AUTHOR
TITLE

INSTITUTION
SPONS AGENCY
PUB DATE
GRANT
NOTE
PUB TYPE
EDRS PRICE DESCRIPTORS

## IDENTIFIERS

Fishman, Joshua A.
The Acquisition of Biliteracy: A Comparative Ethnography of Four Minority Ethnolinguistic Schools in New York City. Final Report (Second/Final Part).
Yeshiva Univ., New York, N.Y. Ferkauf Graduate School of Humanities and Social Sciences.
National Inst. of Education (ED), Washington, DC.
Aug 82
NIE-G-79-0122
42p.; For related document, see FL 013391.
Reports - Research/Technical (143)
MF01/PC02 Plus postage.
Armenian; Bilingual Education; Bilingualism; *Bilingual Schools; Classroom Observation Techniques; Elementary Secondary Education; English; *Ethnic Groups; Ethnography; French; Greek; Hebrew; Language Acquisition; *Language Skills; Oral Language; *Orthographic Symbols; Private Schools; Reading Skills; Religious Cultural Groups; Sociolinguistics; Speech Skills; *Teaching Methods; Writing Skills;
*Written Language
*New York (New York)

## ABSTRACT

Factors that might influence the acquisition of biliteracy were studied in four schools in the Greater New York Metropolitan Area (an Armenian-English school, a Greek- English school, a Hebrew-English school, and a French- English school). This report is the final part of a two- part report and deals with the tabulation and analysis of ethnographic observations. The effect of studying two different scripts was a major concern of the research, which empioyed a school ethnography approach (Green and Wallat, 1981). Observational data for four grades in the four schools were coded for additional analysis. Findings include the following: (1) writing system differences were reduced by emphasizing the printing system (whether by reading or writing print), particularly in the earliest grades; (2) reading received the most. attention, followed by writing, and speaking; (3) little evidence was found of either out-of-school participation in literacy acquisition or of topical emphasis on matters pertaining to home or community; (4) out-of-school influences on literacy acquisition, though small, occurred primarily for the ethnic language; (5) little awareness or concern was found for nonschool dialect, interlanguage contrasts, or interlanguage variation; (6) for instruction in French and Hebrew, teacher-made materials were more commonly employed than were basal readers, whereas the opposite was true for English instruction; (7) the Greek school stressed choral reading; (8) the French school used individual reading more than did the other schools; and (9) the Hebrew school stressed analytic decoding in both languages more than syathetic zones. (SW)
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NIE Grant Number G-79-0122

THE ACQUISITION OF BILITERACY: A COMPARATIVE ETHNOGRAPHY OF FOUR MLNORITY ETHNOLINGUISTIC

SCHOOLS IN NEW YORK CITY

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August 1982
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1.0 Introduction: Procedural Note ..... 1
2.0 General Background ..... 3
3.0 Sociographic Issues ..... 5
4.0 Proportionality of Language Emphases: Reading, Writing, Speaking ..... 8
5.0 Decoding Strategies ..... 10
6.0 Class, Group or Individual Instruction ..... 14
7.0 Type of Reading Materials ..... 17
8.0 Oral Reading ..... 19
9.0 Where Literacy is Learned: Home vs. School (The Sociofunctional Dimension) ..... 21
10.0 Topical Emphases (Ethnic/Non-Ethnic) of Teaching/Learning Materials ..... 24
11.0 The Sociolinguistic Dimension: Dialect Differences ..... 27
12.0 Cross-Language Contrasts ..... 29
13.0 Interlingual Interferences, Aids and Switching ..... 31
14.0 Sumary and Conclusions ..... 33
15.0 Methodological Postscript ..... 36
16.0 Bibliography ..... 39

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### 1.0 Introduction: Procedural Note

As foreseen in the first part of this report (Fishman, RiedlerBerger, Koling and Steele, February 1982), this second and final part deals with the tabulation and analysis of ethnographic observations. As such, it will be a "Eree-standing" report, dealing with its own methods, findings and conclusions, and will relate to the "first part" report only in passing.

The present "second part" focuses upon the translation of ethnographic observations inftially made by three ethnographers in four different schools. No single school was the province of any single ethnographer and the ethnographic project staff frequently met with one another and with the project director to discuss their observations and impressions and to either resolve differences of opinion or to agree on the types of further observations that were needed (including focused discussions and interviews) so that these differences could be resolved on an empirical basis.

Due to illnesses and other emergencies of a personal nature, roughly half a year elapsed from the completion of all observations ("data collection") until the time that the coding of these ovservations began. Initfally, two coders (both of whom had previously served
as ethoographers) independently coded the same ethnographer data and then compared their codings in order to determine discrepancies in output and difficulties in the coding design. The coding manual was then revised and the process of independent "try-out" coding was recommenced. At this point, one ethnographer left to resettle in Israel and, therefore, was no longer available for further participation in the coding process. All of the coding upon which this report is based is, therefore, derived from the efforts of one ethnographer, coding her own earlier observations as well as the observations of two other ethnographers. Although a few further minor revisions in the coding manual were still made as coding progressed (necessitating some recoding of passages coded earlier), the manual remained essentially unaltered after its initial major revision.

Coding the mass of observational data obtained on four or so grades in four different schools was a slow and difficult operation that required roughly half a year. An observational unit (an "occurrence") was operationally defined as any field note reference to a dimension of concern to the project and provided for in the coding manual. Each "occurrence" was initially coded directly on the page of the observational protocol ("ethnographic record") on which it was encountered. Each coded "occurrence" was later also cut out and pasted upon a separate data card. As a result, we could ultatmately examine "occurrences" in two ways: (a) in their original sequential imbeddedness in the total ethnographic record (contextualized occurrence) and (b) separated from any surrounding context (decontextualized occurrences). While the data in format (b), above, was useful for
tabulation purposes, the data in format (a) needs to be consulted recurringly in order to fully understand why an "occurrence" was coded as it was. All in all, slightly more than a thousand "occurrences" were recognized (1014 to be exact), the exact number varying from one dimension of interest to another due to the fact that in schools, as in society more generally, all possible "occurrences" are not encountered equally often.

### 2.0 General Background

2.1 Given our focus on literacy acquisition, our "occurrences" are derived disproportionately from the first grade, many fewer being derived from kindergarten ("reading readiness") or second grade, and least of all from nursery or third grade and above. In addition, a goodly number of literacy related "occurrences" were ungraded, i.e. they pertained to the halls, cafeteria, library, auditorium, playground or other locations and situations in which children, teachers or other "actors" of various grades were co-present.
2.2 Although our observations were spread out throughout the entire school year and during all of one year and the first quarter of a second year, they nevertheless displayed both some inadvertent as well as some advertent "bunching." Thus, entirely by design, the lion's share of our observations (and, therefore also of our "occurrences") occurred during the first year of study, since the second year's quarter was merely that (a quarter rather than a school year). and was intended for specific, follow-up purposes only. However, quite inadvertently, it developed upon analysis that most of our observations had occurred in mid-yeat (January to March) with somewhat
few coming early in the school year (September-December) and fewer yet toward the end of the school year (April-June). Upon reflection, it seems clear why the above-mentioned bunching of observations occurred. The beginning and the end of the school year were taken up with administrative/organizational activities and with various ritual events that did not yield "occurrences" pertaining to our dimension of inquity. In addition, the end of the school year coincided with final examinations for our ethnographers and these cut down on the observational opportunities available to them. It may very well be, therefore, that literacy acquisition phenomena that are peculiarly end-of-semester related are under-represented in our data.
2.3 Insofar as our data pertain, to or derive from academic specialists, they are largely teacher-focused, both in terms of observations and interviews. On the other hand, they also include a modicum of "occurrences" involving principals, counselors and reading specialists. With respect to non-academic personnel, the lion's share of our data pertain to observations of or interviews with students. Nevertheless, in each school a modicum of data pertain to parents, commenity lay and/or religious leaders and school volunteers. Although the percentages are not the same from school to school (nor from grade to grade), it is still clear that in all instances our "occurrences" primarily consist of observations of (and, secondarily, of interviews with) pupils and teachers and of ethnographic interpretations and reflections upon these observations.

### 3.0 Sociographic Issues

One of our primary dimensions of concern is that which we have called sociographic (earlier: "ethnoGRAPHIC"; see Fishman 1980). This dimension asks whether the acquisition of bilitexacy is differentially impacted by writing-system/printing-system differences. Hebrew, Greek/ Armenian and French may be said to be ordered on a continuum of decreasing sociographic divergence from English. Our global impression, based upon months of observation, was that students in the Hebrew and Greek schools had no more difficulty reading and writing both English and their ethnic mother tongues than did students in the French. In other words, with respect to mastering the various graphic systems employed in the ethnolinguistic schools we have studied, it was our impression that divergence or proximity to English made no noticeable difference in the rate or level of literacy acquisition by the tine the second or third grade was reached.* Let us now see whether sociographic "occurrences" in these various schools (and in their various grades and languages) differ in frequency or not.
3.1 Table IA reveals the distribution of sociographic "occurrences" across languages. A little under a third of all sociographic "occurrences" pertained to English, a little over a half to the ethnic tongues (hereinafter: EMT). The remaining $12 \%$ pertained to contexts in which both languages were involved. In all cases (English, EMT or both), most "sociographic occurrences" pertain to (c) writing print or (a) reading print or ( $a, c$ ) both reading and writing print. The progression of frequencies is in that order in all cases. Clearly

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TA3LE EB: Sociographic Foci by School*

|  |  |  |  |  |  | L | $\cdots$ | al \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ARMDETANS: | 9 | 1 | 10 | 3 | 4 | 0 | 0 | 27 |
| ${ }_{\text {Row }}{ }^{\text {dind }}$ | 33.3 | 3.7 | 37.0 | 11.1 | 14.8 | 0.0 | 0.0 |  |
| Col: | 30.0 | 16.7 | 20.4 | 60.0 | 17.4 | 0.0 | 0.0 | 21.0\% |
| a | 11 | 0 | 15 | 0 | 5 | 0 | 4 | 35 |
| रо\% \% | 31.4 | 0.0 | 42.9 | 0.0 | 14.3 | 0.0 | 11.4 |  |
| COL, | 36.7 | 0.0 | 30.6 | 0.0 | 21.7 | 0.0 | 40.0 |  |
|  | 6 | 5 | 9 | 1 | 4 | 6 |  |  |
| REBRES |  |  |  |  | 4 | 6 | 3 | 34 |
| 80w \% | 17.6 | 14.7 | 26.5 | 2.9 | 11.8 | 17.6 | 8.8 |  |
| Col: | 20.0 | 83.3 | 8.4 | 20.0 | 17.4 | 100.0 | 30.0 | 26.4\% |
| PRENCE | 4. | 0 | 15 | 1 | 10 | 0 | 3 | 33 |
| Rom | 12.1 | 0.0 | 45.5 | 3.0 | 30.3 | 0.0 | 8.8 |  |
| Col: | 13.3 | 0.0 | 30.6 | 20.0 | 43.5 | 0.0 | 30.8 | $25.6{ }^{* \prime}$ |
| Corsmar | 30 | 6 | +9 | 5 | 23 | 6 | 10 | 129 |
| - | 23.3 | 4.7 | 37.9 | 3.9 | 17.8 | 4.7 |  |  |

