THE ATTITUDES AND PRACTICES OF TEACHURS AND PUPILS
TO ENVIRONMENTAL HEALTH FACILITIES IN IBADAL SCHOOLS

SO nates

BY

BARN. BAS HAMMAKALU MICHELO B.A. UNCA

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Department of Preventive and Social Medicine
Faculty of Modicine
University of Ibadan
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SISTERS MHOSE ENCOURAGEMENT NEVER CEASED

ALSO TO MY JIFE, GEORGINA LUCHELO (MRS.) FOR

HER FAITH, ENCOURAGEMENT AND FOR ALLOWING

ME TO DO THE M.P.H. (H. Ed.) DEGREE

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#### CERTIFICATION

We wortify that this work was carried out by Mr. B.H. Michelo in the Department of Preventive and Social Medicine, University of 15 den.

### Supervisors:

1.

Engr. P. A. OLUI...D.

Engr. P. A. OLU...D., M.Sc., D.I.C., M.I.C.E., 1.11.5.E., C. Eng.

MR. A. DEMEHLIN A.A., B.A., M.A.

### ABSTRACT

The provision of satisfactory environmental health facilities in schools is very assential for the promotion of health of both toachers and pupils. In this dissertetion, toochors' attitudes and practices to the use and maintenance of environmental health fecilities in solected schools in Ibadan have bosn covored. The study has revealed that onvironmental health facilities in the Primary Schools are not only inadoquate, but they are poorly maintained. It is an important duty for teachers to soo to the mnintonance of those environmental health facilities. In this study, pupils' prectices to the use and maintonanco of onvironmental health facilities word also included. It was not oney to study pupils' attitudes by mero observation because attitudes are the innor foroce of mon, which pull and push him to respond positively or negatively, and nre therefore not observable. Because of this difficulty, pupils' attitudes have not been covered in this dissertation. Pupils' practices word studied by way of participant observation because it was easy to observe what pupils

were doing. From each observations, it was easy to deduce from their practices that the existing facilities in schools were gromely in decur to to cope with large appointments in these ochools.

The research methods which the author used in the ctudy included: the observation, interviews and discussions and the guestionnaire which was administered to all terchars in the schools. The methods were used to collect to ruch useful information as possible on the attitudes and practices of terchars and pupils to the provision, use and maintenance of four solucted environmental health facilities which have been covered in this dissertation include:— Vater Supply, Vasto Disposal, Mid-lay school and and School Buildings.

knowledge, they do not put what they know about health into proctice. Many of them neglect the use and the maintenance of ricting environmental health facilities without realizing the health health health a that might arise. In this case, teachers fail to set the desired examples of healthful living to pupils in schools.

wor doing. From such observations, it was may to deduce from their practices that the winting facilities in schools were groundy inductable to cope with large anyologous in those schools.

otudy included: the observation, interviews and discussions and the functions are which was administered to all teachers in the schools. The methods were used to collect as such useful information as possible on the attitudes and practices of teachers and pupils to the provision, use and maintenance of four selected environmental health facilities which have been covered in this dissortation include:— Inter Supply. Weste Disposal,

knowledge, they do not put what they know about horith into prectice. Dany of them reglect the use and the minteness of yristing cavirons ontal health facilities without realizing the health hazards that might arise.

In this case, teachers fail to not the desired examples of healthful living to pupils in schools.

Water supply in those schools is often interrupted and in some crave water take are locked and implie cannot use thom. In all schools storage facilities for water and wash-hand basins are lacking. Waste disposal methods are either incloquate or absent. The teachers' attitudes and practices to the existing waste disposal mothods in schools are bad. From the reserved mothods employed it was discovered that terchors re not drilling their pupils to use those facilities well. The Mid-day School mond in all ochools to not well organized and not much health oduoration is attached to it. Most of the school buildings are quite old and a my of the are defective. The health implications of incheaute and unsatisfactory conditions of these environmental horith facilities are numerous. In all, teachers did not show kush interest to inspect the existing environmental health ficilities and sec to it that deviations from standards act correctod.

To conclude, the study recommends that both the Government and the communities around the schools should be involved in the improvement of environmental herlth

facilities. There is a mod to train teachers in he lth elucation and to asko thou evero of their role as change "gents. In addition to this, there is a mood to conduct r frosher courses for torchers to prio them aw ro of the dangers caused by negative attitude and protices to the proper use, and proper maintenance of environmental herlth facilities. There is need to aske school herlth programmes relevant to community needs to allow the pupils to benefit both at home and in school. To chers should bo oncouraged to carry out their own periodic inopostions of environmental health facilities in schools and do all noossary corrections whore possible.

CHAPTER ONE

### INTRODUCTION

Attitudes affect the practices and the knowledge of both the tenchers and the pupils in schools. This study examines the attitudes and practices of teachers and pupils to the provision, and and maintenance of environmental health facilities in schools. Environmental health facilities in each school are many, but in this disportation only four of these are covered. The environmental health facilities which this study covers include:—

Vector supply, Juste disposal, Mid-day School neal and School buildings.

hygiene and for other cleaning purposes in the school. It is essential that this kind of mater be adequate, sero and accessible to both pupils and teachers.

In the mid-dry nohool meal to be nutritionally balanced to prevent nutritional disorders among chool children.

This is also essential in order to produce the desired.

Oducation in good enting habits of pupilo in schools.

However, where this mid-day school meal programmes have been started, to chers must operate it well and prevent all possible containstion of food at various stages through which food passes before consumption in the schools.

On surcos blocks are the part of the educational process and not merely a malter for learning. It is the a duty for teachers to keep then hydronically clean and correct any devictions from atendards or make a report to the appropriate authority for action.

This study is corried out to discover mother teachers' attitudes and practices play a dominant part in hundering or promoting the successful operation of environmental houlth facilities in schools. It is also essential to find out whether pupils' bad practices to the use and maintenance of those facilities in schools emanate from the teacher's assertive attitudes and practices. The

hachth facilities are adequate to meet the meets of the school population and whother they are properly used and maintained to benefit the pupils in schools. An attempt will also be made to discover whether there are some health implications which can arise when such facilities are improperly used and maintained.

In some countries environmental health fecilities to provided by the government. However, where the government cannot provide them, it is the teachers' responsibility to organize the community and see to it that environmental health facilities are provided in schools. Once these have been provided it is the duty of the teachers and pupils to maintain them well.

Toachers' attitudos and practices to the use and naintenance of those facilities in cohools are governed by the knowledge which the teachers possess. Questions caked from the teachers on how pit latrings should be maintened in schools are likely to bring out positive as well as negative responses based on the teachers' feelings, thoughts, actions or behaviour towards the pit latring.

Teachors' proparation in horith oducation prior
to their appointment as teachors is essential to make
them aware of their role as horith teachers. These
teachers have equal responsibility to maintain environmental health facilities in schools. In a group
working situation such as a school, if the dominant
group members have unfavourable attitudes or behaviour
to environmental health facilities it will not be easy
for the teachers individually to have favourable attitudes
and practices to premote healthful living in the school.

of the group to which one is a nomber. Those attitudes which got developed after a long time got deeply rooted and comented and are therefore very difficult to change in the individuals i.e. teachers. For this reason, many governments have level much emphasis to teach health advention to pupils in schools because pupils can acquire correct attitudes more easily than adults. The ultimate air of health advention in schools is health practice or action. Health education occurs only when the health action or health practice has taken place.

Bofore we can say that toachers' attitudes and proctices and favourable or unfevourable, it is important to research and find out the status of onvironmental horlth facilities in schools. Some of the important questions to enswor aro: - Are these facilities a threat to their culture, beliefs, and customs? Is it practicable to acquire these facilitie and maintain thom in schools? /re those onvironmontal health facilities acceptable to this local people in the study are? Is outside help available to help in providing these facilities in schools? Lack of adagu to provision of these ficilities any lead pupils to rdopt incorrect practices i.c. pupils may throw school rofuse anywhoro if there is no evailable nothed of refuso disposal in chool. In the final analysis, it is not oosy to undoustand why teachers are not doing what they are supposed to do in achool unloss one otudies their ettitudos, knowledge and practicos to the uso and maintonance of existing environmental health f cilities.

#### CHIPTER THO

### 2.1 LITER TURE REVIEW

The study on attitudes and practices of teachers and pupils to environmental health facilities should probe into the provision, use and maintenance of these facilities. The provision, use and maintenance of these facilities are in the interest of the pupils' own health; they also contribute to the development of sound health habits and attitudes. Many research workers have written on the insanitary conditions in the majority of communities in Rigeria. Since schools are part of communities, the author has decided to investigate into the rele of the school teachers as regards to the promotion of health for pupils. Is stated by one research

<sup>1.</sup> Kazauro, M. School Sanitation. J.S.H.N. vol. XII. No. 1, (April 1978).

institution but it is a horlth education unit. The school therefore should serve a place of de enstration of good s mitation to the community and the tehildren should be encouraged to particip to in practical activities.

In response to the above, each school can carry out this activity by providing good water supply and sanitary facilities for the disposal of waste inside the school compared. It should be provide good class rooms and operate a mid-dry school of programs.

It is the duty of the terchers to drill the pupils
so that they develop good practices on the proper use
and maintenance of existing facilities in schools. There
is much emphrsio, on pupils to do practical nativities
to make health education manningful. The best way to
brighten a country's future in to invest in its children.

Oduntan, S.O.: Herlth Implications of the Proposed U.P.E. in Miguria. J.S.H.L., vol. xi. No. 1 (January 1976).

<sup>3.</sup> Dronolab in Vivien: 'School Health 'ducation in South Rest / a .' Int. J. of Alth Ed., 1:3 (1958), 133.

<sup>4.</sup> Oduntan, S.O.: Op. clt.

<sup>5.</sup> Lgonde: Womon in Africe p.8 (February, 1978).

Studies which were conducted in selected schools in

Ihad a have revolved that environmental horith facilities

re grossly poor.

Also Oduntan in her earlier studios found the conditions in most Migarian Schools to be doplorable".

- (1) 70% of r:ll schools were without pilm-borno water;
- (11) 60% were overereded (n. condition which most UPE classes are experiencing);
- (111) 23% bad no refuse disposal froilities;
- (iv) 23% had buokat latrings, collection of which is very irregular.

Equally in the communities the environment is fetid, filthy and highly susceptible to my epidemic as a result of environmental neglect.

f. Adomurgun, 3.... in invostigation of status and problems of Smvironmental Sanitation in Selected Schools in Ibadan, Migeri. Journal of Pharmeoutical and Ledical Science, vol. 1, No. 2. (1977), pp 59-75.

<sup>7.</sup> Oduntan, 3.0.: "The offect of Environmental factors on the intellectual behaviour of Nigorian School Children. J. Trop. & Bov. Child Bith. vol. 17 (1971), pp 67-70

<sup>8.</sup> Onibolour, A.C.: Environmental Sanitation in Rigeria"
Directions for future research. J.S.H.N.,
Vol. 2, No. 1 (January 1976), pp 107-110.

In order to improve the environmental health status in schools to benefit the future generation, many research workers have advocated for a systematic planned action. There is no proper way of doing this without involving the teachers in schools. Teachers in schools supervise control the way pupils live, and was in a good position to prepare them as future healthy citizens.

It is accepted that boliofs and misconceptions
which people accours when they are young tend to stick
to then for a long period later in life. It is therefore
essential that pupils' bad practices and attitudes to
the use and maintenance of orieting environmental health
facilities be corrected when pupils are still in schools.
The schools have an advitage in this becouse children
in schools form ready audience which is easy to get,
to the and influence. However, pupils' bad practices on
the use and mintenance of existing facilities cannot be
corrected unless teachers put what they know about health
ist practice.

<sup>9.</sup> Oluvini, P./.: Provision invir: wented health freilitis for healthful school living in pp 19-23.

[H.J.H.J. Vl. 1, No. 1 (July 1978),

# 2.2. THE EFFORTS OF THE SCHOOL IN PROMOTING

The importance of Prinary Schools in Rigeric and Africa in general is connection to the praction of North in school children cannot be ignored. Nost government have introduced Universal Prinary Education to combbo the future generation to be onlightened. This scheme time at equiping the pupils with health education copposably practical health education by notheds whereby the children will not only locan theoretically but undertake practical activities to effect a comprehensive physical, mental, social, moral and spiritable health. 10 This hand of education on bles the pupils to develop good attitudes and practices.

The teaching of health education in Primary Schools

has always been a sajor pre-occupation of many people

and several conferences had been held about this. The

one of 1948 which was organized by the International

Bureau of Education, recommended to all Ministries of

Education that practical instructions in hygiens and

health education be undo compulsory in all Primary Schools.

11

O. Sofoluwe, G.O.: The Health of the School Child.

Rilader, F.H. Strong Recommondations of Hoalth
Education in Princry Schools adopted at the
Interactional Conference in Public Health
Education (1948). Int. J. Hlth. Ed., vol. x
(1967), p. 184.

In response to this interactional call there is a Primary 3oh of Syllabus in Oyo State in Migoria on Hoalth Education. It is titled "family health".

In order to be accuingful, health aduction should bo approached as a practical discipline and examples are important. It has to be related to the social and herlth no de of the school and commity. This is esse tial because the child is part of a large community and what affects the community will affect his. Health Education should be rol tod to the problems of life and thoir solutions. 12 1, progressing of constructing pit is trinos in the school or o munity should ther fore originate from the lives and problems of the people for it to be realistic. The school which only teaches the importance of good water supply, edvocates a proper aveter of refuse and hunch exercts disposal and stresses on the mood for the hygianic proportion and serving of food and yot duclines to provide these ascentials has failed in its task in houlth oducation. 13 For this reason, the school quat rin at providing a high standard

<sup>12.</sup> Hall, C.S.: Lecture notes on "School Health Education" Chalimbana In-Service Techor Training College (Zembia) (1977).

in promiting invironmental Sentiation in schools of the Society of Horlth. vol. II, No. 2 (July 1967).

for its invironment I houlth facilities. Houlth Education in rechool sotting exists to propose the citizen for the necessary changes in his habits through examenses.

Information of evaluation. 14

# THE FOUR SELECTED ENVIRONMENTAL HEALTH

### 2.3 Water Supply:

The provision of safe drinking water in echools is very essential and is the first practical step towards builthful school living. The other requirements of a school water supply ro its Capuacy, convenience and continuity. 15

Sefo and adequate water supply door not only oliminate the use of polluted sources but it also makes possible water borne source disposal. It also provides sufficient water for laundries, cooling and personal cleanliness.

