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AN ANALYSIS OF SCHOOL LEVEL DROP-OUT RATES AND OUTPUT IN PAKISTAN

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### Introduction

Drop-out rates for Pakistan have so far been calculated from primary sample survey data. These have indicated that the main reasons for dropping-out may be the illiteracy of parents and their subsequent disinterest in education, harsh treatment by poor quality teachers, poverty and ill-health and poor teaching facilities, particularly overcrowding. Our original purpose for writing this paper was to generate drop-out rate series over time using secondary enrollment data and by using proxies, test on a macro level the various hypotheses generated at the micro level.

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Our original aim had to be altered. The first draft of this paper was criticised for not carrying out the analysis to regional (urban/rural) disaggregation because dropping-out is more rural than an urban phenomenon, and the reasons mentioned above are more likely to apply in a rural setting. Having made this disaggregation, we found we were unable to also disaggregate our proxy independent variables since the needed time series data were not available.

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<sup>1.</sup> The staff at the Institute of Education and Research, Lahore have supervised several M.A. Theses on the causes of dropping-out. See for example Saqib and Asi / 9 / and Qamar and Khan / 8 /. These studies are neither representative for the country as a whole nor very rigorous, but they do provide some insights into the dropping out phenomenon. For a more recent national study of drop-outs based on stratified random sampling see / 3 /. This study however concentrates on the complex flow of students from class I to class II. The complexity involved will be discussed in the text further on in this paper.

What we have here then is a much less ambitous endeavour, perhaps paving the way for more enterpising researchers. Dropout rates have been presented and discussed by provincial, regional and gender disaggregations. In so far as the cohort analysis we engage in is acceptable, an overall picture is presented for the first time about the magnitude and incidence of this very serious problem. The popular press often states that about fifty percent of primary school students drop-out before completing class V. While this is a fairly accurate approximation, it is little aid for policy making since it does not precisely identify the problem areas by province, region or gender. This is what we have done. We feel this can not only guide policy but also point to the areas where more detailed micro studies should be done.

Enrolled students at the school level who do not drop-out eventually matriculate and become counted in the output statistics. Much Information exists by various disaggregations which has never been presented and reviewed. Once again, our contribution here can only be viewed as preliminary, but nonetheless useful in chartering a course and making a wealth of information available to other researchers. By documenting the differentials by province, gender and region, we have again identified the main problem areas for further indept study of causes. An example will clarify this point. Only a quarter of one percent of the 15-19 population cohort of rural girls in Baluchistan attained a matric degree in 1981. Why this was so and whether this continues to be true are questions that urgently need to be answered.

### Drop-Outs

## a) Data, Definition and Measurement.

For drop-outs, the data utilised in this study are mostly from unpublished sources since class-wise data disaggregated by region and gender have so far only been published by the Punjab 177. Data for the other provinces were taken from the original files made available to us. For Sind this was from the Bureau of Statistics and for NWFP and Baluchistan from the respective Directorates of Education at Peshawar and Quetta. Class-wise enrollment data by regional disaggregation was not available for the earlier years, so our write up on drop-out covers only the period 1977/78-1982/83 i.e the Fifth Plan period. For more details about this data see Khan et.al 12, Appendix-A.7.

Drop-outs constitute students who for various reasons leave school before completion of the education level they enrolled in. 2

Drop-out rates (DRs) were calculated in the following way.

 $E_{\pm}$  = Enrollment in the base year,

Et+1=Enrollment in the next year and in the next class,

Assuming  $E_{\rm t}$  is enrollment in class 1 in 1977/78 then  $E_{\rm t+1}$  is enrollment in class II for 1978/79. The difference identifies

<sup>2.</sup> For a discussion of drop-outs see Brimer and Pauli / 1,pp.15-18/.

the reduction of a class cohort as it proceeds to the next level.

The DRs were then calculated as follows:

$$DR_{t} = \frac{E_{t} - E_{t+1}}{E_{t}} \times 100$$

Using this method, we calculated annual DRs for the period 1978/79 - 82/83, for each class or grade by gender and region.