TABL: Ic: Sociographic Foci by Grade*

| Grade | a 6 | $\square \mathrm{b}$ - | $\square \mathrm{c}$ : | n d \% | a a, c: | a b,d : | $\operatorname{rach}_{\text {rocal }}^{\text {Row }}$ | $\frac{\text { Row }}{\text { notal } \%}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10 | 0 | 17 | 0 | 9 | 0 | 0 | 36 $\quad 770 \%$ |
| Row \% | 27.8 | 0.0 | 47.2 | 0.0 | 25.0 | 0.0 | 0.0 |  |
| C013 | 33.3 | 0.0 | 34.7 | 0.0 | 39.1 | 0.0 | 0 n |  |
| 1 | 19 | 3 | 22 | 0 | 10 |  | 6 | 66 |
| Ro | 28.8 | 4.5 | 33.3 | 0.0 | 15.2 | ${ }^{6} \quad 9.1$ | $6 \quad 9.1$ | 66 |
| Cot. | 63.3 | 50.0 | 44.2 | 0.0 | 435 | 100n | 6 n 0 | 57 |
| 2 | 0 | 0 | 3 | 1 | 2 | 0 | 1 | 7 |
|  | 0.0 | 0.0 | 42.9 | 14.3 | 28.6 | 0.0 | 16.3 |  |
| Col: | 0.0 | 0.0 | 6.1 | 20.0 | 8.7 | 0.0 | 10,0 | $54 \%$ |
| $\underline{y}_{\text {How \% }}{ }^{\text {In }}$ | $\begin{array}{r}33.3 \\ 3.3 \\ \hline\end{array}$ | 2 | 0 | 0 | 0 | 0 | 0 | 3 |
|  |  | 66.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |  |
|  |  | 33.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | $3 \%$ |
| $\text { SOR GRADE }{ }^{\text {n }}$ |  | 1 | 7 | 4 | 2 | 0 | 3 | 17 |
| dom 2 | 0.0 | 5.9 | 41.2 | 23.5 | 11.8 | 0.0 | 17.6 |  |
| Sat5 | 0.0 | 16.7 | 14.3 | 80.0 | 8.7 | 0.0 | 30.0 | $131 \%$ |
| cotima | 30 $\begin{array}{r}30.3 \\ 23.3\end{array}$ | 6 | +9 | 5 | 23 <br> 17.8 | 4.7 | $\begin{array}{ll}10 & \\ & 7.8\end{array}$ | 129 |
| TOTAI |  |  |  |  |  |  |  |  |
| 5 |  | 4.7 |  | 3.9 |  |  |  |  |

[^1]首 secondary. This is reflected by the meager percentages in either (b) reading writing, (d) writing writing or (b,d) both reading and writing writing.
3.2 Table IB reveals that the above mentioned tendency to give priority to the printing system obtains not only both for English and for the EMT: but in all four schools. It is most striking in the Greek and French schools where the fewest number of sociographic "occurrences" were encountered pertaining to the writing system. It is least true in the Hebrew school (where only $55 \%$ of all "occurrences" pertain only to the printing system and were $34 \%$ of all "occurrences" pertain only to the writing system). This might imply that although all schools initially stress the printing system over the writing system, there is, nevertheless, proportionately more attention given to writing systems when they differ maximally from each other as in the Hebrew-English case.
3.3 Finally, grade also seems to be a consideration in accounting for the disproportionate attention given to the printing system. In the earliest grades (hursery/kindergarten and first grade), there are virtually no "occurrences" that involve the writing system, most particularly insofar as writing the writing system is involved. Indeed, the most sizable proportion of soctographic "occurrences" involving the writing system in the early grades is "ungraded," i.e. such "occurrences transpire not in the classroom proper but in hallways, cafeteria, library, etc., where written notices or posters are dis-
nlared. The writing system is thus generally emphasized Inter rathor than earlier and in out-of-grade contexts rather than in grade, whereas the printing system is both emphasized earlier (for reading aa well as for writing) and in more classroom focused contexts.

### 4.0 Froportionality of Language Emphases: Reading, Writing, Speaking

4.1 From the point of view of the focus of classroom activity, there appears to be much more attention given to reading than either to writing or to speaking (Table IIA), and this is true regardless of medium of instruction (English, EMI or both). Apparently, many of the "occurrences" of "writing the printing system" that we reviewed earliex are for the purpose of reading rather than for the purpose of writing per se. Indeed, speaking too is a more common focus than writing in the early grades, particularly when an EMT is either the medium or co-medium of instruction. This is doubtlessly a reflection of the fact that all the schools we are studying (and particularly the French and Hebrew schools) have a contingent of pupils for whom the EMT is unknown (and a smaller contingent for whom English in unknown) when they arrive in school. Relative to reading and speaking, writing is given negligible attention indeed in the grades we have studied. 4.2 Table IIB confirms the fact that the reading>speaking>writing progression holds in every school. Table IIC adds to this picture by revealing that speaking is stressed somewhat more in nursery/kindergarten (i.e. at the pre-reading stage), in second grade (after the first grade emphasis on reading) and in non-graded (out of class) contexts. All in all, therefore, it would appear from both


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TABLE IIC (2): ZON GRADE LNMGAGE LEARNING SKILLS BY LimGCAGE




Tables $I t, B$, and $C$ and $I I A, B$ and $C$ that the schools we have been scudying tend to pursue a traditional reading/printing stress in the early grades. This stress may be more apparent than real. As ethnographers interested in litaracy acquisition, we may merely have been more attentive to reading "occurrences" than to speaking "occurrences." On the other hand, while there may be some validity to the above autionary note, it would not at all explain the paucity of writing related "occurrences." Writing is obviously part of literacy and a traditional area of school responsibility as well. Therefore, although we may, perhaps, doubt that speaking "occurrences" were as rare as our records indicate, the emphasis on reading relacive to writing is probably a valid reflection of how our four schools address biliteracy acquisition in the grades under study. The fact that this hierarchy reoccurs in non-graded "occurrences," Table IIC(2), reinforces our conviction that it is, indeed, a reality in the contexts we have studied.

### 3.0 Decoding Strategies

Given the above-noted emphasis on reading, decoding strategies must necessarily loom large in any examination of the pedagogical dimensions of biliteracy acquisition. All in all, we are concerned whether ethnopedagogies exist leading each of our schools in a different direction (to adopt different methods) in the teaching of reading. Their emphases with respect to decoding strategies becomes one area in which we can try to find out whether ethnopedagogies existy L.e. whether the schools are maxkedly different in their approaches
to teaching reading or, conversely, whether they are more pedagogically alike than pedagogically discrepant.
S.1 Table IIIA reveals that, in general, the differences across languages are markedly smaller than the similarities. Regardless of the medium involved (English, EMT or both), the synthetic approach (b) is implemented more frequently than the analytic one (a), and the analytic approach, in turn, is implemented more frequently than the syllabary approach (c). The major exception co the above progression occurs in EMT medium "occurrences" where sentence reading is more commonly encountered than the analytic approach. 5.2 Table III permits us to note another major exception to the $b>a>c$ (synthetic> analytic> syllabaries) progression, namely: in the Hebrew school. This school reveals a very clear preponderance of "occurrences" of analytic decoding strategies. Further analysis (Table IIIB[2]) indicates that this preponderance is attributable to English instruction in part and to instruction in which both languages are employed (contrastively?) as media. However, even in Hebrew, instruction, the level of analytic decoding is far higher than it is for decoding in any medium at any other school. Thus we must conclude that at the Hebrew school there is a systemic preference for analytic (whole word) decoding. This is really quite a starting finding since the traditional Jewish pedagogic approach was synthetic/syllabary with a vengeance, due both to the non-vernacular nature of the language and the absence of vowel letters in the writing system, Perhaps an ethopedagogic reaction against the traditional system has



EAELEIITH: STRATEGIES FOR LEARNIMG TO DECODE/SEMTEYCE READHIG 3Y SCHCOL





[^2]transpired in this very modern American Kebrew school, leading it to abandon the synthetic approach "with a vengeance" in favor of the analytic one.
5.3 Finally, Talbe IIIC reveals that the usually encountered preponderance of synthetic over other decoding strategies (with the exceptions noted above) is primarily implemented in nursery/kindergarten, first grade and ungraded contexts. In the second and third grades, on the other hand, sentence reading becomes a very important strategy. Indeed, sentence reading is cleaxly a grade related phenomenon, rising consistently from grade to grade, from nursery/kindergarten, through to second grade, and correspondingly both the synticetic and analytic strategies continue to fall from grade to grade. There does not seem to be a transition grade during which analytic approaches are more comon than synthetic ones before sentence reading becomes established. Rather, synthetic approaches remain consistently more comon than analytic ones even as sentence reading approaches build up in frequency.

All in 311 , there $i s$ some evidence for ethnopedagogies. With the possible exception of the Hebrew school (in which analytic decoding seens to prevail or to be consistently more common than elsewhere), the synthetic ("phonetic") method is widely stressed in the early grades. However, this stress on synthetic decoding could be either an American influenced "back to basics" emphasis, on the one hand, or, on the other hand, a continuation of traditional, classical, 0ld World pedagogic emphases which tend to be synthetic rather than analytic. It is fmpossible at this stage to tell whether ethnopedagogies are
definitely revealed by this stress on synthetic decoding. This is definitely an area which merits inquity, both with respect to English as well as with respect to EMT literacy acquisition.