If possible a school top should be placed there pupils can obtain water for drinking without need for storage.

<sup>14.</sup> Legoo Helth Congruss (Editorial). J.S.H.N. vol. II, No. 2 (July 1967).

<sup>15.</sup> Luc 3. 2.0. and Gilles, H.H.. "Environmental Honlth". j. whert toxtbook of Proventive. Hodicins in the Tr pigs. Chpt. 11 (1975).

Howover, in cases where water has to be stored in classrooms, it must be stored in proper sanitary devices to
keep it wholesome. It is important and hygienic to give
each pupil an individual drinking cup or single service
paper cupe. This helps to guard against the spread of
discrete. 16, 17

water supply to schools, the first important consideration is the source of the supply e.g. whether piped treated water, or whether from a deep or shallow well and whether from a stream, spring or pend. All suspicious sources must be protected from pollution. Schools which use wells as their sources of supply pust be health educated against the dangers associated with underground water. The sanitary measures which such schools can adopt are as follower. The well should not be less than 30 metres (100 feet) from any mearby source of pollution and chould be situated at a higher level to that source of pollution to provent polluted water flowing into the well. The well should have a watertight lining from the better to

<sup>16.</sup> Lucas, J.O. and Gillos, R.H. Or cit.

<sup>17.</sup> Turner, C.E. ot 3.: School Houlth and Houlth Education (1970).

of about } metros above ground level to guard against the entry of surface run-off. This parapet should be surrounded by a concrete apron to drain the wests water also. There must be a water-tight cover. Vater should be drawn preferably by a pump, or at least through a permanent bucket which is anchored to the well. 18

Individual buckets which may lead to pollution should be evoided.

for use by the teachers and pupils to clean up their hands after visiting the latring and after menual work.

This is very important and must be regarded as practical health education.

Studios which were carried out in solected schools in Ibadan and Ile Ife revealed that there is no water supply in some Privary Schools. Consequently children bay to wander far and wide in scarch of water or bring water to school from home. Therefore there is no water to clean up the latrines and for parsenal hygiene. 19

<sup>18.</sup> Lucas, ... and Gillos, H.H.: Op oit.

<sup>19.</sup> Sengonum, 0.0. and Oblycui, N./.: The analysis
of the status and problems of Environmental

Sentiation in Migorian a uch ional institutions

J.S.H.N., (April 1978), pp 12-18.

### 2.4 Disposal of Wastes:

## (a) Toilot facilities:

Total the should be redequate and conveniently located to observe with separate units for boys and girls.
Units for area and fearly teachers should be separate too. Litrings should be well lighted, screened, ventilated and should be kept clean. The floor of a pit latrine should always be unds of reinforced concrete so that it does not collapse. There is no do for the proper maintenance of latrines to minimize the deaper to health.

Such dangers can be avoided if standards of construction and areintenance are followed.

It is assential that hazards to pupils' health and any insenitary conditions in the school compound that ending as the health of the pupils and teachers be corrected without felly. In correcting some of those dangers to health, capils must be involved because this is practical health aducation exercise. Feachers and the pupils just be alerted that I are numbers of diseases are spread firectly through man's contact with human

<sup>20.</sup> Olumendo, P. .: The Pit Letrine System. Chapter 2, Chorp Suwage Disposel in Dovoloping Countries. Ibein University Prose (1978).

via carriers and disease vectors like flies and cockroachers. Faeces are attractivo to flies and support
the development of larvel stages. All indiscriminate
disposal of faeces can constitute a grave nuisance as
a result of unsightliness and smell.<sup>21</sup>

The above insanitary conditions can be minimized if udequate provisions for the disposal of faeces in schools are made and if both pupils and teachers are taught to appreciate and use such facilities and to maintain them properly.

atruction of a latrine is only a first step, but other activities such as the proper use (upkeep and disposal of contents) are equally important. Teachers should have some knowledge about the relationships between locally prevalent faccal borne diseases and excrete.

Pupils need to be drilled vigorously on practical health education, like ensuring that orifice covers are replaced

<sup>21.</sup> Winblad, U. et al: Sanitation without Water (1978).

flios, and also scrubbing the floors of latrines from time to time. School children need to be motivated on the use of latrine. Tenchers in schools should lay more emphasis on the relationship between insanitary practices and disorse. 22

Teachers in schools should aspire for well constructed and properly maintained pit latrines. In such a latrine, there should be no handling of fresh faces, no contamination of surface soil or any underground water that may enter into a well. Exerct should not be accessible to flies or animals and there should be no unpleasant edeur or unsightly conditions. The construction method should be simple and inexpensive. The method must be acceptable in terms of culture and beliefs of the pupils and teachers. 23

The pit latrine should be deep in order to discourage fly breeding and to provent it from filling promaturely.

The recommended number of pupils per pit latrine is

16 pupils. 24

<sup>22.</sup> Turner, C.R.: Planning Houlth Education in (1966).

<sup>23.</sup> A.O. Duers and Gillos, H.M.: Op cit

<sup>24.</sup> Osiberu, E. .: School S nit tion in Nigoria.

J.3.1. vol. XII, No. 1 (April 1978).

## (b) Refuse Disposal:

The proper disposal of solid wester such as proper disposal (wester food, cans etc.) is very commutatel in schools. According to the studies carried out by Some received verters in disposal and other deviloped countries, provision should be made in schools for adaptive refuse disposal. It is essential that each classroom maintains its own wants of par box or dust bin. These are to be explicitly at a control refuse dusp before final disposal. The central refuse dusp should be within easy reach of pupils. Refuse should not be allowed to commutate in school previous because it can lead to the generation of previous because it can lead to the generation of plants, herbouring of insects and release there by encouraging their breading. 25

However, even if pupils in Princry schools are
the it to plok litter stair and outside their elessrooms
to mil r into yele, it has been discovered that facilities
like in in retore, refuse pits or other refuse disposal
their retore vilable. In some schools where the
resulting are valiable, they are not effectively
still at in which case pupils and teachers white dway
resulting are rely bush or in an open spece. 26

<sup>25.</sup> zur, .1.: On cit

<sup>26.</sup> Songomien, O.O. and Obigini, H. ... Op git

Por exectical health education purposes, mapiles

"ust be organized to empty acheol dust bins. In

organized schools, Sanitation Connittoes have been formed

to help bring about the cooperation needed in the

maintaneous and proper use of existing facilities.

Where school incinerators are provided, the refuse must

be theroughly burnt often and cashes removed to maintain

its burning afficiency. Composting wherever it is

precised should also be done properly to evoid fly

broading and any mesting of redonts.

### 2.5 Sch litt-Dy lied Programo:

nid-lay meal system. In this system, and schools operato children regularly receive some form of supplementary food. The mid-day behood meal can play an important part in the vital propriate of health promotion and nutritional edge tion. School meals can serve coveral functions. First, it can be used to provide food for the grating children so as to ensure good health and proper levelopment and growth. Secondly, school meals can be used to track children about balanced dieta and

the right types of food t cot. Iso cleanliness, food hygiono and sanitation can be taught using school real at a brais. Thirdly, it can be used to combat malmutrition can gehool childres. 27

The value, from a health point of view derived from an organized mi -day moal is so important that overy child should be ando to out in school.

Reservoh work of the mid-day school meal has stressed on the importance of food scattation. Food hygione has to be applied to prevent the contamination of food-stuffs at all stages up to whom it is octom by pupils. The following measures have been suggested by some research workers in order to maintain a high standard of purity of the school mid-day meals.

- 1. Tood vendors should maintain thigh structed of sanitation.
- of flow voniors and cuting rooms in schools should all be subjected to periodical inspection by qualified officers such an Hoalth Inspectors.

<sup>27.</sup> Atimo, T. and Omololu, A.: School Mon. J.S.H.N. vol. xii No. 1, (April 1978)

the right types of food to ent. Also cleanliness, food hygione and sanitation can be taught using school meal as a basis. Thirdly, it can be used to contact unlautrition along school children. 27

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- 1. Tood wondors should maintain high standard of sanitation.
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<sup>27.</sup> Atimo T. and Omololu, A. School Hoal J.S.H. N. vol. x11 No. 1, (April 1978)

- Rogular supervision of food handlors 18

  mecossery to ensure the hygienic handling
  of food.
- 4. Food vondors who propers school coals should be sorupulously closm, the utensils, dishes cooking pots should all be washed theroughly with hot water and soap.
- 5. Vondors should be subjected to regular modical examination at least twice a year at a health office or chest clinic. The aim is to screen out any carriers of infection.
- 6. Instruction on food sanitation should be given to all food handlers to ensure that wastes in their homeo are properly disposed of.

  The environment, where food is eaten should be hygienic and monle should be balanced and varied free dry to day. 28, 29, 30.

<sup>28.</sup> Laoyo, J...: Frinciples end Fractico of Holth Education (1978).

<sup>29.</sup> Rucgua, M.A.: Universal Primary Education in Nigeria. Issue Proopects and Problems (1976). Ethiops Publishing Corporation, Ring Road, Bonin City, Nigeran.

<sup>30.</sup> Lucas, A.O. and Gilles, H.M.: Op oit

neel, research workers who have studied some solucted schools in Ibadan and other parts of Nizeric have revealed that some food vendors promises are very unhygienic and in most cases they are not inspected. Thus, there is no sanitary protection of food. Food collers are not screened, in most cases there are no eating shelters for public while in some cases pupils cannot afford to buy this neel in school. 31

In some cases, studies have revealed that where this school mid-day eal in soll conducted it offers a lot of want gos to school children. It ensures one holosome made to pupils a day especially to children who ensure from poor homes. The nord is a believed one for pupils and is intended to prevent nutritional deficiency. There pupils have enting rooms the coal helps to inculcate good tools maners, (accept ble social behaviour) to pupils. In the final analysis the school meal serves as a beautory where children are exposed to practical facts about food, nutrition and acceptable social behaviour.

<sup>31.</sup> Hwogwu, N.A.: Op cit.

<sup>32.</sup> La ye, J.L.: Op cit.

#### 2.8 School Buildings

Those should be of sound construction, rain proof, with adequate natural light and well ventilated. Studies on classroom blooks have emphasized on the meed to have edequate school buildings which should be built on well drained land. The walls and floors of classrooms should be rendered water-tight, dry and safe. School buildings should be so sited . that cach classroom will receive adequate light and ventilation. The roof should be of durable and non-inflammable natural and should have coiling. The Rigeria, because of the tropical climate, schools require coilings in order to provide a healthy confortable atmosphere for both pupils and tocobers.

However, some studies in Nigeric have revealed that some schools are sited on low lying swempy grounds while those schools which are built through solf help by parents fail to most the required health standards. The health of the pupils is not considered because some of those classrooms have drap dilapidated walls. In some of them there is everywhing (over 40 pupils per class). 34

<sup>33.</sup> Osiberu, B.A.: Op cit.

<sup>34.</sup> Sopromuge, 0.0. and Obiyeni, M.J..: Op cit.

The standard size of a classroom is 7.20m x 7.50m. 35

of the floor area is the minimum) and must be opened fully to allow free flow of frosh nir. Repairs and maintenance of school buildings ensure that buildings are always in a good state of repair. It is the duty of the teachers to organize the communities to carry cut the necessary repairs in schools when the government is unable to carry out the repairs.

Other studies in Ibadan have also revealed that lack of fonce to some schools have led to serious problems. The privacy of each school is seriously challenged by dwellers at the vicinity who constantly intrude within the school premises. Those neighbours constitute a threat to the smooth running of each school and pose a threat to the health of the pupils. Those neighbours have filthy habits, they lack basic amenities. They have no knowledge of hygians. Most of their demestic animals frequent the dumping sites within the school compound. 36

<sup>35.</sup> Chief Education Officer, Ministry of Education, Socrotariet, Ibadan.

<sup>36.</sup> P.S.M. Staff Members: "School Inspection in Selected Schools in Ibadan (1976).

Ropairs and maintenance of school buildings ensure that buildings are always in a good state of repair.

Simple repairs in school can be carried out at once but major works should be done during school vacation.

Tenchers should drill the pupils to keep the school premises tidy. The bost method of tenching children is by a repeated practice, and the same action done over and over again, under the eye and direction of the tencher till they have the habit of doing it well.

37

In order to keep sanitary status at a high level there should be periodic inspections of the buildings and grounds at locat twice a year by appropriate health authorities. The school authority should be alorted of all deviations from standards. As a locating experience, it is essential for the technology and their pupils to carry out their own unofficial sanitary inspections.

<sup>37.</sup> Graut, R.E.: Henlth 'To ching in Schools (1965).

#### CHAPTER THREE

#### 3.1 The study

During the uth r's counity diagnosis activities, is was observed that the standard of environmental harlth inner-core of Ibrd n where the five Prinary Schools are located. The environmental health in the study of ry schools are either in deguate or obsent. Most of the schools have interrupted water supply, in the uns tisfactory wasto disposal motheds. The school and lay north programs in onch school de est wall or mired the public are not hygienically hereigh. The alegan not only overcrewded but most of them are having a lot of defects. Gince it is chas daty of the chart to the second to the horizon the muthor has duci od to study the nttitudes to presticus of tonchors and pupils to the provision, we and maintenance of environmental health regilities.

Torchers' reactions to the conditions prevailing in schools where revealed by observations and discussions. Iso questions based on the knowledge of teachers were asked. It was easy to deduce from the teachers' responses their attitudes to environmental health facilities. The factors which lead pupils to practice bad habito, such as unimating outside the latting, throwing refuse anywhere and washing their feet, heads and cutleries at the school taps were revealed by participant observations.

#### 5.2 Dofinition of torns and Concopts

#### (a) Attitudes:

Are status of rechiness and prodisposition to action.

They are viewed as the chief determinants of action which make a person to use logical decisions to accept or reject what he is given. They are favourable or unfavourable behaviour tendencies to objects, persons, situations and idoes. Attitudes are either personal or social depending on how they are held. In this dissertation attitudes refer to teachers' feelings, thoughts or behaviour tendencies on the provision, use.

and maintenance of environmental health facilities in schools.

#### (b) Study Area:

to is in the inn r-core of Ibalan. It is the area around the schools which are being served by the echools. However, some pupils come from outside the study area, i.e. From Olds ado area.

#### (c) He 1th:

he defined by 1.4.0. is a state of complete mental physical and social well boing and not morely the absence of disocse or infirm ty.

#### (4) Semitation Conditteo:

pupils, parants and government officers who volunteer
the solves to take a localing relating promoting, establishing
and a intaining the health conditions of the school.