We computed the average DRs at the primary level by taking the average of individual class DRs for each year. We also computed the DRs for each class by taking the average across all years for that class.

This method of calculating DRs could bias the estimates because it captures the following other causes for changing class size apart from dropping-out:

- Emigration from the province leading to a decline in enrollments.
- 2) Immigration, leading to an increase in enrollments.
- Repetition.
- 4) Unreliability of the coverage and compilation of the data.

In the first case,  $E_{t+1}$  is lowered relative to  $E_t$  whereas in the second case,  $E_{t+1}$  may be raised, thus causing distortions in the DR estimates. It could reasonably be assumed that one and two offset each other. The calculated estimates of repetition rates

that they were inversely related to class number (i.e class i, ii) etc) in primary school. The estimates showed a repetition rate of 57.8 percent for class i and a sharp drop thereafter to a more gradual decline in repetition rates between the other classes / 10, p. 13\_7. The repetition rate for class V was 12.6 percent. The same pattern is evident in a more recent study by the staff of AEPAM / 3. Table No. 1\_7. The high average repetition rates in class I for the whole country were 25 percent and the lowest for class V were 6.8 percent. Since repetition is inversely related to class number, our estimates overstate all DRs. The extent of overstatement would depend on the difference in repetition rates between two successive classes.

The effect of an increase in the number of institutions is not accounted for because new institutions are likely to draw students from within the educational system. New students are most likely to enter either the first class in primary or the sixth class in secondary; the number of students engaged in private study and entering in mid-primary or mid-secondary is assumed to be nominal. With these preliminary remarks out of the way, we turn to the write up about the DRs at the primary level presented in table 1.

Once again, the explanation of why repetition rates are so high in class I is deferred to the next sub-section.

DROP OUT RATES AT THE PRIMARY LEVEL BY PROVINCE,
REGION AND GENDER

		***************************************	1150	201 405 40		Pe	ercenta	ies
	NW	FP	and the same of th	BAN AREAS unjab		nd	Balue	histan
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1978/79	7.9	15.5	9.8	21.4	14.6	13.0	19.8	-
1979/80	14.2	20.4	7.9	12.8	13.9	12.5	24.2	-
1980/81	14.9	21.5	10.8	22.2	15.4	14.9	14.9	-
1981/82	11.5	17.9	7.2	13.0	11.7	18.3	10.9	-
1982/83	15.1	17.6	5.5	15.1	13.5	13.2	12.3	
			RUR	RAL AREAS				
			-					
1978/79	20.6	34.4	14.8	26.7	19.8			100
1979/80	22.0	37.0	12.5	28.9	18.8	23.3	16.2	-
1980/81	22.8	. 32.3	14.2	26.6	17.1	21.0	26.0	100.
1981/82	20.0	32.3	11.4	23:0	18.6	18.6	30.6	W-
982/83	20.1.	32.3	10.7	22:9	23.0	17.6	21.7	ATI.
	in land		1011					

Sources: For Punjab / 7/. For Sind, the Bureau of Statistics, Karachi and for NWFP and Baluchistan the respective Directorates of Education. Girls! DRs were not reported here and further on because there were big fluctuations in these rates overtime, and also the rates appeared to be unrealistic, perhaps due to poor data.

### b. Drop-Out Rate Patterns

Much information is contained in table 1. One efficient way to read it is to concentrate on one dimension at a time.

Following this approach, several points emerge.

At the primary level, DRs for girls exceeded those of boys in both urban and rural areas except for urban SInd. The largest gender differential in both regions was evident for the Punjab province. For various cultural and social reasons, it appears that girls education continues to be viewed as relatively unimportant. The same factors operating on the job market may also hinder incentives to female education.

Rural DRs were larger than urban DRs across the board, with the differential being larger for girls. This region differential was particularly large in the NWFP. Rural DRs being higher is not surprising considering the poorer quality of schooling available there and the higher opportunity cost of attending school for rural children.

A clear picture did not always emerge from an observation of the magnitude of DRs. In both urban and rural areas, Sind had the lowest girl DRs and Punjab the lowest boy DRs. In both regions also, Punjabs boy DRs were considerably lower than in the other provinces. In rural areas, NWFP had the highest girl DRs and Baluchistan the highest boy DRs. The number of years we had to work with is not really adequate for a study of time trends.