### 6.0 Class, Group or Individual Instruction

Another possible dimension of ethnopedagogic practices is the number of students that constitute a unit of instruction. "Traditionally" the entire class has been the usual unit. In more "modern" practice, however, small groups and even individual students are given as much attention as possible. Our next set of tables helps us examine this dimension in the four minority ethnolinguistic schools that we have been investigating.
6.1 From Table IVA it is evident that "complete class" instruction is the most com practice regardless of the medium of instruction. This is particularly true whenever English is utilized, whether as a medium or as a co-medium of instruction. However, although this finding is not inconsistent with the existence of ethnopedagogies, it would be premature to conclude that such really obtain. It may be, for example, that the pupil populations are generally more homogeneous with respect to English mastery than they are with respect to ENT mastery. If that, indeed, were the case, then the overall preference for using the class as the unit of instruction (derived purely from cost considerations) might be modified ox mitigated to attend to the more disparate mastery subgroups that pertain to EMT instruction. Perhaps it would be more judicious to withhold any conclusions in this connection until we see how the class, group or individual basis






| B7 Latigiage |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | , |  |  |  |  |  |
|  | $\begin{array}{\|l\|l\|} \hline 4 & \\ & 16.0 \\ & 36.4 \end{array}$ | $\begin{array}{\|rr\|} 14 & \\ 56.0 \\ 29.3 \end{array}$ | $\begin{array}{\|l\|} 3 \\ \\ \\ \\ 12.0 \\ 37.5 \end{array}$ | $\begin{array}{rr} 2 & 3.0 \\ & 50.0 \\ \hline \end{array}$ | $\begin{array}{rr} 1 & \\ 4.0 \\ 20.0 \end{array}$ | $\begin{array}{r} 4.0 \\ 33.3 \end{array}$ | $\begin{aligned} & 25 \\ & 32.1 \% \end{aligned}$ |
| 포으응 | $\begin{array}{rr} \hline 3.5 \\ 27.3 \end{array}$ | $\begin{array}{\|ll\|} \hline 27 & \\ & 67.5 \\ \hline & 57.4 \\ \hline \end{array}$ | $\begin{array}{\|r\|} 3 \\ \\ \\ 7.5 \\ \hline \end{array}$ | $\begin{array}{\|lr\|} \hline 1 & \\ & 25.5 \\ & 25.0 \end{array}$ | $\begin{array}{\|ll\|} \hline 4 & \\ & 10.0 \\ 80.0 \\ \hline \end{array}$ | $\begin{array}{r} 5.0 \\ 66.7 \\ \hline \end{array}$ | $\begin{aligned} & 40 \\ & 51.3 \% \\ & \hline \end{aligned}$ |
|  <br> 40: | $\begin{array}{\|rr} 4 & \\ 30.8 \\ & 36.4 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} \hline 6 & \\ & 46.2 \\ & 12.8 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} \hline 2 & \\ & 15.4 \\ & 25.0 \\ \hline \end{array}$ | $\begin{array}{r} 7.7 \\ 25.0 \\ \hline \end{array}$ | $\begin{array}{ll} \hline 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{ll} \hline 0 & \\ 0.0 \\ & 0.0 \\ \hline \end{array}$ | 13 <br> 16.3\% |
|  | ${ }^{12} 14.1$ | ${ }^{47} 60.3$ | $\left[\begin{array}{ll}8 & 10.3\end{array}\right.$ | $4 \quad 5.1$ | 5  <br>  6.4 | $3{ }^{3} 3.8$ | ${ }^{78} 100.0 \%$ |



| creat. |  | $2 \mathrm{~b}=$ | 3 c - | 3 3 52 | : b, c: | a $+=$ | $\begin{gathered} \text { Row } \\ 3 \text { ! } 3 \text { cal } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\left[\begin{array}{lr} 36 & \\ \quad 52.9 \\ & 19.3 \\ \hline \end{array}\right.$ | $\begin{array}{\|ll\|} \hline 22 & \\ & 32.4 \\ & 23.4 \\ \hline \end{array}$ | $\left\lvert\, \begin{array}{rr}5 & 7.4 \\ & 11.6\end{array}\right.$ | $\begin{array}{ll} 1 & 1.5 \\ & 2.7 \\ \hline \end{array}$ | $\begin{array}{\|rr\|} \hline 3 & 4.4 \\ & 18.8 \\ \hline \end{array}$ |  | $\begin{array}{r} 68 \\ 17.7 \% \\ \hline \end{array}$ |
| 1 roes <br>  | $\begin{array}{r} 111 \\ 49.3 \\ 59.4 \end{array}$ | $\begin{array}{\|cc\|} 58 & \\ & 25.8 \\ & 61.7 \\ \hline \end{array}$ | $\begin{array}{\|r} 19 \\ \\ \\ \\ \hline 4.4 \\ \hline \end{array}$ | $\begin{array}{r}  \\ 9.3 \\ 55.8 \\ \hline \end{array}$ | $\begin{array}{rr} 11 & \\ 4.9 \\ & 68.8 \end{array}$ | $\begin{array}{r} 5 \\ 2.2 \\ 71.4 \\ \hline \end{array}$ | $\begin{array}{r} 225 \\ 58.6 \% \end{array}$ |
| $\begin{aligned} & t_{t}= \\ & \operatorname{cog} 5 \end{aligned}$ | $\left[\begin{array}{lr} 34 & \\ 5 & 53.1 \\ \hline & 18.2 \\ \hline \end{array}\right.$ | $\begin{array}{rr} 7 & \\ F & 10.9 \\ & 7.4 \\ \hline \end{array}$ | $\left[\begin{array}{l} 10.9 \\ 16.3 \end{array}\right.$ | $\begin{array}{r} 14 \\ 21.9 \\ 37.8 \\ \hline \end{array}$ | $\begin{array}{ll} 1 & \\ & 1.6 \\ & 6.3 \\ \hline \end{array}$ | 1 $\begin{array}{r} 1.6 \\ 14.3 \end{array}$ | (64 |
| $\begin{aligned} & x_{\mathrm{z}=5} \\ & \mathrm{COH}_{5} \end{aligned}$ | 6  <br>  54.5 <br>   | 2rr $\begin{array}{r}28.2 \\ \\ 2.1\end{array}$ | $\begin{array}{r}18.2 \\ 4.7 \\ \hline\end{array}$ | 17r1 <br>  <br>  <br>  | 0  <br>  0.0 <br>  0.0 | 0  <br>  0.0 <br>   | 11  <br>   <br>  2.97 |
|  | $\begin{array}{rr} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\left[\left.\begin{array}{ll} 5 & \\ & 31.3 \\ 3.3 \end{array} \right\rvert\,\right.$ | $\left\{\begin{array}{lr} 10 & \\ & 62.5 \\ & 23.3 \\ \hline \end{array}\right.$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{ll} 1 & \\ & 6.3 \\ & 6.3 \\ \hline \end{array}$ | 0  <br>  0.0 <br>   | 16 |
|  | $\begin{array}{r} 187 \\ 48.7 \end{array}$ | $\begin{array}{ll} 94 & \\ & 24.5 \end{array}$ | $\begin{cases}43 & \\ & 11,2\end{cases}$ | $\left(\begin{array}{ll}37 & \\ & 9.6\end{array}\right.$ | 16 | $\begin{array}{ll} 7 & \\ & 1.8 \end{array}$ | $\left\lvert\, \begin{aligned} & 384 \\ & 100.0 \%\end{aligned}\right.$ |

of instruction related to the other tivo basic variables we have been examining: school and grade.
6.2 As far as school is concerned, the predominant unit of instruction is the entire class only in the Greek and Hebrew schools. The Armerian school reveals only a mild preference for the ciass as the unit of instruction (and also reveals more frequent individualized instruction than any other school). The French school, however, clearly reveals a preference for small group work and is quite unique in this connection. Indeed, as Table IVB(2) reveals, this preference of the French school is constant regardless of language of instruction and is, if anything, even greater in French medium instruction than in English medium instruction. The French school, it must be remembered, is our numerically smallest school insofar as average class size is concerned. Thus, from a purely practical point of view, it could more easily organize instruction on a complete class basis. Its preference for the small group approach is either an ethnopedagogic heritage or simply a resultant of the interaction between its particular financial, philosophical and demographic characteristics. 6. 3 The overall preference for utilizing the entire class as the unit of instruction is manifest in every grade. In ungraded occurrences, however, the individual becomes the unit, but this is so almost by definition and, therefore, of lesser interest than the fact that the individual is increasingly the unit of instruction (although always less comon than either of the other two possible units) as grade increases. This may be class-size related again and prompts the overall observation that the smaller the class size the more likely that units of instruction
other than the entire class will be implemented (Table IVC).
All in all, some of our evidence in connection with unit of instruction is not inconsistent with the ethnopedagogies hypothesis. This hypothesis, therefore, deserves further investigation, although it does seem that other, more practical or objective considerations go quite far in explaining our findings.

### 7.0 Type of Reading Materials

A standard pedagogic issue in the reading field pertains to the types of reading materials employed and the changing balance between them as the reading acquisition process proceeds. Let us now look into this issue in the context of the four schools we are investigating.
7.1 There is no question that basal readers and teacher prepared materials are the two predominant types of literacy related materials in our schools with the latter predominating over the former in those contexts in which the EMT is involved. However, as Table VA reveals, in English medium contexts, basal readers predominate by a huge margin. To some extent this difference may be attributable to the greater availability of basal texts for English but, in addition, all schools are faced by the far from perfect suitability of whatever basal texts there are in the EMT for American born children who do not have a native grasp of the EMT. Furthermore, the greater variability in levels of student mastery of the EMT within any particular class (noted above as a factor leading to more frequent small group irstruction in the EMT) also results in the unsuitability of any one basal text and the need to supplement such texts by teacher-made materials.


|  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 7 | 81 | 5 | 10 | 10 | 23 | 136 |
| T0070 | 5.1 | 59.6 | 3.7 | 7.4 | 7.4 | 16.9 |  |
| Cal: | 77.8 | 58.7 | 55.6 | 3.3 | 52.6 | 53.3 | $40.2 \%$ |
| (2x | 1 | $41.7{ }^{12}$ |  | 83 | 0 | 15 | 148 |
| -1 | 11.1 | 29.7 : | 22.21 | $69.2{ }^{1}$ | 31.0 | $34 . y$ | 42.0\% |
| 2 | 1 | $16 \quad 12$ |  | 27 | 3 | 5 | 54 |
| 954 | 1.9 | 29.6 | 3.7 | 50.0 | 5.6 | 9.3 |  |
| 615 | 11.1 | 11.6 | 22.2 | 22.5 | 15.3 | 11.6 | 16.0\% |
|  | 9 | 138 9 |  | 120 | 19 | 43 | 338 |
| 2076 | 2.7 | 40.8 | 2.7 | 35.5 | 5.6 | 12.7 | 100.0\% |