# MAP OF SW4 & SW5 SHOWING THE FIVE PRIMARY SCHOOLS STUDIED SW 6 SW7 Christ's Gospel SW Baoku al BAU.D. SW 8 SW3B

FIG. 1

#### 3.3 The Location and Scope of the Study

core of Ibadan city, in Nigeria. The inner-core of 3.1.4 and 5.1.5. is bounded on the South by a terred read, on the north by inule street, on the West by Oguapa street and on the east by Gern street (See the map).

The inner-core has 104 compounds in 5.1.4 and 47 in 8.1.5 all with 12,000 and 7,000 inhabitants respectively.

show the present status of environmental health facilities in schools and to find out the attitudes and practices of teachers in relation to the facilities. In this study, it was only possible to study the pupils' practices.

The onvironmental horith facilities covored in the study include actor supply, waste disposal, sid-day neal and school buildings. Those four were viewed as the most important borith education problems in princery schools during the author's community diagnosis. The author sees the teachers as having a vital role to enlighten the pupils and the community around on the essentials of environmental health facilities. Improvement

<sup>1.</sup> Figures from Registors painted ned by Councillors in S.W.4 and S.V.5 (1963 Consus).

of such facilities in schools will improve the nuclity of touching and therefore raise the standard of healthful living of the community. The programme of school sandtation is important because it can prove as an excepte to the whole community around the school.

#### 3.4 Objectives of the Study

- to the provision, uses and minton nee of environ-
- 2. To identify the teachers' problems on environmental health facilities in schools.
- j. To identify the pupils' problems to cope with the sulocto' environmental health facilities in schools.
- probles of environmental health feilities in schools.
- 5. To make recommendations for

  inproving the attitudes and practices of the

  tocchars and papils on unvironmental health

  facilities in schools.

#### 3.5 N t rich nw! Hothodology

In order to obtain a close ploture of the status of average enter he lith facilities, all five printry schools in the inner-core were included in the study. This in turn ensured a broad coverage in terms of knowing the term of attitutes and practices to the use and upleap of environmental health facilities.

It should be noted that there are two sessions at much school. The sering session is referred to as school one while afternoon sussion as school two. It must be suphraised that both schools one and two at the same school precises share the same inclonuate environmental health facilities. (see appendix B for the latrine ratio) The methods of deta collection employed were:-

#### (c) Participant Observation

conditions of environmental health facilities and how they are being used by both teachers and pupils. During the visits the methods of practical health education given to supils in connection with the four studied environmental health facilities were explored. Several visits were prid to the five schools between the last quarter of 1978 and January 1979.

The pupils practices that were observed included:
indiscriming to disposal of waste program and waste food,
unincting outside the latrines, enting their nidelay
acal enywhere in the school premises, washing their foot,
herds and cutleries at the school taps and tracking to
distant areas to futch water or to carry water from their
homes to schools. Also failure of these pupils to wash
their hands after visiting the latrines, failure to fill
the few existing wash hand busine with water and failure
to use the provided crifice covers for pit inluts.

The community around the schools was
noted for its insanitary behaviour and its non-adherence
to basic hygiene rules.

During the author's observation of the schools the following check list was used to assess the environmental health facilities.

1. Inter Supply	One trp constantly running:	A.donuc to
	Tap intorrupted at times:	feir
	No tap:	bad

2.(i)Refuse disposal

No littor in school prepisos:

clean

Fow papers horo and thore:

dirty

Heap of refuse

very dirty

(ii) Latrinca

Letrinog safor and adoorate\*\* and no faces on the flor:

clunn

I muloque to/cdeque te with faoces here and thora:

dirty

Inchoque to a lot

of fnocos on the floor: vory dirty

3. Hid-dry Hocl.

From closn homes well inspected:

acfa

Clock holos not inspocted:

suspicious

Poor home sanitation, not inspected, Hygiene miles not followed, Vondors not oxrained bedically:

dengerous2

Safe toilet is one with firm construction, pit holos not too wide to allow a child to fall in and no faocos on the floor.

Adequate according to Mostern Migoria Education 香香 Law 1955

Kornnyes, S.J.: The health knowledge, attitudes 2. and practices of primary echool children in Thedan and implication for Realth Education" (1977)

#### 4. School Buildings

Adequate, clean and safe:

good

pot holes on floors broken: windows eutters, etc.

bad

Ovorcrowding, cracked walls, roofs nearly collapsing:

dangarous

#### (b) Oral Interviews and Discussions

Interviews were held with school teachers, the Vaste Disposal Board Office at Agodi, the Health Inspector in charge of S.W.4 and S.V.5 based at Mapo Hoalth Office, Realth Officers at Oniroke, Ministry of Education Headquarters at secretarint and the Health Committee of S.W.4 and S.V.5. Interviews were often in form of dispussion. In schools more discussion with teachers took place during broak time and the author was able to extract valuable information from such talke. The discussions attempted to find out what plans, if any, the teachers have on the inadequate environmental health facilities, on the insanitary disposal of faccook and the unsatisfactory mid-day meal that come from timespected sources unknown to them. An attempt was also made to find out how much

theoretical and practical School Health Education or health teaching thore is in schools. Enquiries were made as to whether health personnel made frequent checks, to ndvise teachers on the methods of alleviating the current environmental health problems in schools. Any information which the author found to be misleading from any discussion was double-checked by school inspection. The author carried out three thorough inspections of each school other than mere routine visits.

#### (c) Questionnaire:

that other earlier researchers used, the author decided to make use of queetionnaire that would bring out most of the teachers' attitudes and practices. The questions on the four studied subjects were asked to measure the teachers' attitudes from their knowledge. Attitudes are reactions to semething. It is easy to deduce from the teachers' responses whether they have favourable or unfavourable attitudes towards the waching of hands after using the latrine. It must be noted that attitudes of the people can be deduced from the knowledge they possesse towards senething especially when this is coupled with discussions.

Thus in selecting the best responses out of the knowledge the teachers possess, teachers revealed their feelings, thoughts or behaviour towards the existing facilities being studied. e.g. Food vendors should go for medical examination once in six months. Using his existing knowledge, the teacher may have different feelings or behaviour about medical examination of food vendors. In cases where a teacher does not attach much importance to it, he is not likely to encourage the vendors to go for it. In this case, wrong knowledge means wrong attitudes and practices.

fuestions on practices of teachers have also been included in the questionnaire. Practices were also got from discussions and from observations. Practices may equally depend on knowledge possessed by teachers and pupils. The author was able to judge the teachers' and pupils' practices by observing what was going on in schools as regards the provision, use and maintenance of environmental health facilities. The conditions of the latrines and how the mid-day meal was organized in schools helped to reveal the attitudes and practices of both teachers and pupils.

or hinder the success of a health education activity.

The behaviour tendencies which teachers have as respects
the use and maintenance of environmental health
facilities need some alteration if the pupils are to
benefit. Attitudes when held by individual are referred
to as individual attitudes but when they are held by a
group they are referred to as social attitudes.

The quest onna rea were protested at morressive They School. This school has the same kind of environtal halth problems as the fivet twee splored a ns r-core. In the studied Prim ry hool qu's ionnairs were given to all tenchers at each school. The accessry information needed and the purpose of the survey were all clearly explained to the teachers. Teachers were asked to depend on individual jud cment when answering the questionnaire. The essentials of the survey aimed at gathering different feelings, thoughts, and ttitudes are favourable or unfavourable haviour tendencies of person to objects, situations ideas. The teachers asked for one week during which to complete the questionnaire. The author accepted the idea considering the fact that toachers were still settling down after their month long antion wide otrike (accomposition for the questionnaire openimen),

It is accopted that 'Moclif Education' is viewed as having three components vizi- Knowledge, Attitudes and Practices. However, for the purpose of this study the author has decided to look at the Attitudes and Practices of teachers and pupils' practices to the use of environmental health fecilities in schools. It has been found from the questionnaire that one hundred and seventy-nine teachers responded. (152 teachers took Health Education course during their Teacher Training while 27 are untrained teachers.

- 5.6 Hothodological Problems
- (a) Militations of the methods
- in school where they had formerly sorved were reluctant to complete the questionnaires on the grounds that they saw no improvement of my kind even after they have completed questionnaire.
- 2. were from it as could not be administered in time as expected because of the Retion wide strike by to there. It only became possible to do this in Insury 1979 when to east called of their strike.
- resourch to draw a depar to quentionneires for pupils. For this reason the cuthor interreted with pupils by very of preticipant observation.

  Such an activity limits the researcher to know the pretices of pupils only.

#### (b) Limitations of the Study

#### 1. Comminionation Problems:

- (a) Transport: In Ibadan it is compon to be taken there the taxi is going and not necessarily where one which texi to going to the Inner-core. Even after getting into the taxi one is not guaranteed if it will continue on the same read as this depends on the herviness of the traffic at that point in time. The use of branch reads by taxi drivers often complicated the problems of knowing where to be dropped. At times the nuther was carried beyond his research area but only to be told to return again.

  (This is because the author does not appeal Torube, the local language).
- trivol in Indan the one doesn't month the local diclocts.

  The ruther could neither communicate well with most tail drivers nor with many Innor-core residents from where he sought directions to schools. In schools the language barrier consed to some extent. Nest of the teachers use English which is a common language. However, it must be

health officers and health committee members to use their of language most during discussions. When this happened, simply put the author out of the topic boing discussed.

#### 2. The Nation-wids strike by Toachers

This completely put the author out of research in schools. All the propered questionnaires remained undistributed. From the look of things this is why the author relied on participant observation in studying the pupils practices. Also the Matien wide strike delayed the interpretation of data on the findings about the teachers' attitudes and provides to environmental health facilities in schools.

#### 3. Pime Factor

The time allocated to data collection, analyzing and compiling of the information into finished form was very insufficient. However, the author's concurrent field work enabled fore information to be revealed and arons in ture research suggested.

#### 4. Financo

The problem of finance cannot be ignored. A research project domands a let of money both for transport, paper work typing and to some extent employing helpers c.g. interpretors who may know the local language where the research is being carried out

In spito of all those methodological problems it is hoped that this study will offer some contributions towards the understanding of the teachers' attitudes and practices to the use and maintenance of invironmental health facilities in Primary Schools. The pupils' practices are covered in this. respect too.

#### 3.7 Assumptions:

- 1. There is not much difference between touchers who took health education during their Teacher Training and those the did not no regards attitudes and practices to environmental health facilities.
- 2. That without proper use of solocted onvironments.
  health facilities in schools pupils do not grow up to
  value the use of proper semitation.

The theoretical knowledge about health imparted
to pupils according to the syllabus "Femily Health"
cannot be meaningful when environmental health facilities
are absent in schools and in the homes of pupilo.

The empiness on the assumptions cannot be ignored.

It is from assumptions that tentative conclusions will

be sorted out. One research worker wrote that many

torchors have a hazy notion about the epidemiology of

gastrointestinal infection and are therefore unaware of

the dangero of indiscriminate detrecation and lack of

hand making facilities, or if they are aware they lack

the inegination and initiative to improve the situation.

It is from such expressions that objectives of the otudy

crise, and also from the same expressions that the

assumptions are formulated.

<sup>2.</sup> Owan, J.B.: The role of Health Education in School in Providing Environmental Sanitation. Journal of the Society of Houlth, vol. II, No. 2, (July 1967).

#### CHAPTER POUR

#### 4.1 FINDINGS AND ANALYSIS

The discussions and cusstionnairs revealed that many torchers live outside the studied area. Hany of thom live in the bottor, planned are of the city, in area lying between the crowded unplanted tr ditional part of the eity and the reserved government area. There are quito a number of reasons put forward by teachers why they have chosen to stay outside the Inner-core erec. Emvironmental sanitation in the Inner-core is very bad. The comfort stations which were intended to serve the residents of S.V. and S.W.5 have not been opened yet by the responsible cuthorities. The slume of the Innorcord are considered unfit for teachers. The streams and cutters in the are are full of night soil. There is absence of community organisation and vory rerely do inhabitante make offerts to clean up the blocked gutters and the ontire compound. From observation, people in the

Inner-core are used to 'dirt' and they resist any 'hochth netion' oriented towards the improvement of their compounds. At present the membership of the newly formed hochth committee has already started to dwindle. There is a tendency for the Inner-core community not to cooperate with the tenchers. Instead of taking care of the schools they intrude and moss up all the school promises.

#### 4.2 Heter Supply:

obtained: One of the Princry Schools. Christ Cospel
Day has no private water connection and no storego
facility is provided by the school. The remaining four
Princry Schools have private top points but inadequate
water-pots to store water. Nater in these four Princry
Schools is not constant because tap points are often
without water during most hours of each day. Pupils
were observed tracking long dictances to areas where
water was still running in public water points. In two
schools where tap points exist, pupils were seen struggling
to wash their hands, faces, foot, plates and outlerise.

courago pupilo from misucing the tap points. At Christ Gospel teachers are not know enough to involve the P.T.A. to provide a school tap. There are also no efforts being made by teachers to remind and encourage pupils to fill the existing wash hand begins and other water pote with water when school taps are still running. In most cases such receptables are empty, and no water for pupile to drink and for their percental hydrone. The lack of proper meintenance of tap points was also noted. The delays in repairs to damaged taps posses a big problem to schools. Taps in two schools were aften locked by the school authorities and were not accessible to pupils during the time of mood.

The ore ticel discussions with teachers centered mainly on incoquate attr supply. The situation became serious if a school tra brike down.

practices the author found it necessary to see the teachers' feelings and believe on that could be done then a ochool tap broke down. Table 4:1 reveals the different thoughts from teachers.

#### TABLE 4:1 ( uestion 11)

## DISTRIBUTION OF RESPONDENTS TO THAT CAN BE DONE WHEN A TATER-TAP BREAKS DOWN I A SCHOOL

	The same	hama				
thod or cti n to	To chers with lie lith Education		Untroin d Tanchers		Total	
	No.	%	iio.	7-3	llo.	%
Call the	49	32.24	9	33.35	58	32.40
Ministry  Education to get a Contract a	14	9.21		3.71	15	8.38
P.T. to	88	57.89	17	62.96	1 05	58.66
Leave to the Health Income to		.66		-	1	.56
Other (specify)	2-	-	-	•	-	#
Total	152	100	2.7	100	179	100

#### TABLE 4:2

Verisblos	Took correct action	Took wrong retion	Total
Trained Tonchers with Hanlth Education	68	64	152
Untrained To chors	17	10	27
Totrl	105	74	179

Degrae of freedom = (2-1) (2-1) = 1

2 = 0.242 P > 0.05

the teachers had a fooling that it is the duty of the P.T.A. to solve the problem when a vector tap breaks down in a school. This information was confirmed by the Ministry of Education. 41.34% of the teachers had different responses which were not favourable in bringing about the solution of the problem. The responses indicated that some teachers had an idea of how to solve the problem while others had mixed ideas. From the above information attitudes are influenced by the knowledge which the teachers possess.