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However, casual observation shows fluctuations in all cases except in rural Sind for girls where there was an unambiguous downward trend.

The DRs presented in table 1 are an average of each year over the classes at the primary level. A few insights are forth-coming from presenting the same data as an average for each class across the five years. This information is contained in table II.

Table - !!

DROP OUT RATES AT THE PRIMARY LEVEL BY CLASSES, PROVINCE, REGION AND GENDER (1978/79-1982/83).

			URBAN					
	THE REAL PROPERTY.	IFP	Pur	jab	51	nd	Baluc	histan
Classes	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1-11	52.4	55.4	21.7	42.2	21.0	23.6	40.9	-
11-111	5.8	7.9	3.2	2.0	12.0	13.4	7.9	odz -
111-1V	5.3	6.2	2.4	3.5	10.4	8.2	3.8	
1V-V	-10.4	7.5	5.0	6.6	13.5	12.3	13.4	gnus-
net took			RURAL	I nuth one		the hi		the
1-11	55.3	58.4	17.6	49.2	43.9	34.1	49.8	Iria
11-111	9.1	24.9	11.8	17.2	14.5	15.3	21.2	16-0
111-1V	9.7	22.4	7.8	15.9	13.3	18.3	12.8	70-
I V-V	10.4	29.0 .	13.8	20.2	6.2	14.4	19.3	endre pu

Sources: See table 1.

Table II shows that DRs are much higher from class I to class II, as compared to the other classes. The main reason is the bifurcation in practice of class I into "Kachi" and "Pakki". Kachi can be viewed as the equivalent of kindergarden or a pre-school class. Students in Kachi are mostly there to be acclimated and at the same time to relieve families of child care. Since enrollment in class II shows the flow of only Pakki class students, aggregation of Kachi and Pakki class enrollments as enrollments in class I wrongly shows up as very high DRs for the second class. We cannot adjust DRs for this over estimation because seperate data for enrollments in Kachi and Pakki classes is not available.

There are also two puzzles evident from presenting the data in this alternative fashion. First, there was a negative drop-out from class IV to V for boys in the urban NWFP. Second, there is a consistent pattern of drop-outs decreasing upto class IV and them increasing from class V. -Perhaps, a screening occurs to have only the better students take the first major competitive exam. This no doubt has a bearing on the reputation of teachers and schools.

Another reason for the high DRs at the beginning may be the adjustment problems that occur at the early stage of education for some minors.

<sup>5.</sup> A recent study / 3,p.11 / based on a sample survey attempted to estimate the actual DRs from class I to class II. When Kachi and Pakki were taken together the DRs from class I to class II at the national level was 40 percent and 43 percent for boys and girls and 43 percent and 36 percent for urban and rural areas respectively. When only Pakki was used for estimating DRs from class I to class II, DRs were 12 percent and 14 percent for boys and girls and 14 percent and 10 percent for urban and rural areas respectively.

<sup>6.</sup> We were unable to illicit a response from the NWFP Bureau of Statistics on this issue.

The secondary level DRs have only been presented by class level. The reason for doing this is to avoid having to average over all classes for the various years. Such an average for the urban areas would be meaningless because between fifth and sixth one can expect negative DRs. The reason for this is that a completion of this level of schooling in rural areas in many cases meant a transfer to urban areas for the continuation of schooling. Either facilities were not available in rural areas or else, they were not deemed adequate. This process boosted ERs in urban class VI and this showed up as negative DRs from class V to class VI in urban areas in table III.