THELV VE TYPES OF READIKG YATEKLAL - APPROACHES* BY SCHCOL

| Schrel | $a \pm b$ |  | C - | d $=$ | 0 - | + |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{rr} 3 & \\ & 5.5 \\ & 33.3 \\ \hline \end{array}$ | $\begin{array}{\|rr\|} \hline 35 & \\ & 63.6 \\ & 25.4 \\ \hline \end{array}$ | $\begin{array}{\|rr\|}4 & 7.3 \\ & 44.4\end{array}$ | $\begin{array}{rr} 9 & 16.4 \\ 7.5 \end{array}$ | $\begin{array}{ll} \hline 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{ll} 4 & \\ 7.3 \\ & 9.3 \\ \hline \end{array}$ | $\begin{array}{rrr} 55 & \\ & 16.3 \% \end{array}$ |
| xome | $\begin{array}{rr} 3 & \\ & 2.5 \\ & 33.3 \end{array}$ | $\left\|\begin{array}{ll} 84 & \\ & 70.0 \\ & 61.0 \end{array}\right\|$ | $\left\lvert\, \begin{array}{rr} 2 & 1.7 \\ & 22.2 \end{array}\right.$ | $\begin{array}{\|ll\|} \hline 22 & \\ & 18.3 \\ & 18.3 \\ \hline \end{array}$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{r} 9.5 \\ 21.0 \\ \hline \end{array}$ | $\begin{aligned} & 120 \\ & 35.5 \% \end{aligned}$ |
|  | $\begin{array}{rr} 1 & \\ & 1.2 \\ & 11.1 \\ \hline \end{array}$ | $\begin{array}{\|rr\|}9 & \\ & 10.5 \\ & 6.5\end{array}$ | $\begin{array}{\|r\|} \hline 1 \end{array} \quad 1.2$ | $\begin{array}{\|cc\|} \hline 47 & \\ & 54.7 \\ & 39.2 \\ \hline \end{array}$ | $\begin{array}{rr} 8 & \\ & 9.3 \\ & 42.1 \end{array}$ | $20$ <br> 23.3 <br> 46.5 | $\begin{array}{\|l\|l\|} \hline 86 & \\ 25.4 \% \\ \hline \end{array}$ |
|  | $\begin{array}{rr} 2 & 2.6 \\ & 22.2 \\ \hline \end{array}$ | $\left\lvert\, \begin{array}{rr}10 & \\ & 13.0 \\ & 7.2\end{array}\right.$ | $\begin{array}{rr} 2 & \\ \hline & 22.6 \\ \hline \end{array}$ | $\begin{array}{r} 42 \\ 54.5 \\ 35.0 \\ \hline \end{array}$ | $11 \begin{array}{r} 14.3 \\ \\ \\ \hline \end{array}$ | 10 <br> 13.0 <br> 23.3 | $\begin{array}{rr} 77 \\ & \\ 22.8 \% \end{array}$ |
| $\frac{\text { cormor }}{\text { ghatr }}$ | $\begin{array}{ll}9 & \\ & 2.7\end{array}$ | 138 ${ }^{138} 40.8$ | 9 $\quad 2.7$ | $\begin{aligned} & 120 \\ & 35.5 \end{aligned}$ | $19$ $5.6$ | $43$ <br> 12.7 | $\begin{array}{r} 338 \\ 100.0 \% \\ \hline \end{array}$ |

I $\lambda$ BL $\mathrm{VB}(2)$ : GREEX SCEOOL: TYES OF READING MATERTAL BY LANGTAGE

| ${ }^{3}$ | $\begin{array}{r} 3 \\ 4.8 \\ 100.0 \\ \hline \end{array}$ | $\begin{array}{rr} 50 & \\ & 80.6 \\ & 59.5 \end{array}$ | $\begin{array}{lr} 1 & 1.6 \\ & 50.0 \\ \hline \end{array}$ | $\begin{array}{\|rr\|} \hline 3 & \\ & 4.8 \\ & 13.6 \\ \hline \end{array}$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{r}  \\ \\ 8.1 \\ 55.6 \end{array}$ | 62  <br>   <br>  $51.7 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 <br> E <br> -300 <br> Fol F | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ |  <br> 61.5 <br> 28.6 | $\begin{array}{ll}0 & \\ & 0.0 \\ & 0.01\end{array}$ | $\left\lvert\, \begin{array}{ll}13 & \\ 33.3 \\ 59.1\end{array}\right.$ | $\begin{array}{ll}0 & \\ & 0.0 \\ & 0.0\end{array}$ | $\begin{array}{rr}  \\ 5.1 \\ 22.2 \end{array}$ | $\begin{array}{r}39 \\ 32.5 \% \\ \hline\end{array}$ |
|  | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \end{array}$ | $\begin{array}{\|r\|} \hline 10 \\ \\ 52.6 \\ \\ 11.9 \end{array}$ | $\begin{array}{r} 5.3 \\ 50.0 \end{array}$ | $\begin{array}{ll} 6 & \\ & 31.6 \\ & 27.3 \end{array}$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \end{array}$ | $\begin{array}{r} 2 \\ 10.5 \\ 22.2 \end{array}$ | $\begin{array}{ll} 19 \\ \quad 15.8 \% \end{array}$ |
|  | 3  <br>  2.5 | $\left.84$ <br>  <br>  70.0 \right\rvert\, | 1.7 | 22 18.3 | $\begin{array}{ll}0 & \\ & 0.0\end{array}$ | 972 | $\begin{aligned} & 120 \\ & 100.0 \% \end{aligned}$ |

FAILE VC: TYPES OP READING MATERIAI $3 T$ GRADE

| Grade | 2 | $3=$ | $\square$ - | $3 \mathrm{~d}=$ | $3:$ | 4 + : | a tocal |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \frac{18}{2}=5 \\ & \text { car } \end{aligned}$ | $\begin{array}{rr} 2 & 3.2 \\ & 22.2 \\ \hline \end{array}$ | $\begin{array}{rr} 12 & \\ & 19.0 \\ & 3.7 \\ \hline \end{array}$ | $\begin{array}{ll}0 & \\ & 0.0 \\ & 0.0\end{array}$ | $\begin{array}{rr} 34 & \\ 54.0 \\ & 28.3 \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ 9.5 \\ \\ \hline \end{array}$ | 9 $\begin{aligned} & 14.3 \\ & 20.9 \end{aligned}$ | ${ }^{63} \begin{aligned} & 18.6 \% \end{aligned}$ |
| $\begin{aligned} & 5 \\ & \text { Cont } 2 \end{aligned}$ | $\begin{array}{rr} 6 & \\ 3.0 \\ 66.7 \\ \hline \end{array}$ | $\begin{array}{cc} 90 & \\ & 44.8 \\ & 65.2 \end{array}$ | 5  <br> 1 2.5 <br>  55.6 | $\begin{array}{rr} 70 \\ 34.8 \\ 58.3 \\ \hline \end{array}$ | $\begin{array}{r} 7 \\ 36.5 \\ \\ \hline \end{array}$ | $\begin{array}{r} 23 \\ 11.4 \\ 53.5 \\ \hline \end{array}$ | $\begin{array}{r} 201 \\ 59.5 \% \\ \hline \end{array}$ |
| $\begin{aligned} & \Sigma_{\operatorname{sen} x}= \\ & \operatorname{cor}= \end{aligned}$ | $\begin{array}{rr} 1 & \\ & 2.0 \\ & 11.1 \end{array}$ | $\begin{array}{rr} 30 & \\ & 61.2 \\ \hline & 21.7 \\ \hline \end{array}$ | $\left[\begin{array}{rr}3 & \\ 1 & 6.1 \\ & 33.3\end{array}\right]$ | $\begin{array}{r} 11 \\ 22.4 \\ 9.2 \end{array}$ | $\begin{array}{rr} 2 & \\ & 4.1 \\ & 10.5 \end{array}$ | $\begin{array}{ll} 24 \\ & 4.1 \\ & 4.7 \end{array}$ | 49  <br>   <br>  $14.5 \%$ |
| $\underbrace{2}_{2=12}$ | $\begin{array}{\|ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{r} 14.3 \\ .72 \\ \hline \end{array}$ | 1  <br> 1 14.3 <br>  11.1 | 3  <br>   <br> 42.9  <br>   | 2  <br>   <br>  28.6 <br>   | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | 7 |
| $\frac{1025}{2}$ | $\left\lvert\, \begin{array}{rr} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}\right.$ | $\begin{array}{rr} 5 & \\ & 27.8 \\ & 3 \\ \hline \end{array}$ | [ $\begin{array}{r}0.0 \\ 0.0\end{array}$ | $\begin{array}{rr} 2 & \\ & 11.1 \\ & 1.2 \\ \hline \end{array}$ | $\begin{array}{lll} 2 & & \\ & 11.1 \\ & 10.5 \\ \hline \end{array}$ |  | ${ }^{18}$ |
|  | $\begin{array}{ll}9 & \\ & 2.7\end{array}$ | $\left.\right\|_{40.8} ^{138}$ | 2.7 | 120 35.5 | $\begin{array}{ll}19 & \\ & 5.6\end{array}$ | $43$ <br> 12.7 | $\begin{array}{\|l} 338 \\ 100.0 \% \end{array}$ |

*Rending material: a experiential; b masal reading; $c$ individusl; d meacher-made material; o other published material; + mother (subsumas 13 categories)
7.2 Indeed, in the Hebrew and French schools, where very minor proprotions of the children are EMT speaking, teacher-made materials are used vastly more than basal readers (Table VB). On the other hand, in the Armenian and Greek schools, where the bulk of the pupils are "at home" both in English and in the EMT by the time they arrive in school, basal readers predominate just as clearly. Nevertheless, even In these schools there is a noticeably greater tendency to use basal readers for English reading instruction than for EMT reading instruction (Table VB[2]).
7.3 The relative reliance on basal readers vs. teacher-made materials is also grade related as Table vC clearly reveals. Basal readers are particularly 1 st and 2 nd grade related whereas teacher-made materials obviously predominate in the nursery/kindergarten setting and the few instances where reading instruction is still required in the 3 rd grade. Interestingly enough, out of plass reading "occurrences" also tended to involve basal texts more than teacher-made materials.