The x<sup>2</sup> tost reveals that there is no difference between the two types of toschors - trained and untrained to the correct action when a school trp breaks down.

Both are able to take up a correct action irrespect of their background. The decision to take are not to take a positive action is determined by the totchers' knowledge which influences the attitudes to that particular problem.

#### TABLE 4:3 ( uostion 14)

## DISTRIBUTION OF RESPONDENTS OF THE NEW POR

Rensono	To c 11 II n Educ	tli	Unt	ined here	To	tnl
	Her.	55	No.		No.	%
the processor of the pr	94	61.84	Q <sub>7</sub>	62.96	111	62.01
rnd no new need, there rr to pa	58	3B.16	10	37.04	68	37.99
Othor	CŌ	-	-	-	-	-
Total	152		27		179	

#### TILLE 4:4

V ri blos	Know the need for st ring wat r	Do not stony	Total
	No.	lio.	illo.
Trained To chers with No lth Lduc ti n	94	58	152
Untrained To Chera	20	10	27
Totel	1/111	68	179

D.f. = (2-1)(2-1)=1 $2^2 = .01215$  P > 0.05

#### TILLE 4:4

Yrinblos	Know the need for storing	Do not	Total
	но.	30.	No.
Trained To chere wit. He lth	94	58	152
Untrained To chers		10	27
rotel	111	68	179

D.f. (2-1)(2-1)=12 - .01215 P>0.05 of tonohers out of 179 saw that there was a need to unsure the presence of unter for use by both pupils and torchers in classrooms. However, 37.99% of teachers out of 179 fuel that there is no money and no need for water storage facilities. The responses of the 37.99% of the torchers indicate a negative attitude to the provision of water storage facilities. This is a bad attitude in that when the water taps dry pupils and teachers have no water to use in school.

The x<sup>2</sup> (table 4.4) malysis indicates that there is no significant denociation in being able to see the nood for actor storage facilities in classrooms between the two types of teachers being compared. Both trained and unterined are able to react squally, favourably and unfavourably towards the problem.

Discussions with the tonchors on the stated need revealed that tenchers are not receiving the desired help from the community to provide actor storage facilities to schools. Is of now, there are very few classrooms with teach basins.

#### TABLE 4:5 (Question 15)

### DIGITAL DUPON O RESPONDING TO PROBLEMS CONCERNING FATHER SUPPLY IT SCHOOLS

Renaons	Teach with H	Trained Teachers with Health Education		Untrained Teachers		Total	
	No.	%	No.		No.	75	
Taps ere inadequate and thoy often run dry	111	73.03	16	59.26	127	70.95	
The school had no water tap of its own	-	4	10	37.03	10	5.59	
The tap is not running	25	16.45	1	3.71	26	14.52	
Other (specify)	76.	10.52	0	-	16	8.94	
Total	152	1.00	27	100	179	100	

#### TIBLE 4:6

Veriables	Able to detect water problems	Took it easy about the problem	Total
	Ro.	lfo./	No.
Trained Teachers w'th Tealth Lduc tion	111	741	152
Untrained Telebers	16	11	27
Total	127,	52	179

3.2. = 
$$(2-1)(2-1) = 1$$
  
 $= 2.947$  P=0.05

The seriousness of water problems can be expressed well by teachers who spend long hours in schools. From the table 4:5 it can be observed that 70.95 of 179 teachers have a feeling that taps are inadequate in schools and they often run dry of water. In Christ Cospel Day School the school has no tap of its own.

(5.9% of the teachers have indicated this). However, in all responses the teachers express a serious shortage of water in schools. Despite their knowledge of the essentials of water to schools there were no meetings concerning water improvement which the author witnessed during his study in schools.

From the x<sup>2</sup> table 4:6 it can be observed that there is no association between the two variables being compared. Problems which were observed include:-publis had no water to wash their hands after visiting the latrines, they had no water to wash their hands before meals and no water to clean the floors of latrines. In some cases head tenchers locked the water tops and pupils had no access to water for drinking.

In this case trained teachers cannot detect water problems and are not able to know that water to a school is assential for social development. As indicated in table 4:5 70.95% of 179 teachers see that tape are inadequate but make no efforts to solve the problem. Observations and interviews revealed that teachers bring water for drinking from their schools because they think water evailable in their schools because they think water in the Inner-core is not pure due to leaking pipes which can lead to the pollution of pipe water.

#### LIBROS LL

#### 4.5 Latrines:

The author observed that all the studied Primary chools use pit latrings. Two school latrings at inser-Us-Deen and Abiols Jacobs primary schools regain about half (7) water usen to fill up. They have become breeding places for houseflies. Ply lerves could be seen crawling on the floors of these latrings. In latrings where few orifice covers exist for example at peventh boy Adventist, Baoks Memorial and Abiola Jacobs

primary ochools they are not being used proporly. This encourages the ingress of flies into latring holes. It was also obo rvod that four latrine compartaints at Seventh Day Adventist and Backu Memorial Schools were scaled completely. There were no wash hand basine for both teachers and pupils to wash their hands after visiting the latrines. In ell the five primary schools latringe were inadeque to and poorly maintained. These latrines are of poor construction and of bad design in that there are two pit holoo in one latring compartment. The observations revealed that there was not a single school which had a safe and clean latring. During each vioit to achools, faccus and wasto papers were found all over the letrine floors. Pupilo were soon defeccating on papers which later got thrown into the latrice or fore eithor laft on the latrice floors. From discussions with the teachero, they get like thio because they do not use latringo in their homes.

Uringle too are either inadequate or absent. In three schools where uringle exist they are of bad dosign. Such uringle are just open sholters of corrugated iron

sheets. These urinels are stinking. Usually a quarter (4) of the class was seen urinating outside the urinels, outside la trines, on refuse heaps, outside the school promisos and into gutters. From observations it would appear that such bad practices by pupils at school are also being practised at their homes.

The interviews/discussion with the teachers at Abiola Jacobs and Ansar-Ud-Doon schools revealed that the teachers were not making any offerts to propers any new latrines to replace the two ones which are just about to fill up. Some latrines are about to collapse and so have been scaled up. Discussions with tenchors also revealed that the schools had no wash-hand basins placed near latrines. Teachers tace a lot of difficulties to notivate the pupils to use latrines especially those in princry one. The author's community diagnosis found this to be true.

There are little efforto which are being made to organize the P.T.A. to put up additional latrines.

Teachers complained of the insanitary behaviour of the residents who live around econols that after schools hours they invade the premises of schools.

## TABLE 4:7 (Quostion 20)

# DISTRIBUTION OF RESPONDENTS TO THE MEASURES TO BE

Received to take	Trai Tone with B duce	here lonlth		nined	To	tal
	Jo.	C	llo	12	Ro.	*
Call. the Health Inspector	60	39.47	S S S	40.74	71	39.65
Inform the Kinistry of Education	17	11.18	2	7.41	119	10.62
Stop using the latring wer is i about true to fill up. Open latr for use.	73	48.03	13	48.15	86	48.04
Other (specify)	2	1.32	S	3.70	3	1.68
total	152	160	21	100	179	1170

## TABLE 4:8

Variables	Took a Correct Action	Tool: wrong Action/	Total	
	No.	No.	No.	
Trained Teachers with Hoelth Education	73	79	152	
Untrained Teachers	15	14	27	
Total	86	95	179	

D.f. = 
$$(2-1)(2-1) = 1$$

#### TLBLE 4:9 (Question 24)

# DISTRIBUTION OF RESPONDANTS TO METHODS OF HOW

Method	Trained Teachers with Health Education		Untrained Togebore		Total	
	No.	\$	Ho.	*	No.	%
From Govern- ment Funds	15	9.87	(2)	7.41	17	9.49
A class teacher who is health conscious can organics pupils to raiso monoy for wash-hand besins	47	30,92	8	29.63	55	<b>30.73</b>
No way to obtain brains	1	. 66	1	3.70	2	1.12
P.T.A. should solve the matter	81	53.29	16	59.29	97	54.19
Other (apocify)	В	5.26	0	0	8	4.47
Potal	152	100	27	100	179	100

From the table 4:7 it can be observed that the majority of the teachers, 51.6% out of 179 are not aware of the dangers of a latrice which is about to fill up. Such a latrice becomes a breeding ground for house flies and other vectors of disease can have access to it. The smell from such latrices drives pupils away. In all, such kind of latrices become a health hazard. Only 48.04% of teachers knew that at about ? metre to fill up a latrice should be sealed up and a new one should be opened up for use.

From the x<sup>2</sup> table 4:8 it can be observed that there is no association between the two variables being compared. Discussions with the teachers revealed that many of them had a hazy notion of the dangers of such a latrine to man. Those who knew were not willing to take a lead in solving the problem. It is wrong for teachers to wait for advise because a latrine which is about to fill up is likely to constitute a health bazard. Teachers are expected to take up actions and open a now latrine for use.

#### TABLE 4:10

Verinbles	Taka Correct Action	Teke /rong /ction	Total	
	No.	No.	210.	
Trained Terchers ith Health Education	81	N.	152	
Untrai nod Teachers	16	11	27	
Total.	97//	82	179	

D.f. (2-1)(2-1)=1

 $x^2 = 0.3301 \quad P > 0.05$ 

From the table 4:9 it can be observed that 54.19% of teachers out of 179 thought of involving the P.T.i. Even if tocohers know this procedure, observations and discussions with the teachers reverled that wall hard besire in schools wer of ther inadequate or totally Thors was not a single latrino which was Che Rait provided with wash hand basins for its users. 45.81% of the respondents had mixed feelings on how to obtain wesh hand basins. The normal procedure as revealed by the injetry of scucation and teachers, is to involve The P.T.L. in this exercise. The respondes further i diente that there is dofinito agency which can clai to b a sol providor of wash hand being to schools. Charitable organizations, if they have funds can help to solve the problez.

types of teschars being compared have similar social that the tre unfavourable. Their attitudes hinder that from making individual of orts to obtain wash hand than for mencels. The teachers with correct knowledge are then not put they what they know into practice and an allie of teachers have unfavourable attitudes because Both types of teachers have unfavourable attitudes because not if they know that to do they have not taken a correct of they know that they have not taken a correct of they know that to do they have not taken a correct of they know that to do they have not taken a correct of they know that to do they have not taken a correct of they know that to do they have not taken a correct of they know that to do they have not taken a correct of they know that to do they have not taken a correct of the correct of they know that to do they have not taken a correct of the c

## T/BLE 4:11 (Question 22)

# DISTRIBUTION OF RESPONDENTS PRICTICES OF WHO

	Trained Teachers With Horlth Education		Untrined Tocchers		Total	
	No.	%	No.	- Fp .	No.	*
Pupils undor punishment	-	-		<b>V</b> -	-	
Pupils from a noisy class	-	-	Y	140	-	na.
Pupils under Tonchers' sup Trision	60	39.47	13	48.15	73	40.78
Pupils under group leader responsible for that week	90	59.21	12	51.85	104	58.10
Othor (specify)	(2)	1.32	-	-	-	-
Total	152	100	27	100	179	100

## TABLE 4:12

	Pupila ho aro involved to keep the lat- rimoscl an	Pupils under Torchers super-vision	Total	
	llo.	No.	No.	
Trid d Teach re with Euc tion	90	62	152	
Intrained	14	13	27	
Total.	104	75	179	

D.f. (2-1) (2-1) = 1

x2 = 0.5097 P>0.05

time the author visited the schools.

of 179 tenchers stated that the normal practice of claring latrines in schools is by a roster system by pupils of a class under o group lander. This method is good for practical education purposes and to train pupils the role of landorship. However, although the above responses are favourable, teachers do not do what they are supposed to do.

The responses indicate that although teachers have an idea of who should keep the school latrines of the latrines in schools are always filthy.

From the x2 table 4:12, it was revealed that there is no association between the trained and untrained teachers. Both sots of teachers share the same social attitudes and practices. These group feelings do not allow individual teachers to act positively and correct the filthy conditions of school latrines. Cleaning school latrines under teacher's supervision has certain disadvantages i.e. pupils may not clean the latrine when the teacher

pupils initiative to clean the latrine when they want and how they want to clean it. Locdornhip training is also out. Mowever, the teacher must set a first example and leter encourage pupils to carry it out satisfactorily on conviction that there is nothing more dangerous than a poorly maintained latrine. Thus the 41.90% of the teachers who opted for the teacher's supervision should be allerted of such consequences

#### 4.4 Refuse Disposel

During the field study the enther observed that the method of refuse disposed in all five Primary Schools was below standard. All schools had neither incinerators, controlled tipping, compositing nor dust bins. However, each of these schools had an incinerator before, but when such incinerators broke down, efforts were not made by teachers to restore them. Refuse is being dumped indiscriminately on old sites of incinerators and burning revely takes place. Christ Gospel Day School and Abiola Jacobs School throw their refuse into Gospe and Oganpa streams respectively. Demostic animals such as sorts,

shoup and pigs wore such frequenting the dumping mitem of schools. In all, refuse in schools is notiner properly stored nor properly disposed of.

During the interview/discussions with the Maste Disposal Officials they revealed that roftes from schools can be collected provided the concurred headmenters/ mistresses of such schools make written applications to the Ministry of Jorka and Housing. The charge is only Mi. 00 per dust bin in a month. Tenchers also confirmed that information, but they baye not as yet ands any applications requesting for the services of the roftest collecting crows. Discussions also revealed that teachers have not organized their P.T...'s for the restoring of school incinerators. They also confirmed that they had no dust bins for use in schools.

mehools will be collected unless trachers make contrate with the west disposal office. The meintenance of school grounds had become difficult because of large expolesions. Children who attend afternoon classes come very worly to school and remain outside unattended. As

there is no tomeher to superviso them they tend to be very careloss and throw rubbish indiscriminately. There is therefore such time spent in tiding up the classrooms and school rounds before the auternoon classes resume. The complaint by teachers on the lack of refuse depots close to their schools was also noted.