Table - III

DROP-OUT RATES AT THE SECONDARY LEVEL BY CLASSES, REGION AND GENDER (1978/79 - 1982/83)

				URBAN			Percen	tages
	NV	<b>IF</b> P	Pun		Si	nd	Baluc	histan
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
V-V I	-5.9	-6.4	-40.3	5.4	-14,1	-7.0	-21.0	bris VI
VI-VII	6.8	11.6	13.7	13.5	8.9	12.9	11.6	eved as
VII-VI11	7.7	10.9	7.0	11.6	6.3	7.2	6.9	Place
VIII-IX	5.2	8.3	2.2	13.4	7.7	15.3	-2.5	fine bits
ıx-x	20.0	18.7	21.8	16.0	2,0	5.9	22.8	-
	or golfe			RURAL				
V-VI	19.6	63.6	. 30.2	63.0	58.8	80.8	50.6	67 -
VI-VI1	10.6	17.0	19.4	22.5	11.2	20.4	18.0	4-78
VII-VIII	15.4	18.8	23.4	20.7	8.9	14.2	12.2	30 -
VIII-IX	23.9	63.8	50.3	68.9	46.1	91.8	70.8	-
IX-X	19.6	11.1	28.9	18.0	6.3	11.3	20.6	-

Source: See table 1.

Correspondingly, there is a massive jump in DRs evident in the rural areas. Observe that they are very high compared to primary class DRs and to most other secondary class DRs. The exceptions are the high DRs that occured between class VIII and class IX.

Once again the same reason was operative. Class VIII marks the end of the middle level and once again one can expect a movement to urban areas for the continuation of education to the matriculation and higher levels. The corresponding decline in urban DRs particularly for boys, could in part be reflecting this. However, there was not always a corresponding decline in urban DRs; Sind DRs and Punjab girl DRs are cases in point.

This suggests that there are other reasons for high DRs at the completion of a school level in rural areas, apart from migrating for further schooling into urban areas. Perhaps the most prominent of these is being drawn into the rural or urban labour force to contribute to family income. Alternatively, in many cases students may have to transfer at this stage to another school (even within the rural area) but the distance may hinder them from doing so. The opposition to gli's in the rural areas pursuing higher education is particularly evident from the DRs from class VIII to IX, which ranges from 64 percent in the NWFP to 92 percent in Sind.

There is another reason why the decline in urban DRs from class VIII to class IX was not as steep as one might expect from the corresponding rise in rural DRs for those classes. A portion of the students after class VIII leave the mainstream education for secondary vocational education. Data was not available to adjust

for this and consequently the DRs are overstated.

A comparitive study of table III by the various disaggregations the data is presented for also reveals that as in the case of primary education, in general girls DRs exceed those of boys. The surprising exception is the reverse holding true from class IX to X for both urban and rural areas in NWFP and the Punjab. Perhaps, after the high attrition for earlier years, the very determined girls go on for matriculation in these cases.

The greatest differential between boy and girl DRs is evident overall for Sind. This is also true for regional differentials where, as in the case of primary education, rural DRs exceed urban DRs by a large margin. Ranking is difficult because few consistent patterns emerge. One can say with some confidence that the largest girl DRs in rural areas were in the Sind.

So far, little has been said about the cumulative drop-outs over a level of education. These are shown in table IV for the primary and secondary levels. Cumulative DRs are generally higher at the primary than at the secondary levels except for rural secondary education where the reverse was often true. The numbers are noteworthy.

Only about 3 percent of rural girls at the secondary level in Sind survived to attempt the matric exam and about 15 percent did so in the Punjab. Other cumulative DRs are not as drastic but still very high. Close to half and a third of the students drop out before attempting the final year exams for the primary and secondary levels in urban areas. In the rural areas, close to two-thirds and four-fifths drop-out. The waste implicit in these ratios is immense.

Table - IV AND GENDER (1978/79-1982/83) CUMULATIVE DROP-OUTS BY LEVEL, PROVINCE REGION

		URBAN	Percenta	ages
	1-	V	VI	
	Boys	Girls	Boys	Girls
WFP .	52.0	61.0	30.7	36.1
unjab	29.1	55.5	37.8	42.8
ind	46.6	45.0	22.9	32.3
Baluchistan	52.6	olid način su ijer	31.6	V alda?
bne del aut al	THE ST STEE			
elu to ma colfe	Turing main	RURAL	T to see	*
WFP	65.7	79.7	55.3.	71.8
unjab	42.2	71.3	77.6	84.7
Ind	62.3	53.7	53.9	96.7
aluchistan	74.5	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	84.9	
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Tabel V from which the growth in matriculates across provinces may be paratred to relate these numbers