### 8.0 Oral Reading

At the early stages of reading instruction/reading acquisition, oral reading is much stressed. Indeed, in contrast to reading in adult life (and in out-of-school life more generally), school-imbedded reading is much more likely to be oral than silent. This observation seems to be fully confirmed by our data.
8.1 Silent reading accounts for a very minor proportion of all overt reading "occurrences" (Table VIA), and what little of it there is occurs almost entirely in an English medium context. As far as

TABLE VIA: ORAL READING* BY LANGUAGE
$\therefore b=\frac{a}{2}=\mathrm{b}, \mathrm{c}:-20-$
Row
n Total \% 91 $38.6 \%$
4.

| $\frac{3078}{500}$ : | 2 | 12 | 11 | 7 | 9 | 0 | 1 | 13 | 45 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S00 | 4.4 | 26.7 | 24.4 | 15.6 | 20.0 | 0.0 | 2.2 | 6.7 |  |
| $301:$ | 66.7 | 19.4 | 19.0 | 30.4 | 17.6 | 0.0 | 8.3 | 15.8 |  |
| cosions ${ }^{3}$ | 3 | 62 | 58 | 23 | 51 | 8 | 12 | 19 | 236 |
| TOR2L | 1.3 | 26.3 | 24.6 | 9.7 | 21.6 | 3.4 | 5.1 | 8.1 | 100.0\% |

- i $3: \geq V I$ ORAL READING* BY SCHOOL

Row
n Total \%
$21.2 \%$
$33.9 \%$
53
$22.4 \%$
53
$22.4 \%$
236
$100.0 \%$
$\because 13: Z \because C:$ ORAL READING BY GRADE

| Grade | - | 2 b : | $\square \mathrm{c}$ - | a b, c : | 7 4 : | $=5$ | $74 \mathrm{c}=$ | . + - | $\underline{n}$ Total \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/8 | 0 | 18 | 10 | 4 | 13 | 0 | 0 | 1 | 19.5\% |
| 300: | 0.0 | 39.1 | 21.7 | 8.7 | 28.3 | 0.0 | 0.0 | 12.2 |  |
| Cos: | 0.0 | 29.0 | 17.2 | 17.4 | 25.5 | 0.0 | 0.0 | 5.3 |  |
| 1 | 2 | 39 | 33 | 17 | 30 | 7 | 10 | 14 | 152$64.4 \%$ |
| 300\% | 1.3 | 25.7 | 21.7 | 11.2 | 19.7 | 4.6 | 6.6 | $14 \quad 9.2$ |  |
| 可 | 66.7 | 62.9 | 56.9 | 73.9 | 58.8 | 87.5 | 83.3 | 73.7 |  |
| $\sum^{2}$ | 2 | 5 | 11 |  | 5 | 0 | 2 | 3 | 29 |
| 3005 | 3.4 | 17.2 | 37.9 | 6.9 | 17.2 | 0.0 | 26.9 | 10.3 |  |
| col $=$ | 33.3 | 8.1 | 19.0 | 8.7 | 9.8 | 0.0 | 16.7 | 15.8 |  |
| $\sum_{t \rightarrow 0}=$ | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | $3{ }^{12.3 \%}$ |
| 20xe $=$ | 0.0 | 0.0 | 33.3 | 0.0 | 0.0 | 33.3 | 0.0 | 33.3 | 1. $3 \%$ |
| 65 | 0.0 | 0.0 | 1.7 | 0.0 | 0.0 | 12.5 | 0.0 | 5.3 |  |
| S0\% cich ${ }^{2}$ | 0 | 0 | 3 | 0 | 3 | 0 | 0 | 0 | 6 |
| 30w | 0.0 | 0.0 | 50.0 | 0.0 | 50.0 | 0.0 | 0.0 | 0.0 | 2. $3 \%$ |
| 01 | 0.0 | 0.0 | 5.2 | 0.0 | 5.9 | 0.0 | 0.0 | 0.0 |  |
|  | 3 | 62 $\begin{array}{ll}62 & \\ & 26.3\end{array}$ | 58 | 23 | $\begin{array}{rrr}51 & \\ & & 21.6\end{array}$ | 8 | 12 | 19 | 236 |
| - | 1.3 |  | 24.6 | 9.7 |  |  | 5.1 |  | 100.0\% |

*Oral reading: $a=$ round robin; $b=$ choral; $c=$ individual, $4=$ oral reading in general, $5=$ silent reading; $+=$ orher (subsumes 9 categories)
ural reading is concerned, it is divided rather equally between choral reading, individual reading (ie., individuals being called upon to read) and general oral reading in the context of other subjects. 8.2 Choral reading is a particularly frequent "occurrence" in the Greek school (which also has the largest classes of any of our schools). Individual reading is far more commonly encountered in the French school than elsewhere (this school also has the smallest classes of any of our schools). Thus, once again, although there may be some evidence favoring ethnopedagogy, it is really inconclusive given the more obeJective circumstances that can be appealed to as explanatory considerations (Table VIB).
3.3 Both choral and general oral reading decline as grade level increases (Table VIC). On the other hand, individual oral reading is demonstrably higher in the higher grades (and in ungraded settings) than in the lower ones. Both of these trends are explainable on class size grounds and, therefore, tend to provide scant support for an ethnopedagogic hypothesis.

### 9.0 Where Literacy is Learned: Home vs. School (The Sociofunctional Dimension)

Both via direct observation as well as via indirect conversation and direct questioning, we have sought to determine the out-of-school contribution to biliteracy acquisition. Ultimately literacy must serve societal-interactive functions. : It is, therefore, desirable to determine the extent to which society anticipates the ultimately societal function of literacy by participating in and providing for its incul-
cation even outside of school. Such societal participation would also tend to contribute to ethnopedagogies within the school per se. 9.1 Our data reveal very little evidence of out-of-school co-participation in the biliteracy acquisition process (Table VIIA). All in all, $83 \%$ of all relevant "occurrences" are school-based with the corresponding proportion being even higher (91\%) for English and lowest (78\%) for EMT literacy acquisition. Although school-home and school-community co-participation are rather rare "occurrences," it is interesting to note that to the extent that they do obtain, they are far more likely to be EMT related than English related. Thus, while home and comunity are, overall, relatively weak literacy imparting agencies in our four schools, whatever contribution they do make to biliteracy is connected with the EMT rather than with English. This may be a function of generational differences. The parents of a substantial number of our pupils are often not native English speakers whereas they are, more frequently, native EMT speakers. Thus, they may be better prepared to assist their children in this connection and, at any rate, the fact that they selected to send their children to an $E M T$ school may be indicative of a distinctive (even though not an overbearing) parental interest in their offspring's progress in this connection.
9.2 and 9.3 So huge is the dependency on school for literacy acquisition that there is almost no room for school or grade variation with respect to this variable. Nevertheless, it is interesting to find that whatever school-home interaction there is in this connection occurs primarily


TH EL VIIB: WHERE LITERACY IS LEARNED BY SCHOOL


TA $\begin{gathered}\text { LI } \\ \text { sIC: WHERE LITERACY IS LEARNED BY GRADE }\end{gathered}$

*Where literacy is learned: $S=$ School; $H=$ home; $C=$ community; $+=$ other (subsumes 4 categories)

In the Hebrex school (Table VIIB) whereas comunity involvemenc (regularly lower even than home involvement) is highest in the Armenian context. With respect to grade, there is a very slight tendency for both home and comunity to make whatever contributions they are going to make in the earlier grades rather than in the later ones (Table VIIC).

All in all, there is little evidence that the ethnic communities to which our schools correspond are particularly active partners in the literacy acquisition process. In this respect, they have been fully "Americanized." The out-of-school sociofunctional role of literacy is that much weaker, both for English as well as for the EMTs. Strong out-of-school involvement in biliteracy acquisition is predictive of strong out-of-school functionality for literacy in the life pattern of a particular speech communty. The absence of the one sounds an ominous note with respect to che absence of the other.
10. Topical Emphases (Ethnic/Non-Ethnic) of Teaching/Learning Materials 10.1 From a supporting set of tables not reproduced in this report, it is clear that most 11 teracy relevant teaching/learning materials in the four schools we have studied are classrocm and student focused (as distinct from adult or comunity focused). Indeed, this appesrs to be true from grade to grade and regardless of language of instruction. A related and perhaps more interesting issue deals with the relative emphases on ethnic vs. non-ethnic copics. In this connection, gar data reveal a decisive preponderance of non-ethnic topics regardless of medium of instruction but particularly when English is the medium (Table VIIIA). While ethnic topics do recetve considerably wore

IA 3 LE VIIIA: TOPICAL EMPHASIS: EIHNIC/NON-ETHNIC* BY LANGUAGE

| anguage | $=\mathrm{E}_{5} \quad$. | $\mathrm{E}_{2} 3 \%$ | ${ }^{-} E_{3}$ | $={ }^{\text {NE }}$ | ${ }_{\square} B_{3,5}=$ | $3+7$ | Row |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\cdots$ | 0 | 1 | 3 | 88 | 1 | 18 | 111 |
| \% | 0.0 | . 90 | 2.7 | 79.3 | . 90 | 16.2 |  |
| OL: | 0.0 | 14.3 | 4.7 | 51.5 | 20.9 | 31.6 | 35.8\% |
| mpr | 5 | 5 | 47 | 55 | 4 | 28 | 144 |
| \# | 3.5 | 3.5 | 32.6 | 38.2 | 2.8 | 19.4 |  |
| \% | 83.3 | 71.4 | 73.4 | 32.2 | $80.0{ }^{1}$ | 49.1 | 46.5\% |
| 2 | 1 | 1 | 14 | 28 | 0 | 11 | 55 |
| 3018 ${ }^{\text {30w }}$ | 1.8 | 1.8 | 25.5 | 50.9 | 0.0 | 20.0 |  |
| Col: | 16.7 | 14.3 | 21.9 | 16.4 | 0.0 | 19.3 | 17.7\% |
| a | 6 | 7 | 64 | 171 | 5 | 57 | 310 |
|  | 1.9 | 2.3 | - 20.6 | 55.2 | 1.6 | 18.4 | 100.0\% |