TABLE 4:13 ( ucstion 26)

DISTRIBUTION OF RESPONDING ATTURNS ON HOW . SCHOOL CAN OBT THE DUST BIRS

Channels to uso	Trained Tenchers with Health Education		Untr ined Techora		Total	
	No.	%	lia	%	No.	*
Seek Ministry of Health su port	11	7.24	1	3.70	12	6.70
No need for dust bins	S	2.64	1	3.70	5	2.79
Auk inistry of Laucation	/31	20.39	11	40.75	42	23.46
P.T can solve the problem	103	67.76	14	51.85	117	65.37
Other (Specify)	3	1.97	-	-	3	1.68
Total	152	100	27	100	179	100

#### TABLE 4:14

	Know the action to take	Do not lines the action	Total
	No.	No.	No.
Train d Toachera with Hoalth Education	103	49/	152
Untrained Toachura	14	13	27
Totel	117//	62	179

D.1. (2-1)(2-1)=1

x<sup>2</sup> = 2.5646 P >0.05

of 179 touch is know that the F.I.A., whose well contacted and notivated can provide dust bins. However, even if the percentage of the teachers who know what to do is great, not much is being done by them at present to obtain dust bins for schools.

rurther observation and discussions indicate that teachers have unfavourable attitudes to obtain dust bins, and those attitudes have led to the accumulation of refuse in schools. Even if some teachers are aware of the dangers of refuse i.e. that refuse attracts flies and releast, that it harbours germs, and that it can cruse serious fires, they do not not positively to remove it from schools. In all, theoretical knowledge, learnt in classrooms is quickly lost when pupils do not put it into practical use. From the table 34.64% of 179 teachers have mixed feeling on how a school can obtain dust bins.

The x2 table 4:14 indicates that whether or not a teacher had been trained in health education does not help him or her to know how to obtain that bins for use in schools. The hordmosters of the studied echools were among the tschers who sew the problems but failed to exert favourable influence to every the problems. Even though a majority of teachers say that dust bins are very important for sanitary refuse disposal in schools, observation had revealed that the teachers had not taken steps to provide dust bins.

Dust bins have not been provided in schools, because teachers have been handle pped by the poor encouragement from the Ministries of Monlth and Liquetion officials.

#### TABLE 4:15 (Question 28)

# DISTRIBUTION OF RESPONDERTS' ON WHAT AGENCY TO INVOLVE WHEN ERECTING SCHOOL INCIDER TORS

and the same of th						
Name of	Trained Teachers with Hoolth Education Untrained Teachers		chers Howlith Untrained		1	
	No.	75	No.	प्र ।	No.	名
Ministry of Health + Maste Dis- posrl Office	18	11.84	200	11.11	21	11.75
Ministry of Health and Waste Dis- posal Office	11	7.24	3	11.11	1.4	7.82
Ministry of Blue: tion	13	8.55	3	11.11	16	8.94
Head teacher/ mistress to apply to ini try of Health and mate Dispo-	(C) (10)	72.37	17	62.96	127	70.95
Other (apicify)	-	-	1	3.71	1	.56
Total	152	100	27	100	179	100

## T.BL3 4:16

	Know how Inciner tors can be restored	Don't	Totel
	No.	Ro.	No.
Trained Templers with Replith Iduoction	110	1/2	152
Untrained Teachers	17	10	27
Total	127	52	179

D.f. (2-1)(2-1)=1

2 0.984 P> 0.05

The absence of incinerators in all the five primary achools was noted. Other waste disposal methods such as controlled tipping and composting were not being practised. From table 4:15 it can be observed that 70.95% of 179 teachers know the practical measure they could adopt to have incinerators restored. The head-masters/headmistresses are required to make applications for the technical advice from the Ministry of Health and the Weste Disposal office. Through the participation of the P.T.A. of each school, school incinerators can be restored.

and untrained teachers have, they have not practically made any attempt to solve this existing problem. During the discussions, some alternative methods to replace incinerators were brought up. The pupils can dig some pits and make compositing or carry out controlled tipping. This is more economical and pupils can learn to value their labour. Later they can get a good school gerden in that area.

The two x2 table 4:16, it is reverled that teachers with health education learnt from Teacher Teathing; colleges have better ideas than untrained teachers on the procedure to adopt in order to get inciterators restored. In addition to this, discussions revealed that most of the trained teachers knew that refuse which accumulates is dangerous, that refuse can cause serious fires and cause extensive dangerous to the school. Also these teachers knew of the methods of compositing and controlled tipping but the present school sites are small and there is no roce for precising those refuse disposal methods in schools.

#### TABLE 4:17 (Question 30)

# DISTRIBUTION OF RESPONDENTS! ATTITUDES ON THE

AUL TOY/	Toaci with H	Trained Toach fors with Health Education To cherm Total				
	No.	76	No.	1 5	No.	秀
Westo Disposal Office	8	5.26	A	3.71	9	5.02
Ninistry of Harlth + Icata Dis- postal Office	118	77.63	24	88.89	142	79.33
Only Miri- stry of Education	24	15.79	1	3.70	25	13.97
Other (specify)	2	1.32	1	3.70	3	1.68
Tetal	152	100	27	100	179	100

## TABLE 1:18

Variables	Know tho Agency to involve	Don't know home to involve	Total.
	No.	ilo.	No.
Trained Teachers with Health Education	118	34	152
Untr in d Teacher	24	3	27
Total	42	37	179

0.1. (2-1) (2-1) = 1 2 = 1.774 P> 0.05

Observations and discussions with to cohors revealed that the schools covered in the study are quite for from public refuse depots. From table 4:17 it can be observed that 79.33% of 179 teachers know that the responsible agencies to involve are the Ministry of Health and the laste Disposal Office. Despite this knowledge pessessed by a majority of teachers, they have not pade any attempts to the agencies to have depots sited close to schools. The agencies confirmed this to the author. However, the agencies have also not taken up any initiative to see to it that schools are provided with convenient recognized refuse depots. These agencies rarely inspect the schools.

In this case no proper practical hoalth education on refuse disposal can be imparted to pupils who practise indiscriminate. dumping of refuse in their schools. The pupils take it for granted that indiscriminate dumping of refuse is telerated and so it should be continued.

Tree toble 4:18 further analysis has shown that mother a teacher was trained in health education or not less not with the respond favourably or uninvourably.

In such cases, teachers respond in conformity with the falling held by the group to which they belong as members.

#### 4.5 Mid-dry Henl:

The nuther observed that all the five schools have
no separate buildings for the sid-day meal. Pupils vero
observed always taking their meals anywhere within the
school precises. Food vendors cell this food either in
the classrooms, in classroom verendeds or in the open
field. The recommended comes are protein intensive but
verdors tend to sell very little to each child in order
to make more profit. Touchers who have been casigned
to this programs inspect the food just by looking at the
food and testing little of it. The dishes which
Takkers use if pringing the food and their for an evers
in large disty. It is habit for unsutherised vendors
to crowd round the schoole and sell their unimproted

Pron the interview/discussions with the teachers the cuther found that although the teachers know the importance of medical examination for food vendors, they do not encourage them to go for this kind of medical examination. Vendors themselves confirmed this information. It was discovered that most of the registered and authorised food vendors had had no medical examination for the past three years or so.

Discussions also revealed that a amjority of tenchors are not thinking of improving the method of bringing food to schools by food vendors. They do not know the sanitary conditions at the homes of food venders and the way meals are being prepared. From interviews, majority of tenchers said that they had no time to visit food vendor's premises.

practices towards mid-day coul, it is pours that teachers are not award that contamination of food can occur has to inscribery handling of food. They hinted strongly that it was the duty of the Health Inspectors to carry out Portoble sanitary inspections of vondor's premises.

po Health offices confirmed that food vendors are not being visited but they cons under the job description of both the terohor and health inspector.

School mid-day meals are being onjoyed by all pupils in primary schools although the nothed of bringing food to schools by food vendors is not entisfactory. Then teachers were asked how they fult about the present system of bringing food to schools many of them opted for the present method. It was surprising to the author because he thought that all trained to chors would opt for a better method to replace the present method which the author considers to be unsatisfactory.

# T:BLE 4:19 (Quostion 31)

DISTRIBUTIO" OF RESPONDENTS: LATERIDE ON SELECTIONS OF SELECTIONS

	Trained Teachers with Houlth Education		Untraned Torchers		Potal	
	Bc.	74	No		lio.	5,
the process aethod is good	73	48.03	20	Also being	8.7	47.48
t bo o t the limistries of He lth not luce - ten for a standarding of the limination	55	36.18	13	48.15	63	37.99
Other (specify)	12-	15.79	2	7.61	26	16.53
T tol	152	100	27	100	179	100

## TABLE 4:20

	Call for now safe containors	See no no nood for improvement	Total
	No.	No.	No.
Trained Te chors with Heelth Education	55	97	152
Untrained Teachers	13	1.4	27
Total	68	113	179

D.f. (2-1) (2-1) = 1

= 1.4192 P >0.05

Table 4:19 reveals that only 37.99% of 179 teachers less that the present system of bringing food to schools was not safe. They have demonstrated this by suggesting to approach the Ministries of Heelth and Education so that a standardized container for use by food vendors could be recommended. Due to the fact that those few teachers are working against the 62.01% of the teachers who see no need for improvement, there are no efforts being used at present to improve the school seal.

From table 4:20 further analysis rovoal that thero is no association at all betwoon the two variables being compared. In this case health education which teachers logant from colleges is not put into practical use.

Discussions revolled that teachers have no knowledge of a good method to adopt and so they see no need to aspire for another sethod.

#### TABLE 4:21 (Quostion 33)

# DISTRIBUTION OF RESPONDENTS' PRACTICES BOUT

Lnawora	Trained Tocchers with Health Education		Untruned Tonchers		Total	
	No.	76	No.	5	No.	76
Tos, at the linistry of Health (Jericho)	42	27.63	No O	22.22	48	26,81
No proof but vendors clain that they had it	33	21.71	2	7.41	35	19.56
Hamlth Ins- pactors should sook of such a proof	37	24.34	11	C.74	48	26.31
Hons for the Enjority in 1978	,10	26.32	7	25.93	47	26.26
Other (specify)	-	-	1	3.70	1	.56
Total	152	100	27	100	179	100

## TABLE 4:22

Varioles	They solled for written proofs	Used very ineffective mothods	Total	
	No.	No.	No.	
Trained Teachers with Health 2ducation	40	112	152	
Untrained Tocchers	7	20	27	
Totel.	47	132	27	

D.f. (2-1)(2-1) = 1

Discussions with teachers revocaled that modical examination is essential to screen out these who might be carriers of diseases such as Tuberculosis. However, discussions with food vendors revocaled that teachers do not encourage or regimi vendors to undergo medical examination. A written proof is a good evidence to show that a vendor was acdically examined in 1978.

However, from table 4:21 only 26.26% of 179 teachers sincerely revealed that compority of food vendors were not madically examined in 1978. This information was verified by the author. A systematic scrutiny of all vendors' modical records was carried out including some visits to Joricho Chest Clinic where vendors claim to be having their routine medical examinations.

Prop table 4:22 a further enalysis to tost the association between trained and untrained teachers revelue that trained teachers do not put what they know into practice.

112 of 152 trained teachers are not keen enough to find the truth of whether their school vendors are redicill,

exemined. They forget that it is the duty of the teacher to safeguard the harlth of the pupils in school. From the table therefore there is no significant association between the trained and untrained teachers. If a teacher soos no value or does not understand the need for medical examination he is very unlikely to encourage the food vandors to so for it.

TABLE 4:23 (Question 36)

DISTRIBUTION OF RESPONDENTS OF RELLTH INSPECTORS

	Trained Toach re with Health Education		Untrained Toachors		Total	
	No.	5,3	Ho.	%	No.	5
Perchers  Health Ins-  pectors ohould  visit food  vorders	77	50.66	14	51.85	91	50.84
Only tho Health Importors	58	38.16	5	18.32	63	35.19
Only tho Toucher	17	11.18	8	29763	25	13.97
Othor (specify)	-	1 2	~	-	-	-
Zotal	152	100	27	100	179	100

## TABLE 4:24

Variables	Know who should visit food vendorn	Don't know the right parson or parsons	Total
	No.	No.	No.
Train d Tachers with Health Education	77	75	152
Untrained T Te chors	14	13	27
Total	91	88	179

D.f. (2-1) (2-1) = 1

= .0129 P> 0.05

Discussions with the Ministrice of Hoolth and Education officials revealed that both the teacher and Realth Inspectors have a right to visit the homes of fool venturs. From this table 4:23 however, 50.84% of 1/9 teachers know that both officers in the question are required to visit vendors in their precises. 49.16% of the root of the teachers had bized feelings to this question. Nevertheless, the survey carried out by the author concluded that there were no practical efforts by both officers concerned to visit vendors in their respective homes.

The x2 test roveals that there is no difference between the two types of teachers trained and untrained then it comes to knowing the officer who should visit the food vendors.

However, tocchors who had favourable ettitudes of tressed that there was a need to visit food vendors and elvise them continuously on a thods of food hygieno (preparation and brindling of food). Food vendors too need to be clorted of any eviations from standards i.e.

insanitary conditions can load to the contamination of

### 4.6 Buildings

before lessons began. Classrooms blocks in all five schools are quite old and worn out. One classrooms at insar-Ud-Deen School which became dyngerous to occupants was abandoned. The only sound buildings observed are the storey buildings which accomposate the classrooms at thrist Gospal and two single building with two classrooms.

At Seventh Day Adventist School there or three U.P.E.

blocks with four classrooms and an office to each Classroom.

Still noused in temporary shelters e.g. at Backu Memorial and Abiola Jacobs school. Observations and discussions with teachers revenled that many classrooms are defective.

Lighting and ventilation in classrooms were adequate as long as classroom windows remains open.

During the interview/discussion teachers eleised that seas windows had to remain shut for various reasons.

- 1. To out the nwful ancil coping from the gutters and the faces which neighbouring houses throw indiscriminately.
- 2. To keep off the flies.

  The dound for school fonces is an urgest matter to all three schools which have no fonce.
  - property from any note of vandalism.
  - 2. To cut off cny instructory practices caused by a ighbouring residente.
  - yendors from solling uninspected ood to school children in the school primises.
  - composing with illegal vonders.

