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STAFF TRAINING IN COMPUTERIZED
MANAGEMENT INFORMATION SYSTEMS
PHASE II - REPORT
TRAINING RESULTS AND RECOMMENDATIONS
REPUBLIC OF INDONESIA

A Report Prepared By PRITECH Consultant:
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1.0 Introduction

1.1 Background

In May 1986, the Republic of Indonesia's Ministry of Health (**DEPKES**) and its **Diarrheal Disease Control Program (CDD)** signed a bilateral amendment with the **United States Agency for International Development (USAID)**. As part of the **Health Training, Research and Development Project (HTRD)**, these amendments made funding available for technical assistance to be provided by **Management Sciences for Health (MSH)** under a buy-in to **MSH's Technologies for Primary Health Care Project (PRITECH)**.

A major focus of **PRITECH's** operational work-plan was directed toward assisting **CDD** in developing a system for managing the collection and analysis of program-related data. Following the 1988 purchase of USAID-funded computer packages (microcomputer, printer and software), **PRITECH**, here after referred to as the Client, contracted with **P.T. Fidiara Utama Maju (P.T. Fidiara)**, here after referred to as the Consultant, to design and provide hands on computer training for staff from the central-level **CDD** office and from **CDD's** three intensified provinces of South Sumatra, South Sulawesi and West Java.

1.2 Scope of Work

In early March, 1989, the Consultant staff further defined their scope of work in briefing sessions with Dr. William Emmet of **PRITECH**, Ms. Joy Riggs-Perla of **USAID** and with Dr. Sutoto, Director of the **CDD** Program and his staff. As a result of these meetings, the Consultant's original training objectives were expanded to focus more directly on the issue of sustainability in related to the continued long-term development and management of **CDD's** information system. Under the guidelines agreed to by all parties, the Consultant's scope of work was altered to include not only a responsibility for training staff in the use of computers but also to include the larger goal of working with program staff on practical work-related applications of their training.

1.3 Definition of Objectives

To achieve its contractual obligations, the Consultant, in collaboration with **PRITECH** and with the **CDD** Program Director, agreed that its scope of work could be best be implemented through a two-phased approach of Training Program Development (Phase I) and Field Implementation (Phase II). Objectives for the two phases were defined as follows:

Phase I - Objectives

- To assess computer training needs of **CDD** staff at central and provincial levels;
- To design hands-on training courses in response to identified needs; and
- To design hands-on applications exercises focused on sustainability of training through analysis of selected **CDD** Program indicator data.

Phase II - Objectives

- To train selected staff at central offices and provincial **CDD** offices in response to identified needs;
- To apply the training received to application exercises focused on selected **CDD** program indicator data; and
- To assess post-training computer literacy levels and to recommend appropriate training for future information systems for central and provincial-level staff.

2.0 Field Implementation

2.1 Introduction

The second phase, *Field Implementation*, involved both the training of **CDD** staff and the expansion of the computerized Data Collection Program.

2.1.1. Training Program

The Training Programme was begun on 12 June, 1989 in Bandung, West Java and was completed in Jakarta on 12 August, 1989. A total of forty staff members were trained in the four locations of Bandung; Palembang, South Sumatra; Ujung Pandang, South Sulawesi and Jakarta.

The Training Programme was modified as a result of the review of the Phase I Report with members of the **CDD** program staff and members of **PRITECH**. The major modification was related to curriculum for the Jakarta training. It was felt that the Jakarta **CDD** staff should be exposed to the programming capabilities of **Microrim's Rbase for DOS** application program. As a result of this decision, the Consultant modified the curriculum for Jakarta to include 48 hours of intensive training in the use of **Rbase for DOS**. Originally, three weeks of training had been planned for Jakarta with the third week utilizing the Workshop. It was decided that first two weeks should continue as originally planned with nine participants while the third week would be replaced with the intensive training in **Rbase**. This third week programme would involved only five staff members.

A change was made in the scheduling of the field Training Programme. It was original scheduled as follows:

Province	Date
Bandung	12 June to 30 June 1989
Palembang	3 July to 21 July 1989
Ujung Pandang	3 July to 21 July 1989
Jakarta	24 July to 11 August 1989

But it was revised to the following:

Province	Date
Bandung	12 June to 30 June 1989
Palembang	3 July to 21 July 1989
Ujung Pandang	24 July to 11 August 1989
Jakarta	24 July to 12 August 1989

2.1.2 Data Collection Program

In the Phase I Report (June, 1989 - Page 8), the Consultant recommended the use of a data collection program as a training device to assist in helping the staff to learn how to use the computer. As a result of the review with **CDD** staff members, it was decided to change the information collection portion of the program from Oralit data to Diare

data and to include population information. The report sections of the program were modified to reflect the addition of this new information. It was agreed that the revised data collection program would have more meaning to the participants since it would be directly related to their work. Detailed information on the data collection program is provided in the *Technical Appendices* of this report.

2.2 Field Locations

2.2.1 Bandung, West Java

The first field Training Programme was held in Bandung from 12 June to 30 June 1989. A total of nine staff members were involved in the training which was held in two sessions. A minor problem faced by the Consultant was that the participants in the training were not the individuals that were originally tested. Also as result of a mix-up in the naming of the training programme SP2TP (System Pencatatan dan Pelaporan Tingkat Puskesmas) instead of Diare, the mix of the training group was wider than expected as members from other entities participated. Due to this change in the mix of the group, the Consultant decided to modify the last week of the programme and to expand the scope of training to included **Lotus Development Corporation's** spreadsheet program, **Lotus 123** and **Microsoft's** word processing program, **Word**. The reason behind this decision was that these programs could assist the staff members in support of their work. Not all of the participants were involved in Diare work.

The Consultant tested the trainees at various points in the programme and the results of those tests are provided below:

Student	Intro PC	Intro DOS	Workshop
1.	70	82	85
2.	43	40	60
3.	81	90	60
4.	44	40	65
5.	51	55	60
6.	66	95	70
7.	77	80	65
8.	70	65	60
9.	66	75	60

The Consultant modified the examination to include the additional material covered in the third week of the programme. That examination is included in the *Technical Appendices* of this report.

With few exception, the performance of the trainees was good. They were attentive to the instruction provided and performed all assignment with interest and dedication. The test results showed progress for most of the students. The trainees that scored low on the final workshop examination were students who had no previous computer experience. The final examination was both a written test of computer knowledge and

a hands on practical test involved in the use of the computer. The support provided by the Provincial Office in Bandung was excellent as it made the task of running the programme much easier.

2.2.2 Palembang, South Sumatra

The second field Training Programme was held in Palembang from 3 July to 21 July 1989. A total of nine staff members were involved in the training which was held in two sessions. The same problems of different staff members and mix of the group was also apparent here. The Consultant modified the Training Programme to meet the requirement of the trainees. The spreadsheet program, **Lotus 123** and **Micro International Corporation's** word processing program, **WordStar** was taught as part of the third week activities.

The results of the tests are shown below:

Student	Intro PC	Intro DOS	Workshop
1.	75	70	90
2.	53	65	60
3.	46	50	55
4.	52	65	85
5.	46	40	50
6.	69	80	85
7.	40	40	50
8.	58	55	90
9.	50	45	55

Again the Consultant was pleased with the performance of most of the students as they were alert and studious in performing the tasks assigned to them. All students demonstrated progress in their ability to use the computer and the related software during this three week period. The test scores showed steady improvement for both the academic subjects as well as the practical use of the computer. The support provided by the Provincial Office in Palembang was outstanding as it made the task of running the programme quite easy.

