir	[N]	-4.//99
64	Thatta	[S]	-3.7789	66 Lodhran		-4.8434
65	Tharparkar	[S]	-3.9269	67 Chagai		-4.9470
66	Musa Khail	[B]	-3.9667	68 Muzaffarghar		-4.965/
67	Dir	[N]	-4.1152	69 Barkhan		-5.2614
68	Sibi	[B]	-4.3073	70 Badin	[8]	-5.3/58
69	Ziarat	[B]	-4.3808	71 Pishin		-5.44/6
70	Lakki	[N]	-4.4524	72 Jhalmagsi	[B]	-5.61/5
71	Loralai	[B]	-4.6029	73 Rajanpur		-5.9379
72	Rajanpur	[P]	-4.7602	74 Pakpattan		-6.15/0
73	Mastung	[B]	-4.7734	75 Gawader		-6.1616
74	Badin	[S]	-4.8466	76 Jacobabad		-6.1918
75	Pishin	[B]	-5.0904	77 Lasbela		-6.7740
76	Chagai	[B]	-5.1677	78 Loralai	[B]	-/./83/
77	Panjgur	[B]	-6.0387	79 Mastung	[B]	-7.9594
78	Kohlu	[B]	-6.0408	80 Tharparkar	[S]	-8.9178
- 79	Gawader	[B]	-6.3226	81 Jaffarabad	[B]	-9.1419
80	Lasbela	[B]	-6.5395	82 Musa Khail	[B]	-9.2995
81	Jacobabad	[S]	-6.5698	83 Bolan	[B]	-9.3237
82	Killa Saifullaha	[B]	-6.7825	84 Dera Bugti	[B]	-9.4643
83	Jaffarabad	[B]	-6.8593	85 Kharan	[B]	-9.6348
84	Awaran	[B]	-7.1243	86 Khuzdar	[B]	-10.1718
85	Kalat	[B]	-7.1316	87 Killa Saifullaha	[B]	-10.2935
86	Turbat	[B]	-7.2116	88 Awaran	[B]	-10.5132
87	Kharan	[B]	-7.2608	89 Kalat	[B]	-10.8131
88	Kohistan	[N]	-7.3670	90 Panjgur	[B]	-10.8265
89	Khuzdar	[B]	-7.4268	91 Zhob	[B]	-11.0581
90	Bolan	[B]	-7.5248	92 Turbat	[B]	-11.0819
91	Nasirabad	[B]	-7.7698	93 Nasirabad	[B]	-11.1989
92	2 Zhob	[B]	-7.8430	94 Kohistan	[N]	-12.6158
93	Jhalmagsi	[B]	-8.7686			
94	Dera Bugti	[B]	-9.4706			

Panjgur, Awaran and Killa Saifullah, all districts of Balochistan estimates are that about 5 percent of the national population resides in these districts. Nine of these districts are in Balochistan. This implies that Balochislan is least socially developed province in the country.

Table 2 also classifies the 94 districts according to the level of development. Relatively developed districts are those in which the top quartile of population lives. Districts at the intermediate level are those in which the second and the third quartile lives while the relatively under developed districts account for the bottom 25 percent of the population.

According to Z-score ranking, the top quartile consists of 10 districts. All the provincial capitals are in this category. Besides, Faisalabad, Rawalpindi, Gujrat, Sailkot and Jhelum are districts with high rate of urbanisation and buoyant industrial activity. Their high ranking confirms the close link between the extent of urbanisation and industralisation and economic development and in turn the link between economic and social development. Except of one district each in Sindh, NWFP and Balochistan all the other districts in this quartile are from Punjab.

The second quartile of population resides in 20 districts. Here again we observe the dominance of Punjab, with eleven out of these districts belonging to this province. Among the top are Gujranwala, Toba Tek Singh, Sahiwal and Multan. Out of the remaining, seven districts are from NWFP, including Haripur, Abbotabad. Nowshera, Kohat, Charsadda, D.I. Khan and Tank. The relatively high enrollment rates at primary level alongwith access to water supply facilities are the prime reason for the relatively high ranking of districts in the province.

Nine each out of 25 districts in the third quartile are from NWFP and Punjab respectively while six are from Sindh. The last quartile which consists of 38 districts is dominated by Balochistan,

with 22 districts belonging to this province, followed by Punjab with seven districts and Sindh with six districts.

The population shares of each province in each quartile are presented in 'fable 3. 'I he share of Punjab in the top two quartiles is larger than its share in national population, implying that Punjab, by and large, has a high to intermediate level of social development. Sindh has a high share in the third and the fourth quartile, indicating the lower-middle to low level of social development in the province. NWFP has an intermediate level of development while Balochistan is the most backward province in terms of social development in the country. It is, however, important to note that even the relatively developed provinces have pockets of low development like the districts in the south of Punjab. Alternatively, even a relatively backward province has some areas with high level of social development. The best example of this is Quetta district in

	PERCENTAGE S QUARTILE	TABLE 3 HARE OF PROVIN BY LEVEL OF DE	NCES IN POPUL	LATION (%)	
Quartile	Punjab	Sindh	NWFP	Balochistan	Total
To Quartile	61.1	31.5	5.6	1.8	100.0
Second Quartile	55.8	23.6	20.4	0.2	100.0
Third Quartile	55.8	23.6	20.4	0.2	100.0
Bottom Quartile	33.4	31.5	8.7	26.3	100.0

Table 4 presents the profile of social development in the country. The table shows the ten most and the ten least developed districts in each indicator. It appears that Lahore and Quetta have the most extensive coverage of health services in the country. Lahore has the highest number of