## TABLE 4:25 (Question 39)

# DISTRIBUTION OF RESPONDENTS! L.TTITUDES TO

Rosponses	Trninod Tonchors with Herlth Education		Untrained Teachers		Totr.l.	
	No.	%	No.	1/3	Ro.	4.
iot yet until tho school oxpands	3	1.97	10		3	1.68
Vory osson- tial to cut interforences	130	86.53	23	86.19	153	85.47
To cut illegal vendore	19	12.50	3	11.11	22	12.29
Other (specify)	-/	-	1	3.70	1	.56
Total	152	100	27	100	179	100

### TABLE 4:26

Veriebles	Seo the need for a fence	goo no need for p conco	Total
	Ho,	no.	Ho.
Trainod Teachors with Hoelth Education	130	SS	152
Untrained Torchers	23	4	27
Total.	153	26	179

From the table 4:25 it can be observed that 85.47% of 179 teachers know that the fonce is essential to provent intruders. Discussions with the teachers revealed that the school premises are at present being interferred with by the surrounding residents who often come to dump their refuse in the school compound. Desertio enimals have also been found wandering in school grounds especially on dumping sites.

From table 4:26 it is revealed that there is no significant association between the trained and untrained teachers in knowing the need for a fence. All two types of teachers know the value of a fence to a school.

Further discussion with teachers revealed that it is not easy to get a school fence because the P.T.A.'s do not value a fence much despite several times schools have been broken into.

### TABLE 4:41 (Question 40)

# CAN CALL TO CARRY OUT THE RECESSARY REPAIRS AT A SCHOOL

Agonay to do the job	Trained Terohers with Hoolth Education		Untrained Teachers		Total	
	No.	%	No.	5	No.	S.
The contractor who built the school	14	9.21	24	3.70	15	8.38
Miniatry of Works and Housing	-		3	11.11	3	1.60
P.T.L. 3chool look for a contractor	138	90.79	23	85.19	1 61	89.94
Othor (specify)	(S)	-	-	-	=	-
Total	152	100	27	100	179	100

### TABLE 4:28

Variables	Rnos the action to take	Don't know the right action	Tot'l	
	No.	No.	No.	
Trained Tonchers with Health Education	138	14	152	
Untrained Tanchers	23	4	27	
Total	161	18	179	

become dumping places for defective furniture. Property to describe the first transfer of the p.T... Discussions with the technical revocated that the government is at present encouraging solf help activities in schools for the repair of any defective school property.

types of to chors being compared have the same attitudes as regards the repairing of defective school furniture.

The table shows that 90.79% of the trained and 85.19% of the untrained were in favour of involving the P.T.A. to look for a contractor to repair the school furniture.

Prom the numlysis above it appears that teachers with health education work during teacher training are not effective in putting into practice what they know about health and disease. For exemple they know the importance of orifice covers but they do not make any attempt to get more covers or to see to it that the existing covers are well maintained and put into correct use.

In case of children's practices it would appear that they are very much influenced by their hame environment. Environmental Health facilities in the Inner-core are very inadequate and children do not see it bad to practice insenitary methods of wasta disposal. As observed by the author, pupils have bad practices towards personal hygiene. However, non-availability of finance to provide health facilities in the schools and communities may be a major contributing factor to those insanitary practices.

Also the failure by teachers to put their health knowledge into practicel use as regards the provision, use and maintenance of environmental health facilities in schools should not be ignored.

#### CHAPTER PIVE

## 5.1 IMPLICATIONS FOR HEALTH ZOUG TION AND DIRCUSSIONS OF THE FINDINGS

From the analysis of the findings in Chapter Four it was observed that the gon ral attitudes of teachers are not frequentle to the provision, uses and proper usintonance of these facilities. This has been crused by many factors. The nest in rt nt of these is the fact that the teachers have not been proporly propored during their training to be retive in the general herlth aducation rathor than the physical espects of health lucation. Another frotor that affects the ttitues of the teachers is because the Ministries of He 1th and Blue tion have not been providing the services that ought to be real red on environmental health facilities. From the discussions which the cuthor had with the sonior ffici le of both Ministries, cs well as with the to chors, environmental health facilities have been left to be provided by Parents Terchors' Association (PTA) of schools.

It has been difficult to convince the parents to provide these facilities because the government had created the impression that primary education is free. The parents are therefore reluctant to provide environmental health facilities to the schools. Moreover, the parents of the pupils in the five schools live in an area where environmental health facilities do not exist so they do not regard the facilities as very escential to the schools. The teachers therefore experience difficulty in providing the facilities.

in many cases they are not expering and because of the large envolments in schools, it is very difficult for the papils to use them properly. Also the papile are very difficult to educate on the proper use and maintenance of the facilities because similar facilities do not exist in their hours. Therefore, the teachers tend to develop non-chal at attitudes towards the provision, maintenance and us of enveronmental health facilities in the schools.

The author's observations and discussions with the teachers reversed that water supply is inadocuate in all ochools. For this reason, it is very difficult to teach

pupils the practical espect of how to keep the school atrines cluen. The emphasis of washing hands after isiting the latrine is also made difficult. Pupils therefore have no chance to lower practically how to scrub the floors and crifice covers of pit latrines. In theory, pupils learn that dirty latrines encourage fly broading, and that they are potential sources of the spread of gords by flice. Discusses such as enteric fever, gastro-enteritie, Bacillary Dysontary and cholors can be spread by flice from such dirty latrines. Therefore, when water is not available for use in schools, practical instructions in health education such as the ones mentioned above cannot be carried out by pupils.

Since the teacher is employed to educate the pupils on better health behaviour he is supposed to motivate the Parents-Teachers' Association (P.T.A.) and the government so that adequate and constant supply of mater is provided for use in schools. However, at present teachers are not corrying out this important duty to make the P.T.A. aware of the problems of not having mater storage facilities and wash hand basins in schools. Those must be provided to enable the pupils to practise the medded health activities nontioned above. As of now, pupils are not strictly

drilled overyday to fill the containers provided with water so that it becomes their habit to do it.

Latrinos in achools are inadequate. Pupils were one red using other insanitary alternative nothods such as def ecating inside uringle, on the vicinity of school intrince and uring ting on duaping sites in the school grounds. This occured when the latrines were dirty. The tecchors rarely try to notivate the P.T.A. to anke then overe of the strited problems in schools. The tachers are not willing to contect the Ministry of Health for expert advice and for holp to put up additional git Intrines in schools. However, whom this help is not granted the terchers should drill the pupils by actions to maintain the existing latrines. This continuous exercise is a le ruing experience to pupils in that pupils learn to use existing latrines with care so that they are not easily seiled. In this case pupils loarn to value school latrines es their am and es part of their school environment.

where they defend to. Studies in the Innor-core of Ibadan revenled that there are no latrines and it is common to see people wring ting enjoh re clong the rende ides. The rupils have picked up this bad protice in schools taking

hetrines are provided. Then pupils are not drilled against bid practice both in class and during out-door activities they grow up with this bad practice.

Latrino whose floore are not reinfered can collapse on ally, cloo latrines which are bout to fill up have excusive bed edour. Pupils and teachers do not like to upo those kinds of latrinos. This is a barrier to he alth education because the worrs will and other incanit ry muthods. Pubils who do not learn how to use latrings effectively and how to mintoin them cannot develop good attitudes towards better senitation. The provision of edoque to latrinos for school provides lo ming experience to pupilo. The use of orifice covers is class a lumming experience & pupils learn practically, how to control fly broading and how to control the spre d of disease garms by flico. Pupilo will ensure that pit inlete are always covered when the latrine is not in us so that flies do not come into contact with exercta.

it as normal, they continue to do it even mon school

1: trings are provided. Then pupils are not drilled against
this bad practice both in class and during out-door
activities they grow up with this bad practice.

Latrines vivose flooro aro not reinforc d can coll Poo o sily, clas latrines which are bout to fill up h vo Levesive bed odour. Pupils and teacher do not like to us these kinds of latrings. This is a barrier to health luc tion because the users will and other ins nitary h ds. Pupils who do not learn how to us I trime offectively and how to mintain thon cannot develop good ttitudos towards bettor s ni tati n. The provision of adoquato latrinos for school providos learning experience to pupila. The use of orifice covers io also a laurning experience, pupils le ra procticully, hor to control fly brooding and how to control the spread of disease garas by flies. Pupils will ensure that pit inlets are always covered when the latrine is not in use, so that flies do not como into contact with oxereta.

Competition in schools among grades on how to maintain the environmental health facilities is an important health squention exercise. Pupils develop a sense of responsibility and appire to be the best in keeping such facilities claim. This is a good exercise for pupils and leads to permanent nebits and practices. However, this apportunity will continue to be hidden until teachers are made avere of the importance of practical activities to reinforce classroom instructions. Pupils are required to participate actively to enable them know how to overcome the existing problems in achools.

There are anny problems confronting the mid-day meel. Bating shelters in achools are not provided. There is no health knowledge imported when pupils take their meals mywhere outside the classrooms. Pupils do not learn the acceptable social behaviour when they are not encouraged to out orderly as a group and when teachers in not keen enough to supervise them then they are buying of ating their hid-day meal. There is no health knowledge imported when pupils have no water to wish their hands and board after mords. In order to make the mid-day meal educative, classrooms can be used for mid-day

while using classrooms pupils will learn how to wipe out dasks, olean classroom floors and wash their hands and bowls soon after meals.

Mid-day meals can be contamineted in the vendors' homes due to bad samitetion. Discussions with teachers revealed that they do not visit the homes of food vendors. to check on the hygienic preparation of food. From observations also teachers are not making any attempts to organize this school meal. Programme properly.

Lack of proper organization of the mid-day modes provides poor learning experience to young touchers and pupils. In schools where the medical examination of food vendors is not strictly adhered as in the studied echools, young teachers will learn to telerate it and will regard it as normal or not very essential practice. Such incorrect attitudes and practices of teachers each as vendors to the contamination of food by carriers such as vendors with typhoid. This is true at present because teachers with typhoid. This is true at present because teachers ere not vigilant on the medical check up exercise to seroon out carriers of disease.

Refuse has been allowed to accumulate in school premises. No practical health education to pupile can occur when Pupils are not practically involved in the removal of refuse from school grounds. Pupils need to learn that refuse is dangerous if it is allowed to accumulate. Decomposed refuse herboard germs and attracts flies. Dry refuse attracts rats. Mosquitoes can breed in discarded time which might hold water. At present, pupils are not given such chance by teachers to do practical work to remedy such situations.

The teaching of the dangers of overcrowding and of inadequate ventilation in classrooms is defeated when the enrolment in each class is over forty pupils and when windows of some classrooms remain shut during lessons. The teachers do not guard against such dangers by seeing that classrooms are not overcrowded, also teachers 'rarely drill the pupils to Paep windows open every day to allow adequate light and ventilation. When mapile are not given any chance to carry out practical health education, they eally become "health informed" and not "health educated". Also, health education breaks down when pupils in class learn that they cannot practice outside due to the inavailability of facilities.

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Pupils who are brought up under bad conditions such as in the studied schools are not likely to be healthy. Although the present syllabus "Family Health" (see appendix) is adequate, teachers revealed that they were not exposed to practical instructions in health education in colleges. They only covered physical education and the rest was theoretical, covering such areas as food, water, diseases and environmental hygiene. This therefore calls for the re-training of teachers in better approaches to health education in schools.

### 5.2 Conclusion

end untrained teachers share the same knowledge, attitudes and practices related to the use, provision and maintenance of environmental health facilities in schools. There are extain situations where trained teachers use their health education knowledge which they acquired from teacher Training Colleges. This information teacher the first assumption of this study which states that there is no difference between trained and untrained that there is no difference between trained and untrained

the use, provision and maintenance of environmental health facilities in schools. There is a new therefore to make teachers ewers of the importance of practical health education. The present syllabus Traily Health (see appendix) shows sufficient theoretical work but what remains is to metivate the teachers in Colleges and during Seminar/Norkshops to adopt outdoor activities for the solution of the existing problems in schools.

This will reinforce the theoretical knowledge being acquired by the pupils.

in all five schools are indepented health facilities in all five schools are indepented and read of very low at mark. Those facilities are poorly maintained by to chers and pupils, in addition to this the facilities are poorly maintained by to chers and pupils. The are no letrines in the Inner-core examinity of Ibalan and the refuse lies sel notheds which are being used at present are very unsatisfactory. Unter supply is not constant in this cros. In such situations rupils are at a disadvantage because they cannot attentions rupils are at a disadvantage because they cannot

put into practice what they learn inside the clasrooms when they are in thoir homes or whon they are outside their classrooms. The above statements confirm the second and the third assumptions of this study. The second assumptions states that, without proper use of sclocted environmental highth facilities in schools pupils do not grow to velue the use of proper samitation. The third assumption states that, the theoretical knowledge about health imparted to pupils according to the syllebus "Family Bealth" cannot be moaningful when onvironmental hogith facilities are absent in the achoels and in the homes of pupils. To improve the low standard of environmental health facilities in schools the following recommendations ere sucrestod.

- 5.3 Goneral Recommendation
- 1. Cerunities currounding the schools must be notivated to improve their environmental health facilities to enable pupils to use these facilities that at home, which are similar to the facilities that at home, which are similar to the facilities that

- The government should assist by providing the 2. essential basic requirements in all innur-oero schools of Ibadan o.g. adequate latrines and urinals, woll lighted and ventilated olcserooms, aufficient suitable desks and chnirs, ensure adequate supply of water for drinking and wash hand facilities. The government should also assist in the proper collection and disposal of refuse. Small size incinerators or improved refuse disposal dovices one be of great help. However, if the government is unable to provide all these facilities, the teachers should also make the paronts awaro of the oxisting probleme in schools and then motivate the parents to provide some of these facilities on self holp basis.
  - 3. It has been observed that some classrooms are coming up without the knowledge of the Ministry of Health and without the engineer's supervision. It is essential that all plans for new school buildings should be approved by the appropriate authority.

- The Ministrius of Health end Education should conduct seminar workshops during long vacation for teachers in health education to acquaint them with the skills needed to overcome the problems of environmental health facilities in schools. Loctures and practical demonstrations of such seminers must be given by experts in health education. The aim is to make health education a living subject in which deponstrutions and field work are important, for example collecting and burning of rofuso, washing plates nfter the mid-day meal, scrubbing latrine floors and many more practical activities. This will emblo the teachers to devolop suitable attitude to provision, use and maintenance of onvironmental health facilities in schools.
- rooms because of the tropical sun. It is essential that defective ceilings in schools get repaired and provide ceilings for other classrooms which don't possess them. This will safeguerd comfort and health of the pupils during het periods.