2.2.3 Ujung Pandang, South Sulawesi

The last field Training Programme was held in Ujung Pandang from 24 July to 11 August 1989. A total of nine staff members were involved in the training which was held in two sessions.

The same problems of different staff members and mix of the group was also evident here. The Consultant modified the Training Programme to meet the requirement of the trainees. The spreadsheet program, **Lotus 123** and the word processing program, **Word** was taught to the group during the third week.

Student	Intro PC	Intro DOS	Workshop
1.	81	80	82
2.	97	70	75
3.	96	65	70
4.	81	80	65
5.	49	70	55
6.	77	90	95
7.	67	70	68
8.	65	75	55
9.	52	80	Ab

Again the Consultant was delighted with the performance of most of the students as they were conscientious and rigorous in performing the tasks assigned to them. For a number of the students, this was their first exposure to the computer and the results were very good considering their lack of knowledge. The low scores on the last examination indicate those student who were not strong in the practical use of the computer. The scores would increase with additional use of the computer and the software. The support provided by the Provincial Office in Ujung Pandang was impressive as it made the task of running the programme much easier.

2.3 Jakarta

The training in Jakarta was divided into two phases with the first phase beginning on 24 July and running until 4 August 1989. The first phase was conducted in the SubDit Diare facilities in the Department of Health. The second phase began on 7 August 1989 in the Consultant's facilities and ran until 12 August 1989. As mentioned earlier, the programme for Jakarta was modified to provide additional training in **Rbase**.

The first phase of the programme involved thirteen **CDD** staff members including the Director. Originally the programme was designed for nine trainees but with the interest expressed by other members of the staff, the programme was opened up to include them. This phase of the programme involved the basic introduction to the computer and the use of DOS. The results of the examination for the first phase are shown below:

Student	Intro PC	Intro DOS
1.	79	75
2.	88	80
3.	76	70
4.	85	75
5.	68	67
6.	76	86
7.	46	76
8.	66	76
9.	83	76
10.	61	85
11.	76	97
12.	74	90
13.	64	60

It must be noted that not all of the trainees are involved in the use of a computer on a daily basis and thus their knowledge might not be as high as those who work with the computer on a daily basis. The overall performance of the trainees was very good and their involvement in the activities of the programme was excellent. The facility support provided by the **CDD** staff to the Consultant was outstanding and was appreciated by the instruction team.

The second phase of the programme included five members of the **CDD** staff who are directly involved in the processing of information. This phase involved 48 hours of intensive training in the use of the **Rbase for DOS** application program. The curriculum for the programme is outlined below:

1. Introduction to Rbase for DOS - Using Prompt by Example
2. Building a Database with Definitions - EXPRESS I
3. Modify a Database Structure using Rbase Commands
4. Entering and Editing Using Rbase LOAD Commands
5. Examining Data Using Rbase Commands
6. Creating and Using a FORM to Enter and Edit Data
7. Creating and Using a REPORT in Database
8. Practical Use of Rbase

The objective of the programme was to instruct the staff in the basic use of the Rbase Application Program in a practical work related situations. This objective was met by the trainees. Upon completion of the program, the trainees were able to create their own database, design data input forms and report as well as use the query language. The overall performance of the group was very good and their enthusiasm was excellent.

2.4 Summary

In summary, it was clear that the training was well received by the majority of the trainees. The trainees understood the various parts of the computer including the keyboard, the hard disk and the floppy disk drives. They were able to format diskettes as well as to organize the hard disk with the **Norton Commander Utility** program. They understood the importance of and were able to use the hard disk maintenance program, **Speed Disk**, in order to keep the hard disk operating efficiently.

Most of the students gained a real insight into the practical use of the DOS instructions such as *COPY*, *DIR*, *MD*, *CD*, and *RD*. All students were able to use various features of the Data Collection program such as Data Input, Data Verification, Data Modification and Report generation.

As for the application programs such as **Lotus 123**, **Word** and **WordStar**, the students were able to do simple tasks using the basic instructions of the programs.

For the trainees involved in **Rbase**, they were able to use the **Rbase** Application Program to develop basic database systems for use in their work.

3.0 Observations by the Consultant

3.1 Introduction

In general, the Consultant is very pleased with the results of the Training Programme in all four locations. The administrative support provided by the Provincial Offices and the **CDD** staff in Jakarta is appreciated. For without their support, this programme would not have been successful.

As any Training Programme creates a learning environment for both the trainee and the trainer, the Consultant has gained a greater awareness of problems concerning curriculum preparation as well as course implementation. The results of this programme have help both the Client and the Consultant. In order to assist the planning of future Training Programmes, the Consultant would like to offer the following observations. A number of these observations are related to each other and do effect each other. So the Consultant invites the Client's forbearance when items are repeated as they are designed to strengthen the observations.

3.2. Training Needs Analysis

The training needs analysis done prior to the programme needed additional time to develop what the real needs of the field staff were. Most of the data was developed from information gained through interviews in Jakarta and thus the view was different than that of the province. Time budget to be spent in the province would have given the Consultant more information as to the real needs of the staff and the programme could have been directed more to those needs. However, the Consultant does feel that a good portion of the needs were identified and met.

3.3. Student Selection

Originally when the programme was in the development stages, the objective was to offer a higher level of instruction than the basic introduction to the computer and DOS. When the training needs analysis was performed using the Training Computer Level Questionnaire, (See *Phase I Report, June 1989, Page 6*) it was discovered that the level of computer understanding was very low in the field. Based on this, it was decided to modify the programme to teach the basics. However, when the Consultant arrived in the field, not all of those who had been tested were involved in the programme. The reason for this, as understood by the Consultant, was that the original test candidates did not want to take a basic course and other staff members were substituted.

3.4. Computer Competence

As a result of the training, the Consultant has discovered the members of the staff are proficient in using various application programs including **Wordstar**, **Lotus 123**, but do not understand the basic operation of the computer including the use of DOS. This may very well have been the reason why the original staff that were tested did not feel comfortable in a programme that was going to teach basic computer operation even though the test results showed a lack of

knowledge in this area. One solution to this is to offer a special programme for those employees who are working with the application programs but who do not know the basics.

3.5. Applicable Training

There was confusion surrounding the use of the Data Collection program during the training as this program was designed for the collection of Diare information. Some of the trainees in attendance were not involved in Diare data collection but were involved in other data collection programs. Due to the confusion over the title of the course, the student expected the Data Collection program to relate to their data collection activity. Since the program was restricted to Diare, this caused some disappointment among the trainees. This problem could have been averted by a better training needs analysis at the field locations.

3.6. Data Collection Program

This observation related to the preceding comments concerning the limited application of the Data Collection program. The trainees as well as other field personnel felt that this data collection program was applicable to the field environment, but it should be expanded to include additional indicators. The Consultant suggests that consideration be given to this modification. See Section 5.0 of this report.

3.7. Trainees

With the exception of a few students, the trainees in the programme were very competent and diligent in accomplishing the task of the program. However, the Consultant feels that some of the trainees were really not interested in the programme but this may be due to the trainee's perceived relevance of the training to their daily work. This disinterest resulted in some of the low scores. However, there were staff members who really tried and still did not test well. It must be remembered that testing does not really demonstrate the practical knowledge of a trainee only the academic side.