I1.3Lz VIIIB: TOPICAL EIPHASIS: ETHNIC/NON-ETHNIC BY SCHCOL

| School | - $\mathrm{E}_{5}$ | $E_{2,3}$ | $\mathrm{E}_{3}$ | $\mathrm{NE}_{5}$ | $B_{3,5}$ | + | $\begin{array}{r} \text { Row } \\ \hline \text { Rernd } \\ \hline \end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{rr} 2 & 2.7 \\ & 33.3 \\ \hline \end{array}$ | $\begin{array}{rr} 2 & 2.7 \\ & 28.6 \\ \hline \end{array}$ | $11 \begin{array}{ll} 14.7 \\ & 17.2 \\ \hline \end{array}$ | $\begin{array}{r} 40 \\ 53.3 \\ 23.4 \\ \hline \end{array}$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \end{array}$ | $\begin{array}{r} 20 \\ 26.7 \\ 35.1 \end{array}$ | $\begin{array}{r} 75 \\ \quad 24.4 \% \\ \hline \end{array}$ |
| $\begin{gathered} 7 \\ 2 \pi \\ \hline \end{gathered}$ | $\begin{array}{rr} 1 & \\ & 1.0 \\ & 16.7 \\ \hline \end{array}$ | $\begin{array}{lr} 1 & \\ & 1.0 \\ & 14.3 \\ \hline \end{array}$ | $\begin{array}{ll} 5 & \\ & 5.2 \\ & 7.8 \\ \hline \end{array}$ | $\begin{array}{r} 74 \\ 76.3 \\ 43.3 \\ \hline \end{array}$ | $\begin{array}{rr} 1 & \\ & 1.0 \\ & 20.0 \end{array}$ | $\begin{array}{r} 15 \\ 15.5 \\ 26.3 \\ \hline \end{array}$ | $97$ $31.3 \%$ |
| $\begin{aligned} & \frac{\text { Eran }}{20 \pi} z \\ & \operatorname{Col} z \end{aligned}$ | $\begin{array}{r} 3 \\ 3.2 \\ \\ \hline \end{array}$ | $\begin{array}{rr} 2 & 2.2 \\ & 28.6 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} \hline 48 & \\ & 51.6 \\ & 75.0 \\ \hline \end{array}$ | $\begin{array}{r} 18 \\ 19.4 \\ \\ \hline \end{array}$ | $\begin{array}{rr} 4 & \\ & 4.3 \\ & 80.0 \\ \hline \end{array}$ | $\begin{array}{r} 18 \\ 19.4 \\ 31.6 \\ \hline \end{array}$ | $93$ $30.0 \%$ |
|  | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{lr} 2 & 4.4 \\ & 28.6 \\ \hline \end{array}$ | $\left(\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \end{array}\right.$ | $\begin{array}{r} 39 \\ 86.7 \\ 22.8 \end{array}$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \end{array}$ | $\begin{aligned} & 4 \\ & 8.9 \\ & 7.0 \end{aligned}$ | $45$ $14.5 \%$ |
|  | 6  <br>  1.9 | 7.  <br>  2.3 | $\begin{array}{rr} 64 & \\ & 20.6 \\ & \\ & \\ & \\ \hline \end{array}$ | 171 55.2 | $\begin{array}{r}5 \\ 1.6 \\ \\ \hline\end{array}$ | 57 18.4 | $\begin{array}{r} 310 \\ 100.0 \% \end{array}$ |

TA 3 L: VIIIC: TOPICAL EMPHASIS: EIHNIC/MON-ETHNIC BY GRADE

| Grade | $E_{5} \%$ | $E_{2,3}=$ | ${ }^{-} \mathrm{E}_{3}=$ | QNE 5 \% | ${ }^{B_{3}, 5}$ : | + $=$ | $\stackrel{\text { zow }}{\text { a toral. }} \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{array}{r} \frac{\pi}{3} \\ \cos 7 \\ \hline \end{array}$ | $\begin{array}{rr} 1 & \\ & 1.5 \\ & 16.7 \\ \hline \end{array}$ | $\begin{array}{ll} 1 & \\ & 1.5 \\ & 14.3 \\ \hline \end{array}$ | 5 7.6 | $\begin{array}{r}  \\ 52 \\ 78.8 \\ 30.4 \end{array}$ | $\begin{array}{r} 1 \\ 1.5 \\ \\ \hline \end{array}$ | $\begin{array}{r} 6 \\ 9.1 \\ 10.5 \\ \hline \end{array}$ | $\left\|\begin{array}{ll}66 & \\ & 21.3 \%\end{array}\right\|$ |
| 1 Bew 5 Kr | $\begin{array}{rr} 1 & \\ & .64 \\ & 16.7 \end{array}$ | $\begin{array}{r} 1.9 \\ \quad 42.9 \\ \hline \end{array}$ | 40  <br>  25.5 <br>  62.5 | $\begin{array}{rr} 89 & \\ 56.7 \\ & 52.0 \\ \hline \end{array}$ | $\begin{array}{rr} 2 & 1.3 \\ 40.0 \\ \hline \end{array}$ | $\begin{array}{r} 22 \\ 14.0 \\ 38.6 \end{array}$ | $\begin{array}{\|r\|} \hline 157 \\ 50.6 \% \\ \hline \end{array}$ |
| $\underbrace{}_{\cos \pi}{ }^{21}$ | $\begin{array}{rr} 1 & \\ & 2.4 \\ & 16.7 \\ \hline \end{array}$ | $0 \quad \begin{array}{r} \\ 0.0 \\ \\ \\ \hline\end{array}$ | 6  <br>  14.3 <br>  9.4 | 25 <br> 59.5 <br> 14.6 | 1 2.4 <br>  20.0 | 9 21.4 15.8 | $\left\|\begin{array}{ll}42 & \\ & 13.5 \%\end{array}\right\|$ |
|  | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \end{array}$ | - $\begin{array}{r}0 \\ \\ \\ \hline\end{array}$ | 4  <br> 4 44.4 <br>  6.3 | 2  <br>  22.2 <br>   | 0  <br>  0.0 <br>  0.0 | 3 33.3 5.3 | $\left\lvert\, \begin{array}{ll}9 & \\ & 2.9 \%\end{array}\right.$ |
|  | $\begin{array}{rr} 3 & \\ & 8.3 \\ & 50.0 \\ \hline \end{array}$ | $\begin{array}{\|rr\|} \hline & 8.3 \\ & 42.9 \\ \hline \end{array}$ | $\begin{array}{rr} 9 & \\ 25.0 \\ & 14.1 \\ \hline \end{array}$ | 3  <br>  8.3 <br>  1.8 | $\begin{array}{rr} 1 & 2.8 \\ & 20.0 \\ \hline \end{array}$ | $17 \begin{array}{r}17 \\ 47.2 \\ 29.8\end{array}$ | $\left\|\begin{array}{ll} 36 & \\ & 11.6 \% \end{array}\right\|$ |
| $\frac{\text { cormar }}{\text { \%itat }}$ | $\begin{array}{ll}6 & \\ & 1.9\end{array}$ | $\begin{array}{ll}7 & \\ & \\ & 2.3\end{array}$ | 64 $\begin{array}{ll} \\ & \\ 20.6\end{array}$ | $\begin{array}{r} 171 . \\ 55.2 \end{array}$ | $\begin{array}{ll}5 & \\ & 1.6\end{array}$ | $57$ $18.4$ | $\begin{array}{r} 310 \\ 100.0 \% \end{array}$ |

Topical emphasis: $E=$ ethnic; $N E=$ non-ethnic, $B=$ both
$2=$ community; $3=$ church; $5=$ general; $+=$ other (subsumes 24
attention when the ETTs are utilized as media, even then non-ethnic topics continue to show a slight edge. This topical distribution is indicative of the fact that ethnic schools discharge a joint role: they ethnicize in an American way and they Americanize in an ethnic way (Fishman, Gertner, Lowy and Milan 1982). In either case, their American role is not only substantial but often more substantial (more certain, pervasive and established) than their ethnic stress which is constantly being moderated and mediated by non-ethnic concerns. 10.2 Non-ethnic topical emphases are particularly strong in the French school (which actually has no ethnic community base in New York) and in the Greek school (Table VIIIB). The latter school is coping with an influx of new arrivals and may, therefore, be preparing them for American roles and interactions even in literacy related "occurrences" that utilize Greek as a medium. The Hebrew school, on the other hand, tends toward exactly the opposite orientation. It shows such a clear predominance for ethnic topics that many of its English language literacy related "occurrences" must be devoted to ethnic topics as vell. Thus, ethnic schools seem to vary their ethnic/non-ethnic topical emphases depending on the needs, experiences and concerns of their sponsoring constituencies.
10.3 There is also a tendency for the proportion of non-ethnic topics to decrease as grade level increases (Table VIIIC). Perhaps schools start off with comm American topics which all students recognize and react to acceptingly and then slowly introduce increased ethnic emphases in accord with the particulax backgrounds and intexests represented in their student bodies.

### 11.0 The Sociolinguistic Dimension: Dialect Differences

11.1 "Occurrences" of non-school dialect were exceedingly rare in the schools we visited. To the very minor degree that such occurrences were recognized, they were almost entirely associated with EMT instruction rather than with English medium instruction (Table IXA). This does not mean that non-school English is relatively unknown in these schools. Rather, it means that these schools do not correct non-school English (perhaps leaving it to the Anglo-environment to do so or, perhaps, accepting such English in the school as long as its distinctiveness is associated with the sponsoring ethnic community). ENT non-school dialect, on the other hand, rare though it may be, is more consciously corrected by the language guardians of the 9 chool.
11.2 The foregoing would seem to apply most particularly to the Greek, Armenian and French schools (Table IXB). In the Hebrew school, hardly any correction "occurrences" along these lines were noted, probably because modern Hebrew itself has not yet developed as much of a distance between regional or social class related school and non-school varieties as have the other languages studied.
11.3 All in all, non-school dialect tends to "occur" in terms of phonological discrepancies. However, as grade level increases, such discrepancies decrease and, finally, disappear entirely (Table IXC). The triumph of the school variety over the home variety is undoubtedly facilitated by the fact that many homes are not only weakly associated With DII literacy but that they are only weakly associated with the ETT as a whole.