6. Pupils take their mid-day meal anywhere without teachers' supervision because there are no onting rooms provided for this purpose. It is essential that such rooms got provided to enable the pupils to enjoy their meals better. Classrooms can also be used for mid-day meal purposes.

### Rooommendations for Futuro Research

health knowledge, attitudes and practices of the parents and students to disease causation and prevention. This should also include a study of the facilities available at home which may encourage or hinder the prootice of healthful living. This is important in that the primary school child spends more time at home than at school and as such is more likely to be influenced by things found at home than at school. Therefore any health education programs to be effective in schools, it has to be supported by a similar programs at home.

L research to find out how much health oducation 2. givon to school ohildren filture to their homes and what are the offcots on its implication on the health behaviour of the parents and other members of the femily. In addition to this study, one would find out how much of hoal th oducation given to parents filters to children. This study would show where more omphasis should bo laid and to which group in the community. It may be possible to find out what parents would onsily accept, if told by their children rather than by an outsider and what children would roadily accept if it is from their parents rather than from teachors. A programme could be planned accordingly to maximize the resources ead impact.

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### APPENDIX A

PRIMARY SCHOOL SCLUTTO

1978 SCHOOL YRIR OFFILE

RE LIVE TELL CON

PREFLOR

### Practice in Health Education

The daily routine of the school should include PRICTICE in the rules of health. This should be kept separate from what is taught in CLASS LES OFS.

There should be a daily inspection of the children by the teacher, when head, face, tooth, hands, feet and clothes should be exemined.

order, and pupils trught how to use them properly.
The latrinus should be built in corner of the compound and should be well screened.

### APPENDIX A

PRINTRY SCHOOL SCLOOL

1978 SCHOOL YRER OTHER

MCTE FILLER

PREFLCE

### Practice in Hoslth Education

The daily routine of the school should include PRICTICE in the rales of health. This should be kept separate from what is tought in CK 33 L33 OFB.

There should be a daily inspection of the children by the teacher, when bead, face, teeth, hands, feet and clothes should be examined.

The latrines and wrinals must be kept alon and in good order, and pupils taught how to use them properly.

The latrines should be built in corner of the compound and should be well screened.

The children should be trught to wash their horas before and efter meals and rifter using the litriae. Bowls of drinking and washing water should be kept in the school. If possible a small wahstand should be provided for ecch class. i. "Boulth Shield" might be and awarded wach week to the cleanest class. shod with tables and bonches should by provided for mid-day monds. Long marrow tables with benches to match numbing the seme way as the building, give the most accommodation. Proper utensils should be provided and facilities for weshing them. Great care should be taken that the food provided is clean. Heals should be suporvised by tenchers who should teach the children good table manners and care of utensils. Practicos in knoping classrooms cleen and tidy. How to sweep the floor prush down wells, dust dosk and bonches.

that to do with rubbish collected. Senior pupilo to be in charge of cup-boards. Children to put away apparatus and tidy sent and desk before leaving school. Wasto paper backets to be kept and used. No paper or books on the floor.

Refuse from the compound should be placed in a pit near the vegetable garden.

Records should be kept of the nges, heights end weights of the children throughout the course.

Simple health charts and pictures should be displayed and used.

! first-mid box containing simple remedies should be kept in the school.

All the above activities should be carried out apart from class lessons.

The course who will wish to be clean and healthy in mind and clothes to cost clean and whosesome food, to live in clean and next surroundings, and to practice good manners and decent behaviour at home and in public.

# PRIMARY 1

FOOD - Kinds of food and drinks.

- Moral timos whon to out and what to out.
- Clera teeth to provent dentil secry.
- Usos of water Pure and impure sources.
- Clean and dirty water Imphasis on personal hygiene.
- Drinking only cleen water with purmal cup.

- sharp instruments, keeping playgrounds acfo.

  How to cross the road
- Disocass Dirt and germe, washing hands: why, when where, how etc.?

### Environmental hygiene:

- epace and playgrounds.
- Keeping animals out of rooms, vorthains, classrooms and school compounds, class furnitury.
- Dily inspection of school compound and invironment by the class teacher, also inspections of buildings and compounds practically by Public Health Personnel.

# PRINTRY II

- Ford Kinds of food and fruit. There to out, what to ust, how to out.
- contraintaion of water, storge of witer. We contraintaion of water with dirty hands. Was cups with handles. Prevent guines worm extients widding in streets which we sources of drinking water.

Dise wes - Tooth-Ache, Sore throat, Headaches, and Pever,
Ringworm, Scabios, Dierrhoen, Guinesworm.
Environmental hygiens:

Refuso Disposal, Clean houses and surroundings.

# PRINURY III

Pood - Beverague, soft drinke, Cooce products.

to turn off taps, bathing, urinating in strengs
that supply drinking water.

Discusce - Tooth-ache, measles, anallpor, sore throat, headache, maps, ringworms and scabies.

# burirons atal hygiens:

bedbugs, rate, mice, cockrechee, jiggers and other local posts. Bad effects of wrong disposal of refuse.

# PRIMARY IV

Food - Food hygiene, School meals. Esting houses.
Sheds. Balanced diet. Reasons for school
meals. Risks of hawked food.

Water - Sources of water. Dangers of water-borns discuses. Maintenance of wells and streams.

Diseases - Round worm. Tape worm. Thread worm. Hook worm. Guines worm. Coughs and colds.

Malaria. Headache. What to take. Bilbarsis.

Environmental hygiene:

- Sanitary facilities to include drains, toilets latrines, dust bins, buthrooms, Disposal of refuse with rushm. Methods of excreta disposal, throwing on the street, latrines, pits and water-closet.

### PRIMIRY V

- classification of food proteins, fats, sugar or starches, vitamins, minerals; Need for feed; Need for vegetable gardon and Truit. Food boliefs. Effects of bad feeding.
- filtering and storing. Visits to water works, misuse of water, wastages, economics of water.
- Diseases Dirty, germ, sprend of germs, cirborns Tuberculosis, water-borns - dysentery. Insect -

### Environmental hygiene:

Housing, to pes of house siting, overcrowding, vontilation, drainage, Red Cross. the de of and blind, Notherless home, loprosy r li

# PLIM RY VI

Food - Food values, Budgeting related to food values
in terms of honey and content. Proserving
cooked and uncooked food. Dangers of timed
food. There speilage is discovered report
to NOH or PH Inspectors.

Water supply in your locality.

Discrees - Verereal discrees, Leprosy, Montal health.
Environmental Hygieno:

- Mr pollution, shall incinerators, Construction of simple types. Types of latrings, water carriage system. Visits to parest places of construction of latring.

Bource:

OYO STATE OF HIGERIA LINISTRY OF EDUC'TION FROM RY SCHOOL SYLLABUS GENERAL PUBLIC TION SECTION MINISTRY OF ZDUC'TION, ISADAN

Introduced in 1978.

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		II	4	19	23		T T	19		
2.	ns: r-Ud-Deon	I	13/	14	27	2	15	14	holo	
		III	10	12	22		10	12	E 44	
3.	Brow Memorial	I	3	16	19	2	3	16	d	
		II	5	15	20		5	15	Po r	
4.	Christ Gospel	ICO	5	21	26	1	26)	nly one	10	
	Dry	1	5	1 5	21		21 (f	or malo	40 1	
5.	Seventh Dey		13	14	27	2	13	1.2	Q D	
	idvontist	II	9	9	18		9	9		

# THE COMPLETE OF PIT LATRINES IN SCHOOLS

TAR OF SCHOOL	NO. OF	CONDITIONS
. Abiola Jacobs	16 orifices for pupils and 2 for terchers.	Toilets for pupils are in a filth condition. The ontire pit letrine is about a petro to fill up. The faces and waste
2. Insar-U-Doon	18 latrino holes for pupils and 2 for toa-chors.	Very unsetisfactory disposed of faces and uring all over the floor and outside the latrine. Hierty pupils' latrines are badly littered with faces. The pit latrine is also about a sotre to fill up angets were found on the floor.
3. Baoku Memo-	1 latrines for pupils and 2 for teachers.	nearisfactory. There are to be negligened by the tochers to odu- ento the pupils on tho proper uso and care of pit latrings.
Christ Gospol Day	latrin h les for pupils and i for b th m le nnd for fil te chors. 2 ur nol for pupils	Yery incoquete and quite lirty.
5. Seventh Dy Adventist	4 latring for pupils on 2 for to oher late of the late	CONDITIONS OF L.TRINES  Toilets for pupils are in a filth condition. The ontirs pit letrine is about in getre to fill up. The faces and waste papers on the floor of the pit latrine reveals that pupils are not seriously educated how to keep latrines clone.  To very unactisfactory disposed of faces and urine all over the floor and cutsile the latrine. Liestly pupils' latrines are badly littered with faces. The pit latrine is also about in sets of the floor.  Il latrines are very unactisfactory. There appears to be negligenes by the teachers to educate the pupils on the proper use and care of pit latrines.  Yery incloquate and quite dirty.  Yery incloquate and quite dirty.

# HETHOD OF REFUNE DISPOSIA IN SCHOOLS

	HIE OF JCHOOL	WARD IN IBIDEN	REFUSE DISPOSAL
1.	EEODAL JACOBS	9.1.5	Refuse is dusped into Ogunpa strees
2.	ABLR-UD-DEEN	3.11.4	Jonetines burning
3.	BLOW HE ORLL	S.W.	Sometimes burning
14.	CERIST GOSPEL DAY	g. (.A.)	Refuse is dunced into Gego strena
5.	SEVERTH DAY ADVECTIST	S.V. &	Sometimes bursing
70%	111 5	2	Very uns tisf etry athods of r fuse disposal in all five achools.

# TOT L THE OF T CHERT II THE COUR PRIME SCHOOLS SHOULD THE THE RESERVE TO THE QUE TIOING THE RESERVE THE RESERVE THE RESERVE TO THE QUE TO THE RESERVE THE RESERVE

TOTAL NUMBER OF THE CHERS = 226 = 100%

TOTAL MUMBLA RESPONDED = 179 = 79.2%

# BRE JOO T PER SCHOOL 19 18 POLICE 8:

war of School	Total No. of teachers in the school	Total Responded	\$
ABIGINA JUCOBS	46	37	80.4
ARSAR-UD-DEEH	49	35	71.4
SLOW MENORIAL	39	32	82.1
CARL T COSPEL D	47	40	85.1
I. O STEED STEED	45	35	77.8

# QUESTIONIKIRE SCHEDURE

ON

ATTITUDES AND PRACTICES OF TEACHERS AND POPILS
TO ENVIRONMEN' ALL FACTORS IN 18 DAY SCHOOLS

Read each ouestion and put the number of answer you work is correct in the box provided.

		<del>200</del> 0.	
	Questionnire No.	T	
1.	N.L. OF SCHOOL	7	2 3
	- Government	1.	
	- Mission	2.	
	- Private	3.	4
	- Untrained teachers or other	4.	
2.	EDUCATIONAL LEVEL OF TEACHER		
	- Grade III	1.	
	- Grado II	2.	
	- Grade I	3.	5
	- Untrained, other (specify)	4.	
3.	DURING YOUR TEACHER TRANSPORT	COURSE	
	- Yes	1.	
	- No	2.	6
1	THE SINCE YOU OU. LIFTED	TEACHER	
	0 - 5 years ago	1.	
	6 10 yours ago	2.	
	11 15 years ago	3.	
	16 - 20 years 120	4.	1
	21 and over	5.	

5.	THE TEND OF LUTRING DO YOU USE . THOME?
	Tor coingle
	- a communal latring (for use by all tenants in the house)
	- a Public Latring
	- Other (specify)
6.	HERE IS YOUR RESIDENCE?
	- Inner-core
	- Private lay-out area
	- Government Reserved area
	- Government Housing Batato
	- Other (specify) 5.
7.	JELT IS THE SOURCE OF LATER IN YOUR HOLE?
	- e private water connection 1.  (for your flat alone)
	- a public tap (for all the tonats in the house)
	- we got it from a woll 3. 10
	- Other sources (specify)
.3	HO DO YOU DISPOSE REFUSE IN YOUR HOLE?
	- It is doposited in stress 1.
	gets collected 2.
	- Refuse is not collected 3.
	- Other (specify)

9.	HOI IL' MY WATER TAPE HAVE YOU GO	THE
	- One	THE YOU'S SCHOOL'S
	- Tho	2.
	- More than two	3.
	- None at all	4.
10.	HOLCAN YOU PUT UP ADDITIONAL W	iTIR TIPS III YOUR SCHOOLS
	- 13k the Ministry of Vorks and Ecusing	1001 2011000
	- Inform the Ministry of Rducation and through the P.T's efforts	
	w ter tops can be put up.	2.
	- Louve the altuntion as it exists at present	3.
	- Other (specify)	4.
11.	YOUR SCHOOL?	P BREARS DO LT II
	- Call the Water Board to repair it.	1.
	- /cit until the Ninistry of aduction will ruise a Contractor to repair it.	2.
	- Call an ungent P.T meting and discuss	
	tractor to repair the tax.	3. 14
	- L ve it for the Health Inspector to solve.	4.
	- Other (specify)	5.

### DO YOU WALD IDDITIONAL HERR TARS IN YOUR SCHOOL? 12. Not at the nom np Until the Inspector of Schools will find it fit. Very such indeed if we are to maintrin personal hygiene, school cleanliness and avoid evercreading of papils when filling thoir drinking CAPS. 4. Other (specify) 13. THE WATER STOR GE F. CILITIES MEADED IN YOUR SCHOOL? Not at all since we have weter taps We need them because the prosont water t ps often 2. run dry. 3. Other (opecify) DO YOU NEED WITER STORY G ; FACILITIES IN YOUR 14. CIA 3 4 ROOMS? You, to ensure the presence of water for us by pupils in our clessorous. need for tor st rego freiliti inc we have 2. water tops already. 3.