TABLE 4 PROFILE OF SOCIAL DEVELOPMENT

Doctors/ Nurber of Patients Total Hospital Primary Enrollm Sec. Enroll Sec. Enroll Population Propulation Treated/Population Beds/Population Rate-Girls Rate-Girls Rate-Boy [10000pop] [10000pop] [10000pop] Rate-Girls Rate-Boy	% Nurse/ Number of Fatients Total Hospital Primary Enrollment Primary Enrollm Sec. Enroll on Population Treated/Population Beds/Population Beds/Population Rate-Boys Rate-Girls Rate-Boy op [10000pop] [10000pop] Rate-Boys Rate-Girls Rate-Boy	Nurse/ Number of Fattents Total Hospital Primary Enrollment Primary Enrollm Sce. Enroll Population Treated/Population Beds/Population Rate-Boy Rate-Girls Rate-Boy [10000pop] [1000pop] Rate-Boys Rate-Girls Rate-Boy	/ Number of Patients Total Hospital Primary Enrollim See. Enrollim See See See See See See See See See Se	Number of Patients Total Hospital Primary Enrollm Sec. Enrollt Treated/Population Beds/Population Rate-Girls Rate-Boys [1000pop] Rate-Girls Rate-Girls Rate-Boys	tterits Total Hospital Primary Enrollm Sec. Enrollt ation Beds/Population Rate-Boys Rate-Girls Rate-Boy [1000pop]	Iotal Hospital Primary Enrollm Sec. Enrollt Beds/Population Rate-Girls Rate-Boys [1000pop] Rate-Girls Rate-Boys	pital Primary Enrollm Sec. Enrollt ation Rate-Boys Rate-Girls Rate-Boy 91	Primary Enrollm Sec. Enroll Rate-Boys Rate-Girls Rate-Boy	ent Primary Enrollin Sec. Enrolli Rate-Girls Rate-Boy	Primary Enrollm Sec. Enrollr Rate-Girls Rate-Boy	olim Sec. Enrolit Rate-Boy	Sec. Enrollr Rate-Boy	E (2)	ent	Sec. Enroll Rate-Gi	ment -ls	Literarcy Male-19	Ratio 81	Literarcy Female-	Ratio 1981	% of HH Inside Pipe 1987.0	With d Wate 00
RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	RANKING OF TOP 10 DISTRICTS	DF TOP 10 DISTRICTS	OP 10 DISTRICTS	ICTS											
Lahore [P] Lahore [P] Quetta [B] Quetta [B] Quetta [B] Jhelum [P] Ra	[P] Lahore [P] Quetta [B] Quetta [B] Quetta [B] Jhelum [P] Ra	Lahore [P] Quetta [B] Quetta [B] Quetta [B] Jhelum [P] Ra	[P] Quetta [B] Quetta [B] Quetta [B] Ihelum [P] Ra	Quetta [B] Quetta [B] Quetta [B] Jhelum [P] Ra	[B] Quetta [B] Quetta [B] Jhelum [P] Ra	Quetta [B] Quetta [B] Jhelum [P] Ra	[B] Quetta [B] Jhelum [P] Ra	Quetta [B] Jhelum [P] Ra] Jhelum [P] Ra	helum [P] Ra] Ra	Ra	walpindi [I		Karachi	[S]	kawalpindi	[b]	Karachi	[S]	Quetta	[B]
Rawatpindi [P] Rawalpindi [P] Charsadda [N] Sibi [B] Sibi [B] Chakwal [P] J.	[P] Rawalpindi [P] Charsadda [N] Sibi [B] Sibi [B] Chakwal [P] J.	Rawalpindi [P] Charsadda [N] Sibi [B] Sibi [B] Chakwal [P] J.	[P] Charsadda [N] Sibi [B] Sibi [B] Chakwal [P] J.	Charsadda [N] Sibi [B] Sibi [B] Chakwal [P] J.	[N] Sibi [B] Sibi [B] J.	Sibi [B] Sibi [B] Chakwal [P] J.	[B] Sibi [B] Chakwal [P] J.	Sibi [B] Chakwal [P] J _i] Chakwal [P] J	Chakwał [P] J.			helum []	5	Faisalabad	[L]	Xarachi	[S]	Lahore	[J	Karachi	[S]
Bhawalpur [P] Sailkot [P] Peshawar [N] Peshawar [N] T.T.Singh [P] Gujrat [P] N	[P] Sailkot [P] Peshawar [N] Peshawar [N] T.T.Singh [P] Gujrat [P] N	Sailkot [P] Peshawar [N] Peshawar [N] T.T.Singh [P] Gujrat [P] N	[P] Peshawar [N] Peshawar [N] T.T. Singh [P] Gujrat [P] N	Peshawar [N] Peshawar [N] T.T.Singh [P] Gujrat [P] N	[N] Peshawar [N] T.T. Singh [P] Gujrat [P] N	Peshawar [N] T.T. Singh [P] Gujrat [P] N	[N] T.T. Singh [P] Gujrat [P] N	T.T. Singh [P] Gujrat [P] N] Gujrat [P] N	Gujrat [P] N	~	~	aushero F. [5	5	Lahore		Chakwal	[H]	Rawalpindi	E	Lahore	[b]
Multan [P] Quetta [B] Nawshera [N] Lahore [P] Faisalabad [P] Quetta [B] G	[P] Quetta [B] Nawshera [N] Lahore [P] Faisalabad [P] Quetta [B] C	Quetta [B] Nawshera [N] Lahore [P] Faisalabad [P] Quetta [B] C	[B] Nawshera [N] Lahore [P] Faisalabad [P] Quetta [B] C	Nawshera [N] Lahore [P] Faisalabad [P] Quetta [B] C	[N] Lahore [P] Faisalabad [P] Quetta [B] C	Lahore [P] Faisalabad [P] Quetta [B] C	[P] Faisalabad [P] Quetta [B] C	Faisalabad [P] Quetta [B] C] Quetta [B] C	Quetta [B] C	<u> </u>	\cup	Thakwal [[5	Rawalpindi	I di	ahore	[b]	Haripur	Z	Peshawar	Z
Faisalabad [P] Multan [P] Lahore [P] Haripur [N] Jhelum [P] Rawalpindi [P] 1	(P) Multan (P) Haripur (N) Jhelum (P) Rawalpindi [P] 1	Multan [P] Lahore [P] Haripur [N] Jhelum [P] Rawalpindi [P] 1	[P] Lahore [P] Haripur [N] Jhelum [P] Rawalpindi [P] 1	Lahore [P] Haripur [N] Jhelum [P] Rawalpindi [P] 1	[P] Haripur [N] Jhelum [P] Rawalpindi [P] 1	Haripur [N] Jhelum [P] Rawalpindi [P] 1	[N] Jhelum [P] Rawalpindi [P] 1	Jhelum [P] Rawalpindi [P] 1	Rawalpindi [P]	awalpindi [P]		_	Khairpur [5	5	Quetta	 [B]	helum	[J]	Chakwal	[P]	Hyderabad	[S]
Nawabshah [S] Gujranwala [P] Rahim Yar Kha [P] Abbottabad [N] Karak [N] Shaiwal [P] I	[5] Gujranwala [P] Rahim Yar Kha [P] Abbottabad [N] Karak [N] Shaiwal [P] I	Gujranwala [P] Rahim Yar Kha [P] Abbottabad [N] Karak [N] Shaiwal [P] I	[P] Rahim Yar Kha [P] Abbottabad [N] Karak [N] Shaiwal [P] I	Rahim Yar Kha [P] Abbottabad [N] Karak [N] Shaiwal [P] I	[P] Abbottabad [N] Karak [N] Shaiwal [P] I	Abbottabad [N] Karak [N] Shaiwal [P] I	[N] Karak [N] Shaiwal [P] I	Karak [N] Shaiwal [P] I] Shaiwal [P] I	Shaiwal [P] I			ahore []	~	Chakwal) [d]	Quetta	[B]	Jhelum	[<u>-</u>]	Kohlu	[B]
Quetta [B] Bhawalpur [P] Kahat [N] Bannu [N] Haripur [N] Narowal [P]	[B] Bhawalpur [P] Kahat [N] Bannu [N] Haripur [N] Narowal [P]	Bhawalpur [P] Kahat [N] Bannu [N] Haripur [N] Narowal [P]	[P] Kahat [N] Bannu [N] Haripur [N] Narowal [P]	Kahat [N] Bannu [N] Haripur [N] Narowal [P]	[N] Bannu [N] Haripur [N] Narowal [P]	Bannu [N] Haripur [N] Narowal [P] d	[N] Haripur [N] Narowal [P]	Haripur [N] Narowal [P]	Narowal [P]	Varowal [P] (Gujrat []		Ihelum) [d]	Gujrat	[d]	Quetta	[B]	Loralai	[B]
k Hyderabad [S] Shaiwal [P] Rawalpindi [P] Lakki [N] Abbottabad [N] T.T. Singh [P]	[5] Shaiwal [P] Rawalpindi [P] Lakki [N] Abbottabad [N] T.T. Singh [P]	Shaiwal [P] Rawalpindi [P] Lakki [N] Abbottabad [N] T.T. Singh [P]	[P] Rawalpindi [P] Lakki [N] Abbottabad [N] T.T. Singh [P]	Rawalpindi [P] Lakki [N] Abbottabad [N] T.T. Singh [P]	[P] Lakki [N] Abbottabad [N] T.T. Singh [P]	Lakki [N] Abbottabad [N] T.T. Singh [P]	[N] Abbottabad [N] T.T. Singh [P]	Abbottabad [N] T.T. Singh [P]] T.T. Singh [P]	[.T. Singh [P]	-		Attock []	~	Gujranwala	, [d]	Abbottabad	41.64	Nawabshah	[S]	Barkhan	[B]
V Shaiwal [P] Faisalabad [P] Chitral [N] Jhalmagsi [B] Swat [N] Sailkot [P]	[P] Faisalabad [P] Chitral [N] Jhalmagsi [B] Swat [N] Sailkot [P]	Faisalabad [P] Chitral [N] Jhalmagsi [B] Swat [N] Sailkot [P]	[P] Chitral [N] Jhalmagsi [B] Swat [N] Sailkot [P]	Chitral [N] Jhalmagsi [B] Swat [N] Sailkot [P]	[N] Jhalmagsi [B] Swat [N] Sailkot [P]	Jhalmagsi [B] Swat [N] Sailkot [P]	[B] Swat [N] Sailkot [P]	Swat [N] Sailkot [P]] Sailkot [P]	Sailkot [P]	_		Sailkot []	~	T.T. Singh	E.	aisalabad	[J]	Naushero F	[S]	Kahat	[B]
Jhelum [P] Jhelum [P] Buner [N] Nawabshah [S] Larkana [S] Attock [P]	[P] Jhelum [P] Buner [N] Nawabshah [S] Larkana [S] Attock [P]	Jheium [P] Buner [N] Nawabshah [S] Larkana [S] Attock [P]	[P] Buner [N] Nawabshah [S] Larkana [S] Attock [P]	Buner [N] Nawabshah [S] Larkana [S] Attock [P]	[N] Nawabshah [S] Larkana [S] Attock [P]	Nawabshah [S] Larkana [S] Attock [P]	[S] Larkana [S] Attock [P]	Larkana [S] Attock [P]] Attock [P]	Attock [P]	_		Gujranwala []		Gujrat	E.	r.T. Singh	[P]	Charsadda	Ζ	Malakand	[B]
RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	RANKING OF LOWEST 10 DISTRIC	LOWEST 10 DISTRIC	VEST 10 DISTRIC	TRIC		TS									
Turbat [B] Karak [N] Panjgur [B] Mustung [B] Awaran [B] Awaran	[B] Karak [N] Panjgur [B] Mustung [B] Awaran [B] Awaran [B]	Karak [N] Panjgur [B] Mustung [B] Awaran [B] Awaran [B]	[N] Panjgur [B] Mustung [B] Awaran [B] Awaran [B]	Panjgur [B] Mustung [B] Awaran [B] Awaran [B]	[B] Mustung [B] Awaran [B] Awaran [B]	Mustung [B] Awaran [B] Awaran [B]	[B] Awaran [B] Awaran [B]	Awaran [B] Awaran [B]] Awaran [B]	Awaran [B]	~		Bolan [[1	3	Kohlu	[B]	anjgur	[B]	Loralai	[B]	Jhang	[b]
Zhob [B] Kohistan [N] Mastung [B] Turbat [B] Killa Saifullaha [B] Jhalmagsi [B]	[B] Kohistan [N] Mastung [B] Turbat [B] Killa Saifullaha [B] Jhalmagsi [B]	Kohistan [N] Mastung [B] Turbat [B] Killa Saifullaha [B] Jhalmagsi [B]	[N] Mastung [B] Turbat [B] Killa Saifullaha [B] Jhalmagsi [B]	Mastung [B] Turbat [B] Killa Saifullaha [B] Jhalmagsi [B]	[B] Turbat [B] Killa Saifullaha [B] Jhalmagsi [B]	Turbat [B] Killa Saifullaha [B] Jhalmagsi [B]	[B] Killa Saifullaha [B] Jhalmagsi [B]	Killa Saifullaha [B] Jhalmagsi [B]] Jhalmagsi [B]	halmagsi [B]	5		Loralai [I		Awaran	[B]	Jawader	[B]	Lasbela	[B]	Kasur	[J]
k Nasirabad [B] Mardan [B] Kalat [B] Dera Bugti [B] Nasirabad [B] Zhob [B]	[B] Mardan [B] Kalat [B] Dera Bugti [B] Nasirabad [B] Zhob [B]	Mardan [B] Kalat [B] Dera Bugti [B] Nasirabad [B] Zhob [B]	[B] Kalat [B] Dera Bugti [B] Nasirabad [B] Zhob [B]	Kalat [B] Dera Bugti [B] Nasirabad [B] Zhob [B]	[B] Dera Bugti [B] Nasirabad [B] Zhob [B]	Dera Bugti [B] Nasirabad [B] Zhob [B]	[B] Nasirabad [B] Zhob [B]	Nasirabad [B] Zhob [B]] Zhob [B]	Zhob [B]	~		Nasirabad [[Turbat	[B]	3arkhan	[B]	Kalat	[B]	Muzaffargh	a [P]
t Panjgur [B] Killa Saifulla [B] Pakpattan [P] Musa Khail [B] Zhob [B] Nasirabad [B] H	[B] Killa Saifulla [B] Pakpattan [P] Musa Khail [B] Zhob [B] Nasirabad [B] H	Killa Saifulla [B] Pakpattan [P] Musa Khail [B] Zhob [B] Nasirabad [B]	I [B] Pakpattan [P] Musa Khaii [B] Zhob [B] Nasirabad [B] H	Pakpattan [P] Musa Khail [B] Zhob [B] Nasirabad [B] K	[P] Musa Khaii [B] Zhob [B] Nasirabad [B] K	Musa Khail [B] Zhob [B] Nasirabad [B] K	[B] Zhob [B] Nasirabad [B] K	Zhob [B] Nasirabad [B] h	Nasirabad [B] k	vasirabad [B] k	<u> </u>	<u> </u>	cilla Saifull [H		Ihalmagsi	[B]	Ausa Khail	[B]	Bolan	[B]	Kharan	[B]
Kohistan [B] Kohlu [B] Hafizabad [P] Awaran [B] Tharparkar [S] Bolan [B] 1	[B] Kohlu [B] Hafizabad [P] Awaran [B] Tharparkar [S] Bolan [B] 1	Kohlu [B] Hafizabad [P] Awaran [B] Tharparkar [S] Bolan [B] 1	[B] Hafizabad [P] Awaran [B] Tharparkar [S] Bolan [B] 1	Hafizabad [P] Awaran [B] Tharparkar [S] Bolan [B] 1	[P] Awaran [B] Tharparkar [S] Bolan [B] 1	Awaran [B] Tharparkar [S] Bolan [B] 1	[B] Tharparkar [S] Bolan [B] 1	Tharparkar [S] Bolan [B] 1	Bolan [B] 1	3olan [B] 1		_	Turbat [[E.	Kalat	[B]	halmagsi	[B]	Turbat	[8]	Killa Saiful	[B]
Musa Khaiil [B] Dera Bugti [B] Khuzdar [B] Lasbela [B] Kalat [B] Musa Khaiil [B] Z	[B] Dera Bugti [B] Khuzdar [B] Lasbela [B] Kalat [B] Musa Khail [B] Z	Dera Bugti [B] Khuzdar [B] Lasbela [B] Kalat [B] Musa Khail [B] Z	[B] Khuzdar [B] Lasbela [B] Kalat [B] Musa Khail [B] Z	Khuzdar [B] Lasbela [B] Kalat [B] Musa Khail [B] Z	[B] Lasbela [B] Kalat [B] Musa Khail [B] Z	Lasbela [B] Kalat [B] Musa Khail [B] Z	[B] Kalat [B] Musa Khail [B] Z	Kalat [B] Musa Khail [B] Z] Musa Khail [B] Z	Musa Khail [B] Z	2	N	theb [[Bolan	[8]	affarabad	<u>B</u>	Nasirabad	[B]	Layyah	[J]
7 Barkhan [B] Nasirabad [B] Awaran [B] Nasirabad [B] Musa Khail [B] Tharparkar [S] N	[B] Nasirabad [B] Awaran [B] Nasirabad [B] Musa Khail [B] Tharparkar [S] N	Nasirabad [B] Awaran [B] Nasirabad [B] Musa Khail [B] Tharparkar [S] N	[B] Awaran [B] Nasirabad [B] Musa Khail [B] Tharparkar [S] N	Awaran [B] Nasirabad [B] Musa Khail [B] Tharparkar [S] N	[B] Nasirabad [B] Musa Khail [B] Tharparkar [S] N	Nasirabad [B] Musa Khail [B] Tharparkar [S] N	[B] Musa Khail [B] Tharparkar [S] N	Musa Khail [B] Tharparkar [S] N] Tharparkar [S] N	[harparkar [S] N	<u>~</u>	~	tusa Khail		Nasirabad	[B]	¢haran	[B]	Kohistan	Z	Jaffarabad	[B]
Runer [N] Musa-Khail [B] Lodhran [P] Tharparkar [S] Turbat [B] Dera Bugti [B] H	[N] Musa Khail [B] Lodhran [P] Tharparkar [S] Turbat [B] Dera Bugti [B] H	Musa Khail [B] Lodhran [P] Tharparkar [S] Turbat [B] Dera Bugti [B] H	[B] Lodhran [P] Tharparkar [S] Turbat [B] Dera Bugti [B] H	Lodhran [P] Tharparkar [S] Turbat [B] Dera Bugti [B] H	[P] Tharparkar [S] Turbat [B] Dera Bugti [B] H	Tiharparkar [S] Turbat [B] Dera Bugti [B]	[S] Turbat [B] Dera Bugti [B] H	Turbat [B] Dera Bugti [B] H] Dera Bugti [B] H	Dera Bugti [B]	-		Kalat [[Musa Khail	[8]	Awaran	[B]	Khuzdar	[B]	Dera Bugti	[B]
Nawshera [N] Barkhan [B] Kohistan [N] Kohistan [N] Panjgur [B] Kalat [B]	[N] Barkhan [B] Kohistan [N] Kohistan [N] Panjgur [B] Kalat [B]	Barkhan [B] Kohistan [N] Kohistan [N] Panjgur [B] Kalat [B]	[B] Kohistan [N] Kohistan [N] Panjgur [B] Kalat [B]	Kohistan [N] Kohistan [N] Panjgur [B] Kalat [B]	[N] Kohistan [N] Panjgur [B] Kalat [B]	Kohistan[N]Panjgur[B]Kalat[B]	[N] Panjgur [B] Kalat [B]	Panjgur [B] Kalat [B]] Kalat [B]	calat [B]	2		Panjgur [[3	Dera Bugti	[B]	cohistan	\overline{Z}	Kohlu	[B]	Zhob	[B]
Mastung [B] Ziarat [B] Malakand [B] Buner [N] Kohistan [N] Kohistan [N]	[B] Ziarat [B] Malakand [B] Buner [N] Kohistan [N] Kohistan [N]	Ziarat [B] Malakand [B] Buner [N] Kohistan [N] Kohistan [N]	[B] Malakand [B] Buner [N] Kohistan [N] Kohistan [N]	Malakand [B] Buner [N] Kohistan [N] Kohistan [N]	[B] Buner [N] Kohistan [N] Kohistan [N]	Buner [N] Kohistan [N] Kohistan [N]	[N] Kohistan [N] Kohistan [N]	Kohistan [N] Kohistan [N]	Kohistan [N]	kohistan [N]	[7		Kohistan		Kohistan	Z	Jera Bugti	[B]	Dera Bugti	[B]	Shikarpur	[P]