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### 11. Output

Table V presents the percentage distribution of matriculates by gender and province for the years 1972 to 1981. In Punjab and Sind, the percentage of females attaining matriculation out of the total increased over this period. However, the percentage of girls matriculating was still about two-fifths of the total in Sind and one-third of the total in the Punjab in 1981. In NWFP there were mild variations over time in the percentages matriculating for both boys and girls. However, the largest differentials by gender were in this province with 87 percent boys and 13 percent girls matriculating in 1981. Baluchistan had considerable fluctuations over time, but the output of girls was higher than that of NWFP through out, although it was somewhat below that of the other two provinces.

We have also included the absolute numbers of matriculates in

Tabel V from which the growth in matriculates across provinces may

be observed. However, it is more meaningful to relate these numbers

to the relevant population cohort. We have used the Population Census

Table - V

PERCENTAGE DISTRIBUTION OF MATRICULATES BY PROVINCE AND GENDER.

	Z	D. CO.	6	Z	Pun Jab		N	Sind	6	N	Baluchistan	100
1972	14131	4.98	13.6	89559	77.0	23.0	39522	67.5	32.5	2689	80.2	1
1973	15144	86.9	3.1	93621	77.6	22.4	41102	68.4	31.6	3089	86.0	
1974	16096	87.8	12.2	89830	76.1	23.9	44211	67.7	32.3	4029	82.4	
1975	15980	86.9	13.1	81422	71.9	28.1	43865	67.3	32.7	3728	83.8	
1976	20487	87.6	12.4	88663	75.3	24.7	-51485	6.99	33.1	3585	73.2	
1977	16086	88.5	1.5	74941	73.2	26.8	47550	65.6	34.4	3479	3.5	
1978	20904	85.6	14.4	106438	71.3	28.7	46568	63.0	37.0	2465	72.0	
6261	21237	87.6	4.	101930	70.9	29.1	56897	63.1	36.9	3960	30.8	
1980	27807	86.8	13.2	109585	68.3	31.7	64134	6.49	35.1	2749	64.7	
1981	29511	87.4	12.6	117446	68.3	31.7	55986	61.6	38.4	4338	71.9	

for this purpose, which provides data on population and matriculates by different age groups by regional and gender disaggregation. We are only reporting here the percentage of matriculates in age group (15-19), since most of the matriculates fall in this age group.

PERCENTAGE OF MATRICULATES OF AGE GROUP (15-19) BY
PAOVINCE REGION AND GENDER

	10 A		- A		Pe	rcentag	es
			(1973)			(1981)	
		Total	Urban	Rural	Total	Urban	Rural
N.W.F.P		g 8					
Total		6.2	13.4	4.4	5.1	12.8	3.5
Boys		9.5	17.4	7.5	7.4	15.1	5.7
Girls		2.4	8.8	0.7	2.3	9.8	0.8
Punjab						1	
Total		8,8	17.6	5.5	7.7	15.1	4.4
Boys		11.6	20.1	8.6	9.7	16.1	6.8
Girls		5.1	14.6	1.4	5.4	13.9	1.7
Sind							
Total		8.9	16.4	1.9	10.1	17.3	2.4
Boys		10.4	18.7	3.2	11.3	18.8	3.7
Girls		7.0	13.6	0.1	8.6	15.6	0.5
Baluchistan							
Total		3.7	12.9	2.0	2.5	10.1	1.0
Boys		5.0	15.3	3.3	3.1	12.1	1.5
Girls		1.9	10.0	0.1	1.5	7.4	0.2
	7 8						

Sources: Pakistan / 5, 6 7.

Gender and regional performances are predictable. Larger proportions of boys matriculated than girls and larger proportions in urban areas matriculated than in rural areas. In the former case, gender differentials in rural areas were much larger particularly in NWFP and the Punjab. In the latter case, the largest regional differentials could be found in Sind and Baluchistan.