Other (specify)

15.	RE THERE PROBLEMS CONCERNING SUPPLY IN YOUR SCHOOL?	di.TGR	
	- Teps are inadecuate and they often run dry.	1.	
	- The school has no water tap/taps of its own.	2.	
	- The prosent tap is not running	3.	18
	- Other (specify)	4.	
16.	THE DO YOU CONSIDER TO BE AND THE LATRINE APPARTMENT TO - 25 pupils		The state of the s
	26 - 50 pupils	2.	
	51 - 80 pupils	3.	
	10 - 15 pupils	4.	19
	Over 80 pupils	5. 6.	
	Other (specify)		
17.	GOT IN YOUR SCHOOL?	T. AB AOM	
	- Tor.chera	HILE	FIGURE 20
	- Pupila	CHILLE	PX:L'LE

# tB. Tos 50 Other (speci y) THAT SHOULD BE DONE TO BUILD ADDITIONAL 19. There is no mod for more toilets. Consult the ministries of Health and Education and through the P.T.L. 's effects cor tollats con be committeets. 2. Laswe this entirely to the f & clth od Education to raisy funds. 3. · r city) 20. To should call a Health Inspector: We should in you the Ministry ( ) duention Lt about Olen below ground lovel of to be full should to the second se latitle opered for use. Other (specify) MOV NOT BUND WASH BURLES HAVE THE OUT IN THE 244

22.	HO REEPS THE SCHOOL L TRIFIES CL	
	- Dunila under must stancet	24.11
	- Punila frunt a maion al	
	- Pupils under Teacher's	3. 9
	- Pupils of a class responsible for the two dender a group lander.	25
	- Other (specify)	5.
23.	IEST RE THE USES OF COVERS TO B	In L.Mille?
	- It is a houlth rule	1.
	- To provent the ontry of flics and the oscaping of foul odours	2.
	- To hide the exerct?	3. 26
	- Other (specify)	£.
24.	HOW CAN YOU OBTAIN WASE-HAND BA	SINFOR
	- We ask for funds from the Government.	1.
	- A class techer who is health conscious should organize pupils to reiso	
	m ney for wesh hand basins	2.
	- There is n vey to obtain such begins	3.
	the P. L. t solve	· · · · · · · · · · · · · · · · · · ·
	- Other (specify)	5.
25.	HO MILLY DUST BIRS HIVE TOU GOT	IN AUD: GROOM.

- Book Ministry of Health Support  - Bo noed for dust bins at present  - Ministry of Education can supply us.  - Inform the P.T./. of such a need and then organize pupils and teachers to reise noney for new dust bins.  - Other (specify)  - As soon as they become full 1. and always at the end of such school period  - Once day in the evening 2.  - Twice a day after such school period  - Get directives from the Mealth Officers.  - Other (specify)  - Ministry of Health and the Rathes Disposal Office and P.T  - Only the Ministry of Education  - Word teach orm/ matrons should ach an application to the finistry of Health and Refuse Disposal Office, with the P.T. after the incharacter can be built.  - Other (specify)  - Other (specify)	RO	C YOUR SCHOOL OBP. IN DUST	Bris	NO.		
- No noed for dust bins at present 2.  - Ninistry of Education can supply us.  - Infort the P.T of such a need and then organize supply and teachers to roise money for new dust bins.  - Other (specify)  - A RECOLARLY SHOULD DUST BILD BE ENTIRED?  - Is seen as they become full 1.  - and always at the end of seach school period  - Once day in the evening 2.  - Twice a day after such a school period  - Other (specify)  - Other (specify)  - Other (specify)  - Ministry of Neelth and the Refuse Disposal Office and P.T 2.  - Only the Ministry of Such and Market an application to the Refuse Disposal Office and P.T 2.  - Only the Ministry of Such and Market an application to the Refuse Disposal Office and P.T 2.  - Only the Ministry of Such and Market an application to the Refuse Disposal Office and P.T 2.  - Only the Ministry of Such and Market an application to the Refuse Disposal Office and P.T 2.  - Only the Ministry of Such and Market an application to the Refuse Disposal Office and P.T 2.  - Only the Ministry of Such and Market an application to the Market and application to the Ministry of Health and Market and application to the Ministry of Health and Market an application to the Ministry of Health and Market and P.T 4 after the Incinerator one be built.	-	ook film try of Hoalth Supp	ort.	1	1 2 3 1	8
- Ministry of Education can supply us.  - Inform the P.T./. of such a need and than organize dupils and teachers to roise money for new dust bins.  - Other (specify)  - Other (specify)  - As soon as they become full 1. and always at the end of such school period  - Once day in the evening 2.  - Twice a day after such a school period  - Get directives from the mealth Officers.  - Other (specify)  - Ministry of Realth and the Refuse Disposal Office at a second office at a second office and P.T./. 2.  - Only the Ministry of a ducation  - Monistry of Health, Refuse Disposal Office at a second office and P.T./. 2.  - Only the Ministry of a second office and p.T./. 2.  - Only the Ministry of a second office and p.T./. 2.  - Only the Ministry of second office and p.T./. 2.  - Only the Ministry of second office and p.T./. 2.  - Only the Ministry of second office and p.T.// 2.  - Only the Ministry of second office and p.T.// 2.  - Only the Ministry of second office and p.T.// 2.  - Only the Ministry of second office and p.T.// 2.	-	To noed for dust bins at pro-	ent	1		
- Inform the P.T./. of such a need and than organize pupils and teachers to reise money for new dust bins.  - Other (sheeify)  - Other (sheeify)  - As soon as they become full 1. and always at the end of such school period  - Once day in the evening 2.  - Twice a day after such school period  - Other (specify)  - Other (specify)  - Other (specify)  - Ministry of Neelth and the Refuse Disposal Office at again  - Ministry of Health and the Refuse Disposal Office and P.T./. 2.  - Only the Ministry of Junta and the Refuse Disposal Office and P.T./. 2.  - Only the Ministry of Junta and the Refuse Disposal Office and P.T./. 2.  - Only the Ministry of Junta and the Refuse Disposal Office and P.T./. 2.  - Only the Ministry of Junta and the Refuse Disposal Office and P.T./. 2.  - Only the Ministry of Junta and the Refuse Disposal Office and P.T./. 2.	-	linistry of Education can				
- Other (specify)  - is seen as they become full 1.  - is seen as they become full 1.  - and always at the end of such school period  - Once day in the evening 2.  - Twice a day after such school period  - Get directives from the Health Officers.  - Other (specify)  - Other (specify)  - Ministry of Meelth and the Refuse Disposal Office and P.T.A. 2.  - Only the Ministry of Johnson to the Line of Long the Ministry of Health and the Line of Long the Ministry of Health and Refuse Disposal Office and P.T.A. 2.  - Only the Ministry of London to the Line of Long the Ministry of Health and Refuse Disposal Office and P.T.A. 2.  - Only the Ministry of London to the Line of Long the Ministry of Health and Refuse Disposal Office, with the P.T. And London to be built.	-	and tenchers to roise money		]	29	
- is seen as they become full 1.  red always at the end of such school period  - Once dry in the evening 2.  - Twice a day after such school period 3.  - Get directives from the Health Officers.  - Other (specify) 5.  HO IS IN CHARGE OF ERECTING SCHOOL FERRITARY OF Health and the Refuse Disposal Office and P.T 2.  - Only the Ministry of Manual Angle on application to the Charge of Health and the Refuse an application to the Charge of Health and the Refuse of Health and the Refuse of Health and the Refuse Disposal Office and P.T 2.	••	Othor (sl cify)				
- Once dry in the evening 2.  - Twice c dry ritor sich school period 3.  - Get directives from the Mealth Officers.  - Other (specify) 5.  - Ministry of Health and the Refuse Disposal Office at 1.  - Ministry of Health Refuse Disposal Office at 1.  - Ministry of Health Refuse Disposal Office and P.T 2.  - Only the Ministry of Market and the Refuse Disposal Office and P.T 2.  - Only the Ministry of Market and the Refuse an application to the Refuse and application to the Refuse Disposal Office and the Refuse Dispos	R	REGUL RLY SEDULL DUST BLIE	Be k	PTI	D?	
- Twice c dry ritor show school period 3. 30  - Get directives from the Health Officers. 4.  - Other (specify) 5.  - Winistry of Neelth and the Refuse Disposal Office and P.T 2.  - Only the Ministry of Months Ministry of Health and Linear the Linear of Health and Linear the Linear of Health and Linear to a specific time of Health and Refuse Disposal Office, with the P.T 4.  - Inciner tor one be built. 5.	-	and always at the end of	1.			
Get directives from the Health Officers.  - Other (specify)  - Other (specify)  - Ministry of Mealth and the Refuse Disposal Office and P.T  - Inistry of Health, Refuse Disposal Office and P.T  - Only the Ministry of Journal of Health and the Linistry of Health and Refuse Disposal Office, and the Disposal Office, and the Disposal Office, and the P.T  - Incident tor one be built.	-	Once dry in the evening	2.			
Health Officers.  - Other (specify)  - Other (specify)  - Ministry of Health and the Refuse Disposal Office and P.T 2.  - Only the Ministry of Boule at an application to the Ministry of Health and Refuse and P.T 2.  - Only the Ministry of Boule at an application to the Ministry of Health and Refuse Disposal Office, at the T.T 2.  - Incidence of Health and Refuse Disposal Office, at the P.T 4.  Incidence of the boulet. 4.	-		3.		30	
- Ministry ( Meelth and the Actuse Disposed Office and P.T 2.  - Only the Ministry of Journal of the Control	•		4.			
- Ministry of Mealth and the Refuse Disposal Office and P.T 2.  - Only the Ministry of Journal of Marketian  - Meditectian  - Meditectian  - Meditectian to the Ministry of Health and Marketian and Marketian to the Marketian to the Marketian and Market	••	Other (specify)	5.			
- Ministry of Mealth and the Refuse Disposal Office and P.T 2.  - Only the Ministry of Journal of Marketian  - Meditectian  - Meditectian  - Meditectian to the Ministry of Health and Marketian and Marketian to the Marketian to the Marketian and Market	16	HO IS IN CALRED OF BRECTING 30	HOOL	I O	Hi.	1
- Inistry of Health, Refuse Display Office and P.T 2.  - Only the Ministry of Loud to chers/ intransh will have an application to the linistry of Health and hafter Die posed Office, ith the P.L inciner tor one built.	•	Mini try Moulth nd the fus Di pos 1 Office t				
- Total tock rs/1 trend hold  - Total trend ho	1		2.			
ini try of Herlin ni  fue Die poe i Offic .  ith the P built.		Lduc ti n				
incin r tor on ball.		ini try of Holtin in the fue Die oue i Office of the fue of the fu	1.		21	
			5.			

THE TOUR RECOTIONS TO THE POOR 29. KIN I ROW ENTE FLORE LTH P. CILITE'S IN YOUR SCHOOL? If it were possible I would close the school Increase the incloquate like water supply, latrines, rufuso collections, corry out the necessary replirs to buildings and no additional intake. Put up storey classrooms 3. Other (specify) **50.** THO DO YOU THIM. YOU SHOULD INVOING IN SITING REPUSE DEPOT CONVENTENT TO YOUR SCHOOL? The Wrate Disposal Of Mce at ..godi arrang ments can be unde through the Hinistry of H alth and the laste Diagos'l Office to help site a convenient refuso 2. depot. Only the Ministry of 3. Education Other (apocify) A.T DO YOU COLE IDER TO B S IS I DEOL OF 31. BRILLING FOOD TO SCHOOL BY UOD VERDOUS? The present othed is go i appropriate to make the contract to th lini tri s of Herlth sducating that a standardiz d s 's c nviner for carrying food 2. ir rec mie. 3.

- Otn. - (specify)

#### TRERE . NY NBED FOR FOOD WINDOWS 32. GO FOR MEDIC, L MELLING TRONS Very essential to serien thoso who might be carriers of disoases e.g. Tuborculosis Not vory essential since they woro exemined whon they took up employment 2. It is time consuming to line up in hospitals 3. Othor (specify) 33. H V TO INT IRITTHE PROOF TO SHO THAT YOUR FOOD INDORS RID REDICAL EXILATION THIS YAR 1997 Yes, from the Himistry of Health (Jericho) Mn proof, but Vandors clain that they had it 2. It is the duty of Health Inspectors to ask of 3. such a proof L majority of them have had no medical check-up this 4. year 1978. 5. Othor (specify) DO YOU CONSTDER THE TRAINING 3. IN THE ECON TOO 'S SUPPLIED 'U'? Tes, since the for they bring to school is the seen typo they cook in their heads. Not at all, since the diys they spent were Tuw to cover all ossontial asports of 2.

food hygions.

Other (sp cify)

### WHAT IMPROVEDENT ON FOOD VENDORS IS DEEDED? 35. - No i Provement is needed at present Tho lini tries of Health end Pducation to decide 2. Torchers une are in close contact with food vandors should nebe recommendations to the above Ministrics so that Vender's werknoss are recti in refresher gours 8. 3. Other (specify) 4. WHICH OF THE TUD "TEACHER OF HEALTH I "PROME " 36. IS RESPONSIBLE TO VISIT THE MONTH OF FOOD VELLORS They ar all required to visit the homes of food verkiors. Only the Heilth Inspectors It is the duty of the teacher since the food boing prepared is for the mipils Other (specify) IS THERE ANY COLD FOR A TEACHER OR HEALTH 37. INSPECTOR TO VISIT FOOD VENDORS AT THEIR HOMES? Yes, because some food venders stay for fr 8 cho 1. Vortors are alrealy trained s tore to no mod to 2. visi th . Tes, because food venders n ed constant advise on nothods of food hygions and to ascertain the suitability of vendor's hones as regards to food sanitation

Other (specify)

### THO SHOULD BE INVOLVED IN CHECKING 38. RITING SHELTERS FOR PUPILS? It is the duty of food vendors The Ministry of Health 2. The Ministries of Health and Rducation and through tho activity of the P.T... Not yet time to involve Lnybody 4. Other (specify) 5. DO YOU CONSIDER ! FINCE LECT SLRY FOR YOUR SCHOOL? 39+ Not yet until the school cronds Very necessary to prevent the local poopl / ground from dumping their 'westes' in the school remises efter chal hours 2. Yes, to provent illegal vand rs fr montering th school presisos. 3. 9. Other (specify) THOM CAN WE CALL TO CARRY OUT THE NECESSARY REPAIRS 40, TO BROKEN AL DOW SHUTTERS, DESKS, AND POT-HOLES OF FLOORS? C 1.1 th contract r who built the chiol. linistry of orks and 2. Lousing Gut organizat with the P.T.L. and look for a catractor to carry out the necessarry 3. roxira. Other (specify)

#### TRO SHOULD PROVIDE THE BIVI ROLLERY 41. RINGH STRUCTURE FOR The P.T.L., but the technical advice should come from the limistries of heal th and oducation. Teachers and Pupils 2. The School Committee clone 3. The contractorwho built the school. Other (specify) ICREE PRINK I IT OF YOUR CHOOL ADJUTTS? 42. Very Buch 1. Met at all. No nore ros for latrin, construction and ther f cilities. 2. - Othor (specify) 3.