health personnel (both doctors an nurses) relative to population while Quetta has the best coverage of hospital beds and the most number of patients treated. In education. Rawalpindi and Karachi are on the top. Karachi has the highest female literacy rate and girls secondary enrollment rate. Rawalpindi has the highest male literacy rate and boys secondary enrollment rate. Quetta and Jhelum have the highest primary male and female enrollment rates respectively. The dominance of Punjab in at most of the indicators, particularly in those related to health, in the lop districts is striking. Similarly, the poor performance of districts in Balochistan in most indicators is noticeable.

'table 5 gives the correlation matrix between different indicators. High correlation is observed between doctors and nurses, primary and secondary enrollments, literacy rates and enrollment rates. In particular, girls primary and secondary enrollment rates are strongly related to the male and female literacy rates. There also appears to be a degree of correlation between different sectors. Linkage exists between water supply and health services and education and health services, specifically health personnel. This correlation is a reflection of the spillover and externalities generated by different social services and highlights the presence of synergies between sectors. On the whole, in the profile of development, the key sector appears to be education, in particular, female primary and secondary enrollment rates.

5. **PROVINCE-WISE PROFILE OF DEVELOPMENT** Province wise ranking of districts in terms of social development is presented in 'fable 6. Within Punjab, the top five districts according to the Z-score include Lahore, Rawalpindi. Jhelum. Faisalabad and Chakwal while the five most lagging districts are Pakpattan. Rajanpur. Lodhran, Muzaffargarh and D.G. Khan. The last two fall in the barani areas with underdeveloped economic base and therefore, lag behind in social development also. Also noticeable is the

									Datio	0/ of Unicoholde	IVTIGOU
	Doctors/	Nurse/	Number of Patients	Pri Enrol Rate	Pri Enrol Rate	SecEnrol Rate	SecEnrol Kate	Literarcy Katio	Literarcy Katio	70 01 ITOUSCIIOUS	DHC BED
Indicators	Population	Population [10000pop]	Treated/Population	Boys 1991-92	Girls 1991-92	Boys 1991-92	Girls 1991-92	[Male] 1981	remale 1981	Piped Water	
Doctors/1000 Pop	1.00000										
Nurses/1000 Pop	0.88090	1.00000									
Patients Treated/Pop	0.40591	0.40132	1.00000								
Primary EnrBoys	0.27303	0.16642	0.38080	1.00000							
Primary EnrGirls	0.47133	0.51504	0.24912	0.59583	1.00000						
Sec. EnrolBovs	0.49811	0.48307	0.38916	0.64211	0.77362	1.00000					
Sec. EnrolGirls	0.61623	0.61686	0.28043	0.48885	0.86746	0.73185	1.00000				
Literacy Rate-Male	0.61825	0.54877	0.28096	0.52766	0.79438	0.75025	0.85712	1.00000			
Literacy Rate-Female	0.58983	0.56980	0.34780	0.35702	0.64480	0.66845	0.81675	0.72088	1.00000		
% HH with Inside-Wate	e 0.41134	0.44265	0.59216	0.31705	0.38558	0.37318	0.46214	0.41752	0.51800	1.0000	
Hospital + RHC	0.47711	0.42465	0.59562	0.45330	0.37197	0.33016	0.33867	0.34572	0.30970	0.62680	1.0

CORRELATION BETWEEN SOCIAL INDICATORS

TABLE 5

	PROVINC	TAB E-WISE RAN	LE 6 NKIN	G OF DISTRICTS	
		WFS	Γ		Z-SCORE
	PROVINCE/DISTRICT	RANKING		PROVINCE/DISTRICT	RANKING
		PUN	JAB	.	
1	Rawalpindi	16.9032	1	Lahore	33.7790
2	Chakwal	16.2396	2	Rawalpindi	21.7602
3	Lahore	15.8617	3	Jhelum	15.1961
4	Jhelum	13.8476	4	Faisalabad	12.4723
5	Gujrat	10.6669	5	Chakwal	11.6895
6	Faisalabad	10.2559	6	Sailkot	10.4392
7	Sailkot	9.5103	7	Gujrat	10.2695
8	Gujranwala	9.0223	8	Gujranwala	8.3997
9	T.T. Singh	8.7161	9	T.T. Singh	7.6672
10	Mandi Baha Uddin	7.8838	10	Shaiwal	6.8214
11	Narowal	7.4406	11	Attock	6.6496
12	Attock	5.4162	12	Multan	5.7214
13	Sargodha	5.0561	13	Sargodha	4.7876
14	Shaiwal	4.3784	14	Narowal	4.5065
15	Khanewal	3.5312	15	Mandi Baha Uddin	4.1047
16	Multan	3.3155	16	Rahim Yar Khan	3.3607
17	Okara	2.8373	17	Mainwalai	3.3278
18	Sheikhupura	2.7449	18	Bhawalpur	3.1852
19	Bahawalnagar	2.1264	19	Khushab	2.2490
20	Mainwalai	1.0231	20	Sheikhupura	1.2868
21	Hafizabad	0.8930	21	Khanewal	-0.1656
22	Vehari	0.3224	22	Bahawalnagar	-0.7517
23	Rahim Yar Khan	0.2881	23	Bhakkar	-0.7959
24	Khushab	0.2413	24	Okara	-0.9460
25	Kasur	0.2153	25	Jhang	-1.1024
26	Layyah	-0.2253	26	Hafizabad	-1.8140
27	Jhang	-0.6348	27	Kasur	-2.0419
28	D.G. Khan	-0.9605	28	Lavvah	-2.3279
29	Bhawalpur	-1.4317	29	Vehari	-2.3336
30	Pakpattan	-1.4499	30	D.G. Khan	-2.6532
31	Lodhran	-1.7701	31	Lodhran	-4.8434
32	Muzaffarghar	-2.5598	32	Muzaffarghar	-4.9657
33	Bhakkar	-3.1602	33	Rajanpur	-5,9379
34	Rajanpur	-4.7602	34	Pakpattan	-6.1570
	·····	SIN	DH	A	
1	Karachi	26.0147	1	Karachi	15.0423
2	Hyderabad	4.8612	2	Hyderabad	4.0355
3	Naushero Feroze	3.3003	3	Larkana	2.4750
4	Mirpurkhas	1.0353	4	Nawabshah	1.5610
5	Sukkar	0.6430	5	Naushero Feroze	1.3569
6	Khairpur	-0.1975	6	Mirpurkhas	0.4713
7	Nawabshah	-0.1986	7	Khairpur	0.2289
8	Dadu	-2.1306	8	Sukkar	-0.4690
9	Shikarpur	-2.2492	9	Shikarpur	-1.8390
10	Larkana	-3.0215	10	Dadu	-3.0322
11	Sanghar	-3.1303	11	Thatta	-3.0647
12	Thatta	-3.7789	12	Sanghar	-3.7943
13	Tharparkar	-3.9269	13	Badin	-5 3758
14	Badin	-4.8466	14	Jacobabad	-6 1918
15	Jacobabad	-6.5698	15	Tharparkar	-8.9178