The differences over time in the proportions matriculating were not major. In general the trend was for lower proportions matriculating in all provinces except Sind where there was an improved performance. This showed up in the magnitude comparisons across provinces. Sind's ranking in urban areas improved from second in 1973 (behind Punjab) to first in 1981. Similarly, in rural areas its ranking went from fourth in 1973 to third in 1981 (before Baluchistan). Even so, the proportion of rural girls matriculating in Sind was still under one percent in 1981. The same held true for Baluchistan and NWFP.

Common belief suggests that a majority of students pursue a general type of education in Pakistan (i.e humanities). Overall, the evidence presented in table VII refutes this contention for boys NWFP had started the decade with the highest percentages of matriculates in science for both genders but ended up with the lowest percentages. It is the only province which showed decreasing trends. The other provinces had an increasing trends for both genders. Sind showed the biggest increase, while Punjab also had a significant increase in boys' science output. Girls' science output showed a mild increase in Punjab and Sind. Baluchistan showed a substantial increase in girls' science output, and had the highest percentages for the later years.

PROPORTION OF MATRICULATES IN SCIENCE BY PROVINCE
AND GENDER

	NW	IFP .	Pun	ijab	S	Ind	Balu	chistan
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1972	50.3	28.6	45.0	16.9	46.9	25.0	42.1	26.3
1973	54.3	28.5	45.1	16.1	50.1	23.0	42.1	21.0
1974	52.9	28.0	48.3	17.2	49.9	24.2	34.2	17.8
1975	52.6	28.9	47.3	24.7	51.9	27.7	40.0	21.4
1976	50.5	28.0	55.1	14.3	54.2	28.9	44.8	35.7
1977	62.5	35.2	56.8	18.9	62.9	30.4	49.9	27.9
1978	47.9	29.1	54.3	27.7	67.8	29.6	31.2	34.1
1979	29.2	16.6	53.7	19.5	67.8	29.7	55.8	32.3
1980	43.4	17.8	55.7	17.1	69.7	29.9	38.1	36.0
1981	34.6	15.6	56.8	22.2	69.0	28.9	44.1	44.1
						, KINDS		

Source: Pakistan / 4 /.

decide with the highest percentages of excriculates in science for both centers out ended up with the lowest decembages. It is the only

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" output, and had the highest perdantages for the later years,

Another common belief prevailing is that the educational standards have deteriorated over time. One very crude proxy is provided in table VIII, which presents data on the pass percentage in the matriculation examination by gender and provinces. The pass percentage for boys declined substantially over time in all the provinces, with the biggest drop in the Punjab. Only in NWFP has there been an improvement in the last two years for which data was available. Sind had the highest pass percentage for both genders.

PASS PERCENTAGE IN THE MATRICULATION EXAMINATION BY PROVINCE AND GENDER

	NW		Pui	njab.	S	ind	Baluci	nistan
	Boys	Girls	Boys	Girls	Boys	Girls	Boys	Girls
1972	47.4	53.1	60.9	65.8	69.3	78.2	67.9	71.3
1973	42.3	45.2	59.3	60.7	67.8	75.4	69.1	70.9
1974	40.9	39.0	53.5	49.3	68.6	75.0	71.2	54.1
1975	35.0	37.3	44.9	49.5	64.1	71:1	63.7	69.9
976	45.1	47.2	44.8	47.4	65.4	68.9	47.9	58.1
977	46.6	48.6	41.8	51.5	61.8	66.5	48.0	55.0
978	39.8	52.4	42.3	50.7	61.8	73.4	38.7	75.4
979	41.9	47.3	42.3	59.8	61.6	79.0	47.1	69.7
1980	56.6	64.9	46.6	64.9	64.7	77.2	41.6	51.7
981	56.4	57.0	47.9	63.7	66.6	79.7	64.0	54.8

Source: Pakistan / 4 /.

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the year little is an encryation and be observed additional friends of

<sup>7.</sup> Pass percentages could also reflect numerous other phenomenon such as policy changes or a systematic change in grading standards over time.