3.8. Class Size

In order for training to be effective, it is important that the instructor to student ratio as well as the computer to student ratio be low. The Consultant had originally agreed on six participants per location. However, with the Consultant's agreement, this was expanded in locations where sufficient instructors and computers would be available. Although the Consultant was able to accommodate additional participants, it is important to note that in the future, this ratio for computer to student should be maintained at least two to one while the instructor to student ratio should be no more than six to one. In other words, as effective ratios are increased, one must also expect a similar decrease in expected competence levels.

3.9. Trainee Selection

Selection of trainees for inclusion in a Training Programme should be done with care to insure that the Training Programme will be beneficial for all trainees. The Consultant feels that this may not have been the case for some of the trainees, but this could be due to the misunderstanding of the scope of the

programme. To address this issue more effectively in the future, the Consultant suggests that all potential participants have a clear understanding of the Terms of Reference for the intended training.

3.10. Student Awareness

One of the more positive results of the training programme was seen in the participants growing awareness of the need for additional investment of their time, if they were to take full advantage of the benefits associated with being fully *computer literate*. The consultant believes that with this increased awareness, most of the course's participants are now in an excellent position to take maximum advantage of additional computer training opportunities.

4.0 The Future

4.1 Introduction

As a result of the training, the Consultant sees the need for additional training in the use of the computer and application software. It is important that follow-up training be provided so that the interest in the use of the computer be maintained. Too many times, training is started but follow-up is not maintained and the skills taught are lost.

4.2 Field Locations

The Consultant recommends that for the field locations:

1. Additional training be given in use of spreadsheet and word processing programs and that this training be directly related to the work of the trainees.
2. Senior staff members involved in analysis of information be introduced to data analysis application programs similar to **Rbase**. This programme should provide guidance in how to organization data for computer analysis and would build on the **Rbase** Program instructions given during the third week of the Jakarta training.
3. The basic programme be offer to additional staff members in the three provinces and to other provinces.

4.3 Jakarta

The Consultant recommends that for Jakarta:

Additional **Rbase** training including manual program coding. However, it is recommended that this training be done as part of a practical development programme in which the trainees learn how to design, program and implement a operating system. This type of Training Programme would provide the Client with a trained internal programming staff to support it future needs.

5.0 Data Collection Program

5.1 Introduction

In the Phase I Report, the Consultant provided an overview and detail information on the Data Collection program that was developed to support the training of the **CDD** staff. Prior to the training, the decision was made to modify the program from a training tool to an actual application which could be used by **CDD**. The results of that modification are presented in detail in Technical Appendices of this report. The detail includes the program listings, screens and reports. Table 1 provides an overview of the information flow for the program.

5.2 Field Response to Data Collection Program

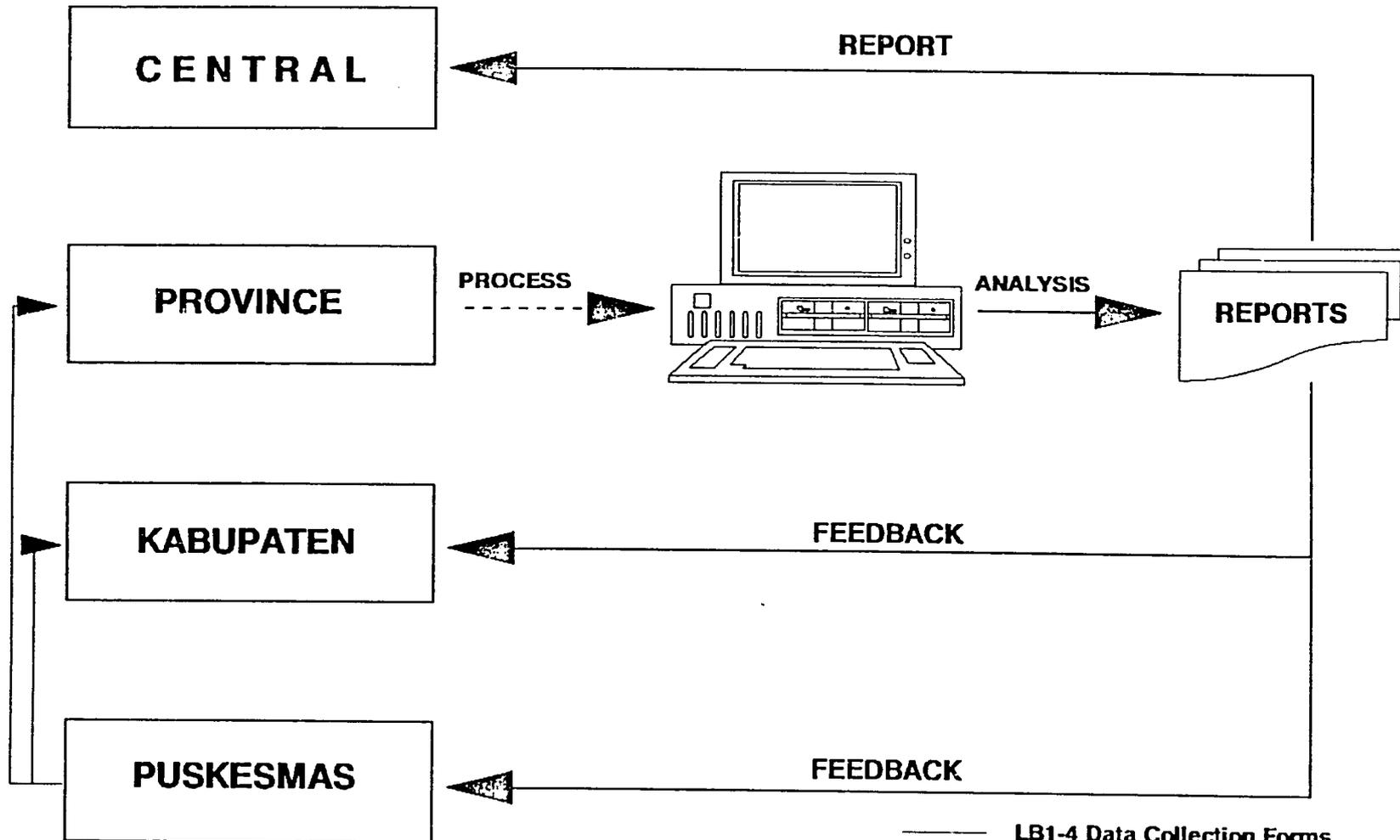
The Consultant discovered that the provincial level staff found possible additional uses for the program other than just collecting data for Diare information. Since a number of the trainees were involved in other areas of the information system, they saw the possibility of expanding the program to assist them in their data collection and analysis problems. The Consultant feels that this program can be modified but cautions the Client to go slowly and first perform a complete study of needs both at the provincial and national level. Without this study, the uniformity of data collection would not be possible and the result may not be what the Client desires. This topic is discussed more in the next section of this report.

5.3 Future System Design

The Consultant designed a data collection program for use in the field to collect major indicators related to Diare and to transfer them into the Central Level Office in Jakarta. This program included a data transfer facility along with Input, Modification and Verification features. For the Central Level Office, the program was designed to accept data from the field and to consolidate this data. The program provided facilities for verification and modification if necessary. As mentioned earlier, the program was modified to permit a field analysis of data through the report generation portion of the program.