	PROVINC	TABI E-WISE RAN	Æ 6 KINO	G OF DISTRICTS	
		WES			Z-SCORF
	PROVINCE/DISTRICT	NF5 RANKING		PROVINCE/DISTRICT	RANKING
	I KOVIACE/DISTRICT	NW	FP		
1	Haripur	6.3132	1	Peshawar	9.6742
2	Nawshera	4.0355	2	Haripur	7.1679
3	Abbottabad	2.7280	3	Abbottabad	5.5262
4	Charsadda	2.3308	4	Nawshera	4.9870
5	Tank	2.2013	5	Kahat	4.0671
6	Malakand	1.6083	6	Charsadda	3.8821
7	Peshawar	1.3097	7	Tank	2.8443
8	Karak	0.7639	8	D.I. Khan	2.7729
9	D.I. Khan	0.6428	9	Chitral	2.4402
10	Swabi	0.5445	10	Karak	2.2741
11	Kahat	0.1457	11	Bannu	1.5821
12	Buner	-1.3008	12	Malakand	1.3358
13	Chitral	-1.5092	13	Lakki	0.6170
14	Mardan	-1.5608	14	Swat	0.4668
15	Bannu	-2.9875	15	Buner	-1.2584
16	Manshera	-3.1704	16	Swabi	-1.6588
17	Swat	-3.1779	17	Mardan	-2.1385
18	Dir	-4.1152	18	Manshera	-3.8104
19	Lakki	-4.4524	19	Dir	-4.7799
20	Kohistan	-7.3670	20	Kohistan	-12.6158
		BALOCI	HIST	AN	
1	Quetta	11.4693	1	Quetta	27.1702
2	Barkhan	-3.6361	2	Sibi	5.2867
3	Musa Khail	-3.9667	3	Ziarat	-2.2424
4	Sibi	-4.3073	4	Kohlu	-4.1405
5	Ziarat	-4.3808	5	Chagai	-4.9470
6	Loralai	-4.6029	6	Barkhan	-5.2614
7	Mastung	-4.7734	7	Pishin	-5.4476
8	Pishin	-5.0904	8	Jhalmagsi	-5.61/5
9	Chagai	-5.1677	9	Gawader	-6.1616
10	Panjgur	-6.0387	10	Lasbela	-6.7740
11	Kohlu	-6.0408		Loralai	-7.7837
12	Gawader	-6.3226	12	Mastung	-7.9394
13	Lasbela	-6.5395	13	Jaffarabad	-9.1419
14	+ Killa Saifullaha	-6.7825	4	Musa Khail	-9.2995
15	Jaffarabad	-6.8593	15	Bolan	-9.3237
16	Awaran	-7.1243		Dera Bugti	-9.4643
17	Kalat	-7.1316		Kharan	-9.0348
18	S Turbat	-7.2116		Khuzdar	-10.1/18
19) Kharan	-7.2608	19	Killa Saitullana	-10.2935
20) Khuzdar	-7.4268	20	Awaran	-10.5132
21	Bolan	-7.5248		Kalat	-10.8131
22	Nasirabad	-7.7698	22	ranjgur	-10.8203
23	j Zhob	-7.8430	23) ZIIOD Turbot	-11.0281
24	I Jhalmagsi	-8./686	24	F Turbat	-11.0819
1 25) Dera Bugti	-9.4706	1 23	nasiradad	-11.1989

skewness in the level of development in Punjab. According to the Z-score out of the 34 districts. 14 have a negative score indicating that these districts are well below the national average.

In Sindh, the five most backward districts include Tharparker. Jacobabad. Badin, Sanghar and Thatta. These districts have a weak economic base with hardly any industrialisation. Tharparkar. in particular, lies in the arid zone of the province and is difficult to service because of accessibility problems. As such it ranks the lowest in almost all of the indicators. Eight out of the fifteen districts in Sindh have a negative z-score.

Backward areas in NWFP include Kohistan, Dir, Mansehra, Mardan. and Swabi. 'these districts alongwith Bunnu have a negative Z-score indicating a low level of development. Except for Quetta and Sibi, all the districts in Balochistan have a very low level of development, with the most backwardness being Nasirabad, Turbat, Zhob, Panjgur and Kalat.

6. CONCLUSIONS

The paper has used eleven indicators relating to the education, health and water supply sectors to rank districts of Pakistan in terms of the level of social development. The paper demonstrates the importance of education indicators in determining the overall level of social development, especially in terms of female literacy and enrollment rates. Also, the ranking demonstrate a close correlation between levels of social and economic development spatially with Pakistan. Overall. Punjab appears to have the highest level of social development followed by NWFP, Sindh and Balochistan. However, the results indicate substantial variation among districts within a province in the level of social development. Least developed districts within each province are identified as targets for special development allocations within SAP.

BIBLIOGRAPHY

- Adelman, I., and G. Dalton, 1971, A factor analysis of modernisation in village India. Economic Journal, 81(323).
- Hicks, L.N., and P.Streeten, 1979, Indicators of development: 'the search for a basic needs yardstick. *World Development*, 7(6).
- Jamal, Haroon, and Salman Malik, 1988, Shifting patterns in development rank ordering: A case study of the districts of Sindh Province, *Pakistan Development Review*, 27(2).
- K-emal, A.R., 1984, Incentive structure for manufacturing industry in Pakistan, Paper presented at the annual general meeting of the Pakistan Society for Development Economists, Islamabad, Pakistan.
- Khan, M.H., and M. Iqbal, 1982, Socio-economic indicators in rural Pakistan: Some evidence, *Pakistan Development Review*, 21(3).
- Lee, M.L., and B.Liu, 1988, Measuring socio-economic effects when using income as a quality of life indicator, *American Journal of Economics ana Sociology*. 47(2).
- McGranahan, D., 1972, Development indicators and development models. *The Journal* of Development Studies, 8 (April).
- Pasha, Hafiz A., and Tariq Hasan, 1982, Development ranking of the districts of Pakistan, *Pakistan Journal of Applied Economics*, 1 (2).
- Pasha, Hafiz A., Salman Malik, and Haroon Jamal, 1990, The changing profile of regional development in Pakistan, *Pakistan Journal of Applied Economics*, 9(1).
- Ram, R., 1980, Physical quality of life index and inter-country inequality, *Economics Letters*, 5(2).
- Tobbarah, R.B., 1972, The adequacy of income: A social dimension in economic development. *The Journal of Development Studies*, 8(April).

	٦	NATIO	N-WISE RANKING C)F DIST	RICTS IN SOCIA	L INDIC.	ATORS	
SNo.	Doctors/		Nurse/		Number of Pat	ients	Total Hospita	1
	Population		Population		Treated/Popula	ation	Beds\Population	n
	[10000pop]		[10000pop]				[1000pop]	
1	Lahore	15.702	Lahore	13.642	Quetta	1.761	Quetta	3.939
2	Rawalpindi	7.075	Rawalpindi	4.000	Charsadda	1.520	Sibi	2.339
3	Bhawalpur	5.478	Sailkot	3.559	Peshawar	1.520	Peshawar	1.854
4	Multan	5.177	Quetta	3.529	Nawshera	1.520	Lahore	1.806
5	Faisalabad	5.151	Multan	3.144	Lahore	1.474	Haripur	1.233
6	Nawabshah	5.036	Gujranwala	2.900	Rahim Yar Khan	1.388	Abbottabad	1.233
7	Quetta	4.855	Bhawalpur	2.898	Kahat	1.376	Bannu	1.103
8	Hyderabad	4.488	Shaiwal	2.628	Rawalpindi	1.059	Lakki	1.103
9	Shaiwal	4.327	Faisalabad	2.415	Chitral	0.978	Jhalmagsi	1.102
10	Jhelum	4.118	Jhelum	2.328	Buner	0.968	Nawabshah	1.033
11	Sailkot	4.096	Attock	2.005	Swat	0.968	Rawalpindi	0.955
12	Mainwalai	3.840	Sheikhupura	1.884	Lakki	0.851	Tank	0.945
13	Thatta	3.734	Jhang	1.804	Bannu	0.851	D.I. Khan	0.945
14	Khushab	3.613	Mainwalai	1.800	Bhawalpur	0.749	Ziarat	0.935
15	Attock	3.547	Guirat	1.786	Tank	0.714	Kohlu	0.889
16	Larkana	3.405	Nawshera	1.754	D.I. Khan	0.714	Bhakkar	0.837
17	Guiranwala	3.338	Peshawar	1.754	Faisalabad	0.700	Larkana	0.785
18	Peshawar	3.191	Khushab	1.694	Sibi	0.693	Hvderabad	0.733
19	Guirat	3 1 5 9	Rahim Yar Khan	1.618	Gawader	0.621	Bhawalpur	0.730
20	Sargodha	3 1 1 7	Sargodha	1 461	Karak	0.615	Malakand	0.713
21	Shikarpur	3.079	T T Singh	1 297	Ihelum	0.614	Kahat	0.679
22	Rahim Yar Khan	3.058	Bhakkar	1 241	Ziarat	0.607	Multan	0.655
23	Mirnurkhas	3 019	Rajannur	1.211	Hyderabad	0.563	Manshera	0.639
24	Radin	2 825	Chakwal	1.215	Chagai	0.505	Swat	0.623
24	TT Singh	2.825	D G Khan	1.077	Sailkot	0.555	Shaiwal	0.611
25	Chitral	2.707	Vocur	0.070	Larkana	0.520	Thelum	0.011
20	Dhakkor	2.139	Lawah	0.979	Swabi	0.511	Mandi Baha Uddin	0.007
28	Karachi	2.047	Narowal	0.900	Mardan	0.506	Guirat	0.604
20	Sukkor	2.449	Larkana	0.937	Mirpurkhas	0.500	Chitral	0.602
29	Sukkai	2.322	Dahawalnagan	0.930	Manahara	0.400	Eaisalabad	0.002
21	Nialakanu Oh - Uh-	2.109	Banawainagar Muraeffensikan	0.071	Cuironwala	0.449	Calleat	0.544
21	Sneiknupura	2.108	Muzaharghar	0.800	Gujranwala	0.434	Mainwalai	0.539
32	Jnang	2.077	Haripur	0.799	Mainwalai	0.421		0.520
33	Khairpur	2.064	Abbottabad	0.799	Lasbela	0.419		0.505
34	Bannu	2.059	Vehari	0.709	Thatta	0.418	Charsadda	0.493
- 35	Lakki	2.059	Okara	0.695	Dir	0.413	Gujranwala	0.485
36	Dadu	2.040	Khanewal	0.690	Karachi	0.401	Hafizabad	0.485
37	Rajanpur	1.997	Hyderabad	0.682	Sukkar	0.386	Rahim Yar Khan	0.454
38	Haripur	1.923	Lakki	0.628	Shaiwal	0.366	Mardan	0.444
39	Abbottabad	1.923	Bannu	0.628	Abbottabad	0.359	Khushab	0.435
40	Ziarat	1.912	Nawabshah	0.537	Haripur	0.359	Sargodha	0.409
41	Sibi	1.912	Lodhran	0.526	Naushero Feroze	0.346	Dadu	0.385
42	Chakwal	1.909	Tank	0.519	Jhalmagsi	0.342	Chagai	0.382
43	Sanghar	1.883	D.I. Khan	0.519	Pishin	0.340	Thatta	0.379
44	Naushero Feroze	1.810	Karachi	0.500	Kohlu	0.327	Karak	0.375
45	D.G. Khan	1.734	Hafizabad	0.472	Multan	0.306	Rajanpur	0.361
46	Tank	1.731	Pakpattan	0.454	Sargodha	0.302	T.T. Singh	0.358
47	D.I. Khan	1.731	Malakand	0.331	Attock	0.300	Nawshera	0.345
48	Gawader	1.713	Mandi Baha Uddin	0.291	Bahawalnagar	0.296	Chakwal	0.338