Interestingly, girls' performance in the matriculation examination has been much better than boys in all the provinces for almost all the years. Although no clear time trands emerged, does girls' performance/presents an encouraging picture. Perhaps only the more motivated and brighter girls stay in school beyond the primary level - given the social and cultural constraint on female education earlier referred to-and hence their average performance is better than boys. In addition, girls could be more serious about their studies for fear of being pulled out from schools if they don't perform well. Boys have more opportunities and fewer social restraints in indulging in non-academic pursuits, and perhaps they may feel more confident about being sent to school despite their poor performance.

So far, we have presented the pass percentages by provinces.

The same information is presented again disaggregated by boards

In table IX. This table shows that there were considerable

fluctuations in pass percentages over time within and across boards.

This need not be worrying if the fluctuations were around a similer mean. However, ranking the pass percentages across boards for all the years show some like Hyderabad, Karachi and Islamabad consistently had a higher pass percentage whereas others like Multan and

Bahawalpur had a consistently lower pass percentage.

It is not clear what this is suggesting. It could be that the sub-educational systems some boards cater to are inferior and have been consistently producing poorer quality students. Alternatively, these boards could have established a tradition of

 $<sup>\</sup>theta$ . The year 1985 is an exception and is therefore excluded from these comparisons.

Table - IX

PASS PERCENTAGES BY BOARDS

so urgonity suglemed. It is obspictly vital for there to be

en	Pesha- war	islama- bad	Rawal- pindi	Lahore	Mul- tan	Bahawal- pur	Sar- godha	Hydera- bad	Kara- chi	Que- tta
1978	41.2	66.0	39.8	42.2	37.2	30.3	50.7	70.8	63.1	44.8
1979	42.5	71.9	54.1	43.9	39.6	37.9	47.9	65.0	68.4	50,2
1980	57.5	72.5	59.3	46.3	44.8	52.3	53.8	68.2	68.8	44.7
1981	56.5	63.4	57.8	50.1	44.6	50.6	54.4	70.3	71.3	61.1
1982	56.9	60.9	58.1	54.2	46.7	49.3	54.1	70.3	73.2	58.2
1983	57.4	58.4	56.4	55.0	45.3	47.8	53.9	70.3	75.0	55.2
1984	41.8	58.5	54.3	59.4	50.5	46.2	55.9	70.3	67.4	61.3
1985	43.3	62.7	49.7	56.5	49.1	36.8	57.8	57.5	49.9	35.5
Mean	49.6	64.3	53.7	51.0	44.7	43.9	53.6	67.8	67.1	51.4
Stan- dard daviat	tens 7.5 d	105.1%	846.0		4.2		2.8	4.3	7.4	8.6

Source: Pakistan / 4 4 7.

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requiring a high standard of the students. The issue needs to be urgently explored. It is absolutly vital for there to be standardisation across boards as long and there are no restrictions on labour mobility and students compete for the same places.

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## III. Summary of Findings.

4.83

6.88

21.3

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The main objective of this paper was to present an overview of the drop-out and output patterns in Pakistan over time along all possible disaggregations. Our findings showed that DRs were generally higher in rural than in urban areas and higher for girls than for boys. Comparing performance across provinces, we found that at the primary level, Punjab had the lowest DRs for boys and Sind for girls both in the urban and rural areas. NWFP and Baluchistan had considerably higher DRs, particularly in the rural areas. The greatest gender differential existed in the Punjab and the greatest regional differential in the NWFP.

In examining the DRs by classes, we found that at the primary level, the highest drop-out occured from class I to class II. This partly resulted from class I enrollments being the sum of Kachi class and Pakki class enrollments. Since separate enrollments of Kachi and Pakki were not available, overestimation of DRs from class I to II was inevitable.

At the secondary level, the data showed negative DRs from class V to class VI and low DRs from class VIII to class IX in the urban areas, and relatively high corresponding DRs in the rural areas. This probably results from the migration of rural students to the urban areas after compeleting the primary or the middle level or a withdrawal from school into the job market in rural areas.