=13 2 IKi : SOCIOLINGUISTIC ISSUES (NCN-SCHOCL DLALECT) $\div$ BY SCHCCL
Row


*Non-echool dialect issues: $1=$ vocabulary; 2 = phonology; 3 =a grammar;
$+m$ ocher (subsumes 2 categories)

### 12.0 Cross-Language Contrasts

12.1 The small number of non-school dialect "occurrences" may also be due to a general lack of teacher sophistication or consciousness with respect to them. Relative to the other literacy related problems that teachers are concerned with, those that pertain to linguistic issues may be considered relatively recondite or even esoteric. Another indication that our teachers may simply be naive or unfocused with respect to linguistic issues is encountered in Tables $X A, B$ and $C$. In this series, we note how rarely teachers are inclined to discuss the problems or progress of individuals or groups of pupils in contrastive terms. To the small degree that such problems are recognized (whether positively or negatively, i.e. as obtaining or as absent), they are more likely to be discussed in connection with phonology than in any other contrastive connection (Table XA).
12.2 Contrastive phonological issues (EMT-English), rarely mentioned though they be (even in terms of denying any such "occurrences"), are encountered primarily in the Hebrew and French schools (Table XB). Presumably we are dealing here with pupils who do not come to school with any home-based EMT phonological repertoire, and the school is immediateiy faced by several difficulties to be overcome if native or near native EMT phonology is to be approximated.
12.3 Any such concern, however, is soon abandoned. As grade level increases, any minor contrastive preoccupation that may originally obtain is steadily abandoned (Table XC). By grade three, virtually no contrastive teacher comments (whether positive or negative) are

| - arguage | $\begin{gathered} \text { yes } \\ \text { a lex : } \end{gathered}$ | $\begin{gathered} \text { yes } \\ \text { a gram" } \end{gathered}$ | $\begin{gathered} \text { yes } \\ \text { n phon : } \end{gathered}$ | $\begin{array}{r} \text { no } \\ \text { a lex } \% \\ \hline \end{array}$ | a gram: | $\begin{gathered} \text { no } \\ \text { 2 phon\% } \end{gathered}$ |  | Row <br> n Toral \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| a | 2 | 3 | 2 | 0 | 0 | 6 | 2 | 15 |
| $\frac{-158}{}$ | 13.3 | 20.0 | 13.3 | 0.0 | 0.0 | 40.0 | 13.3 |  |
| Sol: | 28.6 | 37.5 | 15.4 | 0.0 | 0.0 | 54.5 | 22.2 | 27.8\% |
| r | 3 | 2 | 4 | 0 | 1 | 2 | 0 | 12 |
|  | 25.0 | 16.7 | 33.3 | 0.0 | 8.3 | 16.7 | 0.0 |  |
| S0: | 42.9 | 25.0 | 30.8 | 0.0 | 50.0 | 18.2 | 0.0 | 22.2 |
| + | 2 | 3 | 7 | 4 | 1 | 3 | 7 | 27 |
| 2012 ${ }^{\text {Sow }} \%$ | 7.4 | 11.1 | 25.9 | 14.8 | 3.7 | 11.1 | 25.9 |  |
| Col: | 28.6 | 37.5 | 53.8 | 100.0 | 50.0 | 27.3 | 77.8 | 50.0\% |
| ${ }^{2}$ | 7 | 8 | 13 | 4 | 2 | 11 | 9 | 54 |
|  | 13.0 | 14.8 | 24.1 | 7.4 | 3.7 | 20.4 | 16.7 | 100.0\% |

TABLE XE: CONTRASTIVE LANGUAGE PEOBLEXS BY SCHCRE

|  | yes | yes | yes | no | no | no |  | Row |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| School |  | grama | 吅 | 1ex | gram | nhont | + | $\underline{\square T o t a l \%}$ |
| AgMETtar. ${ }^{2}$ | 3 | 3 | 2 | 1 | 1 | 1 | 1 | 12 |
| Row ${ }^{\text {a }}$ | 25.0 | 25.0 | 16.7 | 8.3 | 8.3 | 8.3 | 8.3 |  |
| Calu | 42.9 | 37.5 | 15.4 | 25.0 | 50.0 | 9.1 | 11.1 | 77 $9 \%$ |
| 2 | 2 | 2 | 1 | 3 | 1 | 4 | 4 | 17 |
|  | 11.8 | 11.8 | 5.9 | 17.6 | 5.9 | 23.5 | 23.5 |  |
| Cat: | 28.6 | 25.0 | 7.7 | 75.0 | 50.0 | 36.4 | 44.4 | 31.5\% |
| Harspry | 1 | 2 | 3 | 0 | 0 | 3 | 1 | 10 |
| 30\% 2 | 10.0 | 20.0 | 30.0 | 0.0 | 0.0 | 30.0 | 10.0 |  |
| Col $=$ | 1.4.3 | 25.0 | 23.1 | 0.0 | 0.0 | 27.3 | 11.1 | 18.5\% |
| PRakcie | 1 | 1 | 7 | 0 | 0 | 3 | 3 | 15 |
| 30w 7 | 6.7 | 6.7 | 46.7 | 0.0 | 0.0 | 20.0 | 20.0 |  |
| col: | 14.3 | 12.5 | 53.8 | 0.0 | 0.0 | 27.3 | 33.3 | $778 \%$ |
| cormen | 7 | 8. | 13 | 4 | 2 | 11 | 9 | 54 |
|  | 13.0 | 14.8 | 24.1 | 7.4 | 3.7 | 20.4 | 16.7 | 100.0\% |

Tん $3 \mathrm{~L} 2 \mathrm{XC:} \mathrm{CONTRASTIVE} \mathrm{LANGUAGE} \mathrm{PROBLEMS} \mathrm{BY} \mathrm{GRADE}$

| Grade | $\text { Lex } z$ | gram: | phon: | ㄴ lex? | aram: | - phon: | $+$ | $\begin{gathered} \begin{array}{l} \text { Row } \\ \text { Total } \end{array}, \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | 7 | 0 | 0 | 5 | 1 | 18 |
| ${ }^{8}$ | 16.7 | 11.1 | 38.9 | 0.0 | 0.0 | 27.8 | 5.6 |  |
| CoI 5 | 42.9 | 25.0 | 53.8 | 0.0 | 0.0 | 45.4 | 11.1 | 33.3\% |
| $\pm$ | ${ }^{2}$ | 4 | 5 | 1 | 1 | 2 | 3 | 18 |
| Low | 11.1 | 22.2 | 27.8 | 5.6 | 5.6 | 11.1 | 16.7 |  |
| Gat5 | 28.6 | 50.0 | 38.5 | 25.0 | 50:0 | 18.2 | 33.3 | 33.3\% |
| $3_{0}$ | 1 | 1 | 0 | 3 | 0 | 3 | 4 | 12 |
|  | 8.3 | 8.3 | . 0 | 25.0 | 0.0 | 25.0 | 33.3 |  |
| Cal 5 | 14.3 | 12.5 | 0.0 | 75.0 | 0.0 | 27.3 | 44.4 | 22.2\% |
| $5{ }^{515}$ | 1 | 0 | 0 | - 0 | 1 | 00 | 0 | 2 |
|  | 50.0 | 0.0 | . 0 | . 0 | 50.0 | 0.0 | 0.0 |  |
| cots | 14.3 | 0.0 | 0.0 | 0.0 | 50.0 | 0.0 | 0.0 | 3.7\% |
|  | 0 | ${ }^{1}$ | 1 | 0 | 0 | 1 | 1 | 4 |
| dos\% 2 | 0.0 | 25.0 | 25.0 | 0.0 | 0.0 | 25.0 | 25.0 |  |
| cat. | C. 0 | 12.5 | 7.7 | 0.0 | 0.0 | 9.1 | 11.1 | 7.4\% |
| ${ }_{\text {cormar }}{ }^{2}$ | 7 | 8 |  | 4 | 2 | 11 | 9 | 54 |
| 20:TAL | 13.0 | 14.8 | ' 24.1 | 7.4 | 3.7 | 20.4 | 16.7 | 100.0\% |

*Contrastive problems: Yes lex = lexical
No phon $=$ phonology $3\{$
encountered. Such problems have either been overcome or they are accepted as insuperable and, therefore, undeserving of further pattension.

### 13.0 Interlingual Interferences, Aids and Switching

As between interlingual interferences, aids and switching, the latter are more common than the former and all are more common when the EMT is utilized as a medium than when English alone is employed. 13.1 Those contexts in which both media of instruction are co-present lead to the greatest number of occurrences of "interlingual variation" (Table XIA). Particularly noteworthy under such circumstances are occurrences of switching back and forth from one language to the other. Less obvious is the fact that in all cases the direction of impact is greater from EMT into English than vice versa. Thus, when we consider interferences, there are more occurrences of EMT interferences in English than vice versa. When we note "aids" (using one language to explain something in the other), once again EMT is used to explain an English text or problem more often than vice versa. Finally, when switching occurs in mid-stream (mid-sentence, mid-phrase), it occurs into English more frequently than out of it. This may be but another reflection on the concern with English, both teacher concern ("aids") and investigator concern. Or it may reflect the basically greater facility in English on the part of most students so that they more frequently wind up in English even if they began an utterance in the EMT.
13.2 The Hebrew and French schools reveal the fewest instances of

TA 3 L EXIA: INTEKLINGUAL INTERFERENCES, AIDS* AND SWITCHING, BY LANGUAGE

- 32 -

Row


|  | $\begin{array}{lr} 6 & \\ & 35.3 \\ & 33.3 \end{array}$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} 5 & 29.4 \\ & 45.5 \\ \hline \end{array}$ | $\begin{array}{rr} 1 & 5.9 \\ & 25.0 \\ \hline \end{array}$ | $\begin{array}{r}  \\ \\ 23.5 \\ 20.0 \\ \hline \end{array}$ | $\begin{array}{lr} 1 & \\ & 5.9 \\ & 10.0 \\ \hline \end{array}$ | 0  <br>  0.0 <br>  0 <br> 0  | 17 | $22.7 \%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\begin{array}{\|rr\|} \hline 5 & \\ & 26.3 \\ & 27.8 \\ \hline \end{array}$ | $\begin{array}{\|rr\|} \hline 5 & \\ 26.3 \\ 50.0 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} \hline 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} \hline 2 & \\ & 10.5 \\ & 50.0 \\ \hline \end{array}$ | $\begin{array}{r} 5 \\ 26.3 \\ 25.0 \\ \hline \end{array}$ | $\begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \\ \hline \end{array}$ | $\begin{array}{\|cc\|} \hline 2 & 105 \\ 1 & 100.0 \\ \hline \end{array}$ | 19 | 25.3\% |
|  | $\begin{array}{\|lr\|} \hline 7 & \\ & 17.9 \\ & 38.9 \\ \hline \end{array}$ | $\begin{array}{\|ll} 5 & \\ & 12.8 \\ & 50.0 \\ \hline \end{array}$ | $\begin{array}{\|ll\|} \hline 6 & \\ & 15.4 \\ & 54.5 \\ \hline \end{array}$ | $\begin{array}{\|r} 1 \\ \\ \\ \\ \\ 25.6 \\ \hline \end{array}$ | $\begin{array}{r} 11 \\ 28.2 \\ 55.0 \\ \hline \end{array}$ | $\begin{array}{ll} 9 & \\ & 23.1 \\ & 90.0 \end{array}$ | $\left\lvert\, \begin{array}{ll} 0 & \\ & 0.0 \\ & 0.0 \end{array}\right.$ | 39 | 52.0\% |
|  | 18 <br>  <br> 24.0 | 10 <br> 13.3 | 11.15 | 4  <br>  5.3 | 20 <br> 26.7 | 10 13.3 | $2 \begin{array}{ll}2 \\ \\ \end{array}$ | 75 | 100.0\% |