TABLE A-1

SNo.	Doctors/ Population [10000pop]		Nurse/ Population [10000pop]		Number of F Treated/Pop	atients ulation	Total Hosp Beds\Popula [1000pop	ital ition)]
49	Bahawalnagar	1.645	Kahat	0.279	Badin	0.287	Jhang	0.335
50	Lavyah	1.591	Sibi	0.225	Nawabshah	0.285	Karachi	0.329
51	Chagai	1.530	Khairpur	0.186	Khushab	0.273	Mirpurkhas	0.308
52	Jacobabad	1.336	Sukkar	0.180	Gujrat	0.270	Sheikhupura	0.287
53	Muzaffarghar	1.327	Mirpurkhas	0.176	Shikarpur	0.269	Shikarpur	0.283
54	Kahat	1.172	Charsadda	0.134	Bolan	0.262	D.G. Khan	0.268
55	Vehari	1.168	Dir	0.097	Kharan	0.260	Narowal	0.264
56	Karak	1 165	Shikarpur	0.096	D.G. Khan	0.259	Layyah	0.263
57	Lachela	1 157	Manshera	0.089	Dadu	0.254	Dir	0.252
58	Okara	1.145	Sanghar	0.083	Khairpur	0.254	Sanghar	0.252
50	Khanawal	1 137	Badin	0.075	Sanghar	0.243	Pishin	0.252
60	Kinducwai	1 127	Thatta	0.045	T.T. Singh	0.237	Sukkar	0.24
61	Narowal	1.102	Dadu	0.045	Chakwal	0.233	Loralai	0.23
62	Ihalmagsi	0.944	Pishin	0.039	Jaffarabad	0.196	Muzaffarghar	0.23
63	Dishin	0.937	Loralai	0.038	Jacobabad	0.178	Khairpur	0.22
64	Kohlu	0.902	Swabi	0.035	Vehari	0.170	Bahawalnagar	0.22
65	Lodhran	0.867	Jacobabad	0.025	Dera Bugti	0.166	Kasur	0.21
05	Chargeddo	0.778	Panjaur	.0.021	Bhakkar	0.166	Zhob	0.20

TABLE A-1

	N	ATION	-WISE RANKING	OF DIS	TRICTS IN SOCIAL	<u>. INDI</u> C	TATORS	
SNo	Primary Enrollm	ent	Primary Enrollm	ent	Sec. Enrollmen	nt	Sec. Enrollmer	it
5.10.	Rate-Boys		Rate-Girls		Rate-Boys		Rate-Girls	
				1 0 10	P 1 1 1	0.028	Varachi	0.397
1	Larkana	1.371	Jhelum	1.040	Rawalpindi	0.938	Karaciii	0.392
2	Quetta	1.288	Chakwal	0.948	Jhelum	0.829	Falsalabau	0.347
3	Sibi	1.275	Gujrat	0.943	Naushero Feroze	0.751	Pawalpindi	0.320
4	T.T. Singh	1.193	Quetta	0.939	Chakwal	0.744	Quetta	0.311
5	Faisalabad	1.188	Rawalpindi	0.921	Khairpur	0.757	Chakwal	0.306
6	Jhelum	1.177	Shaiwal	0.918	Lanore	0.045	Thakwai	0.293
7	Karak	1.136	Narowal	0.875	Gujrat	0.590	Cuironwolo	0.276
8	Haripur	1.110	T.T. Singh	0.860	Attock	0.581	Gujranwala T.T. Singh	0.276
9	Abbottabad	1.080	Sailkot	0.776	Sailkot	0.522	T.T. Singn	0.270
10	Swat	1.076	Attock	0.751	Gujranwala	0.493	Gujrai Marali Daha Uddin	0.230
11	Gujrat	1.066	Mandi Baha Uddin	0.724	Karachi	0.485	Mandi Bana Oddin	0.246
12	Chakwal	1.027	Faisalabad	0.680	Quetta	0.483	Sankot	0.240
13	Rawalpindi	1.021	Sargodha	0.642	Narowal	0.475	Narowal	0.120
14	Narowal	1.019	Lahore	0.626	Haripur	0.474	Shaiwai	0.170
15	Kahat	0.994	Gujranwala	0.618	Karak	0.471	Multan Ch - I humuno	0.177
16	Jacobabad	0.990	Karachi	0.606	Mainwalai	0.468	Sheikhupura	0.176
17	Barkhan	0.973	Haripur	0.559	Mandi Baha Uddin	0.434	Knanewal	0.170
18	Mandi Baha Uddin	0.959	Hafizabad	0.529	Multan	0.431	Attock	0.172
19	Buner	0.953	Khushab	0.504	T.T. Singh	0.426	Rahim Yar Khan	0.172
20	Chitral	0.953	Mainwalai	0.503	Rahim Yar Khan	0.422	Sargodha	0.172
21	Khairpur	0.940	Abbottabad	0.501	Faisalabad	0.421	Okara	0.148
22	Naushero Feroze	0.938	Karak	0.461	Abbottabad	0.421	Mirpurkhas	0.145
23	Shikarpur	0.937	Malakand	0,446	Chitral	0.419	Bahawalnagar	0.140
24	Shaiwal	0.927	Sheikhupura	0.440	Buner	0.410	Haripur	0.138
25	Attock	0.917	Multan	0.424	Kasur	0.403	Hyderabad	0.137
26	Malakand	0.912	Jhang	0.412	Sibi	0.396	Layyah	0.131
27	Sargodha	0.911	Vehari	0.409	Tank	0.393	D.I. Khan	0.128
28	Khushab	0.908	Bhakkar	0.394	Swabi	0.387	Shikarpur	0.122
29	Charsadda	0.905	Okara	0.380	Khushab	0.383	Vehari	0.121
30	Mirpurkhas	0.887	Nawshera	0.379	Swat	0.375	Malakand	0.121
31	Jhalmagsi	0.850	Khanewal	0.377	D.I. Khan	0.366	Peshawar	0.116
32	Nawshera	0.836	Swabi	0.376	Nawshera	0.365	Kasur	0.116
33	Sanghar	0.834	Bahawalnagar	0.373	3 Mardan	0.365	Mainwalat	0.115
34	Dera Bugti	0.832	Kahat	0.369	9 Malakand	0.364	Lodhran	0.115
3	Bannu	0.830	Layyah	0.363	3 Charsadda	0.360	Bhawalpur	0.111
36	5 Sukkar	0.830	D.I. Khan	0.35	I Sheikhupura	0.348	3 Tank	0.106
37	D.I. Khan	0.825	Mardan	0.350) Sargodha	0.335	Khushab	0.104
38	B Peshawar	0.822	Sibi	0.34	8 Layyah	0.33	Larkana	0.100
39	Kohlu	0.820	Kasur	0.33	7 Khanewal	0.320) Jhang	0.098
4() Sailkot	0.814	Tank	0.32	9 Kahat	0.31	3 Hafizabad	0.097
4	Swabi	0.811	D.G. Khan	0.32	6 Shaiwal	0.30	5 Nawshera	0.094
4	2 Lakki	0.800) Bhawalpur	0.32	4 Lakki	0.30) Abbottabad	0.088
4	3 Bhakkar	0.784	Peshawar	0.31	7 Peshawar	0.293	2 Karak	0.083
4	4 Guiranwala	0.784	Chitral	0.31	2 Bahawalnagar	0.28	8 Chitral	0.083
4	5 Pishin	0.760	5 Rahim Yar Khan	0.31	1 Bhawalpur	0.28	6 Swabi	0.080
	6 Mainwalai	0.760) Swat	0.29	6 Bhakkar	0.28	2 Sukkar	0.079
	7 Khanewal	0.75	I Hyderabad	0.28	9 Jhang	0.26	7 Muzaffarghar	0.078
	8 Sheikhupura	0.74	3 Manshera	0.27	7 Ziarat	0.25	4 Mardan	0.078