Computation of cumulative DRs showed primary level DRs exceeded those at the secondary level. Even so, upto 97 percent of secondary level rural girls in Sind and 85 percent in the Punjab dropped out before matric. Close to a half and a third of the total students dropped out before attempting the final year exams at the primary and secondary level in urban areas and close to two-thirds and four-fifths did so in the rural areas. Such a high ratio of wastage should be of great concern to policy makers.

Analysing the output patterns, we found that In the Punjab and Sind, the percentage of girls out of total matriculates Increased over the decade. The differential in the distribution of matriculates by gender was the greatest for NWFP. Although the absolute number of matriculates increased over time, this did not keep pace with the growth in the relevant population cohort. Total matriculates as a percentage of the (15-19) population cohort decreased in the intercensal period for all the provinces except for Sind. In 1981, Sind had the highest percentages of matriculates in the urban areas and Punjab did so in the rural areas. NWFP had the largest differential by gender and Sind had the largest differentials by region. Baluchistan had the lowest percentages in

all cases. Perhaps, the most discouraging finding was that about one half of 1 percent of rural girls in Sind and about one quarter of one percent in Baluchistan had matriculated in the siightly higher.

15-19 age cohort in 1981. The corresponding urban statistics were only/

An encouraging result was that out of total matriculates, the percentage opting for science increased over time except in NWFP. Sind showed the biggest increase for boys and Baluchistan for girls. NWFP had started the decade with the highest percentages but ended with the lowest.

Pass percentages of students appaearing in matric dropped in all the provinces with the largest drop for boys in the Punjab. Sind had the highest pass percentages for both genders. Girls' performance was for almost all years better in all provinces than that of boys and improved over time. Surprisingly, girls in Baluchistan had the highest success rate while those in Punjab had the lowest.

There was a large variation in pass percentages across the boards, whereby some like Karachi and hyderabad had consistently higher pass percentages and others like Multan and Bahawalpur had consistently lower pass percentages over the years. This issue needs to be looked into. If grading policies are not standardised, then this means a handicap exists for students matriculating from some boards in competing for the same place in higher education or the same positions on the job market.

or argest differential by gender and Sind had the largest

reacted by region. Aphychiatan had the lowest percentages in

One final suggestion we would like to make is to data gathering agencies. As an aid to future researchers, we suggest that Kacchi and Pakki be treated as seperate classes for data collection. Also, output data should be presented by region because the Population Census Reports indicate that a large regional differential exists. Thus Sind shows up as the forerunner in the aggregate data but the poor showing in regional areas is evident from Table VI.

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#### REFERENCES

- Brimer, M.A. and L. Pauli. Wastage In Education: A World Problem. Paris: UNESCO/IBE. 1971.
- Khan, S.R., N. Mahmood and F. Hussain, "An Appraisal of School Level Enrollments and Facilities in Pakistan: 1970-71 to 1982-83". Islamabad: PIDE Research Report Series No.145. September 1985.
- Malik, S.R., M.T. Ahmed. "A Study on Drop-Outs in Primary Schools in Pakistan. Islamabad: Academy of Educational Planning and Management. Research Study No. 20. Dec. 1985.
- 4. Pakistan. Central Bureau of Education. Secondary School
  Certificate and Higher Secondary School Certificate
  Examination Results. Islamabad. (Several years).
- Pakistan. Statistics Division. Population Census Organisation. Housing, Economic and Demographic Survey of Pakistan, 1973. (Provincial Reports). Islamabad. 1974.
- Pakistan, Statistics Division. Population Census Organisation. 1981 Provincial Census Reports. Islamabad. December 1984.
- 7. runjab. Bureau of Education. Educational Statistics in the Punjab. Lahore. (Several years).
- Qamar, K. M., and R. Khan. "Causes of Drop-Outs at the Secondary Stage in Tehsil Sargodha". M.A. Thesis. Institute of Education and Research, Punjab University. 1976.
- Saqib, S.A., and S.M. Asi. "The Study of the Causes of Drop-Outs in Secondary Schools in the Punjab". M.A. Thesis. Institute of Education and Research, Punjab University. 1978.
- Sind. Bureau of Statistics. Planning and Development Department. Pilot Census of Primary Schools in Sind. 1980/81. Karachi. November 1983.

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