However, in order to fully utilize the data collected in the field, a management information system must be designed to analyze this data. The collection of field data is an important step in the development of this Management Information System. The next step is to perform a complete system analysis and design which will lead to the development of a functional specification of the MIS. Only after the functional specification have been approved, can programming begin.

Diare Data-Flow Management



- LB1-4 Data Collection Forms
- - - - - Electronic Data Processing
- Reports

TECHNICAL APPENDICES

- I Questionnaire
- II. Program Listing, Screens and Reports

**TES AKHIR PELATIHAN
PROGRAM SP2TP**

I. INTRO DAN DOS (40 MINIT)

1. Sebutkan masing-masing bagian/peralatan komputer IBM-PC dan fungsinya, yang dapat anda ketahui (minimum 5 bagian)?
2. Sebutkan 5 buah COMMAND DOS dan artinya ?
3. Apa artinya file "AUTOEXEC.BAT" ?
4. Apa artinya perintah "PATH", berikan sebuah contoh ?
5. Apa fungsi perintah MD, CD & RD dalam penggunaan Directory?

II. PROGRAM SP2TP (40 MINIT)

1. Silakan menhodupkan komputer anda
2. Masukkan/pindahkan ke Directory yang berisi program SP2TP
3. Mulai memanggil program SP2TP
4. Masukkan Data-data yang telah disediakan
5. Perbaiki data yang diberikan tanda SALAH
6. CETAK LAPORAN : A. dari tanggal s/d
B. Jenis Penyakit
C. Statistik untuk tanggal s/d

III. PROGRAM TAMBAHAN (BONUS 20 points) (40 MINIT)

Buatlah tabel dibawah ini dengan Program LOTUS 123:

	Nama Kabupaten	1987	1988	Pertumbuhan	Persentase
1.	Kd. Bogor	100.000	130.000	tahun 88-tahun 87	?
2.	Kd. Sukabumi	150.000	190.000	-- " --	?
3.	Kd. Bandung	200.000	250.000	-- " --	?
4.	Kd. Cirebon	125.000	175.000	-- " --	?
		Jumlah	Jumlah	Jumlahkan	

Buatlah grafik dari tabel yang ada dengan ketentuan sebagai berikut:

- a. TYPE adalah Batang (BAR)
- b. Batasan untuk "X" adalah nama Kotmadya
- c. Batasan untuk "A" adalah populasi tahun 1987
- d. Batasan untuk "B" adalah populasi tahun 1988
- e. Buatlah judul-judul grafik yang diperlukan (TITLE, LEGEND)
- f. Cetaklah grafik anda

14

Data Input Programme Screen, File Listing and Sample Reports

DIARE MANAGEMENT INFORMATION SYSTEM
PROGRAM LISTING

1

```
$COMMAND
MAXIAP
OPEN HEALTH
SET NULL " "
SET MESSAGE OFF
SET BELL ON
SET CURRENCY " " PREF 1 A
SET ERROR MESSAGE OFF
SET VAR PICK1 INT
SET VAR AA INT
SET VARIABLE BDATE DATE
SET VARIABLE EDATE DATE
LABEL STARTAPP
  NEWPAGE
  CHOOSE PICK1 FROM Main IN MAXIAP.Apx
  IF PICK1 EQ 0 THEN
    GOTO ENDAPP
  ENDIF
  IF PICK1 EQ 1 THEN
    ENTER MAXSCR1
    GOTO STARTAPP
  ENDIF
  IF PICK1 EQ 2 THEN
    SET VARIABLE KODE1 TEXT
    FILLIN KODE1 USING "MASUKAN KODE PUSKESMAS : "
    SET VARIABLE BDATE DATE
    FILLIN BDATE USING "MASUKAN TANGGAL AWAL MODIFIKASI : "
    SET VARIABLE EDATE DATE
    FILLIN EDATE USING "MASUKAN TANGGAL AKHIR MODIFIKASI : "
    EDIT USING MAXSCR2 +
      SORTED BY LOCCODE=A DATEMON=A DISTYPE=A +
      WHERE LOCCODE EQ .KODE1 +
      AND DATEMON GE .BDATE +
      AND DATEMON LE .EDATE
    GOTO STARTAPP
  ENDIF
  IF PICK1 EQ 3 THEN
    CHOOSE PRNTOPT FROM PRT$$$ IN MAXIAP.Apx
    IF PRNTOPT EQ "Both" THEN
      OUTPUT PRINTER WITH SCREEN
    ELSE
      IF PRNTOPT NE "Printer" THEN
        OUTPUT SCREEN
      ELSE
        OUTPUT PRINTER
      ENDIF
    ENDIF
  ENDIF
  SET VARIABLE KODE1 TEXT
  FILLIN KODE1 USING "MASUKAN KODE KABUPATEN : "
  SET VARIABLE BDATE DATE
  FILLIN BDATE USING "MASUKAN TANGGAL AWAL VERIFIKASI : "
  SET VARIABLE EDATE DATE
  FILLIN EDATE USING "MASUKAN TANGGAL AKHIR VERIFIKASI : "
  PRINT VERIFREP +
    SORTED BY DATEMON=A LOCCODE=A DISTYPE=A +
    WHERE (SGET(LOCCODE,5,1)) EQ .KODE1 +
    AND DATEMON GE .BDATE +
    AND DATEMON LE .EDATE
```