TABLE A-1

No Drimary Encollment			Primary Enrollment		Sec. Enrollment		Sec. Enrollment	
INO.	Primary Enrom Rate-Boys	nent	Rate-Girls		Rate-Boys		Rate-Girls	
	Katt-Doys							
	D	0.720	Donnu	0.269	Bannu	0.253	Kahat	0.076
49	Dir U.G. I. I	0.729	Dailliu Dunor	0.269	Vehari	0.243	Naushero Feroze	0.076
50	Hafizabad	0.724	Charcadda	0.200	D.G. Khan	0.238	Nawabshah	0.072
51	lank	0.725	Lodhran	0.263	Nawabshah	0.236	D.G. Khan	0.069
52	Jhang	0.713	Mirnurkhas	0.202	Dir	0.231	Charsadda	0.066
33	Okara	0.709	Sukkar	0.234	Hyderabad	0.231	Sibi	0.066
54	Ziarat	0.707	Muzaffaruhar	0.232	Mirpurkhas	0.229	Dadu	0.062
-22	Mardan	0.700	Whairpur	0.252	Okara	0.227	Khairpur	0.061
56	Lasbela	0.703	Knairpui	0.217	Sukkar	0.217	Sanghar	0.060
57	Dadu	0.702	Larkana	0.210	Muzaffarghar	0.210	Thatta	0.057
58	Nawabshah	0.696	Ziarat	0.203	Larkana	0.208	Pakpattan	0.057
59	Vehari	0.689	Gawader	0.187	Dadu	0.207	Ziarat	0.056
60	Multan	0.663	Dir	0.180	Dauu Uafizabad	0.207	Swat	0.053
61	Karachi	0.661	Thatta	0.180	Chagai	0.183	Bhakkar	0.047
62	Kasur	0.661	Chagai	0.179	Barkhan	0.178	Buner	0.043
63	Lahore	0.655	Lasbela	0.174	Dai Khan Kablu	0.170	Bannu	0.04
64	Chagai	0.645	Nawabshan	0.169	Loffershad	0.170	Manshera	0.040
65	Lodhran	0.624	Rajanpur	0.164	Shikomur	0.170	Rajannur	0.034
66	Thatta	0.623	Lakki	0.164	Snikarpur	0.105	Lashela	0.02
67	Badin	0.615	Dadu	0.162	Lasbela	0.150	Dadin	0.02
68	Mastung	0.612	Mastung	0.156	Manshera	0.157	Chauai	0.02
69	Layyah	0.582	Pakpattan	0.145	Sangnar	0.150	Mastung	0.02
70	Gawader	0.582	Shikarpur	0.136	Lodhran	0.150	Jaashahad	0.02
71	Manshera	0.573	Pishin	0.127	Rajanpur	0.143	Jacobabau	0.02
72	Bahawalnagar	0.541	Turbat	0.115	Gawader	0.141		0.01
73	D.G. Khan	0.533	Naushero Feroze	0.109	Pakpattan	0.135	Pisnin	0.01
74	Bhawalpur	0.506	Barkhan	0.104	Dera Bugti	0.132	Panjgur	0.01
75	Rahim Yar Khan	0.498	Sanghar	0.100	Pishin	0.131	Barkhan	0.01
76	Jaffarabad	0.473	Kharan	0.099	Mastung	0.126		0.01
77	Hyderabad	0.468	Killa Saifullaha	0.096	Thatta	0.124	Jaffarabad	0.01
78	Bolan	0.465	Badin	0.093	Jacobabad	0.115	Loralai	0.01
79	Muzaffarghar	0.443	3 Kohlu	0.092	2 Kharan	0.11.	Tharparkar	0.00
80	Rajanpur	0.365	5 Panjgur	0.090	Badin	0.104	Khuzdar	0.00
81	Loralai	0.364	Jaffarabad	0.088	3 Khuzdar	0.099	Gawader	0.00
82	Kharan	0.347	7 Jacobabad	0.086	5 Jhalmagsi	0.095	Zhob	0.00
83	Pakpattan	0.324	1 Khuzdar	0.073	3 Tharparkar	0.095	Killa Saifullaha	0.00
84	Khuzdar	0.310	5 Loralai	0.07	Awaran	0.09	Kharan	0.00
85	Awaran	0.310	6 Awaran	0.05	8 Bolan	0.07	3 Kohlu	0.00
86	Killa Saifullaha	0.302	2 Jhalmagsi	0.05	5 Loralai	0.05	7 Awaran	0.00
87	Nasirabad	0.27	1 Zhob	0.054	4 Nasirabad	0.05	5 Turbat	0.00
88	Zhob	0.24	6 Nasirabad	0.04	8 Killa Saifullaha	0.04	7 Jhalmagsi	0.00
80	Tharparkar	0.21	3 Bolan	0.03	9 Turbat	0.03	4 Kalat	0.00
- Q.A	Kalat	0.18	9 Musa Khail	0.03	6 Zhob	0.03	2 Bolan	0.00
90	Musa Khail	0.18	4 Tharparkar	0.03	3 Musa Khail	0.02	9 Nasirabad	0.0
71	Turbat	0.15	9 Dera Bugti	0.02	9 Kalat	0.02	8 Musa Khail	0.0
92	Donigur	0.15	1 Kalat	0.02	7 Panigur	0.02	5 Dera Bugti	0.0
9.	s ranjgui	0.11	1) Kohietan	0.00	7 Kohistan	0.00	4 Kohistan	0.0
· • • •	41Kohistan	0.04	12 [INUIIISIAII	0.00			- and	

TABLE A-1

	NATION-WISE RANKING OF DISTRICTS IN SOCIAL INDICATORS									
SN	SNo. Literarcy Ratio			Literarcy Rat	tio	% of HH With				
		Male-1981	-1981 Female-1981		1	Inside Piped Water				
						1987				
L					10.010	()	71 400			
	1	Rawalpindi	60.770	Karachi	48.840	Quetta	66.200			
	2	Karachi	60.000	Lahore	40.950	Karachi	63 100			
	3	Chakwal	54.630	Rawalpindi	31.260	Lanore	40.150			
	4	Lahore	54.580	Haripur	26.600	Peshawar	3/1.500			
	5	Jhelum	53.390	Chakwal	25.660	Hyderabad	22,200			
	6	Quetta	46.300	Jhelum	24.730	Koniu	22 764			
	7	Gujrat	42.780	Quetta	23.200	Loralai	21.000			
	8	Abbottabad	41.640	Nawabshah	23.008	Barkhan	31.999			
	9	Faisalabad	41.610	Naushero Feroze	23.008	Kahat	31.900			
	10	T.T. Singh	40.850	Charsadda	21.790	Malakand	31.850			
	11	Sailkot	40.110	Nawshera	21.790	Musa Khail	31.320			
	12	Gujranwala	38.170	Faisalabad	20.680	Rawalpındi	31.000			
	13	Sukkar	37.490	Sailkot	20.560	Nawshera	30.099			
	14	Attock	36.970	Gujranwala	20.520	Bannu	28.701			
	15	Hyderabad	36.510	Hyderabad	19.810	Lakki	27.749			
	16	Khanewal	36.280	T.T. Singh	18.670	Abbottabad	27.385			
	17	Sargodha	35.870	Gujrat	18.670	Chitral	27.323			
	18	Shikarpur	35.640	Mandi Baha Uddin	18.670	Sibi	27.237			
1	19	Karak	34.750	Tank	18.430	Swat	27.162			
	20	Narowal	34.700	Mirpurkhas	16.405	Charsadda	26.760			
	21	Okara	34.540	Swabi	15.950	Tank	25.957			
	22	Khairpur	34.230	Narowal	15.470	D.I. Khan	25.172			
	23	Mainwalai	33.660	Okara	13.740	Chakwal	25.100			
	24	Mandi Baha Uddin	33.400	Khanewal	13.650	Buner	25.000			
	25	Larkana	32.630	Multan	12.880	Haripur	24.759			
	26	Multan	32.610	Sukkar	12.810	Sargodha	24,100			
	27	Dadu	32.480	Sargodha	12.770	Sailkot	23.503			
	28	Kahat	32.090	Sheikhupura	12.540	Gujrat	22.225			
	29	Peshawar	31.270	Bhawalpur	12.210	Karak	21.900			
	30	Sheikhupura	30.910	Shaiwal	11.680	Pishin	21.600			
	31	Shaiwal	30.480	Ziarat	11.500	Multan	21.443			
	32	Jhang	30.040	Attock	11.070	Mirpurkhas	20.343			
1	33	Khushab	30.040	Abbottabad	10.900) Gujranwala	20.321			
	34	Hafizabad	28.600	Peshawar	10.860) Bahawalnagar	20.100			
	35	Layyah	28.580	Rahim Yar Khan	10.650) Faisalabad	19.800			
	36	Sanghar	28.460) Larkana	9.93(Dir	18.900			
	37	Bahawalnagar	28.330) Hafizabad	9.700	Attock	17.800			
	38	Rahim Yar Khan	28.030	Bahawalnagar	9.600) Shaiwal	17.563			
	39	Vehari	27.890) Kasur	9.470) Pakpattan	17.083			
	40	Bhakkar	27.500) Jhang	9.300	D.G. Khan	16.000			
	41	Bhawalpur	27.440) Khushab	9.300) Manshera	14.833			
	42	D.I. Khan	27.240) Vehari	9.190) Sukkar	14.700			
	43	Bannu	27.140) Chagai	9.00) Jhelum	14.400			
	44	Kasur	26.850	Buner	8.73) Narowal	13.99			
	45	Haripur	26.60) Shikarpur	8.73) Kohistan	13.50			
	ΔF	Thatta	26.47) Dadu	8.61	0 Nawabshah	13.20			
	47	Malakand	26.40) Sanghar	8.46	0 Mastung	13.11			
	- 48	Mardan	26.08	D.G. Khan	8.12	0 Mandi Baha Uddin	12.96			