F1.5 ᄃe XIB: INTERLINGUAL INEERFERENCES, AIDS AND SWITCHING, BY SCHOOL*

| School | $\mathrm{EMT} \rightarrow$ | $\text { ENG } \rightarrow$ | ENG $\leftarrow$ | EMT- | EMT- | ENG- |  | Row |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ENG = |  | EMT | , | ENG: | EMT: |  |  | a1\% |
| AbMEDAS: | 5 | 5 | 3 | 2 | 2 | 2 | 1 | 20 |  |
| R00. 6 | 25.0 | 25.0 | 15.0 | 10.0 | 10.0 | 10.0 | 5.0 |  |  |
| Colt | 27.8 | 50.0 | 27.3 | 50.0 | 10.0 | 20.0 | 50.0 |  | 26.7\% |
|  | 4 | 2 | 5 | 1 | 9 | 7 | 1 | 29 |  |
| पदere 2 | 13.8 | 6.9 | 17.2 | 3.4 | 31.0 | 24.1 | 3.4 |  |  |
| Col. | 22.2 | 20.0 | 45.5 | 25.0 | 45.0 | 70.0 | 50.0 |  | 38.7\% |
| Embrst | 1 | 1 | 2 | 0 | 5 | 1 | 0 | 10 |  |
| Towz | 10.0 | 10.0 | 20.0 | 0.0 | 50.0 | 10.0 | 0.0 |  |  |
| Col: | 5.6 | 10.0 | 18.2 | 0.0 | 25.0 | 10.0 | 0.0 |  | 13.3\% |
| pramer | 8 | 2 | 1 |  | 4 | 0 | 0 | 16 |  |
| Row 2 | 50.0 | 12.5 | 6.3 | 6.3 | 25.0 | 0.0 | 0.0 |  |  |
| Col | 44.4 | 20.0 | 9.1 | 25.0 | 20.0 | 0.0 | 0.0 |  | 21.3\% |
| COCROS | 18 | 10 | 11 | 4 | 20 | 10 | 2 | 75 |  |
| - | 24.0 | 13.3 | 14.7 | 5.3 | 26.7 | 13.3 | 2.7 |  | 100.0\% |

TABLE XIG: INTERLINGUAL INTERFERENCES, AIDS AND SWITCHING, BY SCHCOL

interlingual variation (Table XIB). These are the very schools whose students bring least EMT language skills from home and, therefore, there is also less likelihood of their use of EMT interlingually in school. In the Greek school, where the greatest number of interlingual "occurrences" in encountered, the overall tendency to impact English more than the EMT is fully corroborated.
13.3 Overall interlingual "occurrences" decrease as grade increases (Table XIC). As both languages are more fully mastered (in terms of school criteria of acceptability), interlingual "occurrences" becpme rare, virtually to the point of disappearance. Perhaps this should be viewed as yet another triumph of the school over the home, the communty and informal literacy unrelated language use in general.

### 14.0 Summary and Conclusions

Each one of the major dimensional foci that originally prompted our research has been associated with a goodly amount of across-theboard regularity, i.e. it has been associated with rather clear-cut findings cutting across all media of instruction, all schools and all grades. In conjunction with the sociographic dimension, it is clear that the welter of writing system differences and writing/printing differences is reduced and rendered more manageable by stressing the printing system (whether via reading print or writing print) throughout, but particularly in the earliest grades. With respect to our ethnopedagogic concerns, we have found that reading is attended to ever so much more than writing and that writing is attended to much more than speaking. Insofar as sociofunctional issues are concerned, we have
noted very little evidence of out-of-school participation in literacy acquisition and, correspondingly, little topical empnasis on matters pertaining to home or community. Finally, in connection with the sociolinguistic dimension we have discovered that there is hardly any awareness of or concern with non-school dialect, interlanguage contrasts or interlanguage variation.

To a very large extent, the above quantitatively documented findings agree with our more qualitative impressions. Nevertheless, our appreciation of them (particularly the latter three) benefits considerably from more restricted contextual considerations.

### 14.1 Findings related to medium of instruction

None of our gociographic findings require qualification related to medium of instruction. With respect to our ethnopedagogic concerns, however, it is noteworthy that in EMI-medium instruction, teacher-made materials are more commonly employed than basal readers, whereas in English-medium instruction the opposite is the case. In the latter connection, it is also interesting to remember that silent reading (rare though it was in the early grades on which our research was concentrated) was much more common in English-medium than in EMTmedium instruction. Eoth of these findings provide inconclusive support for the hypothesis of ethnopedagogic differences, a hypothesis which requires and merits further imestigation. In connection with the sociofunctional dimension, we have found that the little out-of-school impact on literacy acquisition that can be documented occurs primarily in EMT-medium contexts. This is also the case in connection with the sociolinguistic issue of non-school dialect. On the other hand,
insofar as interlingual variation is concerned, it most commonly occurs either in contexts in which the EMI alone or (even more commonly) both the EMT and English are both being utilized. On the whole, the direction of such variation was more frequently from EMT to English than vice versa.

### 14.2 Findings related to school

None of our sociographic or sociolinguistic findings differ from school to school. School differences do crop up in connection with one of the sociofunctional findings in that ethnic topics are more commonly encountered than non-ethnic topics (and by a wide margin at that) only in the Hebrew school, whereas in all other schools the reverse is true. However, ft is on the ethnopedagogic front that most differences between schools are encountered. The Hebrew school alone stresses analytic decoding methods more than synthetic ones (and does so in both languages). The Greek school is inordinately fond of choral reading. The French school engages in individual reading (and in small-group instruction more generally) more than do any other schools (in most of which the entire class is the favorite unit of instruction). In the Hebrew and French schools, teacher-made materials are more comonly employed than basal readers whereas the opposite is true in the other two schools. All in all, although every school. is distinctive, there are a numberof dimilarities between the Greek and Armenian school on the one hand and the French and Hebrew school on the other hand. The latter two scnools are smaller and have the smallest proportions of EMT speaking and non-English speaking pupils.

### 14.3 Differences between grades

Certain between-grade differences "favor" the lower grades in rhe sense that they reveal higher incidences of certain phenomena than do the higher grades. In the lower grades, there are more "occurrences" of teacher-made materials, of choral reading (both of the foregoing pertaining to athnopedagogic issue ), of non-school dialect correction and of interlingual variation (both of the latter pertaining to sociolinguistic issues). On the other hand, certain between-grade occurrences "favor" the higher grades. In the higher grades there are more "occurrences" of writing (a matter of sociographic interest to us), as well as more "occurrences" of sentence reading, individual instruction and individual reading (all of these being ethnopedagogic issues).

### 14.4 Frequency of contextualization

All in all, we have noted only one contextualization along the Sociographic dimension (see 14.3, above), two along the sociofunctional dimension (see 14.1 and 14.2), four along the sociolinguistic dimension (see 14.1 and 14.3 ) and twelve along the ethnopedagogic dimension. Obviously, the last named dimension reveals much more variation from school to school than does any of the others. This may be taken as further (albeit inconclusive) support for the advisability of additional research to clarify the ethnopedagogic dimension and to test various ethnopedagogic hypotheses pertaining to it (see $14.1,14.2$ and 14.3 , above).

### 15.0 Methodological Posescript

In comparison with our previous report based upon unenumerated (overall) ethnographic impressions, the present report finds much more
vartability along the ethnopedagogic dimension and much less documentation with respect to the sociofunctional dimension than expected. Since there is no overriding reasn to generally prefer or rely upon one method over the other, it is necessary to reflect further on the different findings yielded by the different methods employed. The "number of occurrences," the basic unit utilized in the present report, may well be a reflection of observer/ethnographer interest more than a reflection of actual differences in rates of occurrence. Similarly, the seeming absence of "occurrences" of out-of-school influences upon the literacy acquisition process may merely reflect the Eact that such occurrences primarily take place out of 3chool, whereas our ethnography was primarily school based. No correction could be made for this as long as we were engaged in "occurrence" counting analyses. However, in reporting our more global impressions (Fishman, Rjedler-Bergex, Steele and Koling 1981), we could emphasize investigator inpresaions of the importance of occurrences over and above their incldence (and their incidence at school alone to boot) It would appeax, therefore, that a modicum of inter-method disagreement must be tolerated, both as a corrective against overly hasty conclusions, on the one hand, and as a guide to further needed research, on the other hand.

With respect to the quantitative analysis of ethnographic data, such analysis is not only possible but a valuable addition to the usually preferred qualitative treatment of such data. Indeed, our current study has produced sufficlently provocative results for the data to be fully reanalyzed as follows:
(a) More definitive definition of categories, combination of categories that have proved to be rare, utilization of nerg categories prompted by post-hoc considerations.
(b) Utilization of a second reader (scorer/rater) throughout and a third reader (or some other impartial convention) where the two major readers disagree after consultation. This procedure wil. also contribute to redefinitions before a fully final set is agreed upon. Reliability of coding must be escablished before data analysis is attempted.
(c) Categories should be scored in a faskion that anticipates obtaining inter-category correlations via computer processing methods. Most categories should be dichotomies scored on a 0/I basis.
(d) Intercorrelation matrices, factor analyses and multiple prediction of selected criterion scores would, when taken together, extract the full quantitative promise from the rich body of data that has been accumulated for the present preliminary study.
(e) Further qualitative exploration of our data is fully merited in its own right. Given the unlikelihood of obtaining parental and comunity data from school-focused echnographies, and given the crucial nature of such data (particularly vis-a-vis the sociofunctional dimension of biliteracy acquisition), it would be highly advisable to supplement the analyses mentioned in (d), above, with interview and attitude data obtained directly from parents. The modicum of such data obtained for the present study was never analyzed due to lack of time.

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*Additional extensive references to biliteracy in particular and to literacy more generally (particularly: literacy as a byproduct of soceetal processes) are listed in items 1 and 3 , below.


[^0]:    *Our curtailed observations in a Chinese school did lead us to the, conclusion that a considerably more prolonged period of biliteracy acquisition was necessary there more than in any of the other schools.

[^1]:    $*_{a}=$ reading print; $b=$ reading writing; $c=$ writing print; $d=$ writing writing;
    $+=$ other (subsumes 4 categories)

[^2]:    
    2 asiturce readiog; $\dot{+}=$ other (subsumes o sategorics)