16

```
CLEAR KODE1
OUTPUT SCREEN
IF PRNTOPT NE "Printer" THEN
    WRITE "Press any key to continue "
    PAUSE
ENDIF
CLEAR PRNTOPT
GOTO STARTAPP
ENDIF
IF PICK1 EQ 4 THEN
    SET VAR PICK2 INT
    SET VAR LEVEL2 INT
    SET VAR LEVEL2 TO 0
    WHILE LEVEL2 EQ 0 THEN
        NEWPAGE
        CHOOSE PICK2 FROM MENU4 IN MAX1AP.Apx
        IF PICK2 EQ 0 THEN
            BREAK
        ENDIF
        IF PICK2 EQ 1 THEN
            CHOOSE PRNTOPT FROM PRT$$$ IN MAX1AP.Apx
            IF PRNTOPT EQ "Both" THEN
                OUTPUT PRINTER WITH SCREEN
            ELSE
                IF PRNTOPT NE "Printer" THEN
                    OUTPUT SCREEN
                ELSE
                    OUTPUT PRINTER
                ENDIF
            ENDIF
        ENDIF
        SET VARIABLE BDATE DATE
        FILLIN BDATE USING "MASUKAN TANGGAL AWAL LAPORAN : "
        SET VARIABLE EDATE DATE
        FILLIN EDATE USING "MASUKAN TANGGAL AKHIR LAPORAN : "
        PRINT MAXREPI +
            SORTED BY DATEMON=A LOCCODE=A DISTYPE=A +
            WHERE DATEMON GE .BDATE AND DATEMON LE .EDATE
        OUTPUT SCREEN
        IF PRNTOPT NE "Printer" THEN
            WRITE "Press any key to continue "
            PAUSE
        ENDIF
        CLEAR PRNTOPT
    ENDIF
    IF PICK2 EQ 2 THEN
        CHOOSE PRNTOPT FROM PRT$$$ IN MAX1AP.Apx
        IF PRNTOPT EQ "Both" THEN
            OUTPUT PRINTER WITH SCREEN
        ELSE
            IF PRNTOPT NE "Printer" THEN
                OUTPUT SCREEN
            ELSE
                OUTPUT PRINTER
            ENDIF
        ENDIF
        SET VARIABLE KODE1 INTEGER
        FILLIN KODE1 USING "MASUKAN KODE JENIS PENYAKIT : "
        SET VARIABLE BDATE DATE
        FILLIN BDATE USING "MASUKAN TANGGAL AWAL LAPORAN : "
        SET VARIABEL EDATE DATE
        FILLIN EDATE USING "MASUKAN TANGGAL AKHIR LAPORAN : "
```

```

PRINT MAXREP2 +
  SORTED BY DATEMON=A LOCCODE=A DISTYPE=A +
  WHERE DISTYPE EQ .KODE1
CLEAR KODE1
OUTPUT SCREEN
IF PRNTOPT NE "Printer" THEN
  WRITE "Press any key to continue "
  PAUSE
ENDIF
CLEAR PRNTOPT
ENDIF
IF PICK2 EQ 3 THEN
  CHOOSE PRNTOPT FROM PRT$$$ IN MAX1AP.Apx
  IF PRNTOPT EQ "Both" THEN
    OUTPUT PRINTER WITH SCREEN
  ELSE
    IF PRNTOPT NE "Printer" THEN
      OUTPUT SCREEN
    ELSE
      OUTPUT PRINTER
    ENDIF
  ENDIF
ENDIF
SET VARIABLE KODE1 TEXT
FILLIN KODE1 USING "MASUKAN KODE KABUPATEN : "
SET VARIABLE BDATE DATE
FILLIN BDATE USING "MASUKAN TANGGAL AWAL LAP. STATISTIK : "
SET VARIABLE EDATE DATE
FILLIN EDATE USING "MASUKAN TANGGAL AKHIR LAP. STATISTIK : "
COMP AA AS COUNT DATEMON IN NEWDEPK WHE DATEMON GE .BDATE AND +
  DATEMON LE .EDATE AND +
  (SGET(LOCCODE,5,1)) EQ .KODE1
PRINT MAXREP3 +
  SORTED BY DATEMON=A LOCCODE=A +
  WHERE (SGET(LOCCODE,5,1)) EQ .KODE1 +
  AND DATEMON GE .BDATE +
  AND DATEMON LE .EDATE
CLEAR KODE1
OUTPUT SCREEN
IF PRNTOPT NE "Printer" THEN
  WRITE "Press any key to continue "
  PAUSE
ENDIF
CLEAR PRNTOPT
ENDIF
ENDWHILE
CLEAR LEVEL2
CLEAR PICK2
GOTO STARTAPP
ENDIF
IF PICK1 EQ 5 THEN
  SET VAR PICK2 INT
  SET VAR LEVEL2 INT
  SET VAR LEVEL2 TO 0
  WHILE LEVEL2 EQ 0 THEN
    NEWPAGE
    CHOOSE PICK2 FROM MENU5 IN MAX1AP.APX
    IF PICK2 EQ 0 THEN
      BREAK
    ENDIF
    IF PICK2 EQ 1 THEN
      SET VAR PICK3 INT

```

```
SET VAR LEVEL3 INT
SET VAR LEVEL3 TO 0
WHILE LEVEL3 EQ 0 THEN
  NEWPAGE
  CHOOSE PICK3 FROM MENU6 IN MAX1AP.APX
  IF PICK3 EQ 0 THEN
    BREAK
  ENDIF
  IF PICK3 EQ 1 THEN
    ENTER TABKABU
  ENDIF
  IF PICK3 EQ 2 THEN
    FILLIN KODE1 USING "MASUKAN KODE KABUPATEN : "
    EDIT USING TABKABU SORTED BY KODEK=A +
      WHERE KODEK EQ .KODE1
    CLEAR KODE1
  ENDIF
ENDWHILE
ENDIF
IF PICK2 EQ 2 THEN
  SET VAR PICK4 INT
  SET VAR LEVEL4 INT
  SET VAR LEVEL4 TO 0
  WHILE LEVEL4 EQ 0 THEN
    NEWPAGE
    CHOOSE PICK4 FROM MENU7 IN MAX1AP.APX
    IF PICK4 EQ 0 THEN
      BREAK
    ENDIF
    IF PICK4 EQ 1 THEN
      ENTER TABPUSKE
    ENDIF
    IF PICK4 EQ 2 THEN
      FILLIN KODE1 USING "MASUKAN KODE PUSKESMAS : "
      EDIT USING TABPUSKE SORTED BY KODEP=A +
        WHERE KODEP EQ .KODE1
      CLEAR KODE1
    ENDIF
  ENDWHILE
ENDIF
IF PICK2 EQ 3 THEN
  SET VARIABLE KODE1 INTEGER
  FILLIN KODE1 USING "MASUKAN KODE JENIS PENYAKIT : "
  EDIT USING TABJENIS +
    SORTED BY KODE=A +
    WHERE KODE EQ .KODE1
  CLEAR KODE1
ENDIF
IF PICK2 EQ 4 THEN
  RUN BACKUP IN MAX1AP.APX
ENDIF
IF PICK2 EQ 5 THEN
  RESTORE A: C:
ENDIF
IF PICK2 EQ 6 THEN
  ZIP ROLL SD
ENDIF
ENDWHILE
CLEAR LEVEL2
CLEAR PICK2
GOTO STARTAPP
```

```
ENDIF
GOTO STARTAPP
LABEL ENDAPP
CLEAR PICK1
RETURN
$MENU
PRT$$$
ROW Select Print Routing
Printer
Screen
Both
$MENU
Main
COLUMN: MENU PROGRAM SP2TP
PEMASUKAN DATA BULANAN
MODIFIKASI DATA
VERIFIKASI DATA
LAPORAN BULANAN
PEMELIHARAAN SISTEM
$MENU
MENU4
COLUMN MENU LAPORAN BULANAN
LAPORAN DENGAN TANGGAL AWAL s/d TANGGAL AKHIR
LAPORAN BERDASARKAN JENIS PENYAKIT
LAPORAN STATISTIK
$MENU
MENU5
COLUMN MENU PEMELIHARAAN SISTEM
PEMELIHARAAN TABEL KABUPATEN
PEMELIHARAAN TABEL PUSKESMAS & POPULASI
PEMELIHARAAN TABEL JENIS PENYAKIT
BACKUP SISTEM
RESTORE SISTEM
PEMELIHARAAN HARD DISK
$MENU
MENU6
COLUMN MENU PEMELIHARAAN TABEL KABUPATEN
PEMASUKAN DATA KABUPATEN
PERBAIKAN DATA KABUPATEN
$MENU
MENU7
COLUMN MENU PEMELIHARAAN TABEL PUSKESMAS
PEMASUKAN DATA PUSKESMAS
PERBAIKAN DATA PUSKESMAS
$COMMAND
BACKUP
RUN BAK001
```

20'

MENU PROGRAM SF2TF
(1) PEMASUKAN DATA BULANAN
(2) MODIFIKASI DATA
(3) VERIFIKASI DATA
(4) LAPORAN BULANAN
(5) PEMELIHARAAN SISTEM