TABLE A-1

SNo. Literarey Ratio Male 1981 Literarey Ratio Female-1981 "% of HIH With Inside Piped Water 1987 44 Muzaffarghar 25.810 Mainwalai 8.030 Hafizabad 1.2724 50 Lakki 25.350 D.I. Khan 8.010 Mainwalai 1.2100 51 Pakpattan 24.990 Tharparkar 7.800 Okara 1.1500 52 Chitral 24.120 Pakpattan 7.800 Okara 1.1500 53 Tharparkar 23.006 Lakyatan 7.780 Rajanpur 10.400 54 D.G. Khan 23.000 Badain 6.700 Kalat 9.411 57 Nawabshah 23.008 Badakar 6.610 Bolan 9.300 58 Badin 21.790 Kahat 6.320 Sheikhupura 9.300 60 Charsadda 17.450 Parjgur 5.800 Bharadpur 8.300 61 Marshera 20.920 Mastung 6.200 Badin 8.000	NATION-WISE RANKING OF DISTRICTS IN SOCIAL INDICATORS							
Male-1981 Female-1981 Inside Piped Water 1987 40 Muzaffarghar 25.810 Mainwalai 8.030 Hafrzabad 12.724 50 Lakki 25.350 D.I. Khan 8.010 Mainwalai 12.100 51 Pakpattan 24.990 Tharparkar 7.800 Naushero Feroze 10.430 52 Chitral 24.120 Pakpattan 7.800 Rajanpur 10.400 54 D.G. Khan 23.000 Khairpur 7.050 Lodirran 10.000 55 Lodiran 23.008 Bhakkar 6.610 Bolan 9.395 58 Badin 21.840 Manshera 6.320 Sheikhupara 9.300 60 Charsadda 21.790 Mazaffarghar 6.330 Mardan 9.076 61 Manshera 20.920 Mastung 6.200 Badin 8.000 62 Tank 18.430 Killa Sairfullaha 5.000 Badu 8.300 63 B	SNo.	No. Literarcy Ratio		Literarcy Ratio		% of HH With		
Image: 1987 1987 40 Muzaffarghar 25.810 Mainwalai 8.030 Hafizabad 12.724 51 Pakpattan 24.900 Tharparkar 7.800 Okara 11.500 51 Pakpattan 23.000 Tharparkar 7.800 Naushero Feroze 10.430 52 Chitral 23.000 Thatta 7.720 Rajanpur 10.400 54 D.G. Khan 23.000 Bhakkar 6.610 Bolan 9.300 55 Badin 21.840 Manshera 6.520 Sheikhupura 9.300 59 Nawshera 21.790 Kahat 6.360 Khushab 9.300 60 Charsadda 21.790 Kahat 6.360 Mardan 9.076 61 Manshera 6.520 Sheikhupura 9.300 6 2.06 Badin 8.300 62 Tank 18.430 Killa Saifullaha 5.900 Baduin 8.300 63 Sibi		Male-1981		Female-1981		Inside Piped Water		
40 Muzaffarghar 25.810 Mainwalai 8.030 Hafizabad 12.724 50 Lakki 25.360 D.I. Khan 8.010 Mainwalai 12.100 51 Pakpattan 24.990 Tharparkar 7.800 Naushero Feroze 10.430 52 Chitral 24.120 Pakpattan 7.800 Rajanpur 10.400 54 D.G. Khan 23.200 Thatta 7.750 Rajanpur 10.400 54 D.G. Khan 23.008 Badin 6.700 Kalat 9.411 57 Nawabshah 23.008 Badain 6.700 Kalat 9.300 58 Badin 21.790 Kahat 6.300 Mardan 9.300 60 Charsadda 21.790 Mashat 6.300 Mardan 9.300 61 Manshera 20.920 Mastung 6.200 Badin 8.300 62 Tank 18.430 Killa Saifullaha 5.900 Dadu 8.300						1987		
International and the state of the	49	Muzaffarghar	25.810	Mainwalai	8.030	Hafizabad	12.724	
51 Pakpatan 24.990 Tharparkar 7.890 Okara 11.500 52 Chiral 24.120 Pakpatan 7.800 Naushero Feroze 10.430 53 Tharparkar 23.660 Layyah 7.780 Rajampur 10.400 54 D.G. Khan 23.008 Badin 6.790 Kalat 9.411 7 Navabshah 23.008 Badin 6.790 Kalat 9.411 7 Navabshah 23.008 Badin 6.520 Sheikhupura 9.300 60 Charsadda 21.790 Kalat 6.330 Mardan 9.300 61 Manshera 20.920 Masting 6.300 Mardan 9.300 62 Tank 18.40 Killa Saifullaha 5.900 Badin 8.300 63 Sibi 17.600 Gawader 5.800 Blawalpur 8.300 64 Jacobabad 17.450 Panjgur 5.800 Gawader 8.000 64 Jingur 15.900 Malkand 5.100 Ghausatipur	50	Lakki	25.350	D.I. Khan	8.010	Mainwalai	12.100	
S2 Chitral 24,120 Pakpattan 7.800 Naushero Feroze 10.430 53 Tharparkar 23,600 Layyah 7.780 Rajanpur 10.400 54 D.G. Khan 23,000 Khairpur 7.050 Lodhran 10.000 55 Lodhran 23,008 Bhakkar 6.610 Bolan 9.395 58 Badin 21,840 Manshera 6.520 Sheikhupura 9.300 60 Charsadda 21,790 Kalat 6.330 Mardan 9.076 61 Manshera 20,920 Mastung 6.200 Badin 8.300 62 Tank 18,430 Killa Saifullaha 5.900 Dadu 8.300 63 Sibi 17,600 Gawader 5.800 Bhawalpur 8.300 64 Jacobabad 17,450 Panjgur 5.800 Bhawalpur 8.300 65 Dir 16,930 Barkhan 5.500 Tata 7.900	51	Pakpattan	24.990	Tharparkar	7.890	Okara	11.500	
53 Tharparkar 23.660 Layyah 7.780 Rajanpur 10.400 54 D.G. Khan 23.060 Khairpur 7.050 Lodhran 10.000 55 Lodhran 23.068 Badin 6.790 Kalat 9.411 56 Nawshera 23.008 Bhakkar 6.610 Bolan 9.300 58 Badin 21.800 Kahat 6.520 Sheikhupura 9.300 50 Nawshera 21.790 Kahat 6.360 Khushab 9.300 60 Charsadda 21.790 Muzaffärghar 6.330 Mardan 9.076 61 Manshera 20.920 Mastung 6.200 Badin 8.300 62 Tank 8.430 Killa Saifullaha 5.900 Dadu 8.300 63 Sibi 17.600 Gawader 5.800 Bhawalpur 8.300 64 Jacobabad 17.450 Pangur 5.800 Gawader 8.000	52	Chitral	24.120	Pakpattan	7.800	Naushero Feroze	10.430	
54 D.G. Khan 23.200 Thata 7.720 T.T. Singh 10.100 55 Lodhran 23.008 Badin 6.790 Kalat 9.411 7 Nawabshah 23.008 Badin 6.790 Kalat 9.411 7 Nawabshah 23.008 Badin 6.790 Kalat 9.411 7 Nawabshah 21.840 Manshera 6.520 Sheikhupura 9.300 61 Manshera 21.790 Kahat 6.330 Mardan 9.076 61 Manshera 20.920 Mastung 6.200 Badin 8.600 62 Tank 18.430 Killa Saifullaha 5.000 Dadu 8.300 63 Sibi 17.600 Gawader 5.800 Bhawalpur 8.300 64 Jacobabad 17.450 Panjgur 5.800 Gawader 8.000 64 Jacobabad 17.450 Marafan 5.100 Thata 7.900 <t< td=""><td>53</td><td>Tharparkar</td><td>23.660</td><td>Lavyah</td><td>7.780</td><td>Rajanpur</td><td>10.400</td></t<>	53	Tharparkar	23.660	Lavyah	7.780	Rajanpur	10.400	
S Lodirran 23.060 Khairpur 7.050 Lodirran 10.000 56 Naushero Feroze 23.008 Badin 6.790 Kalat 9.411 57 Nawabshah 23.008 Bhakkar 6.610 Bolan 9.395 58 Badin 21.840 Marshera 6.520 Sheikhupura 9.300 59 Nawshera 21.790 Kahat 6.360 Khushab 9.300 60 Charsadda 21.790 Muzaffarghar 6.330 Mardan 9.076 61 Manshera 20.920 Mastung 6.200 Badin 8.600 62 Tank 18.430 Killa Saifullaha 5.000 Bhawalpur 8.300 63 Sibi 17.600 Gawader 5.800 Bhanewal 8.200 64 Macobada 17.450 Matkand 5.410 Sanghar 7.800 67 Swabi 15.950 Malakand 5.100 Chagai 7.100	54	D G Khan	23.200	Thatta	7,720	T.T. Singh	10.100	
Sousshero Feroze 23.008 Badin 6.790 Kalat 9.411 57 Nawshera 23.008 Bhakkar 6.610 Bolan 9.395 58 Badin 21.790 Kahat 6.320 Sheikhupura 9.300 60 Charsadda 21.790 Kahat 6.360 Khushab 9.300 61 Manshera 20.920 Mastung 6.200 Badin 8.600 62 Tank 18.430 Killa Saifullaha 5.900 Dadu 8.300 63 Sibi 17.600 Gawader 5.800 Bhawalpur 8.300 64 Jacobabad 17.450 Panjgur 5.800 Gawader 8.000 65 Dir 16.930 Barkhan 5.500 Thatta 7.900 66 Mirpurkhas 15.405 Musa Khail 5.400 Thata 7.900 7 Swabi 15.950 Matkand 5.410 Sanghar 7.803 7 <	55	Lodhran	23.060	Khairpur	7.050	Lodhran	10.000	
Jackarovski 23.008 Bhakkar 6.610 Bolan 9.395 S8 Badin 21.840 Manshera 6.520 Sheikhupura 9.300 G0 Nawshera 21.790 Kahat 6.360 Khushab 9.300 G0 Charsadda 21.790 Muzaffarghar 6.330 Mardan 9.076 G1 Manshera 20.920 Mastung 6.200 Badin 8.600 G2 Tank 18.430 Killa Saifullaha 5.000 Bhawalpur 8.300 G4 Jacobabad 17.450 Panjgur 5.800 Bhawalpur 8.300 G5 Dir 16.930 Barkhan 5.500 Thatta 7.900 G7 Swabi 15.500 Malakand 5.410 Sanghar 7.800 G8 Rajanpur 15.500 Malakand 5.100 Chagai 7.100 Ziarat 15.000 Mardan 5.100 Chagai 7.100 Ziarat 15.000	56	Naushero Feroze	23 008	Badin	6.790	Kalat	9.411	