Select Print Routing
Printer SEKED Both

MASUKAN KODE KABUPATEN : P3220
MASUKAN TANGGAL AWAL VERIFIKASI : 01/10/88
MASUKAN TANGGAL AKHIR VERIFIKASI : 01/11/88

MENU LAPORAN BULANAN
(1) LAPORAN DENGAN TANGGAL AWAL s/d TANGGAL AKHIR
(2) LAPORAN BERDASARKAN JENIS PENYAKIT
(3) LAPORAN STATISTIK

Select Print Routing
Printer SEKED Both

MASUKAN TANGGAL AWAL LAPORAN : 01/10/88
MASUKAN TANGGAL AKHIR LAPORAN : 01/11/88

MENU PEMELIHARAAN SISTEM
(1) PEMELIHARAAN TABEL KABUPATEN
(2) PEMELIHARAAN TABEL PUSKESMAS & POPULASI
(3) PEMELIHARAAN TABEL JENIS PENYAKIT
(4) BACKUP SISTEM
(5) RESTORE SISTEM
(6) PEMELIHARAAN HARD DISK

L A P O R A N B U L A N A N

 Bln. : October s/d November 1988
 G o l o n g a n U m u r

Kode - Puskesmas	Jenis Penyakit	Golongan Umur					GDR	Jumlah Kasus DIARE dapat			Jml Kasus DIARE dilaporkan Kader		
		< 1	1-4	5-14	15-44	>45		INJUS	ORALIT	MINMAK	BAYI	A. Balita	Gol. Umur lain
P32200101 - SERANG KOTA	Diare	147.0	170.0	37.0	8.0	5.0	1.0	2.0	100.0	504.0	24.0	41.0	100.0
	Influenza	12.0	33.0	40.0	38.0	11.0	0.0	0.0	467.0	0.0	28.0	32.0	0.0
	Dysentri Basiler	0.0	2.0	7.0	18.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200102 - SINGANDARU	Diare	50.0	79.0	21.0	29.0	4.0	0.0	3.0	0.0	157.0	4.0	5.0	7.0
	Influenza	83.0	201.0	143.0	128.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200103 - BANTEN GIRANG	Diare	50.0	79.0	21.0	29.0	4.0	0.0	0.0	71.0	0.0	0.0	0.0	2.0
	Dysentri Basiler	0.0	8.0	5.0	10.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	24.0	44.0	45.0	71.0	10.0	0.0	0.0	71.0	0.0	0.0	0.0	0.0
P32200201 - TAKTAKAN	Influenza	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	1.0	4.0	5.0	9.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	12.0	31.0	22.0	16.0	7.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
P32200301 - KASEMEN	Influenza	15.0	32.0	41.0	61.0	24.0	0.0	5.0	72.0	0.0	6.0	9.0	0.0
	Diare	0.0	5.0	5.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	2.0	7.0	18.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200401 - KERAMATWATU	Dysentri Basiler	1.0	2.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	20.0	68.0	18.0	33.0	0.0	7.0	7.0	0.0	25.0	0.0	2.0	2.0
P32200501 - WARINGIN KURUNG	Diare	7.0	7.0	10.0	5.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	6.0	18.0	17.0	20.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	61.0	10.0	36.0	53.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200601 - CIRUAS	Diare	43.0	129.0	8.0	17.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	85.0
	Influenza	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	12.0	16.0	10.0	5.0	8.0	0.0	10.0	0.0	63.0	0.0	0.0	0.0
P32200701 - WALANTAKA	Diare	13.0	34.0	24.0	32.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	16.0	36.0	42.0	46.0	56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	7.0	5.0	11.0	17.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201301 - PAMAYARAN	Diare	15.0	19.0	29.0	25.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	60.0	75.0	68.0	221.0	79.0	0.0	7.0	35.0	0.0	32.0	44.0	0.0
	Influenza	112.0	68.0	93.0	160.0	84.0	0.0	7.0	35.0	0.0	32.0	44.0	0.0
P32201502 - CURUG(KEMANTREN)	Diare	25.0	36.0	39.0	48.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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L A P O R A N B U L A N A N

Bln. : October s/d November 1988

Kode - Puskesmas	Jenis Penyakit	C o l o n g a n U m u r					GDR	Jumlah Kasus DIARE dapat			Jml. Kasus DIARE dilaporkan Kader		
		< 1	1-4	5-14	15-44	>45		INUS	ORALIT	MINMAK	BAYI	A. Balita	Col. Umur lain
P32201701 - CILEGON	Diare	99.0	92.0	75.0	59.0	27.0	0.0	0.0	79.0	0.0	0.0	0.0	0.0
	Influenza	123.0	108.0	104.0	136.0	47.0	0.0	0.0	79.0	0.0	0.0	0.0	0.0
P32201801 - BOJONEGORO	Influenza	37.0	201.0	219.0	215.0	31.0	0.0	22.0	276.0	0.0	0.0	82.0	0.0
	Diare	25.0	77.0	28.0	37.0	18.0	0.0	22.0	276.0	0.0	0.0	82.0	0.0
P32201901 - PULO MERAK	Diare	12.0	26.0	13.0	36.0	10.0	0.0	26.0	130.0	0.0	0.0	0.0	0.0
	Influenza	15.0	65.0	75.0	127.0	40.0	0.0	26.0	130.0	0.0	0.0	0.0	0.0
P32201902 - TEGAL RATU	Influenza	29.0	75.0	40.0	81.0	25.0	0.0	0.0	51.0	0.0	23.0	16.0	6.0
	Diare	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	0.0	23.0	16.0	6.0
	Dysentri Basiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202001 - ANYER	Diare	13.0	24.0	12.0	11.0	1.0	3.0	0.0	40.0	0.0	10.0	25.0	11.0
	Influenza	31.0	55.0	50.0	31.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202101 - KINANGKA	Diare	4.0	21.0	2.0	10.0	1.0	0.0	4.0	38.0	0.0	0.0	0.0	0.0
	Influenza	13.0	11.0	5.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202201 - MANCAK	Dysentri Basiler	0.0	6.0	1.0	10.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	33.0	75.0	62.0	100.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	7.0	29.0	37.0	33.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202301 - CIOMAS	Influenza	21.0	29.0	13.0	29.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	0.0	1.0	8.0	6.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	4.0	2.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202401 - BAROS	Dysentri Basiler	1.0	11.0	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	7.0	27.0	7.0	19.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	33.0	75.0	62.0	100.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202501 - PARUARAN	Influenza	15.0	23.0	42.0	58.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	32.0	71.0	45.0	67.0	13.0	0.0	0.0	18.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202601 - PADARINCANG	Diare	17.0	40.0	15.0	12.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	29.0	75.0	40.0	81.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Influenza	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Dysentri Basiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Diare	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
*** TOTAL UNTUK BULAN : October ***		1.383.0	2.431.0	1.777.0	2.405.0	955.0	8.0	141.0	1.969.0	749.0	182.0	401.0	219.0

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L A P O R A N B U L A N A N

Bln.: October s/d November 1988

Kode	- P u s k e s m a s	Jenis Penyakit	G o l o n g a n U m u r					GDR	Jumlah Kasus DIARE dapat			Jml.Kasus DIARE dilaporkan Kader		
			< 1	1-4	5-14	15-44	>45		INFUS	ORALIT	MINMAK	BAYI	A. Balita	Gol. Umur lain
P32200901	- CIKANDE	influenza	43.0	44.0	43.0	156.0	62.0	0.0	205.0	100.0	0.0	0.0	0.0	0.0
		Diare	30.0	29.0	24.0	49.0	15.0	0.0	4.0	595.0	0.0	308.0	183.0	108.0
P32201001	- PONTANG	Influenza	40.0	38.0	31.0	65.0	15.0	0.0	24.0	153.0	0.0	49.0	55.0	0.0
		Diare	24.0	42.0	11.0	11.0	3.0	0.0	2.0	215.0	0.0	0.0	0.0	0.0
P32201101	- TIRTAYASA	Diare	28.0	38.0	17.0	13.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Influenza	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201201	- CARENANG	Diare	15.0	16.0	3.0	9.0	2.0	0.0	10.0	50.0	0.0	0.0	0.0	13.0
		Influenza	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201401	- KOPO	Dysentri Basiler	17.0	30.0	21.0	36.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201501	- CIKEUSAL	Influenza	17.0	118.0	84.0	107.0	56.0	0.0	53.0	53.0	0.0	0.0	0.0	0.0
		Dysentri Basiler	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
		Diare	0.0	2.0	3.0	5.0	2.0	0.0	43.0	53.0	0.0	0.0	0.0	0.0
P32201502	- CURUG(KEMANTREN)	Dysentri Basiler	0.0	3.0	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
*** TOTAL UNTUK BULAN : November ***			214.0	360.0	242.0	455.0	178.0	0.0	341.0	1.219.0	0.0	357.0	238.0	121.0
*** TOTAL SELURUH ***			1.597.0	2.791.0	2.019.0	2.860.0	1.133.0	8.0	482.0	3.188.0	743.0	539.0	639.0	340.0

LAPORAN BERDASARKAN JENIS PENYAKIT
102 - Diare

Bln.: October s/d November 1988

Kode - Puskesmas	Golongan Umur					GDR	Jumlah Kasus DIARE dapat			Jml. Kasus DIARE dilaporkan Kader		
	< 1	1-4	5-14	15-44	>45		INFUS	ORALIT	MINMAK	BAYI	A. Balita	Gol. Umur lain
P32200101 - SERANG KOTA	147.0	170.0	39.0	8.0	5.0	1.0	2.0	100.0	504.0	24.0	41.0	100.0
P32200102 - SINGANDARU	50.0	79.0	21.0	29.0	4.0	0.0	3.0	0.0	157.0	4.0	5.0	7.0
P32200103 - BANTEN GIRANG	50.0	79.0	21.0	29.0	4.0	0.0	0.0	71.0	0.0	0.0	0.0	2.0
P32200701 - TAKTAKAN	17.0	31.0	22.0	16.0	2.0	0.0	0.0	0.0	0.0	0.0	3.0	0.0
P32200301 - KASEMEN	0.0	5.0	5.0	9.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32700401 - KIRAMATWATU	20.0	68.0	18.0	33.0	0.0	2.0	7.0	0.0	25.0	0.0	2.0	2.0
P32200501 - WARINGIN KURUNG	7.0	7.0	10.0	5.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200601 - CIRUAS	43.0	129.0	8.0	17.0	17.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200701 - WALANTAKA	12.0	16.0	10.0	5.0	8.0	0.0	10.0	0.0	63.0	0.0	0.0	85.0
P32200801 - KRACILAN	13.0	34.0	24.0	32.0	16.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201301 - PAMAYARAN	15.0	19.0	29.0	25.0	23.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201401 - KOPO	60.0	75.0	68.0	221.0	79.0	0.0	7.0	35.0	0.0	32.0	44.0	0.0
P32201502 - CURUG (KEMANTREN)	25.0	36.0	39.0	48.0	18.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201601 - PETIR	99.0	92.0	75.0	59.0	27.0	0.0	0.0	79.0	0.0	0.0	0.0	0.0
P32201701 - CILEGON	25.0	72.0	28.0	37.0	18.0	0.0	22.0	276.0	0.0	0.0	82.0	0.0
P32201801 - BOJONGGORO	12.0	26.0	13.0	36.0	10.0	0.0	26.0	130.0	0.0	0.0	0.0	0.0
P32201901 - PULO MERAK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	51.0	0.0	23.0	16.0	6.0
P32201902 - TEGAL RATU	13.0	24.0	12.0	11.0	1.0	3.0	0.0	40.0	0.0	10.0	25.0	11.0
P32202001 - ANYER	4.0	21.0	2.0	10.0	1.0	0.0	4.0	38.0	0.0	0.0	0.0	0.0
P32202101 - KINANGKA	7.0	29.0	37.0	33.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202201 - HANCAK	0.0	1.0	8.0	6.0	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202301 - CIOMAS	7.0	27.0	7.0	19.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202401 - BAROS	32.0	71.0	45.0	67.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202501 - PARUARAN	17.0	40.0	15.0	12.0	20.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202601 - PADARINCANG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL BULAN October ***	670.0	1.151.0	556.0	762.0	300.0	8.0	81.0	838.0	749.0	93.0	218.0	213.0

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Tanggal : 15/08/89
 Kabupaten : P3220 - SERANG

LAPORAN BERDASARKAN JENIS PENYAKIT
 107 - Diare

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 Bln.: October s/d November 1988

Kode - Puskesmas	C o l o n g a n U m u r					GDR	Jumlah Kasus DIARE dapat			Jml. Kasus DIARE dilaporkan Kader		
	< 1	1-4	5-14	15-44	>45		INFUS	ORALIT	MINMAK	BAYI	A. Balita	Col. Umur lain
P32200901 - CIKANDE	30.0	29.0	24.0	49.0	15.0	0.0	4.0	595.0	0.0	308.0	183.0	108.0
P32201001 - PONTANG	24.0	42.0	11.0	11.0	3.0	0.0	2.0	215.0	0.0	0.0	0.0	0.0
P32201101 - TIRTAYASA	28.0	38.0	17.0	13.0	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201201 - CARENANG	15.0	16.0	3.0	9.0	2.0	0.0	10.0	50.0	0.0	0.0	0.0	13.0
P32201501 - CIKEUSAL	0.0	2.0	3.0	5.0	2.0	0.0	43.0	53.0	0.0	0.0	0.0	0.0
TOTAL BULAN November ***	97.0	127.0	58.0	87.0	32.0	0.0	59.0	913.0	0.0	308.0	183.0	121.0
*** TOTAL SELURUH ***	767.0	1.278.0	614.0	849.0	332.0	8.0	140.0	1.751.0	749.0	401.0	401.0	334.0

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LAPORAN BERDASARKAN JENIS PENYAKIT
 Disentri Basiler

Bln.: October s/d November 1988

Kode - Puskesmas	Golongan Umur					GDR	Jumlah Kasus DIARE dapat			Jml. Kasus DIARE dilaporkan Kader		
	< 1	1-4	5-14	15-44	>45		INFUS	ORALIT	MINMAK	BAYI	A. Balita	Col. Umur lain
P32200101 - SERANG KOTA	0.0	2.0	7.0	18.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200102 - SINGANDARU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200103 - RANTEN GIRANG	0.0	8.0	5.0	10.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200201 - TAKTAKAN	1.0	4.0	5.0	9.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200301 - KASEMFN	0.0	2.0	7.0	18.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200401 - KERAMATWATU	1.0	2.0	5.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201301 - PAMAYARAN	7.0	5.0	11.0	17.0	14.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201601 - PETIR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201901 - PULO MERAK	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202001 - ANYER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202101 - KINANGKA	0.0	6.0	1.0	10.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202201 - MANCAK	0.0	4.0	2.0	7.0	7.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202301 - CIOMAS	1.0	11.0	6.0	6.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202401 - BAROS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202501 - PARUARAN	0.0	2.0	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202601 - PADARINCANG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL BULAN October ***	10.0	46.0	52.0	101.0	32.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LAPORAN BERDASARKAN JENIS PENYAKIT
 103 - Dysentri Bakter