58 Badin 21.840 Manshera 6.520 Sheikhupura 9.300 59 Nawshera 21.790 Kahat 6.330 Mardan 9.076 60 Charsadda 21.790 Muzaffarghar 6.330 Mardan 9.076 61 Manshera 20.920 Mastung 6.200 Badin 8.600 62 Tank 18.430 Killa Saifullaha 5.900 Dadu 8.300 63 Sibi 17.600 Gawader 5.800 Bhawalpur 8.300 64 Jacobabad 17.450 Panjgur 5.800 Khanewal 8.200 65 Dir 16.930 Barkhan 5.500 Gawader 8.000 66 Mirpurkhas 16.405 Musa Khail 5.500 Gawader 8.000 67 Swabi 15.950 Malakand 5.410 Sanghar 7.800 7 Swabi 15.050 Rajanpur 5.320 Swabi 7.484 7 Pishin 15.000 Mardan 4.000 Chagai 7.100	57	Nawabshah	23.008	Bhakkar	6.610	Bolan	9.395	
Datam 21.500 Kahat 6.360 Khushab 9.300 60 Charsadda 21.790 Kahat 6.330 Mardan 9.76 61 Manshera 20.920 Mastung 6.200 Badin 8.600 62 Tank 18.430 Killa Saifullaha 5.900 Badin 8.300 63 Sibi 17.600 Gawader 5.800 Bhawalpur 8.300 64 Jacobabad 17.450 Panjgur 5.800 Gawader 8.000 65 Dir 16.930 Barkhan 5.500 Gawader 8.000 66 Mirpurkhas 16.405 Musa Khail 5.500 Gawader 8.000 67 Swabi 15.950 Malakand 5.410 Sanghar 7.800 68 Rajanpur 15.520 Lodhran 5.320 Swabi 7.484 0 Pishin 15.000 Mardan 5.100 Chagai 7.100 7 Kalat<	58	Radin	21.840	Manshera	6.520	Sheikhupura	9,300	
Spin Navsitcha 21.750 Kuhar Spin Navsitcha 21.750 60 Charsadda 21.790 Muzaffarghar 6.330 Mardan 9.076 61 Manshera 20.920 Mastung 6.300 Badin 8.600 62 Tank 18.430 Killa Saifullaha 5.000 Dadu 8.300 63 Sibi 17.600 Gawader 5.800 Bhawalpur 8.300 64 Jacobabad 17.450 Panigur 5.800 Khanewal 8.200 65 Dir 16.930 Barkhan 5.500 Gawader 8.000 66 Mirpurkhas 16.405 Musa Khail 5.000 Thatra 7.900 67 Swabi 15.950 Malakand 5.410 Sanghar 7.880 68 Rajanpur 15.202 Lodhran 5.320 Swabi 7.484 70 Pishin 15.000 Mardan 5.00 Chagai 7.000 7 Kalat	50	Nawshera	21.010	Kahat	6 360	Khushab	9.300	
Charada 21.70 Mathera C.200 Badin 8.600 Canshera 20.920 Masting 6.200 Badin 8.600 G1 Manshera 20.920 Masting 6.200 Badin 8.600 G2 Tank 18.430 Killa Saifullaha 5.900 Dadu 8.300 G4 Jacobabad 17.450 Panjgur 5.800 Khanewal 8.200 G5 Dir 16.930 Barkhan 5.00 Gawader 8.000 G5 Dir 16.930 Barkhan 5.00 Gawader 8.000 G6 Mirpurkhas 16.405 Musa Khail 5.500 Gawader 8.000 G7 Swabi 15.950 Malakand 5.40 Jahlmagsi 7.880 G8 Rajanpur 15.200 Lodran 5.340 Jahlmagsi 7.800 G1 Ziarat 15.000 Mardan 5.100 Chagai 7.100 Ziarat 10.000	57	Charsadda	21.790	Muzaffarghar	6 3 3 0	Mardan	9.076	
Cit Tank 10.700 Tank 10.700 C2 Tank 10.7400 Gawader 5.000 Bhawalpur 8.300 G3 Sibi 17.450 Panjgur 5.800 Bhawalpur 8.300 G4 Jacobabad 17.450 Panjgur 5.800 Khanewal 8.200 G5 Dir 16.930 Barkhan 5.500 Gawader 8.000 G6 Mirpurkhas 16.405 Musa Khail 5.500 Thatta 7.900 G7 Swabi 15.950 Malakand 5.410 Sanghar 7.800 G8 Rajanpur 15.520 Lodhran 5.340 Jhalmagsi 7.683 G9 Swat 15.000 Mardan 5.100 Chagai 7.100 Ziarat 11.500 Jhafmagsi 4.800 Panjgur 7.100 Ziarat 10.300 Sibi 4.400 Tharparkar 6.910 G2 Lasbela 10.300 Sibi 4.400 Rhim Yar Khan 6.600 G5 Chagai 9.000 Karak 3	61	Manshera	20.920	Mastuno	6 200	Badin	8.600	
Construct Data and the second se	62	Tank	18 430	Killa Saifullaha	5.900	Dadu	8.300	
bit bit <td>63</td> <td>Sibi</td> <td>17 600</td> <td>Gawader</td> <td>5.800</td> <td>Bhawalpur</td> <td>8.300</td>	63	Sibi	17 600	Gawader	5.800	Bhawalpur	8.300	
65 Dir 16.930 Barkhan 5.500 Gawader 8.000 66 Mirpurkhas 16.405 Musa Khail 5.500 Thatta 7.900 67 Swabi 15.950 Malakand 5.410 Sanghar 7.800 68 Rajanpur 15.20 Lodhran 5.340 Jhalmagsi 7.683 69 Swat 15.080 Rajanpur 5.320 Swabi 7.484 70 Pishin 15.000 Mardan 5.100 Chagai 7.100 71 Ziarat 11.500 Jhalmagsi 4.800 Panjgur 7.100 72 Kalat 10.600 Jaffarabad 4.700 Vehari 7.000 72 Kalat 10.300 Sibi 4.400 Tharparkar 6.915 74 Turbat 9.500 Karak 3.570 Lasbela 6.500 76 Buner 8.730 Bannu 3.420 Ziarat 5.608 76 Bolan 8.100 Dir 2.770 Turbat 4.900 <td< td=""><td>64</td><td>Jacobabad</td><td>17.450</td><td>Panigur</td><td>5.800</td><td>Khanewal</td><td>8.200</td></td<>	64	Jacobabad	17.450	Panigur	5.800	Khanewal	8.200	
66 Mirpurkhas 16.405 Musa Khail 5.00 Thatta 7.900 67 Swabi 15.950 Malakand 5.410 Sanghar 7.800 68 Rajanpur 15.520 Lodhran 5.340 Jhalmagsi 7.683 69 Swat 15.080 Rajanpur 5.320 Swabi 7.484 70 Pishin 15.000 Mardan 5.100 Chagai 7.100 71 Ziarat 11.500 Jhalmagsi 4.800 Panjgur 7.100 72 Kalat 10.600 Jaffarabad 4.700 Vehari 7.000 72 Kalat 10.600 Kharan 4.200 RhimYar Khan 6.615 74 Turbat 9.000 Kwaran 4.200 RhimZara 6.800 75 Chagai 9.000 Karak 3.570 Lasbela 6.500 76 Buner 8.730 Bannu 3.420 Ziarat 5.608 76 Bolan 8.100 Chitral 2.930 Bhakkar 5.3	65	Dir	16 930	Barkhan	5.500	Gawader	8.000	
600 Finder Math 5.410 Sanghar 7.800 67 Swabi 15.950 Malakand 5.410 Sanghar 7.800 68 Rajanpur 15.520 Lodhran 5.340 Jhalmagsi 7.683 69 Swat 15.080 Rajanpur 5.320 Swabi 7.484 70 Pishin 15.000 Mardan 5.100 Chagai 7.100 71 Ziarat 11.500 Jhalmagsi 4.800 Panjgur 7.100 72 Kalat 10.600 Jaffrabad 4.700 Vehari 7.000 73 Lasbela 10.300 Sibi 4.400 Tharparkar 6.915 74 Turbat 9.500 Kharan 4.200 Rahim Yar Khan 6.600 75 Chagai 9.000 Awaran 4.200 Rabim Yar Khan 6.600 76 Zhob 9.000 Karak 3.570 Lasbela 6.500 76 Buner 8.730 Bannu 3.420 Ziarat 5.608 78 Lorala	66	Mirnurkhas	16 405	Musa Khail	5.500	Thatta	7.900	
6) 5.340 Jhalmagsi 7.683 68 Rajanpur 15.320 Lodhran 5.340 Jhalmagsi 7.683 69 Swat 15.000 Mardan 5.100 Chagai 7.100 71 Ziarat 11.500 Jhalmagsi 4.800 Panjgur 7.100 72 Kalat 10.600 Jaffarabad 4.700 Vchari 7.000 73 Lasbela 10.300 Sibi 4.400 Tharparkar 6.915 74 Turbat 9.500 Kharan 4.200 Rahim Yar Khan 6.600 75 Chagai 9.000 Awaran 4.200 Rahim Yar Khan 6.600 75 Buner 8.730 Bannu 3.420 Ziarat 5.608 78 Loralai 8.700 Jacobabad 3.180 Larkana 5.600 70 Nasirabad 8.100 Chitral 2.930 Bhakkar 5.300 8 Loralai 8.700 Zarat 5.608 2.000 Jacobabad 4.800 8 Ku	67	Swahi	15 950	Malakand	5.410	Sanghar	7.800	
60 Kayata 15.080 Rajanpur 5.320 Swabi 7.484 70 Pishin 15.000 Mardan 5.100 Chagai 7.100 71 Ziarat 11.500 Jhalmagsi 4.800 Panjgur 7.100 72 Kalat 10.600 Jaffarabad 4.700 Vchari 7.000 73 Lasbela 10.300 Sibi 4.400 Tharparkar 6.915 74 Turbat 9.500 Kharan 4.200 Rhim Yar Khan 6.600 75 Chagai 9.000 Awaran 4.200 Rahim Yar Khan 6.600 76 Zhob 9.000 Karak 3.570 Lasbela 6.500 76 Buner 8.730 Bannu 3.420 Ziarat 5.608 78 Loralai 8.700 Jacobabad 3.180 Larkana 5.600 70 Nasirabad 8.100 Chitral 2.930 Bhakkar 5.300 80 Bolan 8.100 Dir 2.770 Turbat 4.900	68	Rajannur	15.520	Lodhran	5.340	Jhalmagsi	7.683	
0 District 15.000 Mardan 5.100 Chagai 7.100 70 Pishin 15.000 Mardan 5.100 Chagai 7.100 71 Ziarat 11.500 Jhalmagsi 4.800 Panjgur 7.100 72 Kalat 10.600 Jaffarabad 4.700 Vehari 7.000 73 Lasbela 10.300 Sibi 4.400 Tharparkar 6.915 74 Turbat 9.500 Kharan 4.200 Khuzdar 6.800 75 Chagai 9.000 Awaran 4.200 Rahim Yar Khan 6.600 75 Buner 8.730 Bannu 3.420 Ziarat 5.608 76 Buner 8.700 Jacobabad 3.180 Larkana 5.600 76 Nasirabad 8.100 Chitral 2.930 Bhakkar 5.300 80 Bolan 8.100 Dir 2.770 Turbat 4.900 81 Khuzdar 7.000 Zhob 2.000 Jacobabad 4.800	60	Swat	15.080	Rajannur	5 320	Swabi	7.484	
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TABLE A-1