Bln. : October s/d November 1988

Kode - Puskesmas	Golongan Umur					GDR	Jumlah Kasus DIARE dapat			Jml. Kasus DIARE dilaporkan Kader		
	< 1	1-4	5-14	15-44	>45		INFUS	OPALIT	MINMAK	BAYI	A. Balita	Gol. Umur lain
P32201401 - KOPO	17.0	30.0	21.0	36.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201501 - CIKUFUSAL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201502 - CURUG(KEMANTREN)	0.0	3.0	5.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL BULAN November ***	17.0	33.0	26.0	40.0	13.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
*** TOTAL SELURUH ***	27.0	79.0	78.0	141.0	45.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

62.

LAPORAN BERDASARKAN JENIS PENYAKIT
1903 - Influenza

Bin.: October s/d November 1988

Kode - Puskesmas	Golongan Umur					GDR	Jumlah Kasus DIARE dapat			Jml. Kasus DIARE dilaporkan Kader		
	< 1	1-4	5-14	15-44	>45		INFUS	ORALIT	MINMAK	BAYI	A. Balita	Gol. Umur lain
P32200101 - SERANG KOTA	12.0	33.0	40.0	38.0	11.0	0.0	0.0	467.0	0.0	28.0	32.0	0.0
P32200102 - SINGANDARU	83.0	201.0	143.0	128.0	48.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200103 - BANTEN GIRANG	24.0	44.0	45.0	71.0	10.0	0.0	0.0	71.0	0.0	0.0	0.0	0.0
P32200201 - TAKTAKAN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200301 - KASFMEN	15.0	32.0	41.0	61.0	24.0	0.0	5.0	22.0	0.0	6.0	9.0	0.0
P32200401 - KERAMATWATU	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200501 - WARINGIN KURUNG	6.0	18.0	17.0	20.0	11.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200601 - CIRUAS	61.0	10.0	36.0	53.0	26.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200701 - WALANTAKA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32200801 - KRAGILAN	16.0	36.0	42.0	46.0	56.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201401 - KOPD	112.0	68.0	93.0	160.0	84.0	0.0	7.0	35.0	0.0	32.0	44.0	0.0
P32201601 - PETIR	123.0	108.0	104.0	136.0	47.0	0.0	0.0	79.0	0.0	0.0	0.0	0.0
P32201701 - CILIFON	32.0	201.0	219.0	215.0	31.0	0.0	22.0	276.0	0.0	0.0	82.0	0.0
P32201801 - BOJONEGORO	15.0	65.0	75.0	127.0	40.0	0.0	26.0	130.0	0.0	0.0	0.0	0.0
P32201901 - PULO MERAK	29.0	75.0	40.0	81.0	25.0	0.0	0.0	51.0	0.0	23.0	16.0	6.0
P32201902 - TEGAL RATU	31.0	55.0	50.0	31.0	22.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202001 - ANYER	13.0	11.0	5.0	7.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202101 - KINANGKA	33.0	75.0	62.0	100.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202201 - MANCAK	21.0	29.0	13.0	29.0	38.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202301 - CIOMAS	33.0	75.0	62.0	100.0	21.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202401 - BAROS	15.0	23.0	42.0	58.0	78.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202501 - PARUARAN	29.0	75.0	40.0	81.0	25.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32202601 - PADARINCANG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
TOTAL BULAN October ***	703.0	1.234.0	1.169.0	1.542.0	623.0	0.0	60.0	1.131.0	0.0	89.0	181.0	6.0

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Tanggal : 15/08/89
 Kabupaten : P3220 - SERANG

Balokan # 2

LAPORAN BERDASARKAN JENIS PENYAKIT
 1903 - Influenza

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 Bln.: October s/d November 1988

Kode - Puskesmas	Golongan Umur					GDR	Jumlah Kasus DIARE dapat			Jml. Kasus DIARE dilaporkan Kader		
	< 1	1-4	5-14	15-44	>45		INFUS	ORALIT	MINMAK	BAYI	A. Balita	Gol. Umur lain
P32200901 - CIKANDU	43.0	44.0	43.0	156.0	62.0	0.0	205.0	100.0	0.0	0.0	0.0	0.0
P32201001 - PONTANG	40.0	38.0	31.0	65.0	15.0	0.0	24.0	153.0	0.0	49.0	55.0	0.0
P32201101 - TIRTAYASA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201201 - CARENANG	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
P32201501 - CIKEUSAL	17.0	118.0	84.0	107.0	56.0	0.0	53.0	53.0	0.0	0.0	0.0	0.0
TOTAL BULAN November ***	100.0	200.0	158.0	328.0	133.0	0.0	282.0	306.0	0.0	49.0	55.0	0.0
*** TOTAL SELURUH ***	803.0	1.434.0	1.327.0	1.870.0	756.0	0.0	342.0	1.437.0	0.0	138.0	238.0	6.0

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LAPORAN STATISTIK
 Bulan : October s/d November 1988

Total kasus semua golongan umur	:	10.400,0
Total kasus umur < 1	:	1.597,0
Total kasus umur 1- 4	:	2.791,0
Total kasus umur 5-14	:	2.019,0
Total kasus umur 15-44	:	2.860,0
Total kasus umur >45	:	1.133,0
Total kasus dengan kematian	:	8,0
Total kasus DIARE dapat INFUS	:	482,0
Total kasus DIARE dapat ORALIT	:	3.188,0
Total kasus DIARE dapat NASIHAT/MINMAK	:	749,0
Total kasus DIARE Bayi dilaporkan Kader	:	539,0
Total kasus DIARE Anak balita dilaporkan Kader	:	639,0
Total kasus DIARE Gol. Umur lain dilap. Kader	:	340,0
Total pemakaian INFUS	:	300,0
Total pemakaian ORALIT 200cc	:	250,0
Total pemakaian ORALIT 1000cc	:	150,0

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1. PERSENTASE PENDERITA DIBERI INFUS	:	4,6%
2. PERSENTASE PENDERITA DIBERI ORALIT	:	30,7%
3. PERSENTASE PENDERITA DIBERI NASIHAT/MINMAK	:	7,2%
4. PERSENTASE PENDERITA DILAYANI OLEH KADER	:	14,6%
5. PERSENTASE PENDERITA MENINGGAL/JML. KASUS	:	0,1%
6a. RARA-RATA PENGGUNAAN INFUS / TOTAL KASUS GOLONGAN UMUR	:	0,0
b. RATA-RATA PENGGUNAAN INFUS / TOTAL KASUS DIBERI INFUS	:	0,6
7a. RATA-RATA PENGGUNAAN ORALIT/ TOTAL KASUS GOLONGAN UMUR	:	0,0
b. RATA-RATA PENGGUNAAN ORALIT/ TOTAL KASUS DIBERI ORALIT	:	0,0

Kabupaten SERANG
 Tanggal - 15/08/89